

Micromedex® Clinical Knowledge Suite

Micromedex Solutions

User Guide

APRIL 2017

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PREFACE

CONVENTIONS USED IN THIS MANUAL

Certain standards and conventions have been employed in this user guide to communicate in the most effective manner possible. These standards have been used whenever possible.

Bold Text

Normally, bolded text is used:

- to emphasize an important concept
 or -
- to denote a clickable item on the user interface (for example, the directions may state: "Click the Button Name button...")
 or -
- to specify a menu item (for example, "...from the File > Print menu item...")
- to identify another Truven Health Analytics product by name

Italicized Text

Generally, italics are used to denote:

- field names on the user interface (e.g., "Type 'digoxin' in the Field_Name field")
- an "either-or" situation (denoted: or -)

window, dialog box, or page name (e.g., "the *IV Compatibility Results* page") or a hypertext link (e.g., "the *Contact* link")

Examples, Scenarios, Screen Captures

All examples shown or described in this guide are for training and illustration purposes only.

Printing this Guide

This user guide has been designed in book layout, to print double-sided. If you print the guide single-sided, blank pages will print. These blank pages are intentional. You are not missing any information.

Implementation Requirements

The data and software implementation described in this manual are furnished under license and may be used only in accordance with the terms of such license. See your license for all terms and conditions that apply.

CONTACT TRUVEN HEALTH ANALYTICS

Office Locations

Corporate Office

100 Phoenix Drive Ann Arbor, MI 48108 USA

Colorado Office

6200 South Syracuse Way, Suite 300 Greenwood Village, CO 80111 USA

North Carolina Office

4819 Emperor Boulevard Durham, NC 27703 USA

Illinois Office

1 N. Dearborn, Suite 1400 Chicago, IL 60602 USA

CUSTOMER RESOURCE CENTER

Technical & Customer Support

At Truven Health Analytics, our staff of technical and service experts has one goal - to quickly take care of your needs so that you are back to optimal performance with our solutions.

Our Customer Resource Center is available to all of our customers free of charge, and can be your single point of contact for the following services:

- Clinical Content Requests
- Technical Support Requests
- Product Use Support
- Product Enhancement Requests

24/7 Phone Support

United States & Canada:

Phone: 1-800-525-9083

Select option 3 for the Support Services menu. For urgent technical inquiries select 3,3

Outside the United States & Canada:



Phone: +1 303 486-6444

Email Support (Business Hours Only)

www.micromedex.com/request

Email requests are answered during normal business hours. Requests received outside of normal business hours are answered the next business day.

Normal Business Hours

Monday through Thursday: 7:00 am through 5:00 pm (Mountain Time Zone). Friday: 7:00 am through 2:00 pm (Mountain Time Zone).

Outside of normal business hours, technical support calls will be managed according to the guidelines shown below:

General Guidelines	Priority	Maximum Initial Response and Assessment
After business hours: Voice mail messages will be returned in the order they are received. Priority is assigned at that time. Email requests received outside of busi- ness hours will be assigned a priority level the following business day.	Critical Priority Multiple users cannot access or use major product functionality	Within 4 hours
	High Priority Missing or inaccurate data or functionality	Within 1 business day
	Medium Priority One user cannot access or use major product function- ality	Within 2 business days
	Low Priority General questions or enhancement requests	Within 5 business days

For Knowledge Base Articles, FAQs, System Requirements, Technical Documentation, and other miscellaneous support information, please visit <u>www.micromedex.com/support</u>

For information on our products or services, visit our Web site at: <u>www.micromedex.com</u> or contact your local distributor.

TOTAL SUPPORT SOLUTIONS

We stand behind our products and our customers and believe that the *total* customerexperience is what differentiates us from the competition. Our solutions are the fastest, most reliable, accurate evidence-based clinical decision support solutions on the market. Our Total Support Solution offers top-notch service, training, and support to ensure you are able to realize all the benefits our products offer.

Our **Total Support Solution** includes dedicated personnel and robust tools and training to help you get the most from your investment in Micromedex® Solutions.

As part of our Total Support Solution we will:

- Provide flexible training opportunities, such as webinars, on-site classes, unit-to-unit specialized training, eLearning, and more, to help you and all users at your site stay current on Micromedex.
- Solve questions and issues promptly with our 24/7 technical support
- · Ask you for your input on how we can continue to improve our products and services
- Make it easy to do business with us on all fronts

Ask your Client Relationship Manager or Sales Executive how we can help you with our **Total Support Solution!**



CHAPTER 1: MICROMEDEX OVERVIEW

Designed specifically for point-of-care clinicians, the Micromedex® Solutions browser-based interface is intuitive and easy-to-use, providing quick access to evidence-based content at any point in the patient care process. Micromedex understands clinicians need common questions answered quickly and accurately to provide the best patient care possible. You can also access the same, evidence-based content directly from your mobile device(s).

With the latest release it is easier than ever to access the information you trust – when and where you need it with an updated and modernized user experience. Now you can enjoy streamlined access to essential functions and faster access to routine and frequently used features with fewer steps.

In designing the next generation of Micromedex, we listened to the needs of you, our customers. In this version we focused on key enhancements that we hope will improve your experiences with our application. The new Micromedex provides a single interface to access, search, and navigate to drug, disease, toxicology, and patient education information. This single interface ensures clinical consistency across our fortified evidence. You now have direct access to the most used drug information, such as: dosing, adverse effects, indications, and interactions. There is also direct access to other useful information such as: "drugs that treat" and "drugs that cause" when searching for a condition.

In addition, we have updated the look and feel and made it more intuitive. Fewer clicks and better searching make it easier to find the information you need...fast.

Micromedex Offers:

- Fewer clicks to get the answer you need
- No lengthy documents to scan
- Seamless searching across drug, disease, toxicology, and other content areas (without re-entering your search term)
- Spelling help

Plus, Micromedex provides enhanced summary drug information:

- Indications and Dosing includes efficacy, strength of evidence, and strength of recommendation ratings
- Regulatory Status and Generic Availability displayed in the summary document
- Drug Toxicity provides information on clinical effects, treatment, and range of toxicity
- Patient Education offers point-of-care counseling information for clinicians to use when educating patients about their medications

Evidence You Can Trust

In critical situations, Micromedex always delivers. Our unparalleled in-house editorial process references the most clinically relevant evidence available. It is aggregated, filtered, and synthesized to virtually eliminate any gaps in information. The result is information that is consistent in format, presentation, and context; and relevant, current, and uniform across the patient continuum.

For clinical decision support, it delivers consistent, high-quality information that sets the industry standard for everyday use as well as in the most difficult situations. You get both

standard-level and expanded evidence — within context — so you can get to answers quickly. Components include robust drug information the entire staff routinely uses, such as dosing and interactions, as well as the evidence that the most experienced clinicians need in difficult or unusual situations, including off-label uses and specialty populations. The at-a-glance Micromedex Rating System helps clinicians readily identify the strength of key factors needed in making treatment decisions — strength of evidence, efficacy, and recommendation. The Micromedex Rating System is the result of thousands of man-hours reviewing medical literature to provide an easy-to-use guide that supports fast, informed decision-making.

Designed for Experts Like You

Teams of on-staff experts bring real-world experience to our decision support resources. Doctors, nurses, pharmacists, and other industry professionals help create Micromedex to meet your specific needs.

Who can benefit from Micromedex ?

Point-of-care clinicians

- Quick on-the-floor access
- Intuitive workflow-based interface
- Trusted summary-level information

Pharmacists

- Facility-wide access to trusted drug information
- Improved searching and navigation

Medical Librarians

- One comprehensive resource for clinical decision support
- Consistent information throughout the entire hospital

Only Micromedex Is:

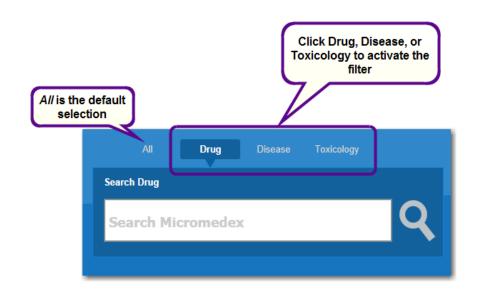
- Evidence-based for more than 40 years
- Trusted in more than 5,000 hospitals and healthcare institutions in 83 countries
- Used for toxicology content in 100 percent of U.S. Poison Control Centers, and most centers around the world
- Integrated into nearly 2,000 provider EMR systems
- On the list of statutorily named compendia in the U.S. Medicaid program and is used to determine a "medically-accepted indication" of an off-label drug
- Used in most of the U.S. accredited Schools of Pharmacy and many more worldwide

CHAPTER 2: MICROMEDEX SOLUTIONS HOME PAGE

Usability experts and clinical focus groups were utilized to develop the intuitive, easy-to-use Micromedex® Solutions interface. Extra care was used to ensure that users don't have to reenter the same search over and over. It's simple to jump from a disease state, to a drug, and then to the relevant patient education document, all from one search. The home page offers quick and direct access to the most important and relevant items.

With the prominently displayed *Search Micromedex* search box that is available on every page in Micromedex Solutions you have direct access to the information you need. It also provides intelligent searching with in-line spelling suggestions.

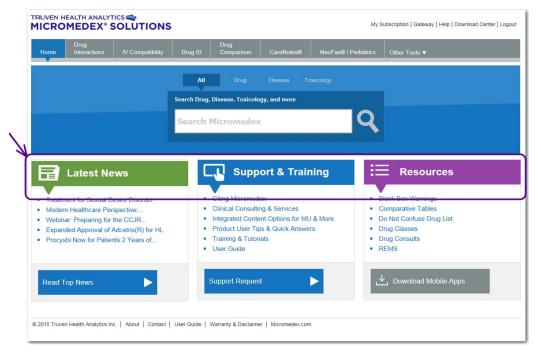
By default you can quickly perform one search to get all the relevant results for the content to which you subscribe, or you can specify a filter option to search specifically within the drug, disease, or toxicology content, which will provide you with more targeted results.



Note: The filter is only applied when searching from the home page. For more details on searching in Micromedex Solutions see <u>Chapter 3: Searching</u> <u>Micromedex Solutions on page 13</u>.

From beneath the *Search Micromedex* search box on the Home Page you can access: the **Latest News** from Micromedex Solutions and across the industry, **Support & Training** and

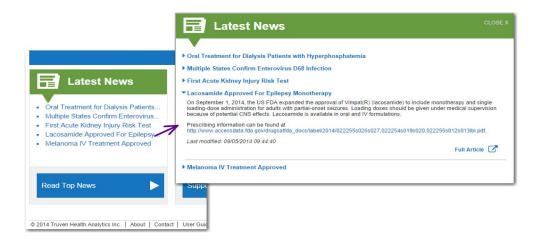
other Micromedex Solutions information, and **Resources** (targeted searches) to take you directly to the most accessed drug content.



Latest News

Late-breaking clinical news, Micromedex events, and product announcements

Stay informed with late-breaking clinical news and information about Truven Health Analytics products and events. The *Latest News* column on the Micromedex Solutions home page is intended to provide you with front-of-mind information on important topics identified by our clinical staff, keep you informed on important additions to our product-line, communicate upcoming events, and provide tips to help you utilize our tools for better patient care. Select a topic from the Latest News column to see a summary, which contains a link to the full article.





Support and Training

Help is only a click away. Access support and training for help with using Micromedex Solutions, additional services and consulting, and how to cite Micromedex Solutions content.

- **Citing Micromedex** Learn how to properly cite Micromedex Solutions databases and the copyright protections that should be used.
- Clinical Consulting & Services Micromedex Solutions Consulting Practice offers professional services in key areas to help hospitals advance their organizational goals from identifying cost efficiencies in medication management to designing compliance and population management programs that meet clinical imperatives while driving toward financial objectives.
- Integrated Content Options for MU & More Micromedex Integrated Evidence options result in improved clinical outcomes and increased patient satisfaction — and help meet compliance goals. By providing the information caregivers need in a format they want, at the point of care, integrated solutions help satisfy Meaningful Use objectives and create efficiencies for the clinical staff.
- **Product User Tips & Quick Answers** To help you get the most out of your Micromedex Solutions subscription, use these resources as a quick reminder of some of the helpful and relevant information available at your fingertips.
- Training & Tutorials Learn about the powerful features and functions available in our products. Our Training center offers an extensive variety of training options, FREE OF CHARGE for you and your staff. Classes and courses are available in a variety of types and formats to offer a training solution that meets your individual need.

Hands On Tutorials eLearning courses give you the flexibility to learn at your pace and within your schedule with hands-on practice. These courses offer an interactive learning experience. Many courses also offer the option of audio narration.

Video Demonstrations -

For the student who learns best with a brief on-demand video demonstration, this area offers overviews of major features, functions,



and the tools to get the most out of your Micromedex Solutions subscription.

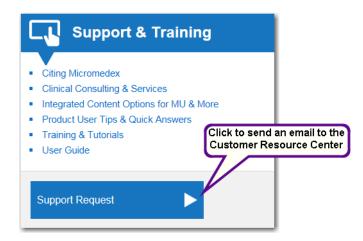
Web Seminars (Live and Recorded) - Offered monthly, our live training seminars give you the opportunity to speak directly to an expert as well as interact with other Micromedex Solutions customers during an online class. Recorded seminars can be attended at any time to fit your schedule.

Train the Trainer Materials - Training guides provide step-by-step script and instructions for instructors conducting training to staff.

On Site Training* - Our Education Services team members will develop a personalized presentation based on your audience and hold sessions at your

preferred location. If customized online training is what you are looking for, we would be happy to speak with you and create a program that will fulfill your training needs exactly. Complete the Training Support form to help us create the right training solution for you and your organization.

- * Travel/Consulting Fees may apply.
- User Guide As with the User Guide link at the bottom of the page, this link opens the latest Micromedex Solutions User Guide in Adobe® Acrobat (.pdf) format.
- Support Request Do you need technical help? Do you want to submit a topic or idea to the Truven Health Editorial staff? Click the Support Request link (or the Contact link at the bottom of the page) to send an email to the Customer Resource Center.



This link opens an online support request form. Use this form for:

- Non-urgent requests for Technical Support
- Submission ideas (e.g., topic or content suggestions)
- Password reset requests
- Training requests

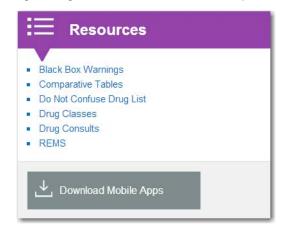
Online Support requests are handled during business hours. Most requests are responded to within one business day. Editorial content inquiries may take three to five business days depending on the complexity of the inquiry.

For urgent matters, please contact our Customer Resource Center. See <u>"Contact</u> <u>Truven Health Analytics" on page i</u> for phone and other contact information.



Resources (Targeted Searches)

This column provides direct links to clinical information that is valuable and commonly requested. You can go straight to the information without performing a search.



- Black Box Warnings This link provides an alphabetical list of all the drugs in Micromedex Solutions that have a black box warning. Use the Jump To: menu to display the list of drug titles beginning with a specific letter, allowing you to open directly to the black box warning topic in the associated drug information. You can also perform a search in the main *Search Micromedex* search box to find this information. For more details see "Black Box Warning List" on page 42.
- **Comparative Tables** This link displays an alphabetical list of Drug Consults documents that contain a comparative table. Click on a title to open the Drug Consults document. You can also perform a search in the main *Search Micromedex* search box to find this information. For more details see <u>"Comparative Tables" on page 43</u>.
- **Do Not Confuse Drug List** This link displays an alphabetical list of frequently confused drug names, including look-alike and sound-alike name pairs. Drug name pairs that are often confused are listed on the same line, in alphabetical order. Tall man lettering is used to further aid in discerning between common look-alike drugs. To move to a title later in the alphabet, use the **Jump To:** menu. Click any link to open the associated drug landing page. You can also perform a search in the main *Search Micromedex* search box to find this information. For more details see <u>"Do Not Confuse Drug List" on page 44.</u>
- **Drug Classes** This link provides an alphabetical list of drug classes contained in Micromedex Solutions. Use the **Jump To:** links to quickly display the list of drug classes beginning with the selected letter. Click a drug class to display the drugs in the class. Click on a drug name to display the associated drug information. You can also perform a search in the main *Search Micromedex* search box to find this information. For more details see <u>"Drug Classes" on page 46</u>.
- Drug Consults This link provides an alphabetical list of all the Drug Consult articles available in Micromedex Solutions. Click on a title to open the associated Drug Consult document or use the Jump To: menu to display the list of drug consults whose titles begin with the selected letter. You can also perform a search in the main Search Micromedex search box to find this information. For more details see <u>"Drug Consults" on page 49</u>.
- REMS This link provides an alphabetical list of drugs with current Risk Evaluation and Mitigation Strategy (REMS) requirements. To display titles from a specific letter in

the alphabet use the **Jump To:** menu. Click on the drug name link to open the document positioned in the REMS section. You can also perform a search in the main *Search Micromedex* search box to find this information. For more details see <u>"REMS:</u> List of Drugs With a Risk Evaluation and Mitigation Strategy" on page 50.

 Download Mobile Apps - Click this link (or the Download Center link at the top of the page) for information on the Micromedex Solutions mobile offerings. Much more than quick drug look-ups, *mobile*Micromedex® powers your mobile device with a wealth of clinical knowledge from Micromedex Solutions, the industry's leading provider of evidence-based clinical information.

In the examination room, at the nurse's station, or in the pharmacy, with *mobile*Micromedex you take the trusted content you rely upon with you every step of the way.

See <u>"Micromedex for Mobile Devices" on page 223</u> to learn more about these exciting offers from Micromedex:

- Web-based access to Micromedex Solutions
- Apps available for download from the iTunes® App Store, Google Play®, and the Windows Store®

Other Page Elements

Many elements on the Micromedex Solutions interface appear throughout the application.

Header Links

			0		My Subscriptic	on Gateway	Help Download Center	Logout
Home	Drug Interactions	IV Compatibility	Drug ID	Drug Comparison	CareNotes®	NeoFax®	Other Tools ▼	

My Subscription



View all of the Micromedex Solutions products to which you subscribe by clicking the **My Subscription** link. Your customer name and account number are shown near the top of the window.



Subscribed products (and external applications) are shown on the left side of the window. Products and applications to which you do not subscribe are shown on the right.

Hover your mouse over the "i" icon to view a general description of the product or application.

Gateway

The **Gateway** link allows you quick access to other applications available to you from Truven Health Analytics. Click the **Gateway** link to go to the Micromedex Solutions Web Application Access page.

Help

Help is always just a click away. Click the **Help** link to open the help application for Micromedex . Navigate to any topic by clicking on the books (chapters). Use the **Index** or **Search** tabs to search for help by a keyword.

Download Center

Click this link (or the **Download Mobile Apps** link under *Resources* on the home page) for information on the Micromedex Solutions mobile offerings. Much more than quick drug look-ups, *mobile*Micromedex powers your mobile device with a wealth of clinical knowledge from Micromedex Solutions, the industry's leading provider of evidence-based clinical information.

In the examination room, at the nurse's station, or in the pharmacy, with *mobile*Micromedex you take the trusted content you rely upon with you every step of the way.

See <u>"Micromedex for Mobile Devices" on page 223</u> to learn more about these exciting offers from Micromedex:

- Web-based access to Micromedex Solutions
- Apps available for download from the iTunes® App Store, Google Play®, and the Windows Store®

Logout

It is good practice to log out of the Micromedex application when you are away from the workstation for an extended period of time. Use the **Logout** link to close your session.

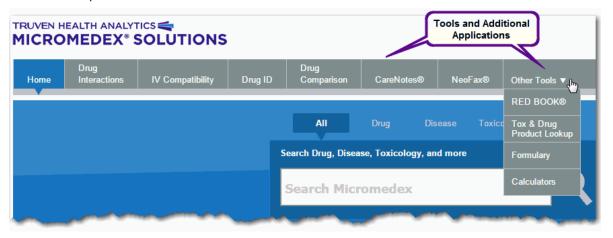
Home Button

Click on the **Home** button from any page to return to the Micromedex Solutions home page.



Tools and Additional Applications

To the right of the Home button on every page in Micromedex Solutions are links to tools and additional Micromedex applications. The most frequently used tools are shown on the toolbar. Depending on your subscription, the tool you want may be visible or it may in the Other Tools drop-down menu.



The possible tools are:

- **Drug Interactions** allows you to check for interacting drug ingredients, their effects, and their clinical significance. Interaction information can be displayed for a single drug or between multiple drugs.
- IV Compatibility provides easy access to proven Trissel's 2 data to assist with accurate IV compatibility decisions
- Drug ID finds drugs based on their imprint code or physical description
- Tox & Drug Product Lookup to find product, manufacturer contact, and related toxicologic management information on: drugs, commercial/household products and chemicals, plants and animals, and slang terms/street names for drugs or substances
- Drug Comparison provides a side-by-side drug information comparison
- **Calculators** includes: antidote and dosing calculators and nomograms, lab values, dosing tools, clinical calculators, and measurement calculators

All of these tools provide features and functions not found within the main search in Micromedex *.



The additional applications that are available from within Micromedex Solutions are: Formulary, CareNotes®, RED BOOK®, and NeoFax®/Pediatrics. These links allow you to launch the application and continue your work.

Note: *Single drug interactions and single IV compatibility information is also available from the Quick Answers tab on a drug landing page.

Page Footer Links

At the bottom of every page in Micromedex Solutions are links to the following information:



About

Click this link to open a page with information about Truven Health Analytics and Micromedex Solutions.

Contact

Do you need technical help? Do you want to submit a topic or idea to the Truven Health Editorial staff? Click this link (or the **Support Request** link under *Support & Training* on the home page) to send an email the Customer Resource Center.

This link opens an online support request form. Use this form for:

- Non-urgent requests for Technical Support
- Submission ideas (e.g., topic or content suggestions)
- Password reset requests
- Training requests

Online Support requests are handled during business hours. Most requests are responded to within one business day. Editorial content inquiries may take three to five business days depending on the complexity of the inquiry.

For urgent matters, please contact our Customer Resource Center. See <u>"Contact Truven</u> <u>Health Analytics" on page i</u> for phone and other contact information.

User Guide

As with the **User Guide** link under *Support & Training* on the home page, this link opens the latest Micromedex Solutions User Guide in Adobe® Acrobat (.pdf) format.

Warranty & Disclaimer

This link opens a page on warranty and disclaimer information for our products.

Micromedex.com

On the Micromedex home page you can learn about Micromedex products, support, training, events, and more.

CHAPTER 3: SEARCHING MICROMEDEX SOLUTIONS

This chapter describes search techniques that can be used in Micromedex® Solutions for all types of content. For more details on the content, see the following chapters:

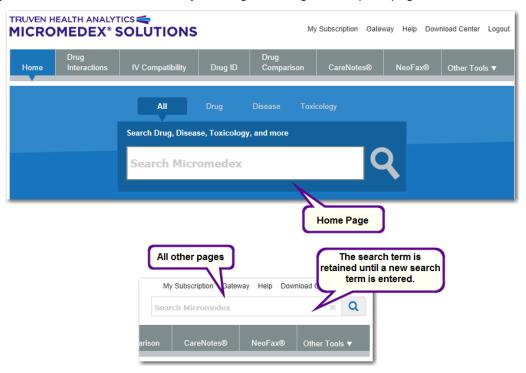
- <u>Chapter 4: Drug Information on page 59</u>
- Chapter 5: Disease Information on page 93
- <u>Chapter 6: Toxicology Information on page 107</u>
- <u>Chapter 7: Alternative Medicine Information on page 117</u>
- Chapter 8: Lab Information on page 127
- <u>Chapter 9: Reproductive Risk Information on page 135</u>

SEARCHING BASICS

Micromedex makes finding answers as simple as a single query. The smart search functionality includes a single search box on every page so you can perform searches and have results displayed on a single page. By default you can quickly perform one search to get all the relevant results for the content to which you subscribe, or you can specify a filter option to search specifically within the drug, disease, or toxicology content, which will provide you with more targeted results.

The Search Micromedex search box is available on every page in Micromedex Solutions. On the Home Page it is prominently displayed below the toolbar. On all other pages it is located in the upper right of the page.

Search Term Retention - When you enter a search term it stays in the *Search Micromedex* search box until you enter another term or until you select a tool from the toolbar. This helps to give context to search results as you navigate through subsequent pages.



Whether you are looking for information about a drug, a condition, reproductive risk, toxicity or overdose, alternative medicine or therapy, you can use the *Search Micromedex* search box to quickly find the information you need.

Typically, the more information you can provide, the faster we can move you directly to the answer to your question. Not all searches have a direct link to a topic in our data, but all searches return results that are ranked by relevancy to your search terms.

Note: Searc

Note: Searches are NOT case-sensitive.



When you type in the *Search Micromedex* search box the drop-down list opens as soon as you enter three or more characters and makes suggestions based on what you type. For example, if you begin typing "dabigatran," the drop-down list suggests a drug name in addition to dosing, adverse effects, indications, and interactions for the drug.



Once you find a match in the drop-down list, do any one of the following:

- Start the search with the mouse Click on an item in the drop-down list, and the search starts immediately.
- Start the search with the keyboard Use the arrow up/down keys to select an item and then press the Enter key (or click the search button () to start the search.
- Keep typing

The list narrows with each match to the characters you type.

SEARCH TECHNIQUES

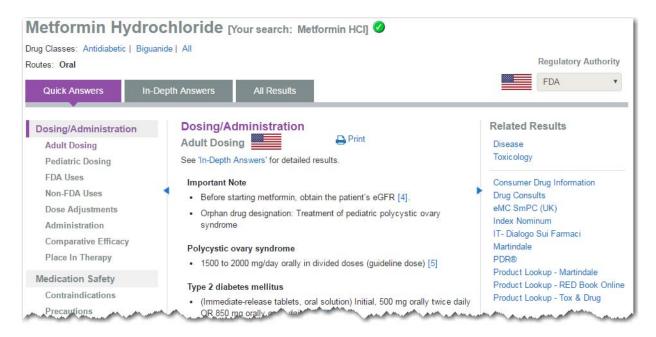
The Search Micromedex search box that is available on every page in Micromedex Solutions has intuitive search capabilities to provide you with quick, direct access to the most relevant, useful drug information, specifically things such as dosing, adverse effects, indications, and interactions. The single interface allows you to search and navigate to essential drug, disease, toxicology, and patient education information. A single interface ensures clinical consistency across our fortified evidence.

The following search techniques are explained in this section:

- Landing Pages Go directly to a landing page where you can see all the relevant and related information at a glance. See <u>"Landing Pages" on page 16</u>.
- Direct Access Searching These searching suggestions are intended to provide you with shortcuts to important and frequently used drug information. See <u>"Direct Access</u> <u>Searching" on page 29</u>.
- Brand Name Drugs Search on a brand name drug to see a list of the corresponding generic drugs being displayed on a *Brand Name Results* page. See <u>"Brand Name</u> <u>Drugs" on page 37</u>.

- Intelligent Searching The Micromedex intelligent searching provides in-line spelling suggestions in real time while you are conducting your search. See <u>"Intelligent</u> <u>Searching" on page 38</u>.
- Filtered Searching Specify a filter option to search specifically within the drug, disease, or toxicology content to receive more targeted results. See <u>"Filtered</u> <u>Searching" on page 39</u>.
- Targeted Searches Several tightly-focused, targeted searches are available for clinicians to quickly gain access to highly sought-after information such as black box warnings and comparative tables. See <u>"Targeted Searches" on page 41</u>.
- Salt/Base Forms, Combinations, Kits When searching on a base of a salt/base form, Micromedex Solutions returns a landing page with links to allow you to choose the specific substance. When searching on a combination drug or a kit you are taken directly to the content landing page, which includes links to other substance choices. See <u>"Salt/Base Forms, Combinations, Kits" on page 52</u>.
- Intermediate Search Results All results are displayed if the search does not employ one of the other techniques. See <u>"Intermediate Search Results" on page 54</u>.
- International Drug Searching Subscribers to international drug databases can search using local brand names. <u>"International Drug Searching" on page 56</u>.

Landing Pages



The purpose of a landing page is to show all relevant and related information at a glance, so you can quickly navigate to your specific area of interest. It intuitively displays tabs for summary information and detailed information. Micromedex takes you directly to the landing page when the application deems it highly likely that this is your area of interest. There are landing pages for Drug, Disease, Toxicology, and Alternative Medicine information.





Whether you arrived on the landing page directly from your search or you clicked on a link on the *Intermediate Search Results* page (see <u>"Intermediate Search Results</u>" on page 54), the landing page gathers all the related results for the search together into one compact view.

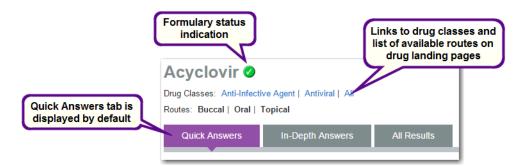
The amount and layout of the information shown on a landing page will vary by your subscription and content availability. Landing pages consist of three tabs:

- Quick Answers (see page 18)
- In-Depth Answers (see page 20)
- All Results (see page 24)

Landing pages for drugs also include the following information:

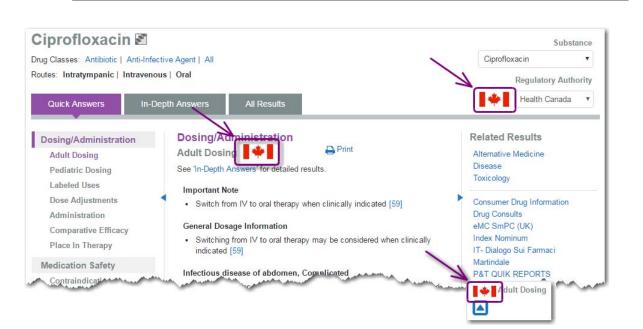
- Available routes
- Links to drug classes associated with the drug. Click a link to see all the drugs in the class.
- Formulary status designated by an icon (Formulary Status customers only)

The Micromedex® Formulary Status product provides immediate access to formulary information throughout your facility. It guides prescribing clinicians toward formulary drugs, saving your pharmacists, nurses, and physicians time – and your facility money. Formulary Status is integrated with Micromedex® Solutions, so that a drug's designated formulary status displays on the drug landing page in the form of an icon. Examples of formulary status, which are maintained by your facility's formulary administrators and are customizable, include: Formulary, Non-Formulary, Preferred, Restricted. To find out more about the Formulary Status product contact your Client Service Manager or Truven Health Customer Support (see <u>"Contact Truven Health Analytics" on page i</u>).



 Drug information from the Food and Drug Administration (FDA), Health Canada and European Medicines Agency (EMA), if available. Click an item from the **Regulatory Authority** drop-down list to view drug information from a specific regulatory authority.

Note: If drug information is available from only one source, the Regulatory Authority drop-down list is disabled.



A flag identifying the selected regulatory authority displays next to the Regulatory Authority drop-down list and on the middle panel of the Quick Answers and In-Depth Answers tabs. The flag also displays above the back-to-top icon that allows you to return to the top of the document. See <u>Chapter 4: Regulatory Authority Information on</u> <u>page 86</u> for more information.

Quick Answers Tab

The *Quick Answers* tab is the default display for the landing page. It consists of three panels, which are all displayed by default. The middle panel contains the text of the summary monograph. Depending on the search term this may be a monograph for Summary Drug Information, Summary Disease Information, Summary Toxicology Information, or Summary Alt Med Info. Click the **In-Depth Answers** link, if available, to view the same section in the detailed monograph on the *In-Depth Answers* tab.

The left panel contains links for navigating the sections of the summary monograph.

The right panel contains links to:

- Related information in other subscribed databases, such as: Alternative Medicine, Disease, Drug, Toxicology, Patient Handouts, PDR, Index Nominum, Drug Consults, Martindale, Consumer Drug Info, P&T QUIK, IT-Dialogo sui Farmaci, eMC SmPC (UK)
- Product lookup tools Clicking the Tox & Drug, Martindale or RED BOOK Online links result in searches in the associated tool or application using the drug used in the

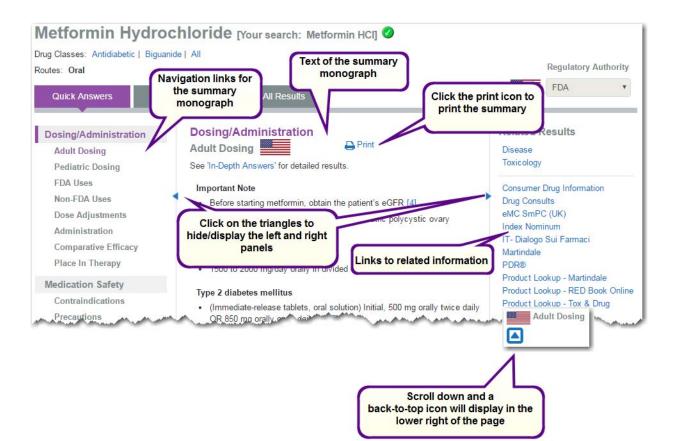


initial search. See <u>Chapter 14: Tox & Drug Product Lookup Tool</u> or <u>Chapter 4: Drug</u> <u>Information on page 59</u> or <u>Chapter 16: RED BOOK Online on page 191</u> for additional information.

Click the **Print** icon (Print) to print the summary monograph. For more details on printing see <u>"Printing" on page 57.</u>

You can hide/display the left and right panels to maximize the viewing area by clicking the blue

triangles (). If you hide or display a panel while viewing the *Quick Answers* tab, the action will also apply to the *In-Depth Answers* tab.



For more details on the links under Related Results in the right panel see the following chapters:

- <u>Chapter 4: Drug Information on page 59</u>
- Chapter 5: Disease Information on page 93
- <u>Chapter 6: Toxicology Information on page 107</u>
- Chapter 7: Alternative Medicine Information on page 117

In-Depth Answers Tab

Click the **In-Depth Answers** tab to view the detailed monograph. Depending on the search term this may be a monograph for Detailed Drug Information, Disease Emergency or General Medicine, Detailed Toxicology Information, or In-Depth Alt Med Info. As with the *Quick Answers* tab the *In-Depth Answers* tab consists of three panels, which are all displayed by default. The middle panel contains the text of the detailed monograph. Click the **Quick Answers** link, if available, to view the same section in the summary monograph on the *Quick Answers* tab.

The left panel contains links for navigating the sections of the detailed monograph.

The right panel contains links to:

 Related information in other subscribed databases, such as: Alternative Medicine, Disease, Drug, Toxicology, Patient Handouts, PDR, Index Nominum, Drug Consults, Martindale, Consumer Drug Info, P&T QUIK, IT-Dialogo sui Farmaci, eMC SmPC (UK)

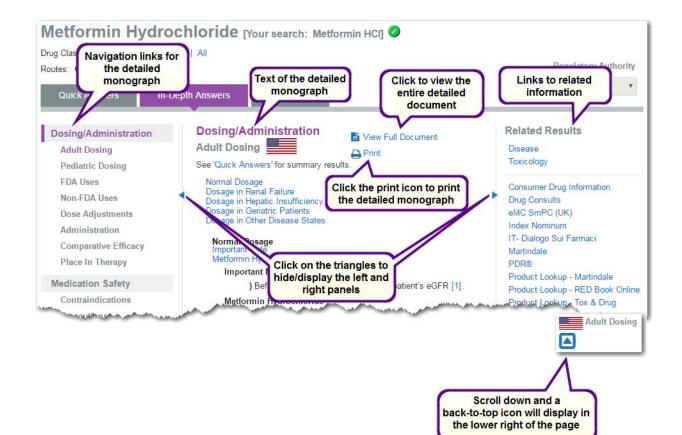


 Product lookup tools - Clicking the Tox & Drug, Martindale or RED BOOK Online links result in searches in the associated tool or application using the drug used in the initial search. See <u>Chapter 14: Tox & Drug Product Lookup Tool</u> or <u>Chapter 4: Drug</u> <u>Information on page 59</u> or <u>Chapter 16: RED BOOK Online on page 191</u> for additional information.

Click **View Full Document** to view the entire detailed monograph. Click **View Document Sections** to return to the panel view.

Click the **Print** icon (Print) to print the detailed monograph. For more details on printing see <u>"Printing" on page 57.</u> This is available when viewing the document sections or the full document.

You can hide/display the left and right panels to maximize the viewing area by clicking the **blue triangles** (

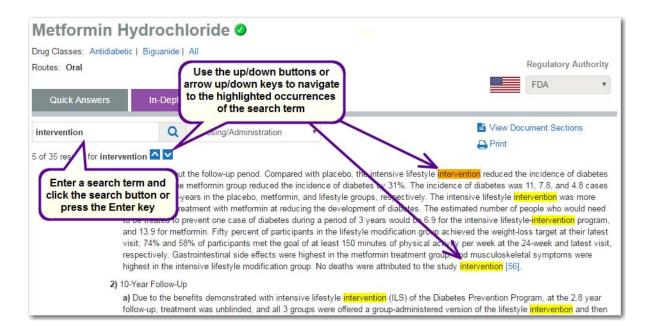


For more details on the links under Related Results in the right panel see the following chapters:

- <u>Chapter 4: Drug Information on page 59</u>
- Chapter 5: Disease Information on page 93
- Chapter 6: Toxicology Information on page 107
- Chapter 7: Alternative Medicine Information on page 117

Searching Within a Document

When viewing the full detailed monograph you can search within the document. Simply enter a word or phrase in the search box located below the landing page tabs and click the **search button** or press the **Enter** key. The first occurrence of your search term is highlighted in orange, and subsequent occurrences are highlighted in yellow. Use the **up/down** buttons or the **arrow up/down** keys to move from one highlighted occurrence to another.

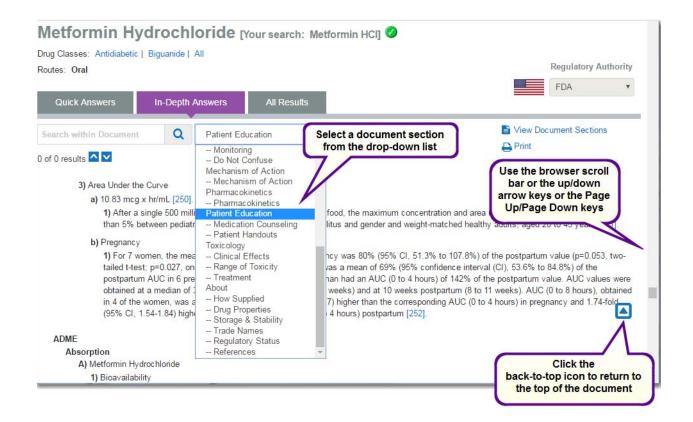




Navigating the Full Document

When viewing the full detailed monograph you have the following options for moving within the document:

- Arrow Up/Down keys
- Page Up/Page Down keys
- Browser scroll bar
- Drop-down box under the landing page tabs Select a document section from this list to go directly to that section.
- Click the back-to-top icon to return to the top of the document.



All Results Tab

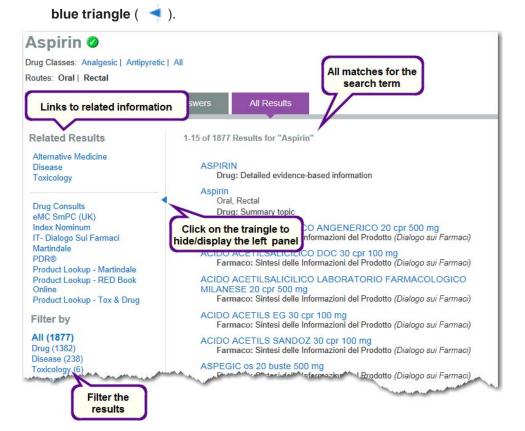
Click the **All Results** tab to view all results associated with your search term. The *All Results* tab consists of two panels, which are both displayed by default. The left panel contains links to:

- Related information in other subscribed databases, such as: Alternative Medicine, Disease, Drug, Toxicology, Patient Handouts, PDR, Index Nominum, Drug Consults, Martindale, Consumer Drug Info, P&T QUIK, IT-Dialogo sui Farmaci, eMC SmPC (UK)
- Product lookup tools Clicking the Tox & Drug, Martindale or RED BOOK Online links result in searches in the associated tool or application using the drug used in the initial search. See <u>Chapter 14: Tox & Drug Product Lookup Tool</u> or <u>Chapter 4: Drug</u> <u>Information on page 59</u> or <u>Chapter 16: RED BOOK Online on page 191</u> for additional information.
- Filters for limiting the results by: Drug, Disease, Toxicology, Alternative Medicine, Lab, Reproductive Risk

The right panel displays all matches found for the search term and is organized exactly like the Intermediate Search Results page. (See <u>"Intermediate Search Results" on page 54</u> for more details.) Matches are ranked by relevance, and each result is organized as follows:

- Title, which links to the associated landing page or document
- Route (if applicable)
- The type of information (drug, disease, lab, etc.), the type of document (detailed, summary, etc.)

You can hide/display the left panel to maximize the viewing area by clicking the





Multiple Landing Pages

When multiple landing pages exist for a search term (drug, disease, toxicology, alternative medicine), the landing page that is displayed by default is determined by a landing page hierarchy. For details see <u>Appendix E: Landing Page Hierarchy on page 279</u>.

Landing Page Examples

The following landing page search examples are provided:

- <u>"Example 1 Landing Page for a Drug" on page 25</u>
- "Example 2 Landing Page for a Disease" on page 26
- <u>"Example 3 Landing Page for Toxicology" on page 27</u>
- <u>"Example 4 Landing Page for Alternative Medicine" on page 28</u>

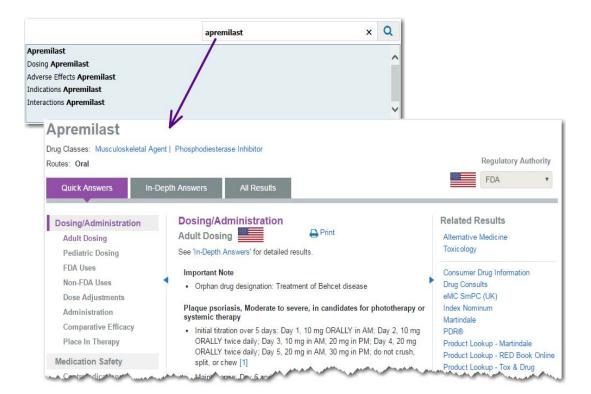
Example 1 - Landing Page for a Drug

- 1. Start by typing the drug name "apremilast." The drop-down list makes suggestions.
- 2. Click "Apremilast" in the drop-down list.

-OR-

Use the arrow up/down keys to select "Apremilast." Then click the Search button

- (Q) or press the Enter key.
- 3. The Apremilast drug landing page displays.



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Example 2 - Landing Page for a Disease

- 1. Start by typing the disease "avian bird flu." The drop-down list makes suggestions.
- 2. Click "Avian bird flu" in the drop-down list.
 - -OR-

Use the arrow up/down keys to select "Avian bird flu." Then click the Search button

- (**Q**) or press the **Enter** key.
- 3. The Avian influenza disease landing page displays.

avi	a	Q	
Drug Avia	n bird flu Is that traat Avia n bird fl In canker In flu	lu	
Dru Avi	Avian influenz	In-Depth Answers All Results	
	Definition Medical History Findings Differential Diagnosis	Definition Print See 'In-Depth Answers' for detailed results. Human infection with avian influenza A viruses [1][2]	Related Results Disease Drug Disease Other Titles Studies
	Testing Treatment Drug Therapy Procedural Therapy Reference		



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Example 3 - Landing Page for Toxicology

- 1. Start by typing "zir." The drop-down list makes suggestions.
- 2. Click "Zirconium" in the drop-down list.
 - -OR-

Use the arrow up/down keys to select "Zirconium." Then click the Search button

(**Q**) or press the **Enter** key.

3. The Zirconium toxicology landing page displays.

		My Si zir	ubscription Gateway Help	Download Center	Logout Q		
Ziram Zirconium Zirconium Oxide Zirgan ZIRTEC					~		
Zirtek Aluminum Zirconium Aluminum Zirconium Sodium Zirconium Cyc	Quick Answers	n-Deptr	All Res	sults			
	Overview Life Support Clinical Effects Laboratory/ Monitoring Treatment Overview Range Of Toxicity		Overview Life Support See 'In-Depth Answers' fo A) This overview assum instituted.	or detailed results.	Print	asures have been	Related Results Disease Toxicology Hazard Management Information Martindale Medical Management Information Product Lookup - Martindale Product Lookup - Tox & Drug

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Example 4 - Landing Page for Alternative Medicine

- 1. Start by typing "echi." The drop-down list makes suggestions.
- 2. Click "Echinacea" in the drop-down list.
 - -OR-

Use the **arrow up/down** keys to select "Echinacea." Then click the **Search** button (**Q**) or press the **Enter** key to begin the search.

3. The Echinacea alternative medicine landing page displays.

Echinacea	↓ I	Q			
Echinace Extra Streng	gth				
Echinacea					
Dosing Echi nacea					
Adverse Effects Echi	Echinacea				
Indications Echinace					
Interactions Echinac	Quick Answers In	n-Depth Answers	All Results		
Echinacea angustifol	Name Info	Name Info			Related Results
FOUTINGEN ANGUE	Class	Class	🔒 Print		Drug Toxicology
	Dosing & Indications	 immunostim 	nulant		
	Adult Dosing Indications	•			Herbal Medicines Interactions Handouts Martindale
	Contraindications/ Warnings				Patient Handouts Product Lookup - Martindale
	Contraindications				Product Lookup - Tox & Drug
	Pregnancy Category				
	Lactation				
	Drucha	and the second second second	And the second	Ludy	and the second s



Direct Access Searching

Direct Access searching suggestions are intended to provide you with shortcuts to important and frequently used drug information. Simply type a generic drug name or disease/condition in the *Search Micromedex* search box, and you are immediately presented with additional suggestions. When selecting a direct access topic, you are routed directly to information on the topic of interest, bypassing some navigation and search results selection steps.

For example, searching on "dosing amlodipine" results in the Amlodipine Detailed Drug Information document opened to the Dosing Information topic.

Search Examples

The following Direct Access Searching examples are presented:

- <u>"Example 1 Adverse Effects of a Drug" on page 30.</u>
- <u>"Example 2 Drugs That Cause" on page 31</u>.
- "Example 3 Drugs That Treat" on page 34.

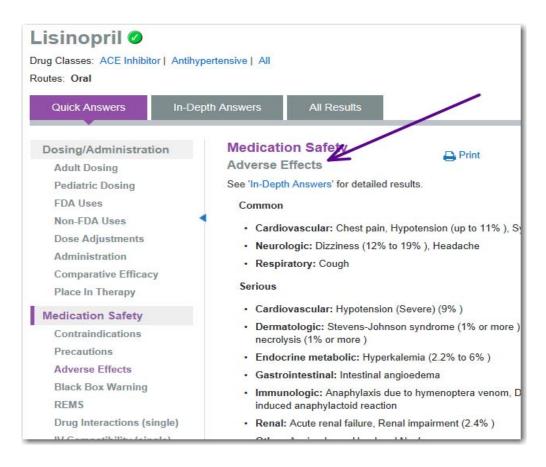
Example 1 - Adverse Effects of a Drug

Search for adverse effects of a generic drug.

1. Begin typing "lisinopril." The drop-down list provides suggestions.

Click or use the arrow up/down keys to select	lisino Q
Adverse Effects	Lisinopril
Lisinopril	Dosing Lisino pril
	Adverse Effects Lisinopril
	Indications Lisinopril
	Interactions Lisinopril
-	LISINOPRIL ACTAVIS
at	LISINOPRIL ALTER
u u	

- Click on "Adverse Effects Lisinopril," or use the arrow up/down keys to select it and then click the Search button (
 or press the Enter key.
- 3. You are taken directly to the Adverse Effects section on the Quick Answers tab on the landing page for Lisinopril.





Example 2 - Drugs That Cause

Search for drugs that cause a particular adverse effect or condition, and the results are grouped alphabetically.

Type a phrase using the noun "drugs", "medications", or "substances" with the words "that cause" and the adverse effect or condition. Example searches:

- Drugs that cause skin rash
- Medications that cause insomnia
- Substances that cause edema

- OR -

Type an adverse effect or condition and select the phrase "Drugs that cause..." from the dropdown list.

1. Begin typing "syncope." The drop-down list makes suggestions.

Syncope	
Drugs that treat Syncope	-
Drugs that cause Synco pe	

 Click on "Drugs that cause Syncope," or use the arrow up/down keys to select it and then click the Search button () or press the Enter key.

MICROMEDEX® SOLUTIONS USER GUIDE

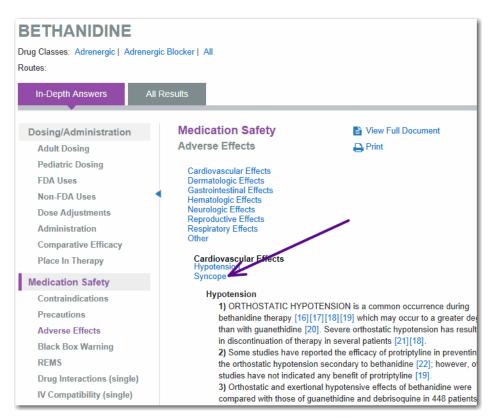
3. Search results are displayed on a *Drugs That Cause xxx* page where xxx is the adverse effect or condition.

Drugs That Cause Syncope
JumpTo: A B C D E F G H I J K L M N O P Q R S T U
Displaying 24 of 339 results for "Drugs That Cause Syncope"
ACAMPROSATE
ALFUZOSIN
Alfuzosin Hydrochloride
ALISKIREN/AMLODIPINE
ALPROSTADIL
AMIFOSTINE
Amiloride Hydrochloride/Hydrochlorothiazide
AMILORIDE HYDROCHLORIDE/HYDROCHLOROTHIAZIDE

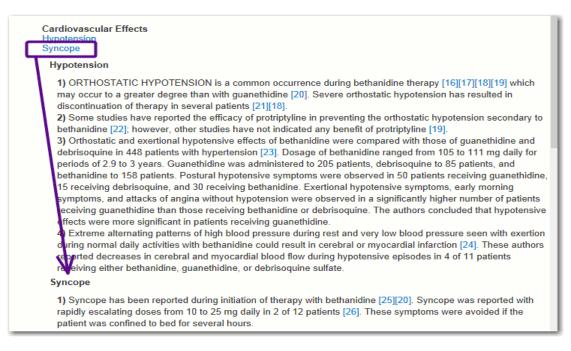
- 4. If the drug you are looking for begins with a letter occurring later in the alphabet, click on the **Jump To:** letter link, shown at the top of the list.
- 5. Click on a title to go to the Adverse Effects (Summary Drug Information) or Adverse Reactions (Detailed Drug Information) information on the drug landing page.

Note: If the drug name is displayed in the list using mixed case letters, clicking on it will display the Summary Drug Information document. If the drug name is displayed using all uppercase letters, clicking on it will display the Detailed Drug Information monograph.





6. Click on the link for the adverse effect or condition that was searched in Step 1 to view additional information.



Example 3 - Drugs That Treat

Search for drugs that treat a particular condition on disease, and the results are grouped alphabetically within an efficacy rating.

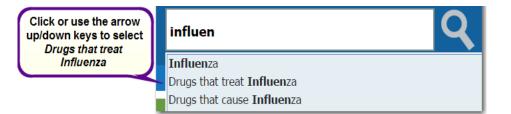
Type a phrase using the noun "drugs", "medications", or "substances" with the words "that treat" and the condition or disease. Example searches:

- Drugs that treat skin rash
- Medications that treat insomnia
- Substances that treat edema

- OR -

Type a condition or disease and select the phrase "Drugs that treat..." from the drop-down.

1. In this example begin typing "influenza." The drop-down list makes suggestions.



- 2. Click on "Drugs that treat Influenza," or use the **arrow up/down** keys to select it and then click the **Search** button (**Q**) or press the **Enter** key.
- 3. Search results are displayed on a *Drugs That Treat xxx* page where xxx is the condition searched. Medications are grouped by efficacy: Effective, Evidence Favors Efficacy, Evidence is Inconclusive, Ineffective, and Not Rated.

Drugs That Treat Influenza
Display: Effective (10) Evidence Favors Efficacy (5) Evidence is Inconclusive (3) Ineffective (0) Not Rated (0)
Displaying 18 results for "Drugs That Treat Influenza"
Effective (10 results)
Evidence Favors Efficacy (5 results)
Evidence is Inconclusive (3 results)
Ineffective (0 results)
Not Rated (0 results)

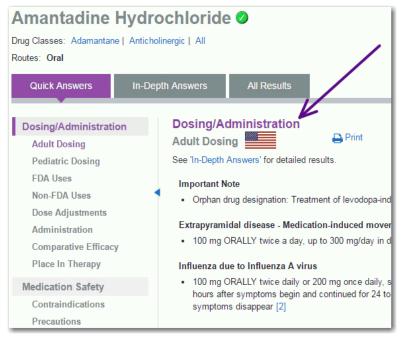


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4. View the drugs associated with a specific efficacy rating by clicking on the accordion bar (or the Efficacy heading link at the top of the page) to expand the list. The drug is shown as a link, with associated indications followed by the indicated age group.

Drugs That Treat Influenza							
isplay: Effective (10) Evidence Favors	Efficacy (5) Evidence is Inconclusive (3) Ineffective (0) Not Rated (0)						
isplaying 18 results for "Drugs That Trea	at Influenza"						
Effective (10 results)							
Drug Name	Indication	Age Group					
Amantadine Hydrochloride	Influenza due to Influenza A virus	Adult, Pediatric					
	Influenza due to Influenza A virus; Prophylaxis	Adult, Pediatric					
Haemophilus B Conjugate and Hepatitis B Vaccine	Haemophilus influenza B and hepatitis B vaccination	Pediatric					
Influenza Virus Vaccine (Subvirion)	Influenza; Prophylaxis	Adult, Pediatric					
Oseltamivir Phosphate	Influenza, Virus types A and B	Adult, Pediatric					
	Influenza, Virus types A and B; Prophylaxis	Adult, Pediatric					
Rimantadine Hydrochloride	Influenza due to Influenza A virus	Adult					
	Influenza due to Influenza A virus; Prophylaxis	Adult, Pediatric					
Zanamivir	Influenza, Virus types A and B	Adult, Pediatric					
	Influenza, Viruses Types A and B; Prophylaxis	Adult, Pediatric					

5. Click on a drug name to go the Dosing/Administration section on the Quick Answers tab on the drug landing page.



Additional Direct Access Search Techniques and Examples

Examples of other searches that can be performed using the direct access searching technique include:

- dosing (Example: dosing of Ampicillin)
- indications (Example: indications Dabigatran Etexilate)
- interactions (Example: interactions Metformin)
- FDA approved (Example: FDA approved simvastatin)
- non-FDA approved (Example: non FDA approved hydrochlorothiazide)



Brand Name Drugs

Micromedex allows you to search for drug information using either the common generic or the brand name as the search term.

Note: Brand names available in the United States or Canada are required, except for subscribers to Italian Drug Database (Dialogo sui Farmaci) or United Kingdom Drug Information (eMC SmPC), where local drug names are acceptable for use as a search term. See <u>"International Drug Searching" on page 56</u>.

Searching on a brand name drug that has only one generic drug counterpart will result in the landing page for the generic drug being displayed (e.g., "Imbruvica"). See <u>"Landing Pages" on page 16</u> for more information.

Searching on a brand name drug that has multiple generic drug counterparts or is comprised of many different formulations and/or routes will result in a list of the corresponding generic drugs being displayed on a *Brand Name Results* page.

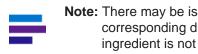
This example shows typical Brand Name Results when searching on a brand name (e.g., "Tylenol"). The page displays the brand names in alphabetical order. The ingredients that comprise the drug are shown to the right of the brand name and displayed as hypertext links. Tylenol has many variations of the brand name (such as: Children's Tylenol, Tylenol Cold Severe Congestion, Tylenol with Codeine, etc.) as well as a multitude of formulations of ingredients (such as: Acetaminophen, or Acetaminophen | Dextromethorphan Hydrobromide | Guaifenesin | Pseudoephedrine Hydrochloride, or Acetaminophen | Codeine Phosphate, etc.).

Brand Name Results		🖶 Print
Display: All (142) United States (47) Global (95)	
· -	KLMNOPQRSTUVWXYZ0-9 t looking for a brand name drug? Click here to expand your search to free-text results.	Tox & Drug: tylenol Martindale: tylenol RED BOOK Online: tylenol
Children's Tylenol (US)	ACETAMINOPHEN	
Children's Tylenol (Global)	PARACETAMOL Ingredients in the brand name	
Children's Tylenol Cold Plus Cough (Global)	CHLORPHENAMINE MALEATE DEXTROMETHORPHAN HYDROBROMIDE PARACETAN PSEUDOEPHEDRINE HYDROCHLORIDE	IOL
Children's Tylenol Meltaways (US)	ACETAMINOPHEN	
Children's Tylenol Plus Cold (US)	ACETAMINOPHEN CHLORPHENIRAMINE MALEATE PHENYLEPHRINE HYDROCHLORI	DE

Drug information in Micromedex exists at the generic and ingredient level (not for the brand name), so to view information, click the appropriate ingredient link to view the drug information.

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Links that open the Tox & Drug, Martindale, or RED BOOK product lookup results are available to subscribers from the top right corner of the page.



Note: There may be isolated cases where an ingredient does not have a corresponding drug information document available. When this occurs, the ingredient is not shown as a hypertext link.

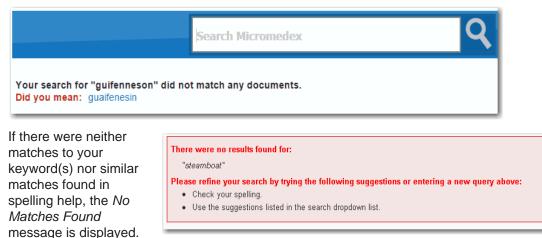
To move to a different location in the alphabetical list of brand name results, click on the letter link in the Jump To: menu, shown at the top of the Brand Name Results page.

Intelligent Searching

The Micromedex intelligent searching provides in-line spelling suggestions in real time while you are conducting your search. It anticipates what you need, even with a misspelling. If you type a term (greater than three characters) and it does not match a term in Micromedex Solutions, the drop-down list may offer alternatives. Click on a term in the drop-down list to begin the search.



In addition, if you enter and perform a search that does not produce any results, the application may make suggestions if the search term you typed is close or similar to a drug name. The search term is shown, along with the message that no matches were found. Suggested terms are listed as links.

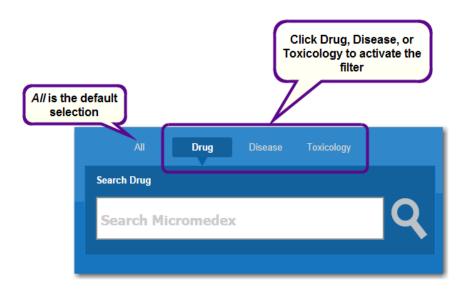


Check your spelling and try again, or modify your keyword(s) to a more common search term and try again.



Filtered Searching

By default you can quickly perform one search to get all the relevant results for the content to which you subscribe, or when on the Home Page you can specify a filter option to search specifically within the drug, disease, or toxicology content, which will provide you with more targeted results.



Selecting the Drug filter returns results from the following content sets only:

- DRUGDEX® Detailed Drug Information
- DRUGDEX Drug Consults
- Summary Drug Information
- Martindale
- Index Nominum
- PDR
- P&T Quik
- Consumer Drug Information
- International drug databases (IT-Dialogo sui Farmaci and eMC SmPC (UK))



Disease General Medicine

Selecting the Disease filter returns results from the following content sets only:

Summary Disease Information

Disease Emergency Medicine

Emergency Medical Abstracts

Using brand names in a filtered search of the disease content will generally result in fewer results. For example, if the Disease filter is selected, a search for "acetaminophen treatment of choice for fever" will return more results than a search for "tylenol treatment of choice for fever."

Selecting the Toxicology filter returns results from the following content sets only:

- Summary Toxicology Information
- POISINDEX® Managements
- MSDS

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- HAZARDTEXT® Hazard Managements
- MEDITEXT® Medical Managements

Toxicology content generally refers to generic drug names. Using brand names in a filtered search of this content will generally result in fewer results. For example, if the Toxicology filter is selected, a search for "overdose of diphenhydramine" will return more results than a search for "overdose of benadryl."

Note: The filter is only applied when searching from the Home Page. When you use the *Search Micromedex* search box located in the upper right of all pages except the Home Page it is the same as searching with the *All* filter selected on the Home Page.



All	Drug	Disease	Toxicology	
Search Toxicology				



Targeted Searches

Several tightly-focused, targeted searches are available for clinicians to quickly gain access to the following highly sought after information:

- List of drugs with a Black Box Warning See <u>"Black Box Warning List" on page 42</u>.
- List of DRUGDEX® Drug Consults with comparative tables See <u>"Comparative Tables" on page 43</u>.
- List of drugs that sound alike/look alike See "Do Not Confuse Drug List" on page 44.
- Drug Classes See <u>"Drug Classes" on page 46</u>.
- List of DRUGDEX Drug Consults See "Drug Consults" on page 49.
- REMS List of drugs that have FDA-approved Risk Evaluation and Mitigation Strategies - See <u>"REMS: List of Drugs With a Risk Evaluation and Mitigation Strategy"</u> on page 50.

Black Box Warning List

Black box warnings are warnings that appear on package inserts for prescription drugs that may cause serious adverse effects. The text of the warning is normally printed within a solid black border to call attention to it; thus the name "black box warning."

A drug with a black box warning means that studies have shown that the drug carries a significant risk of serious or even life-threatening adverse effects. It is the strongest warning that the Food & Drug Administration (FDA) requires.

Easy access to this list is helpful for medication safety officers and drug use policy coordinators to ensure awareness of special safety issues and develop programs to ensure safe use.

This search can be performed with just one click by using the Targeted Searches shortcuts under *Resources* on the Home Page. See <u>"Resources (Targeted Searches)" on page 7</u>. An alphabetical list of all the drugs in Micromedex that have a black box warning is provided.

This search can also be performed with the following steps:

- 1. Type "BBW", or begin typing "black box warning" into the Search Micromedex search box. Even just typing the first three characters ("bla") will bring the black box warning into the drop-down suggestion list.
- 2. Click "black box warning" or "black box warnings" or "BBW" in the drop-down list.

-0R-

Use the **arrow up/down** keys to select "black box warning" or "black box warnings" or "BBW." Then click the **Search** button (**Q**) or press the **Enter** key.

The list of drugs with black box warnings is provided in alphabetical order as hypertext links.

Black B	ох	W	ar	ni	ng	js															
Jump To: A	в с	D	Е	F	G	н	I.	J	к	L	М	Ν	0	Ρ	Q	R	s	т	U	v	W
Displaying 67 of	831 r	esult	s for	"Bla	ck B	lox V	Varr	ings	8												
ABACAVIR																					
Abacavir Sulfate																					
ABACAVIR SUL	FATE	/LAN	livui	DINE	Ξ																
ABACAVIR SUL	FATE	/LAN	IIVUI	DINE	E/ZII	oov	UDI	NE													
ABACAVIR/DOL	UTE	GRAN	/IR/L	AMI	VUE	DINE															
ABARELIX																					
ABOBOTULINU	мто	KINA																			

Note: If you print this list, the entire list of drugs with black box warnings will be printed - not just the ones currently displayed.



Comparative Tables

An alphabetical list of all of the DRUGDEX® Drug Consult articles with a comparative table can be accessed with just one click by using the Targeted Searches shortcuts under *Resources* on the Home Page. See <u>"Resources (Targeted Searches)" on page 7</u>. These valuable and commonly requested resources are presented by dosage and class. This can be very helpful for clinicians who need to make treatment changes for patients.

This search can also be performed with the following steps:

- 1. Begin typing "comparative" or "tables" or "comparison" in the *Search Micromedex* search box. The drop-down list makes suggestions.
- 2. Click "comparative table" or "comparative tables" or "comparison tables" in the dropdown list.

-OR-

Use the **arrow up/down** keys to select "comparative table" or "comparative tables" or "comparison tables." Then click the **Search** button () or press the **Enter** key.

tables
Comparative Tables comparison tables
Dosage Class
▶ BENZODIAZEPINES (SELECTED)
CORTICOSTEROIDS PROPERTIES AND POTENCIES
► HISTAMINE H2 RECEPTOR ANTAGONISTS
▶ NSAID (NONSTEROIDAL ANTIINFLAMMATORY AGENTS (SELECTED)
PROTON PUMP INHIBITORS

- 3. The list of Drug Consults with a comparative table is shown in alphabetical order.
- 4. Click on a title to open the associated Drug Consults document.

Do Not Confuse Drug List

The National Patient Safety Goal, established by the Joint Commission, requires each accredited organization to identify a list of look-alike or sound-alike drugs used in the organization.

An alphabetical list of confused drug names, including look-alike and sound-alike name pairs can be accessed with just one click by using the Targeted Searches shortcuts under *Resources* on the Home Page. See <u>"Resources (Targeted Searches)" on page 7</u>. The list consists of name pairs that have been involved in medication errors. The list also contains the names that appear on the Joint Commission's list of look-alike and sound-alike names.

This search can also be performed with the following steps:

- Begin typing any of the following search terms in the search box: "Do Not Confuse", "Confused Drug Names", "Look alike sound alike", "Do Not Confuse List", "Look alike/ sound alike". The drop-down list makes suggestions.
- 2. Click "Confused Drug Names" or "Do Not Confuse" or "Do Not Confuse List" or "Look alike sound alike" in the drop-down list.

-OR-

Use the **arrow up/down** keys to select "Confused Drug Names" or "Do Not Confuse" or "Do Not Confuse List" or "Look alike sound alike." Then click the **Search** button

(**Q**) or press the **Enter** key.

confused d	Q
Confused Drug Names	



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3. The *Do Not Confuse* results are provided. Drug name pairs that are often confused are listed on the same line, in alphabetical order. Tall man lettering is used to further aid in discerning between common look-alike drugs.

Do Not Confuse Drug List	
umpTo: <mark>А</mark> ВСDЕFGHIJKL	M N O P Q R S T U V
isplaying 74 of 925 results for "Do Not Confuse Drug List"	
Drug Name	May be confused with
Abelcet (Amphotericin B Lipid Complex)	amphotericin B (Amphotericin B)
Accupril (Quinapril Hydrochloride)	Aciphex (Rabeprazole Sodium)
acetaZOLAMIDE (Acetazolamide)	acetoHEXAMIDE
Acetic Acid for Irrigation (Acetic Acid)	Glacial Acetic Acid (Acetic Acid)
acetoHEXAMIDE	acetaZOLAMIDE (Acetazolamide)
Aciphex (Rabeprazole Sodium)	Accupril (Quinapril Hydrochloride)



- 4. Click any link to open the associated drug landing page.
- 5. To move to a title beginning with a letter from later in the alphabet, use the **Jump To** menu. Click on the letter (or number) link to position the page to the first document that begins with the selected letter.

Note: If you print this list, the entire list of Do Not Confuse drugs will be printed - not just the ones currently displayed.

Drug Classes

With just one click of the Drug Classes shortcut under *Resources* on the Home Page you can access an alphabetical list of the drug classes contained in Micromedex Solutions. You can then browse a list of therapeutic, chemical, and pharmacological classes. This can be very valuable for clinicians when it comes to determining alternative therapy options for a patient. See <u>"Resources (Targeted Searches)" on page 7</u>.

This search can also be performed with the following steps:

- 1. Begin typing "drug class" or "drug classes" or "drug classification" in the *Search Micromedex* search box. The drop-down list makes suggestions.
- Click "drug class" or "drug classes" or "drug classification" in the drop-down list.
 -OR-

Use the **arrow up/down** keys to select "drug class" or "drug classes" or "drug classification." Then click the **Search** button () or press the **Enter** key.

		My Subscription	Gateway	Help	Download Center	Logout
		drug c			×	Q
Drug Home Interactions	drug class drug classes					^
	drug classification drug consult					
Drug Classes	drug consults ADC - Antibody Drug Conjugate					
Jump To: A B C D E	Antiarrhythmic drug c hallenge test Antibody Drug C onjugate					
Displaying 174 of 734 results for	Antibody Drug C onjugates Gastrointestinal drug challenge					× .

- 3. The list of drug classes is provided in alphabetical order.
- 4. Click a drug class to display the drugs in the class or use the **Jump To:** links to quickly move to a different position in the list of drug classes.



5. Click a drug to display the associated drug information.

Drug Class - ACE Inhibitor
Jump To: 🗚 BCDEFGHIJKLMNOPQRS
Displaying 32 of 32 results for drugs in the ACE Inhibitor class
ALACEPRIL
Amlodipine/Benazepril
BENAZEPRIL
Benazepril Hydrochloride
Benazepril/Hydrochlorothiazide
Captopril

Note: If the drug name is displayed in the list using mixed case letters, clicking on it will display the Summary Drug Information document. If the drug name is displayed using all uppercase letters, clicking on it will display the Detailed Drug Information monograph.



Note: If you print the drug classes list, the entire list will be printed - not just the drug classes currently displayed.

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In addition, you can perform a search by a drug class name.

	My Subscription Gateway Help Download Center Logout			
	immunological a X Q			
Immunological Agent Immunological Agents	C			
	Drug Class - Immunological Agents			
	Jump To: 🗚 BCDEFGHIJKLMNOPQRSTU			
	Displaying 193 of 193 results for drugs in the Immunological Agents class			
	Abatacept			
	ABETIMUS			
	Adenovirus Type 4 and Type 7 Vaccine, Live			
Alefacept				
	Alemtuzumab			
	Anakinra			
	ANTHRAX VACCINE			
	Anthrax Vaccine Adsorbed			
	Antithymocyte Globulin Equine			



Drug Consults

DRUGDEX® Drug Consults offer fully referenced, evidence-based articles that cover a wide range of topics on drug therapies and treatment guidelines. An alphabetical list of all the Drug Consults articles available in Micromedex® Solutions can be accessed with just one click by using the Targeted Searches shortcuts under *Resources* on the Home Page. See <u>"Resources (Targeted Searches)" on page 7</u>.

This search can also be performed with the following steps:

- 1. Begin typing "consults" or "drug consults" in the *Search Micromedex* search box. The drop-down list makes suggestions.
- 2. Click "drug consult" or "drug consults" in the drop-down list.

-OR-

Use the **arrow up/down** keys to select "drug consult" or "drug consults." Then click the **Search** button (**Q**) or press the **Enter** key.

	drug con		
Drug Consults Jump To: A B C D E F G H I J K L M N Displaying 45 of 455 "Drug Consults"	drug consult drug consults ADC - Antibody Drug Conjugate Antibody Drug Conjugate Antibody Drug Conjugates		
Abbreviations			
ABVD - USED FOR HODGKIN'S DISEASE			
AC - USED FOR BREAST CANCER			
AC - USED FOR MULTIPLE MYELOMA			
AC FOLLOWED BY T WITH TRASTUZUMAB - USED FOR BREAST CANCER			
ACE INHIBITOR-INDUCED ACUTE RENAL FAILURE			

- 3. The list of Drug Consults is provided in alphabetical order.
- 4. Click on a title to open the associated Drug Consults document.
- 5. To move to a title for a specific letter in the alphabet, use the **Jump To:** menu. Click on the letter (or number) link to position the page to the first document that begins with the selected letter.

Note: If you print this list, the entire list of Drug Consults will be printed - not just the ones currently displayed.

REMS: List of Drugs With a Risk Evaluation and Mitigation Strategy

For some FDA-approved drugs the manufacturer and/or the FDA have determined that a Risk Evaluation and Mitigation Strategy (REMS) is necessary to go beyond product labeling to manage risks and thereby ensure that the benefits outweigh the risks. A list of drugs with current REMS requirements can be obtained without leaving the Micromedex® Solutions workflow to perform a search of the FDA or a manufacturer information source. Just click the REMS shortcut under *Resources* on the Home Page. See <u>"Resources (Targeted Searches)" on page 7</u>.

This search can also be performed with the following steps:

- 1. Type "REMS" in the Search Micromedex search box.
- 2. Press the Enter key.

-OR-

Click "REMS" in the drop-down list.

-OR-

Use the **arrow up/down** keys to select "REMS." Then click the **Search** button (**Q**) or press the **Enter** key.

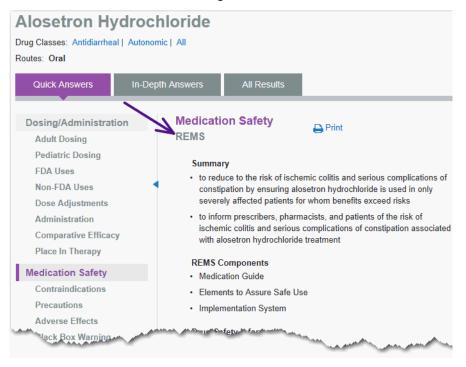
	My Subscription	Gateway	Help	Download Center	Logout
	rems			×	Q
REMS					
REMS Drugs					^
REMS List					
REMS Medications					
REMS Substances					
Approved REMS					
Drugs having REMS					
Drugs with REMS					
List of Approved REMS					~
List of REMS					

3. The list of drugs with REMS requirements is provided, in alphabetical order, as hypertext links.

REMS	
Jump To: A B C D E F G H I	J K L M N O P Q R S T U V W X Y Z 0-9
Displaying 4 of 72 results for "REMS"	
Albiglutide	Communication Plan
Alosetron Hydrochloride	Elements to Assure Safe Use, Implementation System, Medication Guide
Alvimopan	Communication Plan, Elements to Assure Safe Use, Implementation System
Ambrisentan	Elements to Assure Safe Use, Implementation System, Medication Guide



4. Click the drug name link to open the Quick Answers tab on the landing page positioned in the REMS section of the information. REMS components are listed, as well as links to the US Food and Drug Administration (FDA) Web site for the detailed REMS information available for the drug.



5. If the drug you are looking for begins with a letter occurring later in the alphabet, click on the **Jump To:** letter link, shown at the top of the list.

Note: If you print this list, the entire list of drugs with REMS requirements will be printed - not just the ones currently displayed.

Salt/Base Forms, Combinations, Kits

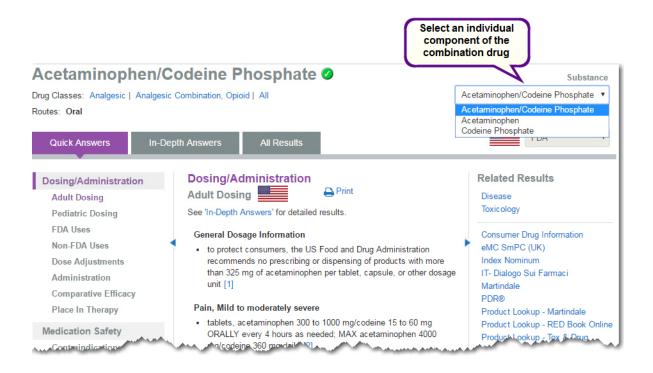
When searching on a base in a salt/base form, such as calcium, a Salt/Base Form Results page is displayed with links to allow you to choose the specific salt form. Clicking on a link displays the landing page for that substance. From the landing page there is a drop-down list from which you can also select all salt forms.

	Salt/Base Form Result	ts	
	Displaying 5 of 5 results for 'Calcium'		
Click a link to go to	Calcium		
the appropriate landing page	Calcium Acetate	Intravenous, Oral	
	Calcium Carbonate	Mucous Membrane, Oral, Sublingual, Topical	
	Calcium Chloride	Intravenous	Select one of the other salt/base forms
	Calcium Citrate Drug Classes: Antacid J Calcium Glucon/ Routes: Mucous Memb	Antacid, Calcium Containing All	Substance Calcium Carbonate
	Dosing/Administra Adult Dosing Pediatric Dosing FDA Uses Non-FDA Uses Dose Adjustments Administration Comparative Effic Place In Therapy Medication Safety	Adult Dosing Print See In-Depth Answers' for detailed results. Important Note • Orphan drug designation: Treatment of hyperphosphatemia in patients with end stage renal disease (ESRD) General Dosage Information • recommended dietary allowance (RDA) applies to elemental ca from all sources (e, dietary plus supplements) [2]	Related Results Alternative Medicine Disease Toxicology Drug Consults eMC SmPC (UK) Index Nominum IT- Dialogo Sui Farmaci Marindale PDR⊚



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When searching for a combination drug, such as acetaminophen/codeine phosphate, or a kit, such as nomegestrol acetate/estradiol, you are taken directly to the landing page. From the landing page there may be a drop-down list from which you can select individual components of the kit or combination.



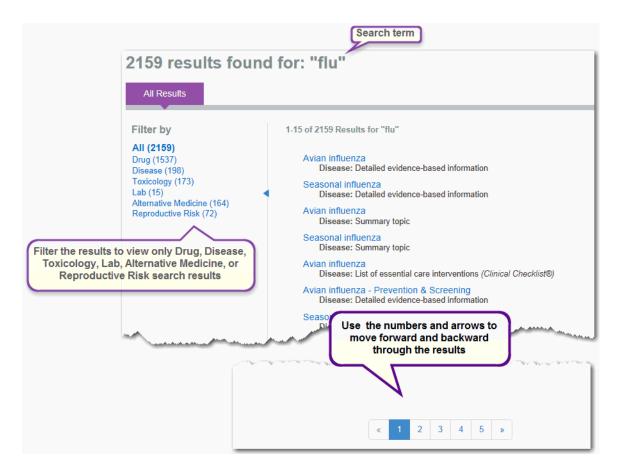
Intermediate Search Results

If your search does not employ one of the other search techniques explained in this chapter, an intermediate search results page will be displayed.

The following example shows the intermediate search results for a very broad search. A search on just the term "flu" finds numerous matches in multiple content sets throughout Micromedex. Since no other parameters (terms or phrases) were included in the search for "flu," it was not possible to focus the results on a specific type of flu. There were also no other terms in the search that could direct the results to a specific topic or area of information. Therefore, the application returns all possible matches on an intermediate search results page.

The total number of matches found for the search and the search term used are shown at the top of the page.

Search results are ranked by relevance. You can filter the results to only see results for a particular type of content by clicking a link on the left side of the page. Use the numbers at the bottom of the page to move forward and backward through multiple pages of results. The arrows allow you to jump five pages at a time.





The first line of each result contains the document title as a link, which goes to the associated landing page (see <u>"Landing Pages" on page 16</u>) or document.

The second line shows the content type (Drug, Disease, Toxicology, Lab, Alternative Medicine, Reproductive Risk), followed by one of the following identifiers:

- Summary topic indicates that the title link goes to the Quick Answers tab on the landing page
- Detailed evidence-based information indicates that the title link goes to the In-Depth Answers tab on the landing page
- Name of a specific database to which the title links

International Drug Searching

Subscribers to international drug databases such as: Italian, United Kingdom, etc. are able to search using local brand names. Search results are displayed on a *Brand Name Results* page, showing local brand name drugs and U.S. drugs with the same brand name.

The manufacturer name is included below the international brand name to assist in discerning between products with identical brand names.

The international brand name drug is displayed as a link and, when clicked, opens the corresponding international drug document.

Links are available on the ingredient(s) for US drugs. When clicked, the corresponding landing page is displayed.

	Brand Name Results	Display links allow you to view All results, or just the results for a specific country
	Display: All (15) United States (2) Global	(3) Italia (8) United Kingdom (2)
		IJKLMNOPQRSTU Ingredient(s) a brand name drug? Click here to
	Naprosyn (US)	NAPROXEN Links on US
	Naprosyn (Global)	NAPROXEN ingredients open the corresponding drug landing page
	Naprosyn (Global)	NAPROXEN OR NAPROXEN SODIUM
	Naprosyn (Global)	NAPROXEN SODIUM
Links on the	NAPROSYN 10 SUP 250 MG (IT) RECORDATI	NAPROXEN
international drug open the drug product document	NAPROSYN 10 SUP 500 MG (IT) RECORDATI	NAPROXEN
	Manufacturer	

Filter Results

Results for both the United States (US) and the subscribed country are shown combined and in alphabetic order on the *Brand Name Results* page. View only results for the subscribed country by clicking on the appropriate **Display** link. View only results for US brand name drugs by clicking on the **United States** link.



The option to print the page or document is available in Micromedex Solutions, whether you are viewing a landing page, a full document, intermediate search results or using a tool.

When you are viewing information presented using topics, or sections, you have the option of printing the entire document, or only selected topics.

- Click the Print icon (Print) to open the print options.
- The topic you are viewing is shown checked (selected). All topics are listed and can be included in the printed copy.

SELECT SECTIONS TO PRINT:	×
Check all Uncheck all	^
Dosing/Administration	
Adult Dosing	
Pediatric Dosing	
FDA Uses	
Non-FDA Uses	
Dose Adjustments	
Administration	
100.410.000 (100.000) (100	· •
All pop-up information	~
Close Print	

All pop-up information: Select this checkbox to include any supporting information, such as: Definitions for Strength of Evidence or Strength of Recommendations, Pregnancy Ratings, Risks, and Warnings.

- When you have selected the desired topics, click the **Print** button to see a preview of the printout. Flag icons identify the sections that contain information from a specific regulatory authority. For more information, see <u>"Regulatory Authority Information" on page 86</u>.
- A typical print dialog opens, allowing you to change print preferences. Click the **Print** button to print the selection.

Note: When printing an intermediate search results page or the All Results tab on the landing page only the results shown on the page are printed.

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CHAPTER 4: DRUG INFORMATION

The number of drugs available today is enormous, and the vast amount of information about these drugs can be overwhelming. Micromedex® Solutions can help you find current, accurate, and concise drug information you can use with confidence.

Reviewed by international experts, our evidence-based information covers FDA-approved prescription and nonprescription drugs, as well as a subset of Health Canada and European Medicines Agency (EMA) approved prescription drugs. Areas discussed include dosage, black box warnings, pharmacokinetics, cautions, interactions, patient education, adverse effects, comparative efficacy, and toxicology information.

We create a summary monograph and a detailed monograph for each topic. The Summary Drug Information monographs support quick decisions at the point of care, and DRUGDEX® Detailed Drug monographs support further research and aid clinicians when making difficult treatment decisions. Because one editorial group creates all the Micromedex content, treatment recommendations are consistent.

This chapter describes the types of drug information available in Micromedex Solutions. For information on how to search in Micromedex Solutions see <u>"Chapter 3: Searching Micromedex Solutions" on page 13</u>.

DRUG LANDING PAGES

For a detailed description on landing pages see <u>Chapter 3: Landing Pages on page 16</u>. The following drug-specific information is provided on drug landing pages:

- Available routes
- Links to drug classes associated with the drug. Click a link to see all the drugs in the class.
- Formulary status designated by an icon (Formulary Status customers only)

The Micromedex® Formulary Status product provides immediate access to formulary information throughout your facility. It guides prescribing clinicians toward formulary drugs, saving your pharmacists, nurses, and physicians time – and your facility money. Formulary Status is integrated with Micromedex® Solutions, so that a drug's designated formulary status displays on the drug landing page in the form of an icon. Examples of formulary status, which are maintained by your facility's formulary administrators and are customizable, include: Formulary, Non-Formulary, Preferred, Restricted. To find out more about the Formulary Status product contact your Client Service Manager or Truven Health Customer Support (see <u>"Contact Truven Health Analytics" on page i</u>).

MICROMEDEX® SOLUTIONS USER GUIDE



 Drug information from the Food and Drug Administration (FDA), Health Canada and European Medicines Agency (EMA), if available. Click an item from the **Regulatory Authority** drop-down list to view drug information from a specific regulatory authority.

Note: If drug information is available from only one source, the Regulatory Authority drop-down list is disabled.



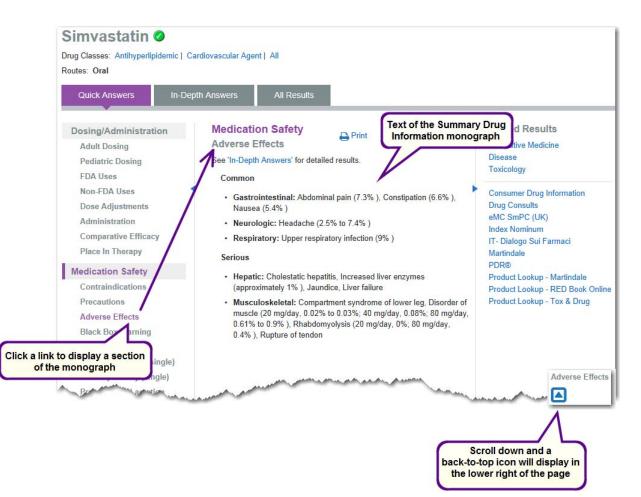
A flag identifying the selected regulatory authority displays next to the Regulatory Authority drop-down list and on the middle panel of the Quick Answers and In-Depth Answers tabs. The flag also displays above the back-to-top icon that allows you to return to the top of the document. For more information on the Regulatory Authority feature, see <u>"Chapter 4:</u> <u>Regulatory Authority Information" on page 86</u>.

SUMMARY DRUG INFORMATION

Summary Drug Information is succinct, actionable at the point-of-care, and designed to get you an answer very quickly. It is displayed on the middle panel of the *Quick Answers* tab on the landing page. The left panel contains links for navigating the sections of the summary monograph. Click on a link to display that section in the middle panel.

For example, a search for "simvastatin" results in the following landing page:





Clicking the links for the following sections in the left panel displays the information with a unique presentation, and they are explained in this chapter.

- <u>"Single Drug Interactions" on page 61</u>
- <u>"Single IV Compatibility" on page 66</u>
- <u>"Additional Information" on page 73</u>
- "Trade Names" on page 74
- <u>"Patient Education" on page 75</u>
- <u>"References" on page 78</u>

Single Drug Interactions

Clicking the **Drug Interactions (single)** link under Medication Safety in the left panel checks the currently viewed drug for the following types of interactions:

- drug
- food
- ethanol
- lab
- tobacco

- pregnancy
- lactation

Simvastatin 🥝 rug Classes: Antihyperlipide outes: Oral	mic Cardiovascular Age	ent All			
Quick Answers	In-Depth Answers	All Results			
Dosing/Administration Adult Dosing Pediatric Dosing FDA Uses	Drug Inte	ion Safety ractions (single) th Answers' for detailed r	results.	🔒 Pri	int
Non-FDA Uses Dose Adjustments Administration Comparative Efficacy Place In Therapy	Refine by	nultiple drug interaction y: Severity: All p: Drug-Drug (94) A IANCY (1) LACTATIO	Documentat Documentat LLERGY (0) FOC		LAB (0) TOBACCO (0)
Medication Safety	Drug	Drug Interaction	s (94)		
Contraindications Precautions	Drugs		10 - 1820 S M M II	Documentation:	Summary:
Adverse Effects Black Box Warning REMS Drug Interactions (singl IV Compatibility (single	[Syste SIMV, [Syste	CONAZOLE mic] ASTATIN mic]	Contraindicated	Excellent	Concurrent use of POSACONAZOLE and SIMVASTATIN may result in increased simvastatin plasma concentrations and increased risk of myopathy or rhabdrmvolvsis.

Drug interactions for the drug are grouped by interaction type. Interactions within each type are sorted by severity, displaying the most severe first. Use the **Jump To:** links at the top of the page to go to specific interaction type.



The original drug and the interacting agent are shown in the first column, followed by the severity and documentation ratings. The summary column displays brief, high-level interaction information.

When an interaction occurs within a class or group of drugs, the group or class displays as an active link adjacent the interaction. Click the link to expand the group or class.



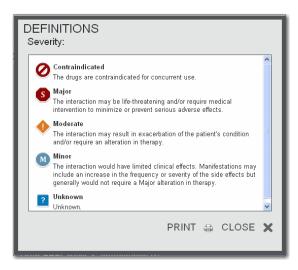
Drug-Drug Interactions (26)			
Drugs:	Severity:	Documentati	on: Summary:
DIGITALIS GLYCOSIDES THIAZIDE DIURETICS Bendroflumethiazide interact(s) with: • Interacting substances	S Major	Excellent	Concurrent use of DIGITALIS GLYCOSIDES and THIAZIDE DIURETICS may result in digitalis toxicity (nausea, vomiting, arrhythmias).
DOFETILIDE DIURETICS	S Major	Good	Concurrent use of DOFETILIDE and DIURETICS may result in an increased risk of cardiotoxicity (QT prolongation, torsades de pointes, cardiac arrest).

Complete Drug Interactions subscribers are able to view additional interaction information by clicking the link on the drug name to open interactions details. Additional information may include: clinical management, onset, probable mechanism, literature summaries, and references for this interaction.

Drug-Drug Interaction	s (88)		
Drugs:	Severity:	Documentation:	Summary:
POSACONAZOLE [Systemic] SIMVASTATIN [Systemic]	Contraindicated	Excellent	Concurrent use of POSACON/ and SIMVASTATIN may result increased simvastatin plasma concentrations and increased myopathy or rhabdomyolysis.
SIMVASTATIN [Systemic] ERYTHROMYCIN LACTON [Systemic]	NATE Contraindicated	Excellent	Concurrent use of ERYTHROI and SIMVASTATIN may result imyopathy or
ITRACONAZOLE [System SIMVASTATIN [Systemic]	Warning:		TIN may result statin exposur
	concentrations and increased risk of m Clinical Management: Concomitant use of posaconazole and approximately 10-fold increase in simw (Prod Info NOXAFIL® oral suspension therapy is necessary, suspend simvast tablets, 2012). Onset:	and SIMVASTATIN may result in increased yopathy or rhabdomyolysis. simvastatin is contraindicated as this has re astatin plasma concentrations, which may le , 2012; Prod Info ZOCOR® oral tablets, 20' atin during the course of treatment (Prod Inf	sulted in an ad to rhabdomyolysis 12). If posaconazole
	Not Specified Severity:		
	Contraindicated		
	Documentation: Excellent		•
L		PR	

Interaction Severities

Click on any of the Severity icons to open the full legend with the full definition of each severity.



You can also hover your mouse over the Severity legend at the bottom of the page.

- Contraindicated The drugs are contraindicated for concurrent use.
- Major The interaction may be life-threatening and/or require medical intervention to minimize or prevent serious adverse effects.
- *Moderate* The interaction may result in an exacerbation of the patient's condition and/or require an alteration in therapy.
- Minor The interaction would have limited clinical effects. Manifestations may include an increase in the frequency or severity of side effects but generally would not require a major alteration in therapy.
- Unknown Unknown.

Filter Severities

By default, all Severities are displayed. To filter results for selected severities, select the levels desired from the **Severity** drop-down menu at the top of the page. Check the boxes for the desired severities, then click the **Update** button.

Refine by: Severity:	All Documenta	Check the desired
Jump To: Drug-Dr	Check/uncheck to refine severity setting(s).	serverities and then
oumpror brug br	Check all Uncheck all	click Update
Drug-Drug Int	 Major Moderate 	
Drugs:	Minor	N
POSACONAZOLI SIMVASTATIN [S	Unknown Cancel Updat	e_ir

After refining the selections, the title of the drop-down changes from

'All' to '(#) Selected', and only the severities chosen display on the page.

Documentation Ratings

Click on any of the Documentation links to open the full legend with the definition of each documentation rating.

DEFINITI Documenta				
Excellent	Controlled studies have clearly established the existence of the interaction.			
Good	Documentation strongly suggests the interaction exists, but well-controlled studies are lacking.			
Fair	Available documentation is poor, but pharmacologic considerations lead clinicians to suspect the interaction exists; or, documentation is good for a pharmacologically similar drug.			
Unknown	Unknown.			
	PRINT 🔒 CLOSE 🗙			

You can also hover your mouse over the Documentation legend at the bottom of the page.

- Excellent Controlled studies have clearly established the existence of the interaction.
- Good Documentation strongly suggests the interactions exists, but well-controlled studies are lacking.
- *Fair* Available documentation is poor, but pharmacologic considerations lead clinicians to suspect the interaction exists; or, documentation is good for a pharmacologically similar drug.
- Unknown Unknown

Filter Documentation Ratings

By default, all Documentation Ratings are displayed. To filter results for selected ratings, select the levels desired from the **Documentation** drop-down menu at the top of the page. Check the boxes for the desired ratings, then click the **Update** button.

After refining the selections, the title of the drop-down changes from 'All'

Documentation:	All V	Check the desired ratings and then
PREGNANCY	Check/uncheck to refine documentatic setting(s). Check all Uncheck all	click Update
	Excellent	
	Good Good	14
	Eair	
Severity:	Unknown	ent i
🙆 Contrain	Cancel Upda	tent

to '(#) Selected', and only the documentation ratings chosen display on the page.

Multiple Drug Interactions

To access the Drug Interactions tool for checking multiple drugs for interactions click the **View multiple drug interactions** button at the top of the page. The Drug Interactions tool is displayed and your drug is automatically added to the *Drugs to check* list.

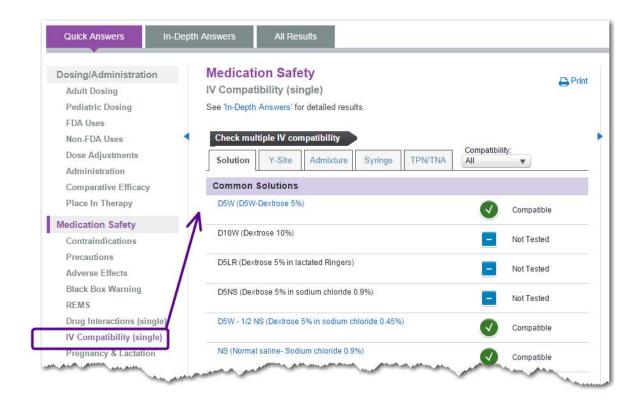
Quick Answers Ir	n-Depth Answers All Results	
osing/Administration Adult Dosing	Medication Safety Drug Interactions (single)	🖨 Print
Pediatric Dosing FDA Uses	See 'In-Depth Answers' for detailed results.	
Non-FDA Uses Dose Adjustments Administration	View multiple drug interactions Refine by: Severity: All Docum	entation: All
Comparative Efficacy Place In Therapy	Jump To: Drug-Drug (88) ALLERGY (0) F	OOD (2) ETHANOL (0)
Type the drug name (brand or	ONS generic) in the search teld. Select the drug and click the D	(Add) button.
Type the drug name (brand or Enter search term:	r generic) in the search field. Select the drug and click the p	
Type the drug name (brand or Enter search term: Matching drug names: (4363 A & D A & D Jr. A & D Ointment A Thru Zinc	r generic) in the search field. Select the drug and click the	(Add) button. Add Allergies
Type the drug name (brand or Enter search term: Matching drug names: (4363 A & D A & D Jr. A & D Ointment A & D Ointment A Thru Zinc A To Z A+D A+D First Aid Ointment A-200 Pyrinate	generic) in the search field. Select the drug and click the search field.	
Drug Interaction Type the drug name (brand or Enter search term: Matching drug names: (4363 A & D Jr. A & D Z & A +D A -20 Pyrinate A -42 Revised A -42 Revised	s generic) in the search field. Select the drug and click the 3) Trugs to check: Simvastatin	

For more information on the Drug Interactions tool see <u>"Chapter 10: Drug Interactions Tool" on page 137</u>.

Single IV Compatibility

Clicking the **IV Compatibility (single)** link under Medication Safety in the left panel checks the drug for compatibility in common solutions. Compatibility information with proven data to support safe decisions for administering injectable drugs in combination is quickly provided.

Using information from leading IV compatibility expert, Lawrence Trissel, MS, FASHP, this feature presents results for Solution, Y-Site, and Admixture administration. Customers with subscriptions to Complete IV Compatibility also have results for Syringe and TPN/TNA compatibility.

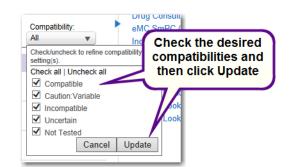


Compatibility is denoted by an icon and simple description. The full descriptions follow:

- Compatible All studies showed these items as compatible.
- Caution: Variable Study results show IV compatibility is variable.
- Incompatible All studies showed these items as incompatible.
- Uncertain Study results were inconclusive; compatibility wasn't determined.
- Not Tested IV compatibility has not been tested.

Filtering Results

By default, all compatibilities are displayed. To filter results for selected compatibilities, select the compatibilities desired from the **Compatibility** drop-down menu at the top of the page. Check the boxes for the desired compatibilities, then click the **Update** button.



After refining the selections, the title of the drop-down changes

from 'All' to '(#) Selected', and only the compatibilities chosen display on the page.

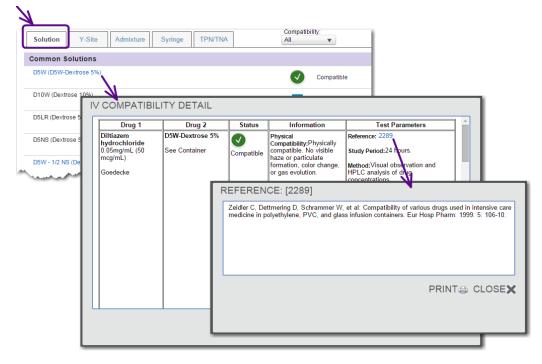
Solution Overview

Solution compatibility is calculated based on common and other typical IV solutions.

Common Solutions:

- *D5W* D5W-Dextrose 5%
- *D10W* Dextrose 10%
- D5LR Dextrose 5% in lactated Ringers
- D5NS Dextrose 5% in sodium chloride 0.0%
- D5W 1/2 NS Dextrose 5% in sodium chloride 0.45%
- NS Normal saline sodium chloride 0.9%
- 1/2 *NS* sodium chloride 0.45%.

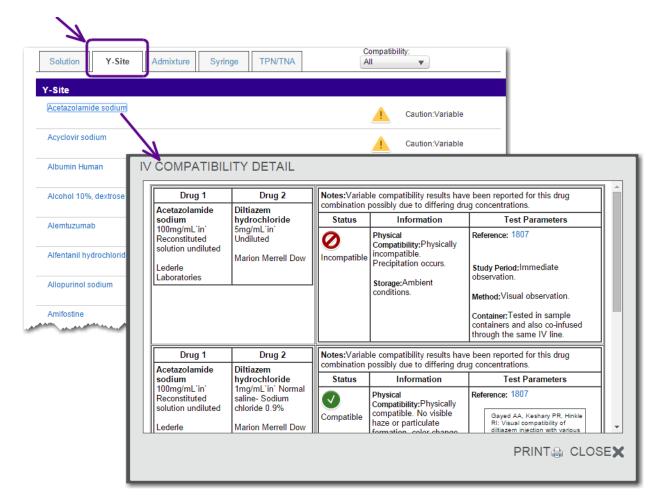
Where detailed results are available, the solution is shown as an active link. Click the solution link to view the additional information. References for the information can be found by clicking the numbered link.



Y-Site Overview

Overview information for single drug Y-Site compatibility is shown alphabetically by drug name, with the associated compatibility icon and description.

Click the drug name link to view a pop-up with the compatibility details, which are shown in a five-column table.



- Drug 1 contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the secondary drug name, concentration, and manufacturer's name
- Status lists the compatibility result icon and description
- Information displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination
- **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

Admixture Overview

Overview information for single drug admixture compatibility is shown alphabetically by drug name, with the associated compatibility icon and description.

Click the drug name link to view the pop-up with the compatibility details, which are shown in a five-column table.

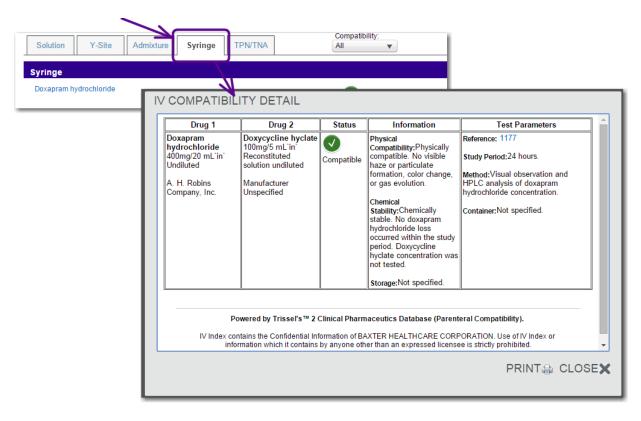
Solution Y-Site Admixture Meropenem	Admixture	nge TPN/TNA		Compatibility: All v Caution:Variable		
Ranitidine hydrochlone	V COMPATIBIL	ITY DETAIL				
	Drug 1 Doxycycline	Drug 2 Meropenem	depending on			
	hyclate	1mg/mL	Status	Information	Test Parameters	
	0.2mg/mL Roerig	Zeneca Pharmaceuticals	Compatible Normal saline- Sodium chloride 0.9%Baxter Healthcare Corporation	Physical Compatibility:Physically compatibile. No visible haze or particulate formation, color change, or gas evolution. Storage:Room temperature exposed to fluorescent light.	Reference: 1994 Study Period:4 hours. Method:Visual observation. Container:Polyvinyl chloride (PVC) infusion bags.	
	Drug 1 Doxycycline	Drug 2 Meropenem		le compatibility results have the meropenem concentra	e been reported for this combination ation.	
	hyclate	20mg/mL	Status	Information	Test Parameters	1
	0.2mg/mL Roerig	Zeneca Pharmaceuticals	Incompatible Normal saline-	Physical Compatibility:Physically incompatible. A brown discoloration appeared within 1 hour after paixing	Reference: 1994 Study Period:4 hours. Method:Visual observation.	-
						EX

- Drug 1 contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the secondary drug name, concentration, and manufacturer's name
- Status lists the compatibility result icon and description
- **Information** displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination
- **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

Syringe Overview (available to Complete IV Compatibility subscribers only)

Overview information for single drug syringe compatibility is shown alphabetically by drug name, with the associated compatibility icon and description.

Click the drug name link to view the pop-up with the compatibility details, which are shown in a five-column table.



- **Drug 1** contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the secondary drug name, concentration, and manufacturer's name
- Status column lists the compatibility result icon and description
- **Information** displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination
- **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

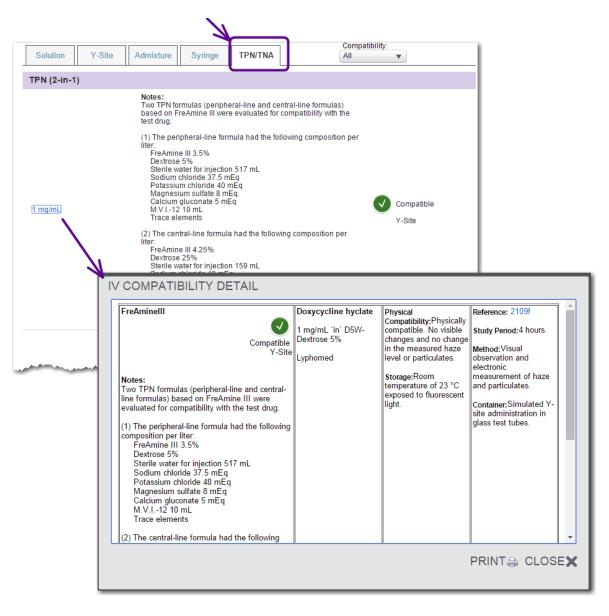
TPN/TNA Overview (available to Complete IV Compatibility subscribers only)

Overview information for single drug TPN (2-in-1) (total parenteral nutrition) is shown first, followed by TNA (3-in-1) (total nutritive admixture) compatibility.

Note: TPN and TNA results are not result type specific. They can be a Y-Site, Solution, or Admixture result. Results are comprised of all compatibility tests where the drug name searched is being included with a TPN or TNA solution.

Within each TPN or TNA section, the results are sorted alphabetically by the TPN or TNA admixture name, with each associated compatibility icon and description, followed by high-level notes, including composition of the TPN/TNA on these tests.

Click the admixture name link to view the details of these tests.



Multiple Drugs IV Compatibility

To access the IV Compatibility tool for checking compatibility for multiple drugs click the **Check multiple IV compatibility** button at the top of the page. The IV Compatibility tool is displayed and your drug is automatically added to the *Drugs to check* list.

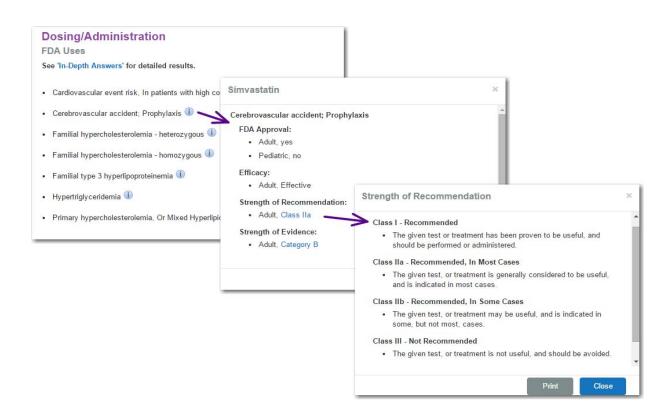


es: Intravenous Oral Subg Quick Antwers In-D	epth Answers All Results
osing/Administration	Medication Safety IV Compatibility (single)
Adult Dosing Pediatric Dosing	See 'In-Depth Answers' for detailed results.
-	See In-Depth Answers for detailed results.
FDA Uses	
Non-FDA Uses	Check multiple IV compatibility
Dose Adjustments	Solution Y-Site Admixture Syringe TPN/TNA
Administration	
Comparative Efficacy	Common Solutions
Place In Therapy	D5W (D5W-Dextrose 5%)
edication Safety	
IV Compatibilit	
	peneric) in the search field. Select the drug and click the 💽 (Add) button.
Type the drug name (brand or g	
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort	peneric) in the search field. Select the drug and click the 🗾 (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC	peneric) in the search field. Select the drug and click the 🗾 (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU	peneric) in the search field. Select the drug and click the 🗾 (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACTH	peneric) in the search field. Select the drug and click the 🗾 (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU	peneric) in the search field. Select the drug and click the Directory (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACTH APO-go	peneric) in the search field. Select the drug and click the 🗾 (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACTH APO-go Abatacept Abbokinase Abciximab	peneric) in the search field. Select the drug and click the Directory (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACTH APO-go Abatacept Abatacept Abtokinase Abciximab Abelcet	peneric) in the search field. Select the drug and click the Directory (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACTH APO-go Abatacept Abbokinase Abciximab Abelcet Abilify	peneric) in the search field. Select the drug and click the Directory (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACNU ACTH APO-go Abatacept Abbokinase Abciximab Abelcet Ablilfy Ablavar	peneric) in the search field. Select the drug and click the Directory (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACTH APO-go Abatacept Abbokinase Abciximab Abelcet Ablify Ablavar Abraxane	peneric) in the search field. Select the drug and click the Directory (Add) button.
Type the drug name (brand or g Enter search term: Matching drug names: (162) A-Hydrocort ABLC ACNU ACNU ACTH APO-go Abatacept Abbokinase Abciximab Abelcet Ablilfy Ablavar	peneric) in the search field. Select the drug and click the Discontraction (Add) button.

For more information on the IV Compatibility tool see <u>"Chapter 11: IV Compatibility Tool" on page 145</u>.

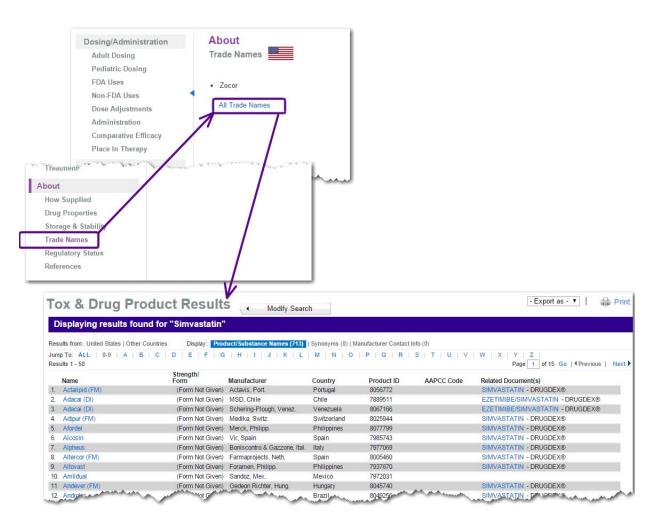
Additional Information

Links and infobutton icons within Summary Drug Information mean that more information exists. Click the link or icon to view the information. Examples are definitions for Strength of Evidence, Strength of Recommendation, and Pregnancy and Lactation Categories. This information is presented in a pop-up box that can be printed if desired.



Trade Names

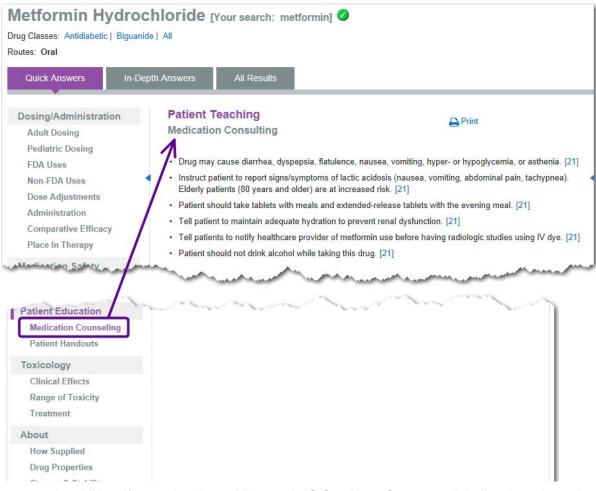
It is easy to display a list of all the trade names for the generic drug. In the left panel under About click the **Trade Names** link. Then click the All Trade Names link. The Tox & Drug Product Lookup tool is displayed with a list of brand name products containing the generic drug from the original landing page.



Patient Education

Medication counseling is an important aspect of the HCAHPS survey, which requires patient communication in the inpatient setting. The Patient Education section of a drug landing page provides a focused list of the most important factors to discuss with a patient, such as common or serious adverse effects, special administration instructions, and key warnings and monitoring recommendations.

Click on the Medication Counseling link under Patient Education in the left panel.

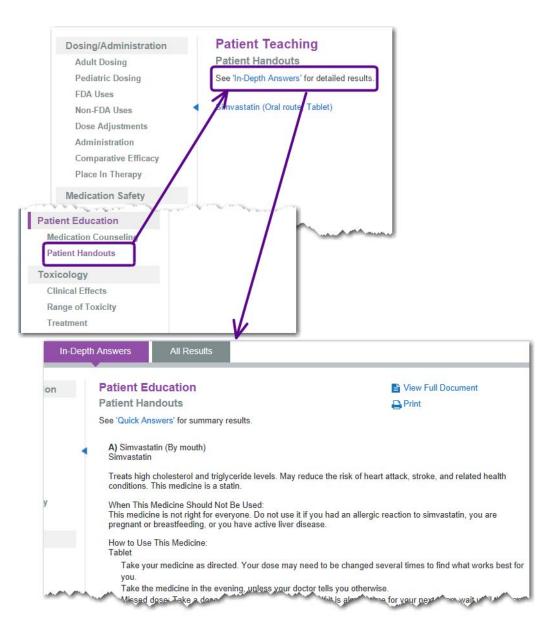


In addition, if you subscribe to Micromedex® CareNotes®, you can link directly to the patient handouts for the drug. In the left panel under *Patient Education* click the **Patient Handouts** link. Then click the drug name and route link. The CareNotes application is opened to the list of applicable Medication Instructions.



Dosing/Admin Adult Dosing Pediatric Dos FDA Uses Non-FDA Uses Dose Adjustr Administratio Comparative	ing s nents n	Patient Teaching Patient Handouts See 'In-Depth Answers' for d Simvastatin (Oral route, Tab	detailed results.		
Place In Them Medication Sa Patient Education Medication Counselin Patient Handouts Toxicology Clinical Effects Range of Toxicity	fety		and an all the second of		
Treatment CareN Keyword Search	otes® : Hot Lists	Care and Condition Titles	Drug Titles	Lab Titles	Conversion
Your Search: Simv		Select Documents Tales (4 titles) Lab Tales (0 titles)	Customize	(optional)	6 Print
Drug Titles: (4 titles) Ezetimibe/S Simvastatin Simvastatin	Simvastatin (C	Dral) (Tablet) & 9 (Tablet, Extended Release) 9t) &	Q		

If you do not have access to CareNotes, click on the **In-depth Answers** link to display a Patient Handout within the detailed drug information, which can be printed for the patient.

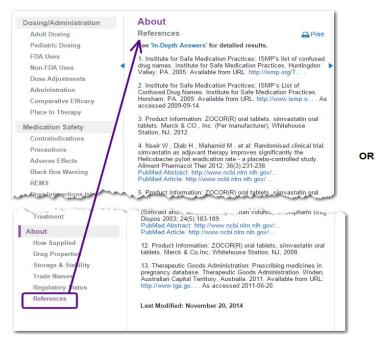


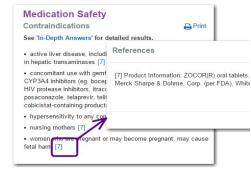
References

You can view the references by clicking on the **References** link in the left panel or by clicking a citation number with in the text, which opens a pop-up window containing the reference.

CHAPTER 4: DRUG INFORMATION







24. Batagol RBatagol R (Ed): Australian Drug Evaluation of drug use in pregnancy, 3rd. Australian Government Pu

25. Anon: American academy of pediatrics committee on Pediatrics 2001; 108(3):776-789.

26. Anon: Breastfeeding and Maternal Medication. World

Last Modified: December 23, 2014

Last Modified Date

Summary Drug Information includes a *last modified date* at the bottom of the References section.

Printing

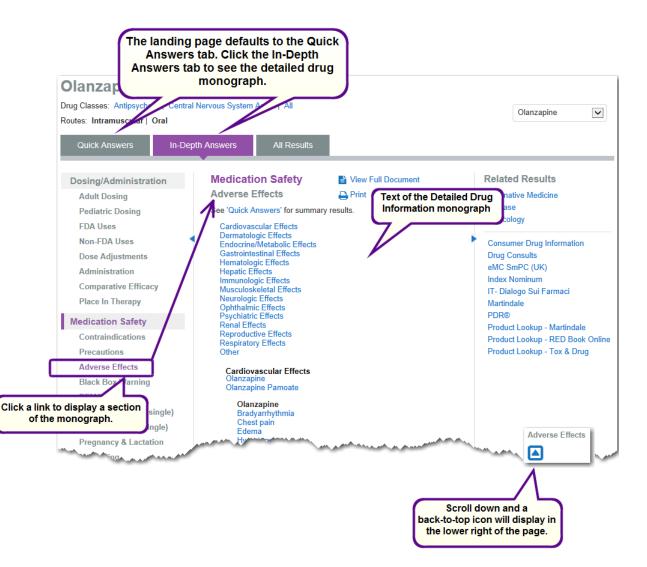
Click the **Print** icon (**Print**) to print the summary monograph. For more details on printing see <u>"Printing" on page 57.</u>

DETAILED DRUG INFORMATION

DRUGDEX® Detailed Drug Information contains the details required to answer more complex questions, and it is clinically consistent with the Summary Drug Information.

From the landing page click the **In-Depth Answers** tab, and the detailed drug monograph is displayed in the middle panel. The left panel contains links for navigating the sections of the detailed monograph. Click on a link to display that section in the middle panel.

For example, a search for "olanzapine" results in the Olanzapine landing page, which defaults to the *Quick Answers* tab. Click the **In-Depth Answers** tab to view the detailed drug monograph.



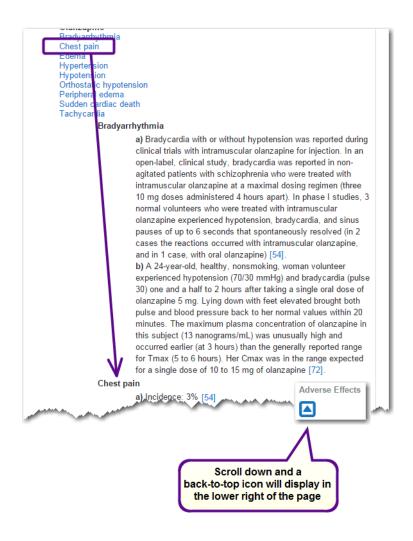
Navigating Document Sections

You can use the following methods to navigate within the detailed document sections:

- Arrow Up/Down keys
- Page Up/Down keys



- Browser scrollbar
- Click a sub-section link to go directly to that location
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.



Viewing the Full Document

Quick Answers Dosing/Administration Adult Dosing Pediatric Dosing FDA Uses Non-FDA Uses Dose Adjustments Administration Comparative Efficacy	Adverse Effects	View Full Document	Click View Full Document to view the entire detailed monograph.
	-Depth Answers All Results Q Dosing/Administration Prin	Document Sections	Click View Document Sections to return to the panel view.

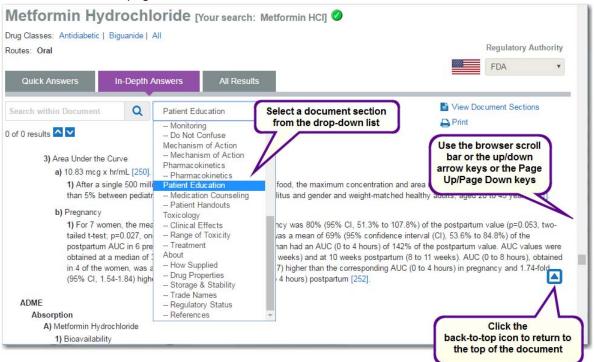
Navigating the Full Document

When viewing the full detailed monograph you have the following options for moving within the document:

- Arrow Up/Down keys
- Page Up/Page Down keys
- Browser scrollbar
- Drop-down box under the landing page tabs Select a document section from this list to go directly to that section.



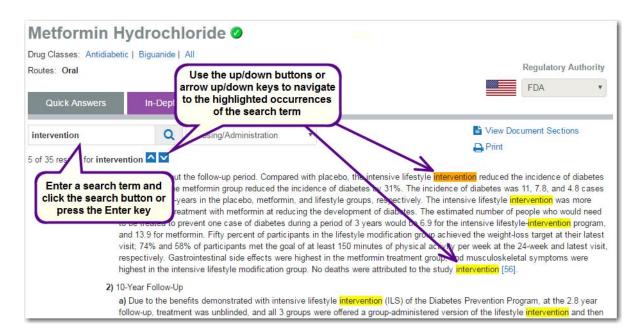
If you move down in the monograph, a back-to-top icon displays in the lower right of the page.



Searching Within a Document

When viewing the full detailed monograph you can search within the document. Simply enter a word or phrase in the search box located below the landing page tabs and click the **search** button or press the **Enter** key. The first occurrence of your search term is highlighted in orange, and subsequent occurrences are highlighted in yellow. Use the **arrow up/down** keys or the **up/**

down buttons (**A v**) to move from one highlighted occurrence to another.



Printing

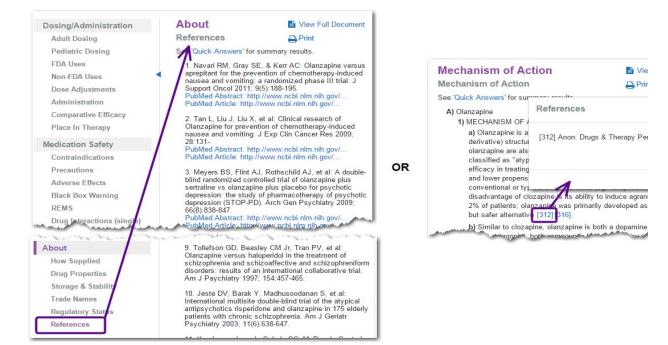
Click the Print icon (Print) to print the detailed monograph. This is available when viewing the document sections or the full document. For more details on printing see <u>"Printing" on page 57</u>.

References

When in the panel view you can view the references by clicking on the **References** link in the left panel or by clicking a citation number within the text, which opens a pop-up window containing the reference.

CHAPTER 4: DRUG INFORMATION





When viewing the full document you can view the references by selecting **References** from the section drop-down box or by clicking a citation number within the text, which takes you to that specific reference in the References section.

Quick Answers In-Depth A	unswers All Results			Pediatric Dosing Normal Dosage
Search within Document 0 of 0 results References 1. Navai RM, Rey SE, & Kerr AC: Olan Support Oncol MN: 9(5):188-195. PubMed Abstract. htp://www.ncbi.nlm.nif PubMed Abstract. htp://www.ncbi.nlm.	.gov/	ventio cherr rolled)). An nuscu x(4):49	OR	 Important Note There are 2 olanzapine intramuscular formulations with different do should not be confused with olanzapine pamoate, the extended-relea Extended-release olanzapine pamoate must be administered in a n services. Following each injection, a healthcare professional must c symptoms consistent with olanzapine overdose, including sedation a patient is alert, oriented, and without any signs or symptoms of post the facility, patients must the companied to their destination and s delinitum/sedation syndrom [52]. Olanzapine 52. Product Information: ZYPREXA RELPREVV extended release IM injectable suspension, olanzapine extended relea and Company, Indianapolis, IN, 2009. 53. Kane JM, Detke HC, Naber D, et al. Olanzapine long-acting injection: a 24-week, randomized, double-bilind trial of n schizophrenia. Am J Psychiatry 2010; 167(2):181-189. PubMed Abstract: http://www.ncbi.nlm.nih.gov/ PubMed Abstract: http://www.ncbi.nlm.nih.gov/ S4. Product Information: ZYPREXA(R) rel tablets, intramuscular injection, olanzapine oral tablets, intramuscular injectable suspension, olanzapine indianapolis, IN, 2010. S5. Product Information: ZYPREXA(R) RELPREVV(TM) extended release intramuscular injectable suspension, olanzapine indianapolis, IN, 2010. S6. U. S. Food and Drug Administration (FDA). Pid Drug Safety Communication: FDA is investigating two deaths follo antipsychotic Zyprexa Relprevy (olanzapine pamoate). U. S. Food and Drug Administration (FDA). Pid Drug Safety Communication: FDA is investigating two deaths follo antipsychotic Zyprexa Relprevy (olanzapine pamoate). U. S. Food and Drug Administration (FDA). Rockville, MD. 2013. http://www.fda.go As accessed 2013-06-18. S7. Product Information: ZYPREXA(R) Intramuscular injection, oral tablet, orally disintegrating tablet, olanzapine intran disintegrating tab

1942. King RB: Concerning the managem 33:73-78.	ent of pain associa
1943. Balakrishnan S, Bhushan K, Bharg oral aspirin for acute herpetic neuralgia. I	

Last Modified: December 23, 2014

Last Modified Date

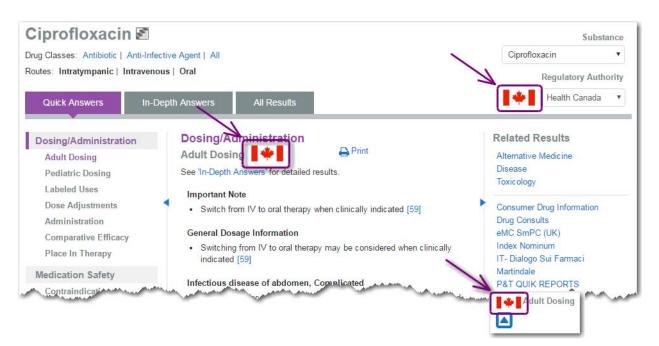
Detailed drug information monographs contain a *last modified date* at the bottom of the References section.

REGULATORY AUTHORITY INFORMATION

Drug information from the Food and Drug Administration (FDA) is available for all prescription and nonprescription drugs. Information from Health Canada and European Medicines Agency (EMA) is available for a subset of prescription drugs. Click an item from the Regulatory Authority drop-down list on the Quick Answers and In-Depth Answers tabs to view drug information from a specific regulatory authority.



Note: If drug information is available from only one source, the Regulatory Authority drop-down list is disabled.



A flag identifying the selected regulatory authority displays next to the Regulatory Authority drop-down list and on the middle panel of the Quick Answers and In-Depth Answers tabs. The flag also displays above the back-to-top icon that allows you to return to the top of the document.

Information from Health Canada and EMA is available only for the following sections:

- Adult Dosing
- Pediatric Dosing
- Labeled Uses



Note: The Labeled Uses section title changes to FDA Uses when FDA is the selected regulatory authority.

- Dose Adjustments
- Black Box Warning
- Trade Names

FDA is the default regulatory authority. If you select a different authority, that selection is retained for all drugs for which information from the selected authority is available. If no information is available from the selected authority, the regulatory authority automatically defaults to FDA.

Cincelle ve ain 18	The selected regulatory authority is Health Canada
Ciprofloxacin 🖻	
Drug Classes: Antibiotic Anti-Infective Agent All	Ciprofloxacin
Routes: Intratympanic Intravenous Quick Answers In-Deptr Search within Document Q 0 of 0 results V Black Box Warning	Figulatory Authority Health Canada View Document Sections Print
No results available	
No results available	
Drug Interactions (single)	
Drug-Drug Combinations Acarbose 1) Interaction Effect: changes in blood glucose and increased risk of hypoglycemia or hypergly 2) Summary: If concurrent therapy with a fluoroquinolone and an antidiabetic agent is necessar dose of the antidiabetic agent as indicated; dose adjustment may be required after discontinuations a, the patient Unitate, anorpointe the maximum flatback discentinuations	ry, closely monitor the blood glucose level and adjust the tion of a fluoroquinologies and the second s

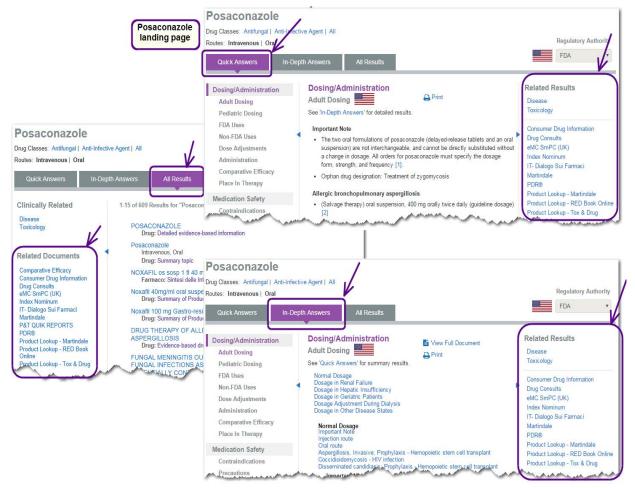
RELATED RESULTS

The following related information can be accessed from the landing page:

- <u>Chapter 7: Alternative Medicine Information on page 117</u>
- Chapter 5: Disease Information on page 93
- <u>Chapter 6: Toxicology Information on page 107</u>
- <u>"Consumer Drug Information (Detailed Drug Information for the Consumer)" on</u>
 page 89
- <u>"Drug Consults" on page 90</u>
- <u>"Global \ International Drug Information" on page 90</u>
- <u>"P&T Quick Reports (Formulary Considerations)" on page 90</u>
- <u>"Physicians' Desk Reference® (PDR)" on page 90</u>

- <u>"Product Lookup Martindale" on page 90</u>
- <u>"Product Lookup RED BOOK Online" on page 91</u>
- <u>"Product Lookup Tox & Drug" on page 91</u>

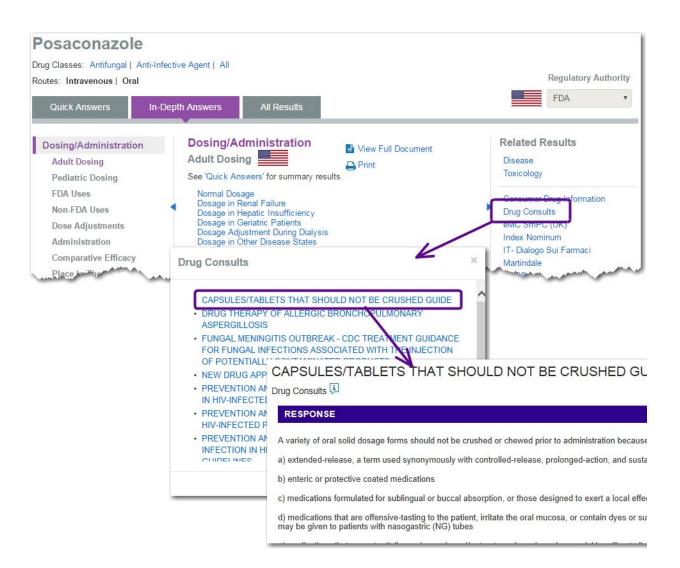
In the following example a search was performed for "posaconazole," and the Posaconazole landing page is displayed. Links to related information are available in the right panel when viewing the *Quick Answers* and *In-Depth Answers* tab and in the left panel when viewing the *All Results* tab.



For more information on landing pages see "Landing Pages" on page 16.

Clicking on a link under *Related Results* displays a list of all related documents in that database. Click a title to display the document or landing page.





Consumer Drug Information (Detailed Drug Information for the Consumer)

Consumer Drug Information provides patient-oriented drug information to help patients understand and successfully follow their drug regimens. Written at a 12th-grade literacy level, documents provide greater detail than most patient education leaflets and include brand names, descriptions, proper use, precautions, and side effects. Instructions for how to handle missed doses are included, as are guidelines for when to seek medical assistance or supervision.

Related Documents

Comparative Efficacy Consumer Drug Information Drug Consults eMC SmPC (UK) Index Nominum IT- Dialogo Sui Farmaci Martindale P&T QUIK REPORTS PDR® Product Lookup - Martindale Product Lookup - RED Book Online Product Lookup - Tox & Drug

Drug Consults

DRUGDEX® Drug Consults are evidence-based, fully-referenced articles covering drug therapies and drug guidelines. Some Drug Consults present patient related, referenced consultations with case histories. They are also an excellent resource for information on herbal medications, medical and surgical materials, excipients, drugs of abuse, and health foods. Drug Consults are provided for investigational, international, FDA-approved, and over-the-counter preparations. In addition to accessing Drug Consults from a landing page, you can perform a targeted search to see all Drug Consults or all Drug Consults containing comparative tables. See <u>"Targeted Searches" on page 41</u> for more details.

Global \ International Drug Information

International drug information can be included in your subscription. Databases can include: <u>Martindale: The Complete Drug Reference, Index Nominum, Herbal Medicines: A Guide for the</u> <u>Health-Care Professional</u>, Dialogo sui Farmaci, or eMC SmPC. The international drug information is integrated into all searches in Micromedex. In addition to accessing international drug information from a landing page and intermediate search results, you can perform a search on an international brand name. See <u>"International Drug Searching" on page 56</u> for more details.

P&T Quick Reports (Formulary Considerations)

P&T QUIK Reports assists pharmacists in preparing for Pharmacy and Therapeutics Committee meetings. P&T QUIK contains monographs on drugs being considered by P&T Committees for placement on the hospital formulary. Included are drugs recently approved by the FDA, those of intense interest, or drugs suggested by subscribers. Twelve monographs are added each quarter, and the most recent 24 months of monographs are available.

Physicians' Desk Reference® (PDR)

The electronic Physicians' Desk Reference provides fast, easy access to information found in the popular Physicians' Desk Reference® (PDR), the PDR for Nonprescription Drugs and

Related Documents Comparative Efficacy Consumer Drug Information Drug Consults eMC SmPC (UK) Index Nominum IT- Dialogo Sui Farmaci Martindale P&T QUIK REPORTS PDR® Product Lookup - Martindale Product Lookup - RED Book Online Product Lookup - Tox & Drug

Dietary Supplements[™], and the PDR for Ophthalmic Medicines. The content includes current FDA-approved prescription drugs, commonly used over-the-counter drugs, and specialized ophthalmic pharmaceuticals. It provides detailed data on ingredients, drug interactions, side effects, recommended dosages, clinical pharmacology, pediatric use, contraindications, and available forms. Information on drug manufacturers is also included.

Product Lookup - Martindale

Clicking this link performs a search for *Globally distributed drug products in Martindale* in the Tox & Drug Product Lookup tool. See <u>Chapter 14: Tox & Drug Product Lookup Tool</u> for more details.



Product Lookup - RED BOOK Online

Clicking this link performs an *Active Ingredient* search in the RED BOOK Online tool. See <u>Chapter 16: RED BOOK Online on page 191</u> for more details.

Product Lookup - Tox & Drug

Clicking this link performs a *Product or substance name* search in the Tox & Drug Product Lookup tool. See <u>Chapter 14: Tox & Drug Product Lookup Tool</u> for more details.

TARGETED DRUG INFORMATION SEARCHES

Micromedex provides some highly focused drug searches that present you with results that are specific to your clinical question. These include:

Black Box Warnings

An alphabetical list of all drugs in Micromedex with a black box warnings. Search results return the list of drugs (with a black box warning) as links, to directly access the black box warning topic in the drug information. See <u>"Black Box Warning List" on page 42</u> for additional information.

• Comparative Tables

A complete list of all DRUGDEX Drug Consults articles that have comparative tables. See <u>"Comparative Tables" on page 43</u> for more information.

Do Not Confuse Drug List

An alphabetical list of confused drug names, including look-alike and sound-alike name pairs. See <u>"Do Not Confuse Drug List" on page 44</u> for more information.

• Drug Classes

This search displays an alphabetical list of the drug classes in Micromedex Solutions that can be browsed to find all of the drugs in a particular class. See <u>"Drug Classes"</u> on page 46 for more information.

• Drug Consults

A complete list of all Drug Consults articles available in Micromedex Solutions. See <u>"Drug Consults" on page 49</u> for more information.

• REMS: Risk Evaluation and Mitigation Strategies

Provides a list of drugs and biological products that have FDA-approved REMS. Drug names are displayed as links to the REMS information for the drug. See <u>"REMS: List of Drugs With a Risk Evaluation and Mitigation Strategy" on page 50</u> for more information.

CHAPTER 5: DISEASE INFORMATION

The Micromedex® Solutions application supports disease management with unbiased, evidence-based information and identification of best practices for treating diseases. It lets clinicians quickly reference the most current treatment of choice at the point of care to help minimize errors, prevent unnecessary tests or procedures, reduce treatment costs, and improve patient outcomes. Micromedex delivers both etiology and treatment information, with summary overviews for each medical condition providing recommendations for appropriate care.

Micromedex Disease Information provides trusted information to help clinicians make confident decisions when treating emergent, acute, and chronic disorders, and supports meaningful outcomes and ensures the highest standards of care.

We create a summary monograph and a detailed monograph for each topic. The Summary Disease Information monographs support quick decisions at the point of care, and the Detailed Disease General Medicine and Detailed Disease Emergency Medicine monographs support further research and aid clinicians when making difficult treatment decisions. Because one editorial group creates all the Micromedex content, treatment recommendations are consistent.

This chapter describes the types of disease information available in Micromedex Solutions. For information on how to search in Micromedex Solutions see <u>"Chapter 3: Searching Micromedex Solutions" on page 13</u>.

SUMMARY DISEASE INFORMATION

Summary Disease Information is succinct, actionable at the point-of-care, and designed to get you an answer very quickly. It is displayed on the middle panel of the *Quick Answers* tab on the landing page. The left panel contains links for navigating the sections of the summary monograph. Click on a link to display that section in the middle panel.

Hyperlinked information within the content links directly to drug, lab, toxicology, and other disease landing pages.

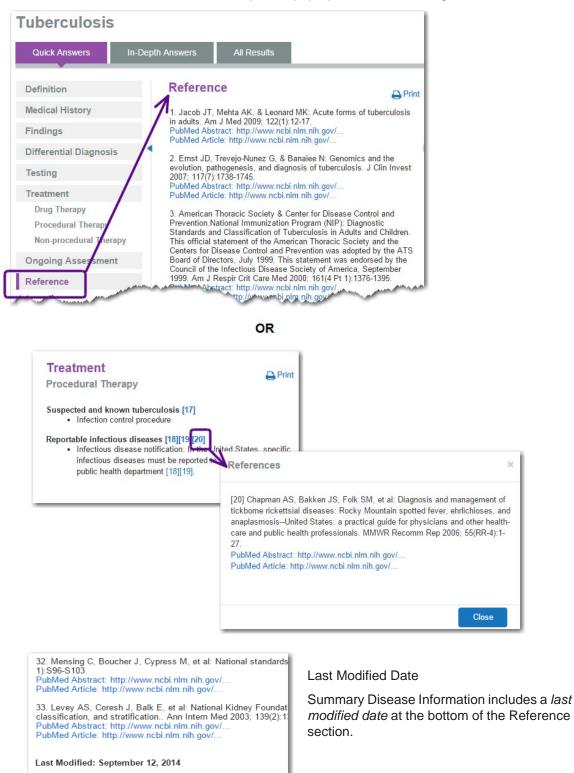
For example, a search for "tuberculosis" results in the following landing page:





References

You can view the references by clicking on the **Reference** link in the left panel or by clicking a citation number with in the text, which opens a pop-up window containing the reference.



Printing

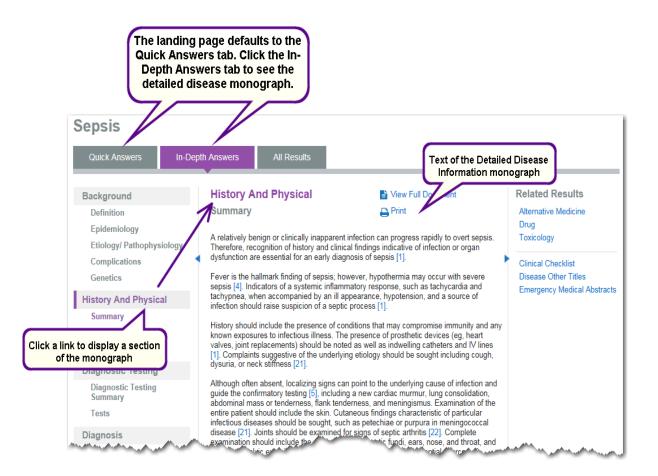
Click the **Print** icon (print) to print the summary monograph. For more details on printing see <u>"Printing" on page 57.</u>

DETAILED DISEASE INFORMATION

Detailed Disease General and Emergency Medicine Information contains the details required to answer more complex questions, and it is clinically consistent with the Summary Disease Information.

From the landing page click the **In-Depth Answers** tab, and the detailed disease monograph is displayed in the middle panel. The left panel contains links for navigating the sections of the detailed monograph. Click on a link to display that section in the middle panel.

For example, a search for "sepsis" results in the Sepsis landing page, which defaults to the *Quick Answers* tab. Click the **In-Depth Answers** tab to view the detailed disease monograph.





Navigating Document Sections

You can use the following methods to navigate within the detailed document sections:

- Arrow up/down keys
- Page up/down keys
- Browser scrollbar
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.

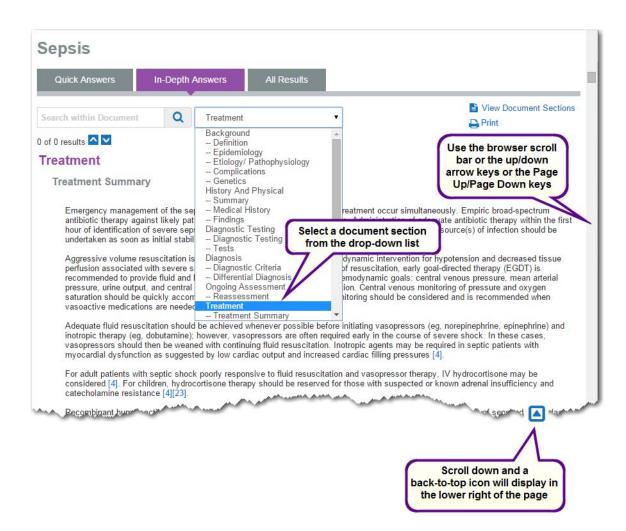
Viewing the Full Document

Sepsis			
Quick Answers	In-Depth Answers	All Results	Click View Full Document to
Background Definition Epidemiology Etiology/ Pathophysiol Complications Genetics History And Physical Summary	logy Adul	Immatory Response Syndrome (SIP la [1][2]: Presence of 2 or more general and in greater than 36°C, respiratory rate greater than 36°C respiratory rate greater than 20 breat	matory variables including temperature
Quick Answers	In-Depth Answers Q Background	All Results	Click View Document Sections to return to the panel view.
Adults [1][2]: Presence rate gre greater	ce of 2 or more general and ater than 90 beats/min; res		vo greater than 38°C or less than 36°C; heart PaCO ₂ less than 32 mmHg); WBC count han 10% Immature forms

Navigating the Full Document

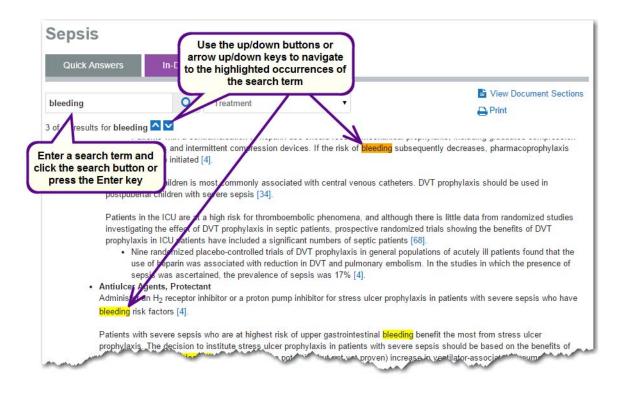
When viewing the full detailed monograph you have the following options for moving within the document:

- Arrow Up/Down keys
- Page Up/Page Down keys
- Browser scrollbar
- Drop-down box under the landing page tabs Select a document section from this list to go directly to that section.
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.



Searching Within a Document

When viewing the full detailed monograph you can search within the document. Simply enter a word or phrase in the search box located below the landing page tabs and click the **search button** or press the **Enter** key. The first occurrence of your search term is highlighted in orange, and subsequent occurrences are highlighted in yellow. Use the **arrow up/down** keys or the **up/down buttons** (



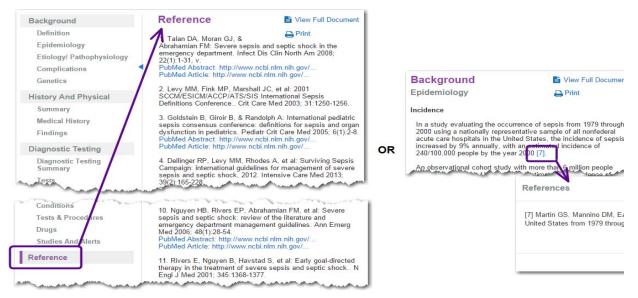
Printing

Click the Print icon (Print) to print the detailed monograph. This is available when viewing the document sections or the full document. For more details on printing see <u>"Printing" on page 57.</u>

MICROMEDEX® SOLUTIONS USER GUIDE

References

When in the panel view you can view the references by clicking on the **Reference** link in the left panel or by clicking a citation number within the text, which opens a pop-up window containing the reference.



When viewing the full document you can view the references by selecting **Reference** from the section drop-down box or by clicking a citation number within the text, which takes you to that specific reference in the Reference section.

Quick Answers	In-Depth A	nswers All Resu	ults		Etiology/Pathophysiology
bleeding 3 of 33 results for bleeding Reference 1. Talan DA, Milen GJ, & 2008; 22(1):1-31, v PubMed Abstract: http://www 2. Levy MM, Fink MP, Ma Med 2003; 31:1250-1256. 3. Goldstein B, Giroir B, & dysfunction in pediatrics. P PubMed Abstract: http://www PubMed Article: http://www 4. Dellinger RP, Levy MM, septic shock, 2012. Intensi	Abrahamian F ww.ncbi.nlm.nih.g ncbi.nlm.nih.g schall JC, et al Randolph A: I ediatr prit Car ww.ncbi.nlm.nih.g	Reference - Tests Diagnosis - Diagnostic Criteria - Differential Diagnosis Orgoing Assessment - Reassessment Treatment - Treatment Summary - Drug Therapy - Procedural Therapy Prognosis Disposition - Admission - Consultation Related Information - Conditions - Tests & Procedures - Drugs - Studies And Alerts Reference H3, 30(2), 165 220.	re e	OR	Overview In sepsis, diffuse endothelial disruption is the basis for th dysfunction, and hypotension that develops as a result of immune systems that interact with endothelial cells cause release or activation of proinflammatory and anti-inflamm amplification of this response is caused by activation of cascades. These events occur predominately at the vas microvascular insufficiency develops contributing largel oxygen delivery and systemic oxygen consumption, and deprivation (global tissee intro acia) contributes to further inflammatory response [10]. 10. Nguyen HB, Rivers EP, Abrahamian FM, et al: Severe a and emergency department management guidelines. Ann Er PubMed Abstract: http://www.ncbi.nlm.nih.gov/ PubMed Article: http://www.ncbi.nlm.nih.gov/ 11. Rivers E, Nguyen B, Havstad S, et al: Early goal-directu septic shock N Engl J Med 2001; 345:1368-1377. 12. Mackenzie I & Lever A: Management of sepsis. BMJ 20 PubMed Abstract: http://www.ncbi.nlm.nih.gov/

14. Remick DG: Pathophysiology of sepsis. Am J Pathol 20

CHAPTER 5: DISEASE INFORMATION



115. Sigal RJ, Kenny GP, Wasserman DH, et al: Physical activit American Diabetes Association. Diabetes Care 2006; 29(6):1433 PubMed Abstract: http://www.ncbi.nlm.nih.gov/... PubMed Article: http://www.ncbi.nlm.nih.gov/...

116. Thomas DE, Elliott EJ, & et al: Exercise for type 2 diabetes PubMed Abstract: http://www.ncbi.nlm.nih.gov/... PubMed Article: http://www.ncbi.nlm.nih.gov/...

117. National Committee for Quality Assurance (NCQA): HEDIS Committee for Quality Assurance (NCQA), Washington, DC, 201

Last Modified: December 02, 2014

Last Modified Date

Detailed Disease Information includes a *last modified date* at the bottom of the Reference section.

RELATED RESULTS

The following related disease information can

be accessed from the landing page:

- Chapter 7: Alternative Medicine Information
- Chapter 4: Drug Information
- <u>Chapter 6: Toxicology Information</u>
- "Disease Other Titles" on page 104
- <u>"Emergency Medical Abstracts" on page 104</u>
- <u>"Clinical Checklist™" on page 104</u>

In the following example a search was performed for "bronchiolitis," and the Bronchiolitis landing page was displayed. Links to related disease, drug, and toxicology information are

MICROMEDEX® SOLUTIONS USER GUIDE

available in the right panel when viewing the *Quick Answers* and *In-Depth Answers* tab and in the left panel when viewing the *All Results* tab.

	Quick Answers)epth A	Answers All Results	
Bronchiolitis landing page Bronchiolitis Quick Answers In-Depth Answers All Results Related Results	Definition Medical History Findings Differential Diagnosis Testing Treatment Drug Therapy Procedural Therapy Non-Procedural Therapy		Definition See In-Depth Answers' for detailed results. An acute lower respiratory tract infection, almost exclusively of viral etiology, that produces inflammatory obstruction of the bronchioles	Related Results Drug Toxicology Clinical Checklist Disease Other Titles Emergency Medical Abstracts
Drug Toxicology Alerts Clinical Checklist Disease: Detailed evidence- Disease: Detailed evidence- Disease: List of essential ca Studies Filter by Filter by Cronchiolitis Disease: Summary topic Bronchiolitis Disease: List of essential ca Bronchiolitis - Prevention & St Disease: Summary topic		Depth	Answers All Results Background	Related Results
All (1632) Disease (2) Disease (2) Toxicology (1169) Lab (2) Atternative Medicine (5) Demoductive Rigk (275) Disease: Bief reports on ne	Definition Epidemiology Etiology/Pathophysiology Complications History And Physical Summary Medical History Findings		Definition An acute lower respiratory tract infection, almost exclusively of viral etiology, that produces inflammatory obstruction of the bronchioles	Drug Toxicology Clinical Checklist Disease Other Titles Emergency Medical Abstracts

For more information on landing pages see "Landing Pages" on page 16.

Clicking on a link under *Related Results* displays a list of the related documents. Click a title to display the document or landing page.



Definition Medical History	Definition See 'In-Depth Answers' for detailed results.	Related Results Drug Toxicology
Findings	An acute lower respiratory tract infection, almost exclusively of viral etiology, t produces inflammatory obstruction of the bronchioles	hat Clinical Checklist
Differential Diagnosis	4	Disease Other Titles Emergency Medical Abst
Testing		Energency Medical Abso
Treatment		
Drug Therapy Procedural Therapy Non-Procedural Therapy		
Reference	Emergency Medical Abstracts	×
	CENTRAL APNOEAS IN INFANTS WITH BRONCHIOLITIS ADMITTED TO THE PAEDIATRIC INTENSIVE CARE UNIT COST-EFFECTIVENESS OF EPINEPHRINE AND DEXAMETHASONE IN CHILDREN WITH BRONCHIOLITIS RIAL OF NEBULIZED 3% HYPERTONIC	🔒 Print
mergency Medical Abstract		🕈 Top of Page
Citation		
	Ped Adol Med 163(11):1007, November 2009. A RANDOMIZED TRIAL OF NEBU PHRINE IN THE TREATMENT OF ACUTE BRONCHIOLITIS IN THE EMERGEN	
Background		
a substantial increase	dmission rates for bronchiolitis increased from 12.9 per 1000 children in 1980 to 3 in healthcare costs. There is no clear consensus regarding the optimal early treat a improvement in outcomes with use of nebulized hypertonic saline, but these did r	ment of acute bronchiolitis. Four

Disease Other Titles

Click this link to see other types of disease information documents for the same topic. The following type of disease information are available:

- Acute Emergency or immediate care presentations
- Chronic On-going health conditions and issues
- *Prevention & Screening* Relevant assessment and screening information.

It is possible for a topic with an Acute or Chronic document to also have a Prevention & Screening document. The Acute or Chronic document displays via the landing page. You can click the **Disease Other Titles** link to see the Prevention & Screening document, if one exists.

Related Results
Drug
Toxicology
Clinical Checklist
Disease Other Titles
Emergency Medical Abstracts

Emergency Medical Abstracts

EMA from Rick Bukata, MD and Jerry Hoffman, MD is a definitive source of literature review covering a broad scope of topics.

Clinical Checklist[™]

The Clinical Checklist system presents the "must do" "never do" patient care procedures and interventions. It is a compilation of the most pertinent patient care interventions on commonly encountered conditions that should always, or never, be done. The information is actionoriented, concise, and based on nationally recognized quality standards and the highest rated medical evidence.

Each checklist item contains graded recommendation and evidence information. These evidence ratings embed evidence-based medicine into clinical operations, and ultimately, maximize reimbursement by ensuring that clinical decisions are in compliance with the latest national quality standards and evidence-based practices.

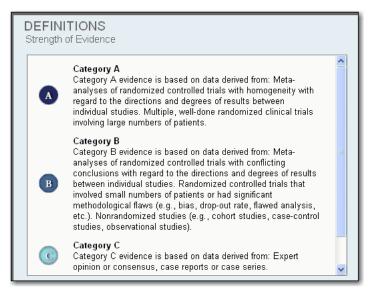
The Clinical Checklist topic may include links to other summaries for more detailed and indepth information (based on your subscription). Links to related information in drug, lab, disease, and toxicology are also included when appropriate and available.



reatment	Chronic obstructive pulmonary disease		
	୧ Clinical Checklist™ 连	🕂 Expand All 🗐 Co	llapse All 🛧 Top of F
Treatment ERFORMANCE MEASURE	Always Do		
ELATED INFORMATION			
Conditions Studies and Alerts	Diagnosis		
EFERENCES	Diagnostic Testing	Strength of Recommendation/Evidence	Performance Measure
	Order spirometry to diagnose airway obstruction in patients with respiratory symptoms [1]. Document spirometry testing to confirm the diagnosis in patients 40 years old and older with a new diagnosis of COPD or newly-active COPD [2].		HEDIS
	Obtain pulse oximetry in stable COPD patients who have a forced expiratory volume in one second (FEV ₁) of less than 35% predicted [3].		
	Treatment		
	Drug Therapies	Strength of Recommendation/Evidence	Performance Measure
	Prescribe maintenance bronchodilator monotherapy for symptomatic patients with COPD and FEV ₁ less than 60% predicted using either a long-acting inhaled be agonist or a long-acting inhaled anticholinergic	08	And the second s

Each item is shown with the corresponding Strength of Recommendation and Strength of Evidence icon to visually portray the validity and strength associated with the information. Clicking the icon opens the definitions:

Strength of Evidence



A legend is also available at the bottom of the topic.

Strength of Recommendation

	NITIONS th of Recommendation			
	Class I - Recommended The given test or treatment has been proven to be useful, and should be performed or administered.			
	Class IIa - Recommended, In Most Cases The given test, or treatment is generally considered to be useful, and is indicated in most cases.			
Пр	Class IIb - Recommended, In Some Cases The given test, or treatment may be useful, and is indicated in some, but not most, cases.			
	Class III - Not Recommended The given test, or treatment is not useful, and should be avoided.			
	Class Indeterminate - Evidence Inconclusive			
	PRINT 🖨 CLOSE 🗙			

Performance Measures

Clinical Checklist can help clinicians and hospitals comply with key quality and performance measures (i.e., guidelines published by the Joint Commission, Centers for Medicare & Medicaid Services, etc.) at the point of care. Organizations providing credentialing standards or compliance measures are listed by their abbreviation in the Performance Measure column. The full organization name is found below the table.

Organizations

Currently six organizations performance measures are included:

Joint Commission - (formerly Joint Commission on Accreditation of Healthcare Organizations)

CMS - Centers for Medicare & Medicaid Services

AHRQ - Agency for Health Research & Quality

AH - American Healthways

NQF - National Quality Forum

HEDIS - Health Plan Employer Data and Information Set

CHAPTER 6: TOXICOLOGY INFORMATION

Accidental poisonings occur with even the most common and seemingly harmless substances. In such situations, having instant access to critical information can save lives. Relied upon in 100% of U.S. poison control centers, the Truven Health Analytics POISINDEX® System identifies ingredients for hundreds of thousands of commercial, biological, and pharmaceutical products. Micromedex® Solutions links that information directly to detailed documents providing data on clinical effects, range of toxicity, and treatment protocols for exposure.

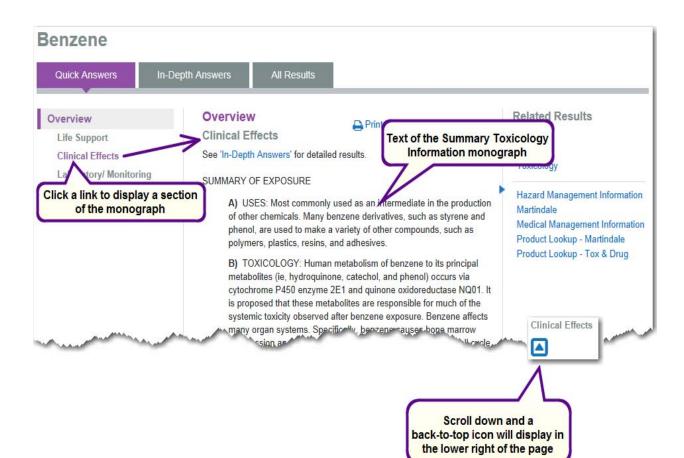
We create a summary monograph and a detailed monograph for each topic. The Summary Toxicology Information monographs support quick decisions, and POISINDEX Detailed Toxicology monographs support further research and assist in the management of all toxic exposures. They include in-depth knowledge on lab tests, monitoring, toxicokinetics, and more and breaks out data by severity of exposure. Because one editorial group creates all the Micromedex content, treatment recommendations are consistent.

This chapter describes the types of toxicology information available in Micromedex Solutions. For information on how to search in Micromedex Solutions see <u>"Chapter 3: Searching</u> <u>Micromedex Solutions" on page 13</u>.

SUMMARY TOXICOLOGY INFORMATION

Summary Toxicology Information is succinct, actionable, and designed to get you an answer very quickly. It is displayed on the middle panel of the *Quick Answers* tab on the landing page. The left panel contains links for navigating the sections of the summary monograph. Click on a link to display that section in the middle panel.

For example, a search for "benzene" results in the following landing page:



Printing

Click the Print icon (Print) to print the summary monograph. For more details on printing see <u>"Printing" on page 57.</u>

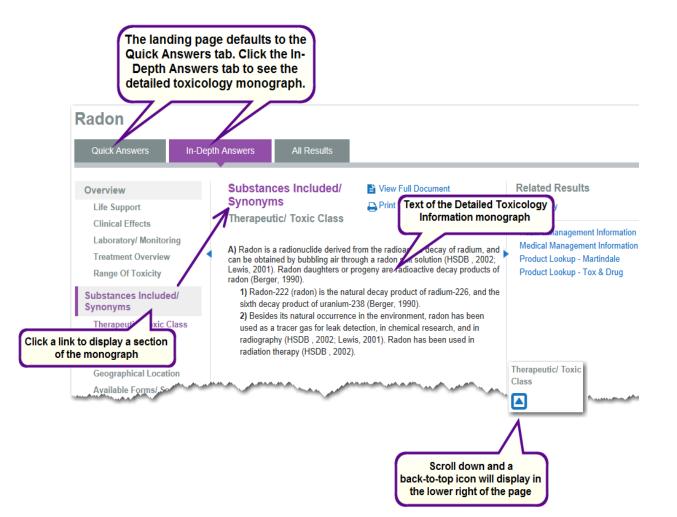
DETAILED TOXICOLOGY INFORMATION

Detailed Toxicology Information contains the details required to answer more complex questions, and it is clinically consistent with the Summary Toxicology Information.

From the landing page click the **In-Depth Answers** tab, and the detailed toxicology monograph is displayed in the middle panel. The left panel contains links for navigating the sections of the detailed monograph. Click on a link to display that section in the middle panel.

For example, a search for "radon" results in the Radon landing page, which defaults to the *Quick Answers* tab. Click the **In-Depth Answers** tab to view the detailed toxicology monograph.



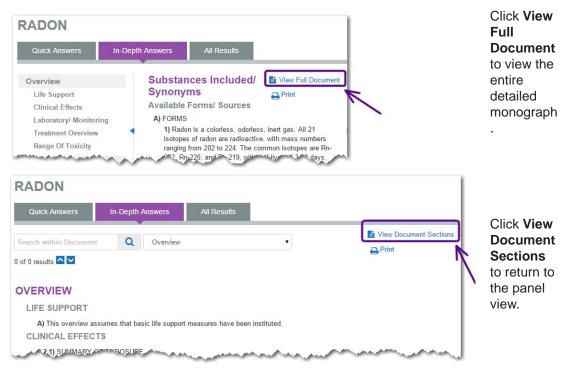


Navigating Document Sections

You can use the following methods to navigate within the detailed document sections:

- Arrow up/down keys
- Page up/down keys
- Browser scrollbar
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.

Viewing the Full Document



Navigating the Full Document

When viewing the full detailed monograph you have the following options for moving within the document:

- Arrow Up/Down keys
- Page Up/Page Down keys
- Browser scrollbar
- Drop-down box under the landing page tabs Select a document section from this list to go directly to that section.
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.



Scroll down and a back-to-top icon will display in the lower right of the page

Quick Answers In-Depth	Answers All Resi	s	
	A	. .	View Document Sections
earch within Document Q	- Available Forms/ Sour	s	😝 Print
f O results 🔼 🔽	Overview Life Support	A.	
	Clinical Effects		Use the browser scroll
AVAILABLE FORMS/SOURC		document section	
A) FORMS	- Treatment from	e drop-down list	bar or the up/down
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- Range Of	onyms ve, with m	arrow keys or the Page
 Radon is a colorless, odorle common isotopes are Rn-222. 			opin age bernineje
((ATSDR, 2000)) Patnaik, 1992	Canalifia Cult	5.5 Secor	los, and
2) Radon is an alpha-emitter an	- Description	nown artif	icial radioactive isotopes include radon 200-
221 and 223-226 (Budavari, 20			icial radioactive isotopes include radoit 200-
3) With a half-life of 3.823 days			/ari, 2000).
	- Summary Of Exposure	pe (buday	an, 2000).
B) SOURCES	- Heent		
1) Radon is derived from the ra	Guidiovuscului		xists in soil and rocks in small amounts.
Approximately 1 gram of radiu			eleased from this radium into the
atmosphere (ATSDR, 1990; (A		e, 1 gram	of radium produces approximately 0.0001
mL of radon per day (HSDB , 2	Poproductivo	* 4000) #P	
			adon is [also] obtained by bubbling air
through a radon salt solution a	0 0 1		
3) Both uranium-238 and radiur			is the environment (Reserve 1000). Ulishes
			in the environment (Berger, 1990). Higher es, especially when ventilation is poor
(Berger, 1990).	ced in areas with ficher sour	es of the precursor radionuclid	es, especially when ventilation is poor
	roos with uranium and thariu	are deposite and grapite form	ations. Natural uranium exists in these
SI Radon levels are nigher in a	eas with trantum and thorns		Ations. Natural uranium exists in mass
	and the second se	A REAL PROPERTY AND A REAL	

Searching Within a Document

When viewing the full detailed monograph you can search within the document. Simply enter a word or phrase in the search box located below the landing page tabs and click the **search button** or press the **Enter** key. The first occurrence of your search term is highlighted in orange, and subsequent occurrences are highlighted in yellow. Use the **arrow up/down** keys or the **up/down buttons** (v) to move from one highlighted occurrence to another.

RADON	Use the up/down buttons or	
Quick Answers	arrow up/down keys to navigate to the highlighted occurrences of the search term	
	a later	View Document Section
5 of esults for uranium	- Range Of Toxicity	😝 Print
ick the search button or press the Enter key	additive relationship between radon exposure and smokin f	
	rom non-halignant renal disease (chronic and unspecified	nephritis) has been noted in radon-exposed miners.
0.2.14) DERMATOLOGI A) Radiation dermati 0.2.20) REPRODUCTIV	is has reveloped following gold radon seed implants or we	aring gold rings made from spent gold radon seeds.
A) High rates of con	- enity malformations and spontaneous abortions have beer uranium mining occurred.	n noted at an Indian Health Service hospital serving a
	condary sex ratio have been noted in the offspring of male	underground miners exposed to radon.
	prenatal mortality and macroscopic hemorrhages in the su	rviving offspring were noted when female rats were
injected with radon s		
0.2.21) CARCINOGENI		
	with exposure to radon and its daughters is the developme umented in uranium and certain other miners exposed to ra	
animals	and the sector of the sector of the sector of the	

Last Modified Date

Detailed Toxicology Information includes a *last modified date* at the bottom of the References-General Bibliography section.



Printing

Click the Print icon (Print) to print the detailed monograph. This is available when viewing the document sections or the full document. For more details on printing see <u>"Printing" on page 57.</u>

RELATED RESULTS

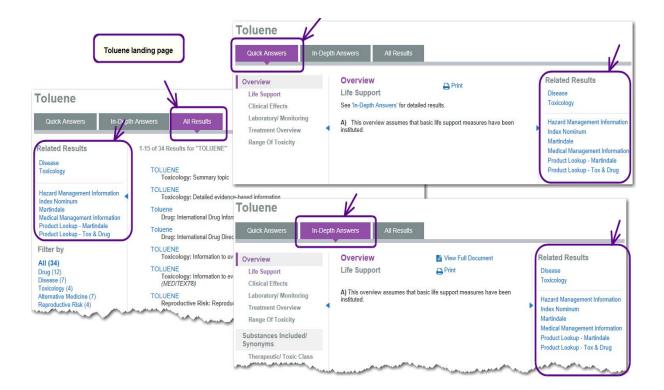
The following related information can be accessed from the landing page:

- Chapter 7: Alternative Medicine Information
- <u>Chapter 5: Disease Information</u>



- <u>Chapter 4: Drug Information</u>
- <u>"Hazard Management Information" on page 115</u>
- <u>"Index Nominum" on page 115</u>
- <u>"Martindale" on page 115</u>
- <u>"Medical Management Information" on page 115</u>
- <u>"MSDS (Material Safety Data Sheets)" on page 115</u>
- <u>"Product Lookup Martindale" on page 115</u>
- <u>"Product Lookup Tox & Drug" on page 115</u>

In the following example a search was performed for "toluene," and the Toluene landing page was displayed. Links to related results are available in the right panel when viewing the *Quick Answers* and *In-Depth Answers* tab and in the left panel when viewing the *All Results* tab.



For more information on landing pages see "Landing Pages" on page 16.

Clicking on a link under *Related Results* displays a list of the related documents. Click a title to display the document or landing page.

oluene			
Quick Answers In-Dep	th Answers All Result	Is	
Dverview Life Support Clinical Effects Laboratory/ Monitoring Treatment Overview Range Of Toxicity	Overview Life Support See 'In-Depth Answers' for d A) This overview assumes instituted.	Print detailed results. that basic life support measures have been	Related Results Disease Toxicology Hazard Management Information Index Nominum Martindale Medical Management Information Product Lookup - Martindale
TOLUENE Physical And Pharmaceutical	Pharmaceutical Excipients Toluene Toluene		🔒 Print
Properties ADVERSE EFFECTS, TREATMENT, AND PRECAUTIO Abuse. Handling. Pregnancy. PHARMACOKINETICS USES	MARTINDALE - The Com		ES
		da;Methylbenzene;Metilbenceno;Phenylmethane no;Toluol;Toluole;Toluols C7H8 .14	;Toluė;Tolueen;Tolueeni;Toluen;Tolu
and the second second		: NOTE, Description, Toluene is a colourless, vo	platile, flammable liquid with a



Hazard Management Information

Hazard Management Information documents can help you understand the issues related to environmental impact including how to implement emergency reaction to chemicals and their impact: Fire, Clean up, Personal protection. These documents also help you manage chemicals safely in the workplace.

Index Nominum

Recognized worldwide, Index Nominum is an international drug directory providing access to over 5,300 substances and derivatives, more than 12,800 synonyms, and over 41,800 tradenames from more than 45 countries. For more details see <u>"Index Nominum" on page 238</u>.

Martindale

This content offers extensive, unbiased, evaluated information on worldwide drugs and related substances. It provides quick and easy searching for pharmacological and therapeutic data, synonyms, and manufacturers' brand names. For more details see <u>"Martindale: The Complete Drug Reference" on page 239</u>.

Medical Management Information

The Medical Management Information monographs can help you evaluate issues associated with exposure. They deliver information on acute exposure, treatment, and adverse health effects.

MSDS (Material Safety Data Sheets)

Prepared by the US Pharmacopeial Convention, Material Safety Data Sheets are a vital part of every hospital/company Hazard Communication Program. This electronic version of more than 1,000 MSDS issued by the US Pharmacopeial Convention offers quick access to drug and chemical information, including health hazards, handling procedures, and government regulations.

Product Lookup - Martindale

Clicking this link performs a search for *Globally distributed drug* products in Martindale in the Tox & Drug Product Lookup tool. See <u>Chapter 14: Tox & Drug Product Lookup Tool</u> for more details.

Product Lookup - Tox & Drug

Clicking this link performs a *Product or substance name* search in the Tox & Drug Product Lookup tool. See <u>Chapter 14: Tox & Drug</u> <u>Product Lookup Tool</u> for more details.

Related Results

Disease

Toxicology

Hazard Management Information Index Nominum Martindale Medical Management Information Product Lookup - Martindale Product Lookup - Tox & Drug

Related Results

Medical Management Information MSDS from USP Product Lookup - Martindale Product Lookup - Tox & Drug



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CHAPTER 7: ALTERNATIVE MEDICINE INFORMATION

Self-medicating with herbals and other dietary supplements is commonplace, as is treatment with acupuncture, chiropractic care, and homeopathy. You can give your patients a better understanding of these healthcare alternatives with the information found in the alternative medicine content of Micromedex® Solutions.

Micromedex can provide you a reliable, comprehensive source of referenced, scientifically sound information about complementary and alternative medicine (CAM) therapies and practices. Designed for healthcare professionals, the information found in Alternative Medicine Information is an indispensable tool for answering the growing number of patients' CAM questions and exploring the possibilities.

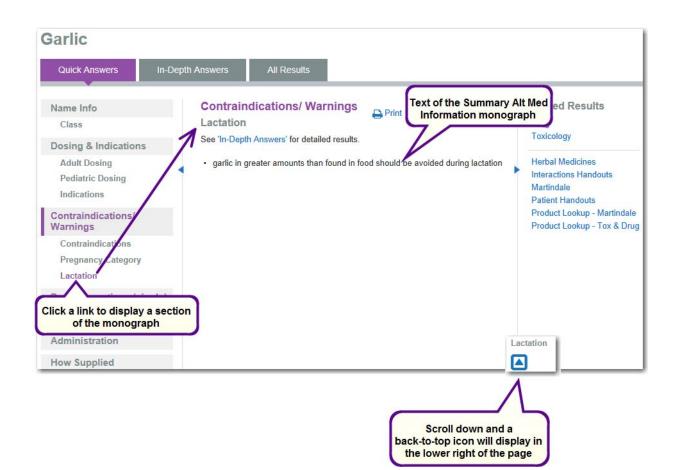
We create a summary monograph and a detailed monograph for each topic. The Summary Alt Med Information monographs support quick decisions at the point of care, and the In Depth Alt Med Information monographs support further research and aid clinicians when making difficult treatment decisions. Because one editorial group creates all the Micromedex content, treatment recommendations are consistent.

This chapter describes the types of alternative medicine information available in Micromedex Solutions. For information on how to search in Micromedex Solutions see <u>"Chapter 3:</u> <u>Searching Micromedex Solutions" on page 13</u>.

SUMMARY ALT MED INFORMATION

Summary Alt Med Information is succinct, actionable at the point-of-care, and designed to get you an answer very quickly. It is displayed on the middle panel of the *Quick Answers* tab on the landing page. The left panel contains links for navigating the sections of the summary monograph. Click on a link to display that section in the middle panel.

For example, a search for "garlic" results in the Garlic landing page being displayed:



Printing

Click the **Print** icon (**Print**) to print the summary monograph. For more details on printing see <u>"Printing" on page 57.</u>

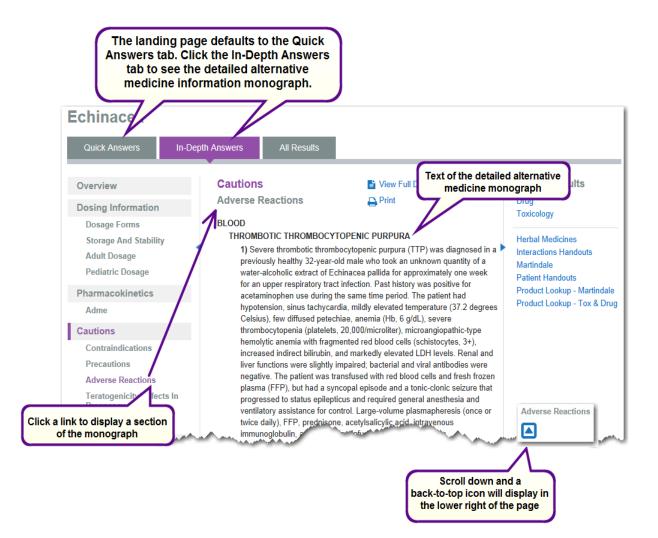
IN DEPTH ALT MED INFORMATION

In Depth Alt Med Information contains the details required to answer more complex questions, and it is clinically consistent with the Summary Alt Med Information.

From the landing page click the **In-Depth Answers** tab, and the detailed alternative medicine monograph is displayed in the middle panel. The left panel contains links for navigating the sections of the detailed monograph. Click on a link to display that section in the middle panel.

For example, a search for "echinacea" results in the Echinacea landing page, which defaults to the *Quick Answers* tab. Click the **In-Depth Answers** tab to view the detailed alternative medicine monograph.





Navigating Document Sections

You can use the following methods to navigate within the detailed document sections:

- Arrow up/down keys
- Page up/down keys
- Browser scrollbar
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.

Viewing the Full Document

ECHINACEA						
Quick Answers	In-Depth Answers	All Results				Click View Full Document to
Overview Dosing Information Dosage Forms Storage And Stability Adult Dosage Pediatric Dosage	 1) old 	Reactions MBOTIC THROMBOCY Severe thrombotic throm male who took an unkno	bocytopenic purpura (TTP) w own quantity of a water-alcoh	B View Full I Print as diagnosed in a previously healthy olic extract of Echinacea pallida for ection, Brest history was positive for	y 32-year-	view the entire detailed monograph.
ECHINACEA Quick Answers	In-Depth Answers	All Results				Click View
Search within Document 0 of 0 results	Q Overview	_	T	🖺 View Docume	ent Sections	Document Sections to return to the panel view.
OVERVIEW A) ECHINACEA B) CLASS: IMMUNOSTIMU	JLANT					Farrer 1000

Navigating the Full Document

When viewing the full detailed monograph you have the following options for moving within the document:

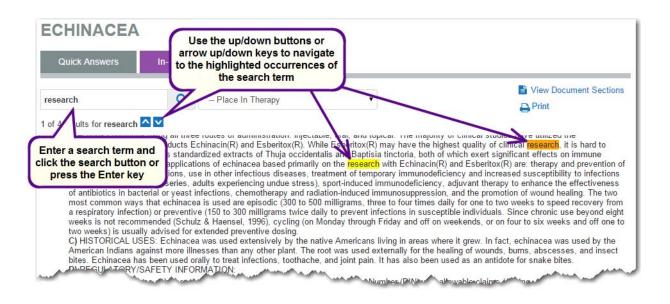
- Arrow Up/Down keys
- Page Up/Page Down keys
- Browser scrollbar
- Drop-down box under the landing page tabs Select a document section from this list to go directly to that section.
- If you move down in the monograph, a back-to-top icon displays in the lower right of the page.



			View Document Sections
 f 0 results S Dosing Information Dosage Forms Storage And Stability Adult Dosage Pediatric Dosa Pediatric Dosa Pediatric Dosa Pediatric Dosa Pediatric Dosa Select a document section from the drop-down list monocytes, and lymphocytes in response to treatment with Mechant et al, 1995), and increased natural killer cell function (See Adverse Effect: decrease Clinical Management: Sin reduced efficacy could be m Should be avoided during az Adverse Effect: decrease Onse: delayed Documentation: poor Probable Mechanism: immune system stimulation by echinacea 	earch within Document Q		Print
reduced efficacy could be m should be avoided during az 4) Severity: moderate 5) Onset: delayed 6) Documentation: poor 7) Probable Mechanism: immune system stimulation by echinacea	DRUG-DRUG COMBINATIONS AZATHIOPRINE 1) Summary: Human studies echinacea (Berg et al, 1998; et al, 1997). Animals treated indicates immunostimulation 2) Adverse Effect: decrease	Dosing Information - Dosage Forms - Storage And Stability - Adult Dosage - Pediatric Dosa Pharmacokinetic - Adme Cautions - Contraindications - Precautions - Adverse Reactive - Teratogenicity Effects In Pregnancy - Drug Interactions	bar or the up/down arrow keys or the Page Up/Page Down keys (Delta and Stresson and
	reduced efficacy could be m should be avoided during az 4) Severity: moderate 5) Onset: delayed 6) Documentation: poor 7) Probable Mechanism: imm	Place In Therapy Mechanism Of Action/ Pharmacology Therapeutic Uses Comparative Efficacy References	

Searching Within a Document

When viewing the full detailed monograph you can search within the document. Simply enter a word or phrase in the search box located below the landing page tabs and click the **search button** or press the **Enter** key. The first occurrence of your search term is highlighted in orange, and subsequent occurrences are highlighted in yellow. Use the **arrow up/down** keys or the **up/down buttons** (



Most Recent Revision

In Depth Alt Med Information contains a *most recent revision date* in the Author Information section.



Printing

Click the Print icon (Print) to print the detailed monograph. This is available when viewing the document sections or the full document. For more details on printing see <u>"Printing" on page 57.</u>

RELATED RESULTS

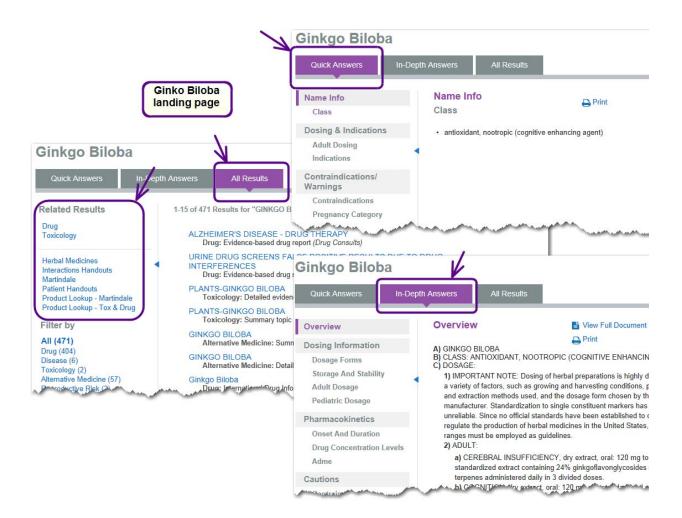
The following related information can be accessed from the landing page:

- <u>Chapter 5: Disease Information</u>
- <u>Chapter 4: Drug Information</u>
- <u>Chapter 6: Toxicology Information</u>
- <u>"Herbal Medicines" on page 125</u>
- <u>"Interactions Handouts" on page 125</u>
- <u>"Martindale" on page 125</u>
- <u>"Patient Handouts" on page 125</u>



CHAPTER 7: ALTERNATIVE MEDICINE INFORMATION

In the following example a search was performed for "ginkgo," and the Ginkgo Biloba landing page is displayed. Links to related results are available in the right panel when viewing the *Quick Answers* and *In-Depth Answers tab* and in the left panel when viewing the *All Results* tab.



Clicking on a link under *Related Results* displays a list of the related documents. Click a title to display the document or landing page.





Herbal Medicines

Herbal Medicines: A Guide for Health-Care Professionals, published by the Pharmaceutical Press, London, UK, presents fully referenced information to assist with the identification, application, safe use, and assessment of commonly found herbal medicines. Its quick, easy-toaccess content addresses pharmacological actions, side effects, contraindications, and safety and efficacy issues.

Interactions Handouts

Alternative Medicine Reactions documents contain easy-tounderstand materials to help you educate patients about potential herbal and dietary supplement interactions. They discuss the potential for interactions between alternative medicines and other drugs, dietary supplements, food, alcohol, and tobacco. Designed to help educate patients, supporting evidence and advice about what to do if experiencing an interaction are included. Related Results
Drug
Toxicology
Clinical Checklist
Disease Other Titles
Emergency Medical Abstracts

Martindale

This content offers extensive, unbiased, evaluated information on worldwide drugs, herbs, and related substances. It provides quick and easy searching for pharmacological and therapeutic data, synonyms, and manufacturers' brand names. For more details see <u>"Martindale: The Complete Drug Reference" on page 239</u>.

Patient Handouts

Alternative Medicine for Patient documents offer fully referenced patient counseling materials, written and peer reviewed by representatives from both conventional Western medicine and the alternative medicine communities. For more details see <u>"Alternative Medicine for Patient" on page 232</u>.

OTHER ALTERNATIVE MEDICINE INFORMATION

In addition to the Summary Atl Med Information and In Depth Alt Med Information and their related documents, all searches in Micromedex Solutions included the following alternative medicine content:

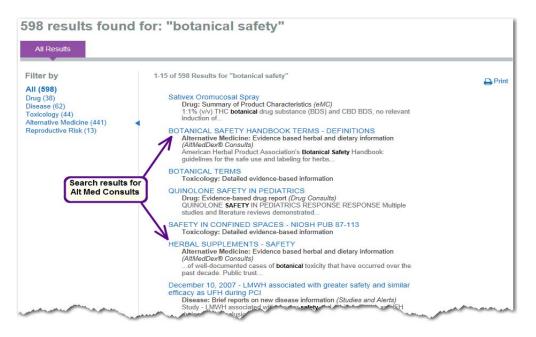
- Alt Med Consults These documents provide crucial information of interest to those needing information on herbal medicines and other dietary supplements. Topics include FDA warnings, pregnancy risk categories, and guidelines on dosing, safety and efficacy issues.
- Alt Med Protocols Alt Med Protocols provide complementary and alternative medicine (CAM) information and recommends methods for successfully blending CAM therapies with conventional medicine to offer patients a full range of options and help optimize their treatment outcomes.

The following examples depict scenarios where these documents are available from the intermediate search results. For more details on intermediate search results see <u>"Intermediate Search Results" on page 54</u>.

Example 1 - Alt Med Consults

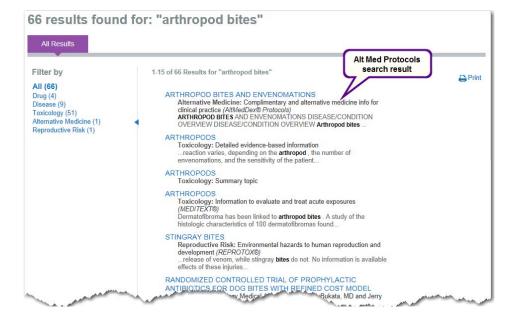
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- 1. Perform a search for "botanical safety."
- There are multiple results for Alt Med Consults documents in the intermediate search results, including the title BOTANICAL SAFETY HANDBOOK TERMS - DEFINITIONS.



Example 2 - Alt Med Protocols

- 1. Perform a search for "arthropod bites"
- The Alt Med Protocol document ARTHROPOD BITES AND ENVENOMATIONS is in the intermediate search results.



CHAPTER 8: LAB INFORMATION

Micromedex® Solutions provides current, accurate, and concise lab information you can use with confidence. It also provides the most critical knowledge presented at the summary level with quick access to more detailed information.

The Lab Recommendations database contains critical information relevant to:

- Physicians
 - Saves time by providing information on which tests are appropriate for a condition or diagnosis. Reduces the dependency on the lab, the library, or reference textbooks.
 - Saves time by providing guidance and information when interpreting test results. Reduces the research time required to consult additional sources of information.
- Nurses
 - Answers questions about proper collection, storage, and administration procedures.
 - Provides information on unfamiliar or rarely administered tests.
 - Enables nurses to find answers to lab-related questions after lab hours or when a lab technician is unavailable
- Lab Personnel
 - Saves time by reducing the number of calls from clinicians
 - Can communicate lab protocols, or reference ranges, or notes specific to your facility
- Pharmacy Personnel
 - Provides information when monitoring patient drug levels, therapeutic levels, and possible side effects related to lab tests

This chapter describes the lab information available in Micromedex Solutions and gives general instructions for how to search for it. For detailed information on how to search in Micromedex Solutions see <u>"Chapter 3: Searching Micromedex Solutions" on page 13</u>.

Searching for Lab Information

Laboratory test information can be found by searching on a test name, a LOINC code, or keyword. Lab Recommendations documents can be accessed from the intermediate search results and from the All Results tab on a landing page. For more details see <u>"Intermediate Search Results" on page 54</u> and <u>"Landing Pages" on page 16</u>.

Searching by Name

The following example depicts the intermediate search results that are displayed when performing a search for "myoglobin." You can click the **Lab** link on the left side of the page to filter the results for only lab information.

418 results found	for: "myoglobin"	
All Results All Results Filter Click the Lab link to filter results for only	1-15 of 418 Results for "myoglobin"	Print
All (41 lab information Drug (1) Disease (7) Toxicology (254) Lab (7) Alternative Medicine (10) Reproductive Risk (3)	Myoglobin measurement Laboratory Test: Detailed evidence-based information (<i>Lab Advisor™</i>) Test Definition Measurement of myoglobin in serum, plasma, or whole blood for the diagnosis and Document section:	commendations results
	February 01, 2007 - BNP testing not recommended for use among ED patients with potential acute coronary syndrome Disease: Brief reports on new disease information (<i>Studies and Alerts</i>) of troponin I, CK-MB, myoglobin , and BNP at presentation and 90 minutes later. Researchers conducted Malignant hyperthermia	
and the second	Disease: Summary topic 12] [13] [13] [13] Man Ji Si Myoolobin measurement write : Myoglobinuria may	

Searching by LOINC Code

On occasions where the LOINC code is known rather than the lab test name, searching by using the LOINC Code may be the most appropriate search term. LOINC® (Logical Observations Identifiers, Names, Codes), is a universal standard for identifying laboratory observations, produced by the Regenstrief Institute.

LOINC is one of a suite of designated standards for use in U.S. Federal Government systems for the electronic exchange of clinical health information.

In 1999, LOINC was identified by the HL7 Standards Development Organization as a preferred code set for laboratory test names in transactions between health care facilities, laboratories, laboratory testing devices, and public health authorities.

1 result foun	d for: "10353-1"
All Results	
Filter by All (1) Lab (1)	1 result found for: "10353-1" Aerobic microbial culture Laboratory Test: Detailed evidence-based information (Lab Advisor™) Bacteria Placenta Aerobe Cult) Code: 10353-1 (Short Name - Bacteria Nose Aerobe Cult) Code: 17910-1 (Short
	Document section: « LOINC codes >

In the following example a search was performed for "10353-1."

Searching by Keyword

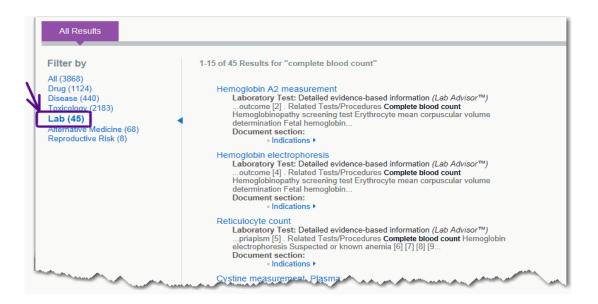
You can also search for lab information using any of the following as your search term:

• Signs and symptoms



- Diagnoses
- Indications
- Any context string that can be found within the summary

In the following example a search was performed on "complete blood count," and then the user clicked the **Lab** link on the left side of the intermediate search results page.



Viewing Lab Information

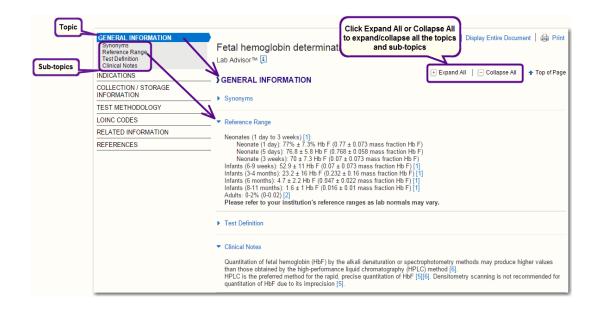
When you click on a Lab Recommendations title in the intermediate search results, the document is displayed at the *General Information* section. You have the following options for moving within the document:

- Outline links on the left side of the page for other topics (and sub-topics)
- · Links to other lab information and other content
- Browser scrollbar
- Arrow Up/Down keys
- Page Up/Page Down keys

Topics Links

All topics with information for this laboratory test are shown as active links in the outline list on the left side of the page. Clicking the link opens the page positioned at the beginning of the selected topic.

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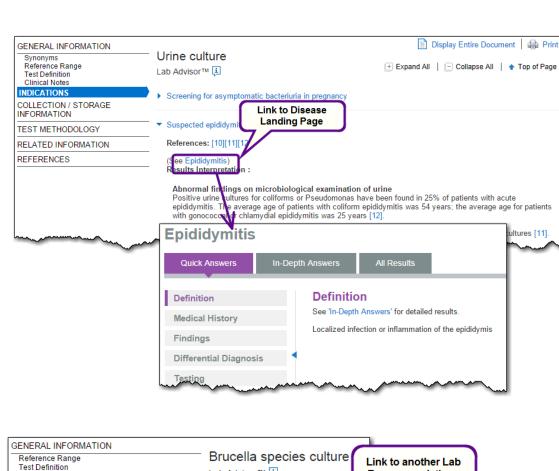


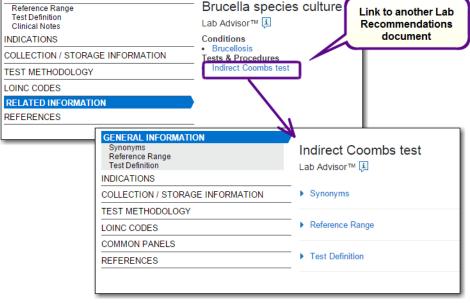
Sub-topics

If sub-topics exist, clicking on the topic link expands the list showing the sub-topics below. Go directly to a sub-topic by clicking the sub-topic link.

Links Within Lab Recommendations

Links shown within the lab summary mean that further or related information exists within Lab Recommendations or in other types of content. Links can also open definitions for items shown in the information, such as: Strength of Evidence, Strength of Recommendation. Click the link to view the information.





Viewing Entire Document

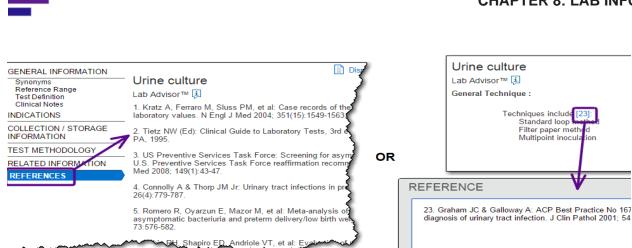
GENERAL INFORMATION Synonyms Reference Range Test Definition Clinical Notes	Urine culture Lab Advisor™ 🕄		Click Display Entire Document to
INDICATIONS	Synonyms	7	view the entire
COLLECTION / STORAGE			monograph.
TEST METHODOLOGY	Reference Range		
RELATED INFORMATION	-		
REFERENCES	Test Definition		
	Clinical Notes		
Urine culture ₋ab Advisor™ 및 GENERAL INFORM	ATION	Display Sections 🖶 Print	Click Display Sections to return to the section view.
Synonyms			
Microbial urine cultu	ire		
Reference Range			
Midvoid clean catch	specimen positive for one or i	J)/mL with mixed bacterial species not detected [1] more bacterial species, measured at counts ≤1000	

References

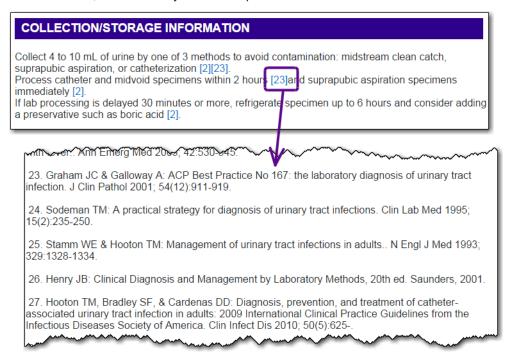
When in the section view you can view the references by clicking on the **References** link in the outline on the left side of the page or by clicking a citation number within the text, which opens a pop-up window containing the reference.

PRI

Filter paper metho Multipoint inocula



When viewing the entire document you can view the references by clicking a citation number within the text, which takes you to that specific reference in the References section.



30. Al-Orifi F, McGillivray D, Tange S, et al: Urine culture fro

31. Hooton TM & Stamm WE: Diagnosis and treatment of u

32. Rosser CJ, Bare RL, & Meredith JW: Urinary tract infect

Last Modified: January 05, 2014

Last Modified Date

Lab Information includes a *last modified date* at the bottom of the Reference section.

Printing

Click the Print icon (Print) to print the monograph. This is available when viewing the document sections or the entire document. For more details on printing see <u>"Printing" on page 57.</u>

CHAPTER 9: REPRODUCTIVE RISK INFORMATION

Reproductive Effects content is an essential tool in supporting patient outcomes in reproductive contexts. It is proven to help identify potential hazards, reduce exposures, prevent possible medical and legal complications, and educate patients to make informed decisions. As a medical counseling tool, the set of databases is the single most comprehensive compilation of reproductive risk information databases available.

Exposures to even common substances can be dangerous. Reproductive Effects in Micromedex® Solutions presents in-depth reviews on full-range health effects of chemicals and substances commonly encountered in the home and workplace.

Reproductive Effects includes the following modules:

- REPROTEXT® Reproductive Hazard Reference: Presents in-depth reviews on fullrange health effects of industrial chemicals commonly encountered in the workplace.
- REPROTOX® Reproductive Hazard Information, from the Reproductive Toxicology Center, Bethesda, MD: Covers the impact of the physical and chemical environment on human reproduction and development.
- Shepard's Catalog of Teratogenic Agents, Developed by Dr. Thomas H. Shepard, Professor Emeritus of Pediatrics, University of Washington, and co-authored by Dr. Janine E. Polifka, Clinical Lecturer of Pediatrics, University of Washington: Contains up-to-date information on teratogenic agents including chemicals, food additives, household products, environmental pollutants, pharmaceuticals, and viruses.
- TERIS Teratogen Information System, developed by the University of Washington: Provides current information on the teratogenic effects of drugs and environmental agents. Agent summaries derived from thorough literature reviews rate reproductive risk and explain data used to determine the rating. Retrieval of agent summaries can be done using domestic, international, generic, and proprietary names.

This chapter describes the reproductive risk information available in Micromedex Solutions and gives general instructions for how to search for it. For detailed information on how to search in Micromedex Solutions see <u>"Chapter 3: Searching Micromedex Solutions" on page 13</u>.

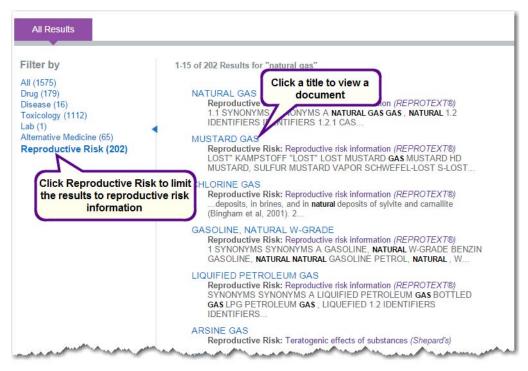
Searching for Reproductive Risk Information

Reproductive risk information documents can be accessed from the intermediate search results and from the All Results tab on a landing page. See <u>"Intermediate Search Results" on page 54</u> and <u>"Landing Pages" on page 16</u>.

The following steps are an example for accessing reproductive risk information:

- 1. Perform a search for "natural gas"
- 2. Click Reproductive Risk on the left side of the intermediate search results page

3. Click a title in the results to view the document



Searching by CAS Registry Number

You can search by CAS Registry Number (unique numerical identifier assigned by Chemical Abstracts Service to every chemical

1.	CHLOROFORM Reproductive Risk: Reproductive risk information (REPROTEXT®) NUMBER CAS REGISTRY NUMBER A 67-66-3 (Chloroform) 1.2.2 NIOSH/RTECS NUMBER NIOSH/RTECS NUMBER
2.	CHLOROFORM Reproductive Risk: Teratogenic effects of substances (Shepard's) Synonyms/Identifiers: Synonyms/Identifiers: CAS 67-66-3 Ruddick et al. (1980) gavaged rats with 100 mg per

substance described in the open scientific literature) to find Reprotext and Shepard's documents. For example, a search for "67-66-3" returns these reproductive risk results.

CHAPTER 10: DRUG INTERACTIONS TOOL

The Drug Interactions tool in Micromedex® Solutions helps with checking for interacting drug ingredients, their effects, and clinical significance.



With the correct information available at the point of care, a significant number of adverse drug events can be prevented. The interactions tool provides instant access to drug-drug, drug-food, drug-ethanol, and drug-lab test reactions.

Some additional features and information presented in drug interactions may depend on your subscription. Customers subscribing to the Complete Drug Interactions will see functionality and links not displayed to subscribers of Standard Drug Interactions. For example, Complete Drug Interactions customers will also see drug-tobacco, drug-pregnancy, drug-lactation, and drug-allergy reactions.



Note: ANVISA (Brazil National Health Surveillance Agency) approved drugs are also available in the Drug Interactions Tool. Interactions for these drugs include: Drug-Drug, Drug-Food, Drug-Ethanol, Drug-Lab, Drug-Tobacco, Drug-Allergy, Drug-Disease, Drug-Pregnancy, Drug-Lactation, General Precautions, and Ingredient Duplication.

SCREENING FOR DRUG INTERACTIONS

A single drug can be checked for all known interactions, or you can screen for interactions for a list of drugs. Patient drug allergies can also be added into the interaction check. Use the *Drug Interactions* page to check for interaction information. Results are grouped by interaction type: drug-drug, drug-food, drug-lab, etc. Interactions found within each type are sorted by severity.

- Contraindicated the drugs are contraindicated for concurrent use
- Major the interaction may be life-threatening and/or require medical intervention to minimize or prevent serious adverse effects
- Moderate the interaction may result in an exacerbation of the patient's condition and/or require an alteration in therapy
- Minor the interaction would have limited clinical effects. Manifestations may include an increase in the frequency or severity of side effects but generally would not require a major alteration in therapy.
- Unknown unknown

Documentation Ratings

The level of documentation available for the interaction is also shown. A complete legend of all documentation ratings is shown at the bottom of the page. Hovering over the rating in the legend opens a pop-up with the full definition. The ratings and their definitions follow:

- Excellent controlled studies have clearly established the existence of the interaction
- Good documentation strongly suggests the interactions exists, but well-controlled studies are lacking
- Fair available documentation is poor, but pharmacologic considerations lead clinicians to suspect the interaction exists; or, documentation is good for a pharmacologically similar drug
- Unknown unknown

Building the Search for Interactions

1. Type the first drug (brand name or generic) in the *Search* field. If you are unsure of the spelling, just type as many characters as you know.



Tip: You can build an interaction search using a brand name, generic name, or herb/ supplement name.

- 2. As you type, the application narrows your search results in the *Matching Drug Names* list based on the characters you have entered. The more characters you type, the more focused the results. The number of matches to the drug name is also updated as you type.
- 3. If the drug you are interested in is listed in the Matching Drug Names list:
 - Click on the drug name and then click the button to add the drug to the Drugs to Check list - or -
 - Press the Enter key (if the drug is shown highlighted in the "Matching Drug Names" column) - or -
 - Double-click the drug name
- 4. Repeat these steps until you have all the drugs you wish to check for interactions in the *Drugs to Check* list.

If you accidentally add a drug in the *Drugs to Check* list, select the drug by clicking it, then remove it from the list by clicking the solution.

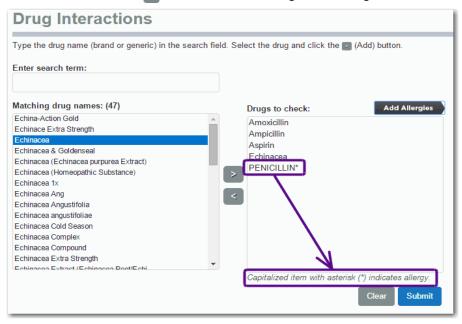
5. Add Allergies Drug Allergies: (Complete Drug Interactions customers only) Patient allergies can be added to the list to screen the drugs against the allergy. Click the Add Allergies button to open the allergy window.



ADD ALLERGIES. Type the allergy in the search field. Select the allergy and Click UPDATE to add your selection(s) to the "Drugs to C Enter allergy: peni	t dick the III(Add) button. /heck" list in Drug Interactions.
Matching allergies: (9) PENICILLIAMINE PENICILLIN G PROCAINE PENICILLIN G PENICILLIN V PENICILLIN, AMINOPENICILLIN PENICILLIN, EXTENDED SPECTRUM PENICILLIN, PENICILLINASE-RESISTANT PENICILLIN, PENICILLINASE-RESISTANT	Allergies to check:
	Cancel Update

6. Type the first drug (brand or generic) in the *Enter Allergy:* field. If you are unsure of the spelling, just type as many characters as you know.

If the drug the patient is allergic to is listed in the *Matching Allergies* list, click on the item and then click the button to add the drug to the *Allergies to Add* list.



7. Repeat this until all patient drug allergies have been added to the allergy list, then click the **UPDATE** button to return to the *Drug Interactions* page. You will notice the allergies entered appear UPPERCASE, with an asterisk (*) in the *Drugs to check* list.

Drug Interactions	
Type the drug name (brand or generic) in the search field	d. Select the drug and click the 🗾 (Add) button.
Enter search term:	
Matching drug names: (2) Xanax Xanax XR	Drugs to check: Add Allergies Amoxicillin Ampicillin Aspirin Echinacea Keflex Warfarin
	Xanax PENICILLIN*
	Capitalized item with asterisk (*) indicates allergy. Clear Submit و ^{ای})

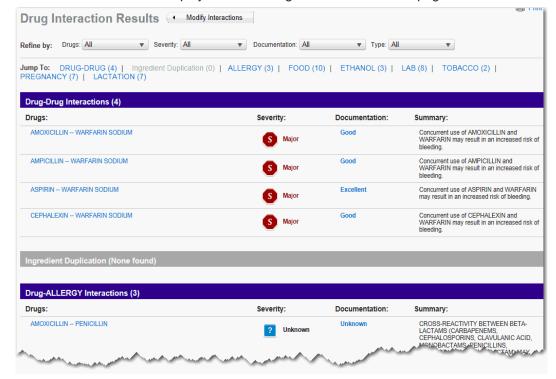
8. When all drugs and allergies to check are in the *Drugs to check* list, click the **Submit** button.

If you want to remove all drugs from the *Drugs to Check* list and start over, click the **Clear** button.



Drug Interactions Search Results

Interaction information is displayed on the Drug Interactions Results page.



Interactions Results

Jump To: DRUG-DRUG (4) | Ingredient Duplication (0) | ALLERGY (3) | FOOD (10) | ETHANOL (3) | LAB (8) | TOBACCO (2) | PREGNANCY (7) | LACTATION (7)

Interactions are grouped by interaction type. Within each interaction type, interactions are shown ranked by severity. Any interaction marked *Contraindicated* is displayed first, followed by *Major*, *Moderate*, and *Minor*. See <u>"Severities" on page 141</u> for the complete list of severities.

The level of the supporting documentation (Excellent, Good, Fair, etc.) behind the interaction is also shown for each interaction listed. See <u>"Documentation Ratings" on page 142</u>.

The summary column displays brief, high-level interaction information.

Severities

Interaction severities are indicated by an icon and one word definition. A complete legend of all severities is shown at the bottom of the page. Hovering over the icon in the legend opens a pop-up window with the full definition. The full definitions follow:

- **Contraindicated** the drugs are contraindicated for concurrent use
- Major the interaction may be life-threatening and/or require medical intervention to minimize or prevent serious adverse effects
- Moderate the interaction may result in an exacerbation of the patient's condition and/or require an alteration in therapy

- Minor the interaction would have limited clinical effects. Manifestations may include an increase in the frequency or severity of side effects but generally would not require a major alteration in therapy.
- 🛛 Unknown unknown

Documentation Ratings

The level of documentation available for the interaction is also shown. A complete legend of all documentation ratings is shown at the bottom of the page. Hovering over the rating in the legend opens a pop-up with the full definition. The ratings and their definitions follow:

- Excellent controlled studies have clearly established the existence of the interaction
- Good documentation strongly suggests the interactions exists, but well-controlled studies are lacking
- Fair available documentation is poor, but pharmacologic considerations lead clinicians to suspect the interaction exists; or, documentation is good for a pharmacologically similar drug
- Unknown unknown

Interaction Details

Complete Drug Interactions subscribers are able to view additional interaction information by clicking the link on the drug name to open interactions details. Additional information may include: clinical management, onset, probable mechanism, literature summaries, and references for this interaction.

I	NTERACTION DETAIL	
	Warning: Concurrent use of AMOXICILLIN and VVARFARIN may result in an increased risk of bleeding. Clinical Management: Concomitant use of amoxicillin and warfarin should be approached with caution as this may result in increased INR and thereby increase the risk for bleeding. When possible, substitute amoxicillin for an antibiotic with a low-risk profile for bleeding. If concomitant use of amoxicilin and warfarin is required, more frequent monitoring of the patient's INR is recommended (Baillargeon et al. 2012), especially during initiation and discontinuation of the antibiotic (Prod Info COUMADIN® oral tablets, intravenous injection powder lyophilized for solution, 2011). In addition, adjust the warfarin dees as needed to maintain the desired anticoagulation level (Prod Info ALIGMENTIN XR® extended release oral tablets, 2010). Onset: Delayed Severity: Major	
	PRINT 🖨 CLOSE 🗙	

Change the list of drugs to search

You can add, change, remove items from the list of drugs to search by clicking the **Modify Interactions** button. All items selected to this point are retained. When changes have been completed, click the **Submit** button to screen interactions based on the updated drug and allergy list Note: Information displayed on the drug interactions results page may depend on your subscription. Customers subscribing to Complete Drug Interactions will see links to additional information about the interaction that is not displayed to subscribers of Standard Drug Interactions.

Refine by

Refine by:	Drugs:	All 🔻	Severity: All	•	Documer	All	•	Type: All
Jump To:	DRUG-DR	Check/uncheck to refine s Check all Uncheck all	ee single Drug Interactions. elected drugs.	ERGY (3)	FOOD (10)	ETHANOL (3)	LAB (8)	TOBACC
Drug-Dru	ıg Interact							
Drugs:		 Aspirin Echinacea 			Severity:		Documenta	tion:
AMOXICI	LIN WARF/	 ✓ Keflex ✓ Warfarin 			S M	lajor	Good	
AMPICILL	IN WARFAF	✓ Xanax ✓ PENICILLIN*			S M	lajor	Good	

The drop-down lists allow you to modify the interactions results to suit your specific needs.

- 1. The *Drugs* drop-down allows you to remove any of the drugs previously selected from the interactions check. De-select (uncheck) any drug you wish to remove, then click the **Update** button.
- 2. The *Severity* drop-down allows you filter interactions by level of severity. De-select (uncheck) any severity you wish to remove, then click the **Update** button.
- 3. By default, all *Documentation* types (Excellent, Good, Fair, and Unknown) are included and shown in the results. To filter by level of documentation de-select (uncheck) any level you wish to remove, then click the **Update** button.
- 4. The *Type* drop-down allows you to filter for specific interaction types only. De-select (uncheck) any interaction type you wish to remove, then click the **Update** button.

Jump To

Interactions are shown grouped by interaction type. Drug-drug interactions are shown first on the page, followed by ingredient duplication, allergy, food, ethanol, lab, tobacco, pregnancy and lactation.

Jump To: DRUG-DRUG (4) | Ingredient Duplication (0) | ALLERGY (3) | FOOD (10) | ETHANOL (3) | LAB (8) | TOBACCO (2) | PREG

The **Jump To** links show at a glance how many interactions of each type exist, and allow you to go quickly to a particular type. Click the link to go immediately to the first entry in the interaction type.

CHAPTER 11: IV COMPATIBILITY TOOL

Use the Trissel's[™] 2 IV Compatibility tool to avoid potentially dangerous drug combinations. When multiple IV medications are combined, the risk of complication is very real. Efficacy of one or more drugs can be reduced or a potentially dangerous incompatibility can occur.

The IV Compatibility Tool provides easy access to Trissel's[™] 2 Clinical Pharmaceutics Database (Parenteral Compatibility) with proven data to support safe decisions for administering injectable drugs in combination. Using information from leading IV compatibility expert, Lawrence Trissel, MS, FASHP, IV Compatibility in Micromedex® Solutions presents compatibility results for parenteral drug combinations.

Home	Drug Interactions	IV Compatibility	Drug ID	Drug Comparison	CareNotes®	NeoFax®	Other Tools ▼
IV Compatibility							

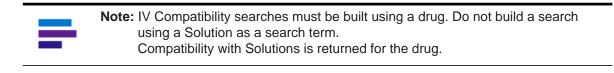
Features

The IV Compatibility tool offers compatibility information for drugs:

- In solution
- Combined via Y-Site
- Combined via Admixture
- Combined via Syringe
- Combined with TPN/TNA solutions

Building an IV Compatibility Search

1. Type the first drug (brand or generic) in the *Enter Search Term:* field. If you are unsure of the spelling, just type as many characters as you know.



2. Matching Drug Names

As you type, the word wheel begins to narrow your search results in the Matching Drug

Names list based on the characters you have entered. The more characters you type, the more focused the results. The number of matches to the drug name is also updated as you type.

IV Compatibility					
Type the drug name (brand or generic) in the search field. Select the drug and click the 🗾 (Add) button.					
Enter search term:					
Matching drug names: (1)	Drugs to check:				
Heparin sodium	Anakinra Cefazolin sodium Furosemide Heparin sodium				
~					
	Clear				

- 3. If the drug you are interested in is listed in the *Matching Drug Names* list, click on the drug and then click the subtron to add the drug to the *Drugs to Check* list.
- 4. If you are looking for compatibility information for a single drug, then click the **Submit** button. However, if more than one drug should be screened, repeat steps one through three until you have all the drugs you wish to check for compatibility in the *Drugs to Check* list.

If you accidentally add a drug in the *Drugs to Check* list, select the drug by clicking it, then remove it from the list by clicking the solution.

5. When all drugs to screen are in the *Drugs to Check list*, click the **Submit** button. If you want to remove all drugs from the *Drugs to Check* list and start over, click the **Clear** button.

Compatibility Search Results

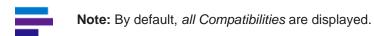
Compatibility results for Y-Site, Admixture, and Syringe are separated onto different tabs, so that you can quickly access the method in which you are interested.



V Compatibility Res	Sults Modify Selections	🖨 Print Key : 💙 🖉 🔔 💡 🚍
All Drugs (4)	Y-Site Admixture Syringe	Compatibility: All
Check all Uncheck all	Y-Site Test Detail	Rating
 Anakinra Cefazolin sodium 	Anakinra - Cefazolin sodium	? Uncertain
 Furosemide Heparin sodium 	Anakinra - Furosemide	- Not Tested
Cancel Update	Anakinra - Heparin sodium	- Not Tested
Tip: To see additional information	Cefazolin sodium - Furosemide	Compatible
on IV Solutions and TPN/TNA compatibility, select a single drug from the list and choose Update.	Cefazolin sodium - Heparin sodium	Compatible
from the list and choose opuate.	Furosemide - Heparin sodium	Caution:Variable

Compatibility is denoted by an icon and simple description. A key at the top of the page lists all compatibility types, and hovering your mouse over the icon will open a pop-up with the full compatibility description. The full descriptions follow:

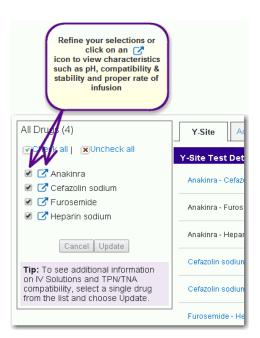
- Compatible All studies showed these items as compatible
- Caution: Variable Study results show IV compatibility is variable
- Incompatible All studies showed these items as incompatible
- Uncertain Study results were inconclusive, compatibility wasn't determined
- Not Tested IV compatibility has not been tested



Modify the Drugs to Include

Remove one or more drugs from the drugs selected for inclusion in the compatibility results.

The drugs included are displayed on the left side of the page. To remove a drug, click the checkbox and then click the **Update** button to update compatibility results for the drugs in the list.





Tip: To view IV Compatibility for one drug (and view Solution and TPN/TNA compatibility) select one substance from the list and click **Update**

The *Compatibility*: drop-down shows all compatibilities selected by default. Remove any compatibility indicator by de-selecting it and clicking the **Update** button.

Modify Drug Selections

To add drugs to a compatibility profile, or to start over from the beginning, click the **Modify Selections** button. You will return to the initial page with the current selections shown in the Drugs to Check column.

View Drugs and Solutions Data

Parenteral drugs and solutions are administered by injection, most often intravenously, but also commonly by intramuscular and subcutaneous injection. To prevent adverse effects, it is important to have access to relevant characteristics of parenteral products, such as pH, compatibility and stability, and proper rate of infusion. This information is critical in making decisions related to the preparation, storage, and administration of parenteral products.

Click on the ⁴ icon next to the drug to view Trissel's drugs and solutions data for that drug. Information may be shown for:

- pH Range
- Formulation
- Reconstitution
- Osmolality
- Storage



- Stability (detailed)
- ...and more

	IV COMPATIBILITY PRODUCT
IV Compa	Trissel's Drugs and Solutions Data Anakinra
All Drugs (4)	Trade Name(s) Kineret
Check all 🗴	Other Name(s) IL-1ra
Cefazolin PH Range (8999) pH 6.5	
Heparin si Cancel	Formulation (8999) Provided as a clear, colorless to white solution in prefilled single-use syringes fitted with 27-gauge needles having latex rubber protective covers. Each syringe contains 0.67 mL of solution, which contains anakinra 100 mg with sodium citrate 1.29 mg, sodium chloride 5.48 mg, disodium edetate 0.12 mg, and polysorbate 80 (Tween 80) 0.7 mg in water for injection. No preservative is present.
Tip: To see addi on IV Solutions a compatibility, sele	Anakinra is a recombinant, nonglycosylated human interleukin-1 receptor antagonist (IL-1Ra) consisting of 153 amino acids produced using an E. coli bacterial expression system.
from the list and	Reconstitution (8999) Anakinra is provided in ready-to-use syringes fitted with 27 gauge needles for subcutaneous administration. No preparation is needed. However, the needles have latex rubber protective covers that should not be handled by individuals sensitive to latex. 👻
	PRINT 🖶 CLOSE 🗙

The information shown in the Trissel's Drug and Solutions Data pop-up can also be printed by clicking on the **PRINT** link or icon.

Y-Site

Results for Y-site compatibility are presented first by default.

Y-Site	Admixture	Syringe	Compatibility:	All
Y-Site Test	Detail		Rating	
Anakinra - C	efazolin sodium	1	�	Uncertain
Anakinra - F	urosemide			Not Tested
Anakinra - H	leparin sodium			Not Tested
Cefazolin so	dium - Furosem	nide		Compatible
Cefazolin so	odium - Heparin	sodium		Compatible
Furosemide	e - Heparin sodiu	ım	<u> </u>	Caution:Variable

Click on the drug pair link to view study details.

Compatibility Details

Compatibility details for multiple drug compatibility tests are shown in a five-column table:

Anakinra	Cefazolin	1		
36mg/mL`in` Normal saline- Sodium chloride 0.9% Synergen	Sodium 15mg/mL'in' Normal saline- Sodium chloride 0.9% Geneva	? Uncertain	Physical Compatibility:Physically compatible. No visible haze or particulate formation, color change, or gas evolution. Chemical Stability:Uncertain stability. Uncertain stability. Anakinra concentrations were erratic possibly due binding with the antibiotic. No loss of cefazolin sodium occurred. Storage:Ambient room temperature about 25	Reference: 2508 Study Period:4 hours. Method:Visual observation and stability- indicating HPLC analyses of drug concentrations. Container:Simulated Y-site administration using glass containers.

- Drug 1 contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the secondary drug name, concentration, and manufacturer's name
- Status lists the compatibility result icon and description
- Information displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination
- **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

Return to the Overview page by clicking the CLOSE link.



Admixture

Click the **Admixture** tab to view results. Overview information for multiple drug admixture compatibility is shown with the associated compatibility icon and description.

Y-Site Admixture Syringe	Compatibility: All
Admixture Test Detail	Rating
Anakinra - Cefazolin sodium	- Not Tested
Anakinra - Furosemide	- Not Tested
Anakinra - Heparin sodium	- Not Tested
Cefazolin sodium - Furosemide	- Not Tested

Click the drug pair link to view study details.

Drug 1	Drug 2	Status	Information	Test Parameters
Cefazolin sodium 10mg/mL Manufacturer Unspecified	Heparin sodium 5000units/mL Manufacturer Unspecified	Compatible	Physical Compatibility:Physically compatibile. No visible haze, precipitation, or color change was reported. Chemical Stability:Chemically stable. Little or no increase in antibiotic loss was found compared to the antibiotic without the heparin present. Storage:Body temperature of 37 °C.	Reference: 2515 Study Period:72 hours. Method:Visual observation, UV spectrophotometry, and HPLC analysis to confirm drug concentrations. Container:Simulated antibiotic- heparin lock in glass test tubes.
Drug 1	Drug 2		admixed drug combination	is intended for use as a lock
Cefazolin sodium	Heparin sodium	solution.		

Admixture compatibility details for multiple drug compatibility searches are shown in a fivecolumn table:

- Drug 1 contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the secondary drug name, concentration, and manufacturer's name
- Status lists the compatibility result icon and description
- **Information** displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination
- **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

Return to the Overview page by clicking the CLOSE link.

Syringe (Complete IV Compatibility customers)

Click the Syringe tab to view results. Overview information for multiple drug syringe compatibility is shown alphabetically by drug name, with the associated compatibility icon and description.

Y-Site Admixture Syringe	Compatibility: All
Syringe Test Detail	Rating
Anakinra - Cefazolin sodium	- Not Tested
Anakinra - Furosemide	- Not Tested
Anakinra - Heparin sodium	- Not Tested
Cefazolin sodium - Furosemide	- Not Tested
Cefazolin sodium - Heparin sodium	Compatible
Furosemide - Heparin sodium	Compatible

Click the drug pair link to view study details.

Drug 1	Drug 2	Status	Information	Test Parameters
C efazolin sodium Igʻin` Reconstituted solution undiluted Boehringer Mannheim	Heparin sodium 2500units/1 mL`in` Undiluted Braun Melsungen	C ompatible	Physical Compatibility:Physically compatible. No visible changes and no change in measured haze. Storage:Room temperature.	Reference: 1053 Study Period:Observation over 5 minutes. Method:Visual observation and nephelometric evaluation. Container:Glass containers.
Drug 1	Drug 2			as an antibiotic-lock solution for
Cefazolin sodium	Heparin sodium	venous ports		
0.5mg/mL`in`	50units/mL`in`	Status	Information	Test Parameters
Sterile water for injection Eli Lilly and Co.	Normal saline- Sodium chloride 0.9% Manufacturer Unspecified	Compatible	Physical Compatibility:Physically compatibile. No visible haze or particulate formation, color change, or gas evolution.	Reference: 9223 Study Period:10 days. Method:Visual observation and microbiological assessment of antibiotic activity

Syringe compatibility details for multiple drug compatibility searches are shown in a five-column table:

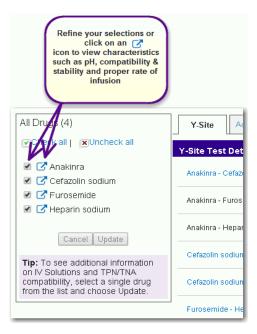
- Drug 1 contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the secondary drug name, concentration, and manufacturer's name
- Status column lists the compatibility result icon and description
- Information displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination

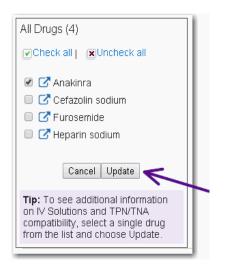


• **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

Single Drug IV Compatibility

Compatibility in Common Solutions and with TPN/TNA therapies is only available when a single drug is selected for consideration. This can be accomplished by building an IV Compatibility profile for one drug, or by de-selecting all but one drug from a compatibility results screen and clicking the **Update** button.





Common Solutions

Solution compatibility is provided for common and other standard IV fluids.

and comparison			
All Drugs (4)	Solution Y-Site Admixture Syringe TPN/TNA	Key : 🕑 🖉 🚹 🔅 🗖 Compatibility: All 🔹	
	Common Solutions Test Detail	Rating Solution Information	
 Anakinra Cefazolin sodium 	D5W (D5W-Dextrose 5%)	- Not Tested	
 C Furosemide C Heparin sodium 	D10W (Dextrose 10%)	- Not Tested	
Cancel Update	D5LR (Dextrose 5% in lactated Ringers)	- Not Tested	
Cancer Opuate	D5NS (Dextrose 5% in sodium chloride 0.9%)	- Not Tested	
	D5W - 1/2 NS (Dextrose 5% in sodium chloride 0.45%)	- Not Tested	
	NS (Normal saline- Sodium chloride 0.9%)	- Not Tested	
	1/2 NS (Sodium chloride 0.45%)	- Not Tested	
	Other Solutions Test Detail	Rating Solution Information	

Common Solutions:

- D5W D5W-Dextrose 5%
- *D10W* Dextrose 10%
- *D5LR* Dextrose 5% in lactated Ringers
- D5NS Dextrose 5% in sodium chloride 0.0%
- D5W 1/2 NS Dextrose 5% in sodium chloride 0.45%
- NS Normal saline sodium chloride 0.9%
- 1/2 NS sodium chloride 0.45%

Where detailed results are available, the solution is shown as an active link. Click the solution link to view the additional information.

References for the information can be found by clicking the numbered link. Close the Compatibility Details by clicking the *Close* link.

Other Solutions can include Dextran, Dextrose, Fat emulsion, Fructose, Isolytes, Lactated Ringer's, to name a few.

Click on a tested solution link to view the compatibility details.



Healthcare Corporation formation, color change, or gas evolution. Method:\/isual observation. Drug 1 Drug 2 Status Information Container:10-mL glass vials. Furosemide D.2mg/mL D5W-Dextrose 5% Information Test Parameters Compatible furosemide loss Status Information Status	Drug 1	Drug 2	Status	Information	Test Parameters
Hoechst-Roussel Baxter Healthcare Corporation haze or particulate formation, color change, or gas evolution. Method:Visual observation. Drug 1 Drug 2 Status Information Container:10-mL glass vials. Drug 1 Drug 2 Status Information Test Parameters Furosemide 0.2mg/mL D5W-Dextrose 5% Image: Chemical Stability:Chemically stable. About 4% furosemide loss occurred in 24 hours. Reference: 1348 Study Period:24 hours Method:HPLC analysis			Compatible	Compatibility: Physically	
Drug 1 Drug 2 Starage:Not specified. vials. Drug 1 Drug 2 Status Information Test Parameters Furosemide 0.2mg/mL D5W-Dextrose 5% Image: Compatible Stability: Chemically compatible Chemical Stability: Chemically stable. About 4% furosemide loss occurred in 24 hours. Reference: 1348 Method:HPLC analysis Study Period:24 hours Method:HPLC analysis	Hoechst-Roussel	Healthcare		haze or particulate formation, color change, or gas	Method:Visual
Furosemide 0.2mg/mL D5W-Dextrose 5% Chemical Stability:Chemically stable. About 4% furosemide loss occurred in 24 hours. Reference: 1348 Method:HPLC analysis Study Period:24 hours. Method:HPLC analysis				Storage:Not specified.	Container:10-mL glass vials.
0.2mg/mL 5% Stability:Chemically Compatible Stability:Chemically stable About 4% furosemide loss occurred in 24 hours. Method:HPLC analysis	Drug 1	Drug 2	Status	Information	Test Parameters
			Compatible	Stability:Chemically stable. About 4%	Reference: 1348 Study Period:24 hours.
					Method:HPLC analysis of drug concentrations.
Storage:Room temperature of 25 °C. Container:Not cited.					Container:Not cited.
Drug 1 Drug 2 Status Information Test Parameters	Drua 1	Drua 2	Status	Information	Test Parameters

Solution compatibility details are shown in a five-column table:

- Drug 1 contains the drug name, the concentration, and the manufacturer's name
- Drug 2 shows the fluid and manufacturer's name
- Status column lists the compatibility result icon and description
- **Information** displays the physical compatibility, chemical stability (if applicable), and storage information
- **Test Parameters** contains a referenced link, the study period, the study methods, and the container information for this particular combination
- **Notes** for the test (if applicable) are shown in red text at the top of the detailed study information

View Drugs and Solutions Data

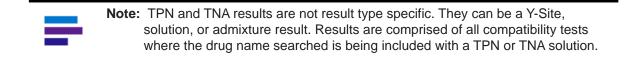
Parenteral drugs and solutions are administered by injection, most often intravenously, but also commonly by intramuscular and subcutaneous injection. To prevent adverse effects, it is important to have access to relevant characteristics of parenteral products, such as pH, compatibility and stability, and proper rate of infusion. This information is critical in making decisions related to the preparation, storage, and administration of parenteral products.

Click on the ⁴ icon next to the drug to view Trissel's drugs and solutions data for that drug.

TPN/TNA Overview

Click to view Trissel's Drugs and Solutions Data for pH, compatibility and stability, and proper rate of infusion, etc.							
IV Compatibility Fesul	ts 🔸 Mo	dify Selectio	ins				-
Selected Drug: 🕑 Cefazolin sodium							
						Key : 🗸	Ø 🔺 🔶 🗖
All Drugs (4)	Solution	Y-Site	Admixture	Syringe	TPN/TNA	Compatibility	r All 🔹
Check all Uncheck all	了 TPN (2	in-1) Test	Detail			F	Rating
C Anakinra C Cefazolin sodium C Furosemide C Heparin sodium	1 mg/mL		following o	composition p ne II 4.25%		n this testing having the	Compatible Solution
Cancel Update	1 mg/mL		following o Amino : Dextros	composition p acids 1.5% (B se 15%	er liter:	d in this testing having the	Compatible Solution
				ixtures probab		n reported for this drug with n drug concentration and TPN	

Overview information for single drug TPN (2-in-1) (total parenteral nutrition) is shown, followed by TNA (3-in-1) (total nutritive admixture) compatibility.



Within each TPN/TNA grouping, the results are sorted alphabetically by TPN or TNA admixture name, with the associated compatibility icon and description, followed by high level notes, including composition of the TPN/TNA, on these tests.

Click the admixture name link to view the details of these tests.

View Drugs and Solutions Data



Parenteral drugs and solutions are administered by injection, most often intravenously, but also commonly by intramuscular and subcutaneous injection. To prevent adverse effects, it is important to have access to relevant characteristics of parenteral products, such as pH, compatibility and stability, and proper rate of infusion. This information is critical in making decisions related to the preparation, storage, and administration of parenteral products.

Click on the 🧌 icon next to the drug to view Trissel's drugs and solutions data for that drug.

TPN/TNA Details





2in1FreAminell	Furosemide	Physical	Reference: 0349	
Compatible Solution	0.04 mg/mL (40 mcg/mL) Hoechst-Roussel	Compatibility:Physically compatible. No visible haze or particulate formation, color change, or gas evolution. Storage:Refrigerated at 4 °C for 22 hours followed by 2 hours equilibrating to room temperature.	Study Period:24 hours. Method:Visual observation and microscopic examination. Container:Glass containers.	
				•
		,	PRINT 🏔 CLOSE	,

CHAPTER 12: DRUG ID TOOL

IDENTIFY DRUGS BY IMPRINT OR PHYSICAL CHARACTERISTICS

The Drug ID tool can assist you in identifying pharmaceutical tablets, caplets, and capsules by any of their physical characteristics such as shape, color, pattern, or imprint code.

Home	Drug Interactions	IV Compatibility	Drug ID
Drug	Identifica	tion	

Micromedex® Solutions for Poison Centers customers can display additional information in the search results, including:

- Excipients
- Regulatory Status
- AAPCC Code
- Availability
- Product ID
- Contact Information

Micromedex® Solutions for Poison Centers customers can also open the toxicologic management for the substance from search results. When an overdose or toxic ingestion or exposure is suspected, this can close the information loop from identification to management.

Micromedex returns a full-color image of the drug whenever possible, with a link to detailed product information.

Poison Center users can find additional information in <u>"Appendix D: Poison Center Integration"</u> on page 273.

Create Your Search

Search by Imprint Code

Type imprint codes in the Side 1 and Side 2 fields. Side order (Side 1 or Side 2) does not matter. A search for Side 1 = 1025 and Side 2 = 93 produces the same match as Side 1 = 93 and Side 2 = 1025.

Both Side 1 and Side 2 are not required. Search on only one imprint code if you are not able to read the second imprint.

Drug Identificatio	n				
Search: by Imprint Code No Imprint Code? Click here to search by Description +					
Side 1:	Partial Imprint				
Side 2:	Partial Imprint				
Clear	Search				

Partial Imprint

There may be times or conditions when you are not sure of the entire imprint code. When this is the case, click the *Partial Imprint* checkbox to perform the search looking for the characters entered anywhere in the imprint code.

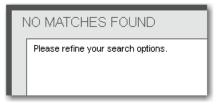
Using the example of Side 1 = mrk and Side 2 = 71 (with the *Partial Imprint* checkbox selected) will find the imprint 71 anywhere in the imprint code; in this case three matches found: MRK 711, MRK 717, and Mrk 717.

Dru	g Identification	
Search:	by Imprint Code No Imprint Code? Click here to search	ch by Description •
Side 1:	mrk	Partial Imprint
Side 2:	71	Partial Imprint
	Clear	

3 Matches for: "mrk, 7	'1"			\$	Sort all Results by: Imprint 🔻
3 Drug Matches for 'M			1 - 3 (0	of 3 matching drugs)	≪First ∢Previous Next⊩ Last⊯
Display: ALL 0-9 A	BCDEF	6 H I J K L M N	O P Q R S	TUVW	X Y Z
Imprint 🔻	Drug Name	Manufacturer	Availability	AAPCC	Poisindex Managements
	Drug Name Singulair	Manufacturer Merck Sharp & Dohme	Availability United States	201078	Poisindex Managements MONTELUKAST
Imprint ▼ MRK 711 Singulair MRK 717 HYZAAR					

Without the *Partial Imprint* checkbox selected, the default Drug ID search looks for *exactly* what is entered as the search term. This means *all* terms and conditions must match to be considered a match. This executes like the Boolean 'AND' search operator.

Using the same example: Side 1 = MRK and Side 2 = 71, but without the *Partial Imprint* checkbox selected, results in "*No Matches Found*", as there are no drugs with the imprint of MRK AND 71.



If only one side is legible, you can search using a single

imprint code. For example, you could search on Side 1 = 71. This search finds all drugs with 71 as an imprint, which may produce a large list of matches.

Logos and Pictures

If the drug has something other than letters or numbers, you can search on the term 'logo'. The example shown here could be found by searching Side 1 = 100 and Side $2 = \log_0$.



Imprint Code Search Results

Search Results Page

All matches found for your search criteria are shown in a search results table. Links to additional information on: drug information, Manufacturer, Availability, and POISINDEX® Managements are available.

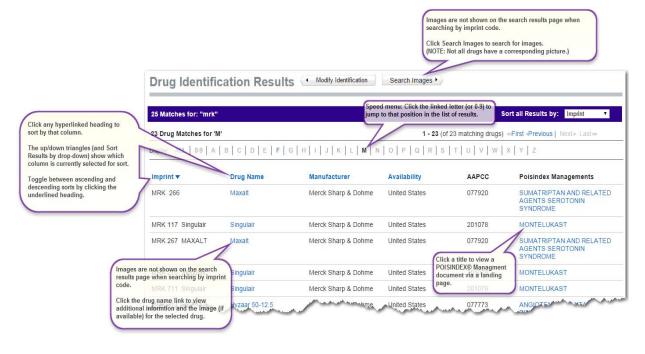
Searching by Imprint will not display any pictures in the search results table. Images may be available on the Drug Info page (see <u>"Viewing Drug Information" on page 163</u>). If you need to

view a picture of the substance to match it to the pill in question, it may be available by searching the Images database. Click the **Search Images** button to search using the same search terms and parameters in the Images database.



Note: Not all substances found through an imprint search will have a corresponding image/picture in the Images database.

If you wish to create a new search, click the **Modify Identification** button to return to the search page.



The results page opens positioned to results that most closely match your term(s). The number of drugs found for that letter (or number 0-9) is shown. You can view imprints matched that begin with other letters by clicking the speed menu letter (or number 0-9). Any letter shown with bold text denotes that a match to that letter was found for the search term.

Search results display sorted alphabetically by the imprint code. The sort order is an alphabetical ascending sort (0-9, A-Z). You can reverse the sort order by clicking on the blue arrow. When the sort order is changed, the direction of the arrow changes.

If more than one page of matches is found, move through the pages using the **<<First**, **<Previous | Next> and Last>>** navigation buttons.



Sort All Results by

You can sort the search results by the Imprint Code, Drug Name, Manufacturer or Availability. Click the *Sort all Results by:* drop-down and select from the list.

Viewing Drug Information

Click a drug name link to open the *Drug Information* page for the substance.

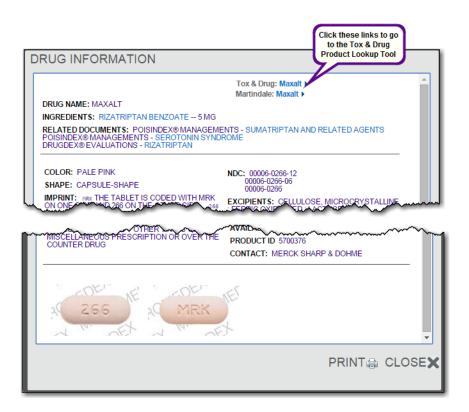
25 Matches for: "mrk"			
23 Drug Matches for 'M'		1 - 23 (of 23 match)	
Display: ALL 0-9 A B C D	E F G H I	J K L M N O P Q	
Imprint	Manufacture	er Availability	
MRK 266 Maxait	Merck Sharp Dohme	& United States	
MRK 117 Singulair Singulair	Merck Sharp Dohme	& United States	
MRK 267 DRUG INFORMATI	ION		
DRUG NAME: MAXALT INGREDIENTS: RIZATRIPT RELATED DOCUMENTS: F POISINDEX® MANAGEMEID DRUGDEX® EVALUATIONS COLOR: PALE PINK SHAPE: CAPSULE-SHAPE IMPRINT: INFX THE TABLE ON ONE SIDE AND 266 ON FORM: COMPRESSED OF AVAILABLE-CONTAINER: OF 6, BOTTLE OF 500	COISINDEX® MANAGEMENT NTS - SEROTONIN SYNDRO 3 - RIZATRIPTAN E T IS CODED WITH MRK T IS CODED WITH MRK T IS CODED WITH MRK THE OTHER SIDE., 266 RAL TABLET SZZE: BOX OF 12 BOX	Tox & Drug: Maxait > Martindale: Maxait > TS - SUMATRIPTAN AND RELATED AGENTS ME IDC: 00006-0266-12 00006-0266 CCIPIENTS: CELLULOSE, MICROCRYSTALLINE FERRIC OXIDE, RED ; LACTOSE MONOHYDRATE) ; MAGNESUM STEARATE STARCH, PREGELATINIZED REGULATORY STATUS: RX	
AAPCC CODE: 077920 - 0 MISCELLANEOUS PRESCI COUNTER DRUG	RIPTION OR OVER THE P		- -

The following information may be displayed on the Drug Information page:

- Drug Name
- Ingredients
- Related POISINDEX® Management
- Color
- Shape
- Imprint
- Route

- Form
- Available Container Size (Packaging information)
- AAPCC Code
- NDC Code
- Excipients
- Regulatory Status
- Availability
- Product ID
- Contact (Manufacturer)
 Information

You can go directly to the *Tox & Drug Product Lookup Tool* (see <u>"Tox & Drug Product Lookup Tool" on page 175</u>) for the selected drug by clicking the link located near the top (right) of the window.

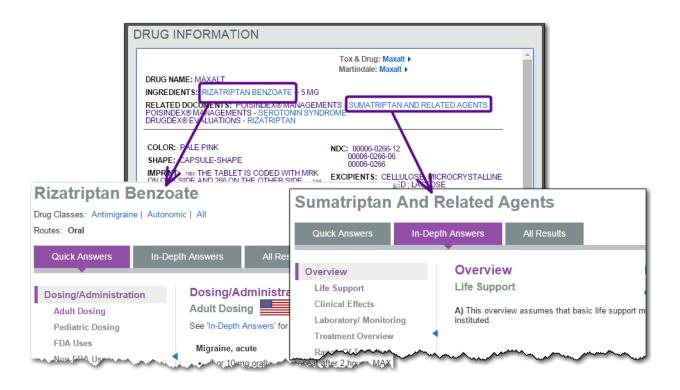


If an image of the pill is available, it is shown at the bottom of the Drug Information page.

You can also link to drug and toxicology landing pages (see "Landing Pages" on page 16).







Print the information or close the page using the links on the bottom right side of the page.

Drug ID by Description - No Imprint Code Available

Drug Identification				
Search: by Imprint Code	No Imprint Code? Click here to search by Description +			
Side 1:	Partial Imprint			
Side 2:	Partial Imprint			
	Clear			

There may be times when no imprint code is available or legible. Click the **No Imprint Code? Click here to search by Description** link to open selection criteria for searching by the physical characteristics of the drug.

Drug Identification							
Search: by Description Click here to search by Imprint Code >							
Black Gold Orange Tan	Blue Gray Pink White	Brown Green Purple Yellow	Clear Off-White	Shape: Pattern:	All Shapes All Patterns Show Images wit	results	
		Clear	Search				

Type or select the known physical characteristics and then click the *Search* button to begin the search for matches to your criteria. Searches on this page execute using the Boolean 'OR' operator.

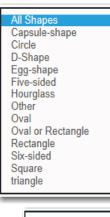
Description

Color

Select from the checkboxes to narrow results to specific colors and color combinations.

Shape

The default selection is to look for substances of all shapes, but you can select a specific shape from any of the shapes shown in the dropdown list.



All Patte Banded

Solid Speckled Striped Two-toned

Unknown



The default selection looks for all patterns, but you can select a specific pattern from any shown in the drop-down list.

If you do not wish to see the full-color images with your results, remove the checkbox selection from *Show Images with Results.*



Tip: Searching by physical characteristics (by Description) uses the Boolean 'OR' operator. This means that a substance that matches *any* checkbox will be considered a match.

To illustrate this, a search selecting Color = Pink; Color = Red, means the search would look for any items that were:



Color = Pink; OR Color = Red; OR Color = Pink and Red



Tip: There may be occasions where a match cannot be found in the Images database, but exists in the Imprints database. If an imprint can be used, return to the imprint search by clicking the *Click here to search by Imprint Code* link.

If you have typed the wrong information or selected parameters in error and wish to begin again, click the **Clear** button to remove all selections and characteristics and start over.

Search Results When Searching by Description

There is no Manufacturer, Availability, or AAPCC information available when searching using descriptive criteria (shape, color, pattern, etc.). If this type of information is what you need, you may be able to find it by performing a search strictly on the imprint code (no description criteria). See <u>"Imprint Code Search Results" on page 161</u> for more information.

If you wish to create a new search, click the **Modify Identification** button to return to the search page.

The total number of matches found for your search term is shown just above the speed menu on the left side of the page. Your search term(s) and all search criteria are displayed.

The results page opens positioned to the first results (numeric or alphabetic). For example, a search for "Square, Orange, Yellow" opens at the beginning of the "0-9" imprints. You can view imprints matched that begin with other letters by using the speed menu. Any letter shown with bold text denotes that a match to that letter was found for the search term. View all results by clicking the **ALL** link.

Search results display sorted alphabetically by the imprint code. The sort order is an alphabetical ascending sort (0-9, A-Z). You can reverse the sort order by clicking on the blue

arrow. When the sort order is changed, the direction of the arrow changes.

	25 Matches for: "Square, All P	atterns, Yellow, Orange"	Sort all Results by: Imprint 🔻			
	3 Drug Matches for '0-9'		1 - 3 (of 3 matching drugs) 44 First 4 Previous Next > Last >>			
	Display: ALL 0.9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z					
	Hide Images Image (US)	Imprint 🔻	Drug Name Speed menu: Click the linked letter (or			
		100 100 100 MJ 796	Desyrel Dividose			
	er the Imprint or the Drug	22 in raised H	Hygroton			
he up/do esults by	ding to sort by that column. wn triangles and 'Sort all ' drop-down show which currently selected for sort.	22 in raised H	Hygroton			

If more than one page of matches is found, move through the pages using the **<<First**, **<Previous | Next> and Last>>** navigation buttons.

Sort All Results by

When results are found in the images data, you can sort results by the Imprint Code or the Drug Name. Click the **Sort all Results by:** drop-down and select from the list.

Click the drug name link to view the details and open the *Drug Information* page for this substance.



	Tox & Drug: Bontril Slow-Release ► Martindale: Bontril Slow-Release ►
DRUG NAME: BONTRIL SLOW-RELEASE	
INGREDIENTS: PHENDIMETRAZINE TARTRATE 1	105 MG
RELATED DOCUMENTS: POISINDEX® MANAGEME DRUGDEX® EVALUATIONS - PHENDIMETRAZINE	NTS - AMPHETAMINES AND RELATED DRUGS
COLOR: GREEN AND YELLOW	NDC: 65234-0047-10
IMPRINT: &; 047	EXCIPIENTS: FD&C YELLOW NO. 6
FORM: EXTENDED-RELEASE CAPSULE	REGULATORY STATUS: SCHEDULE III
AVAILABLE-CONTAINER-SIZE: BOTTLE OF 100	AVAILABILITY: UNITED STATES
AAPCC CODE: 001000 - AMPHETAMINES AND RELATED COMPOUNDS	PRODUCT ID 3035684
	CONTACT: AMARIN PHARMACEUTICALS
	PRINT 🚔 CLOSE

The following information may be displayed in the *Drug Information* page:

- Color
- Shape
- Imprint
- Route
- Form
- NDC Code(s)

You can link to the same information from this Drug Information page as when reaching this page from an imprint search. For more information see <u>"Viewing Drug Information" on page 163</u>.

CHAPTER 13: DRUG COMPARISON TOOL

The number of drugs available today is enormous, and the vast amount of information about these drugs can be mind boggling. Use the **Drug Comparison** tool to harness this information and give you easy access to side-by-side drug information.



Reviewed by experts, Micromedex® Solutions drug information is evidence-based, covers FDA-approved prescription and nonprescription drugs. Areas discussed include dosing, indications, availability (prescription or over-the-counter), black box warnings, pharmacokinetics, cautions, interactions, clinical applications, adverse effects, and comparative efficacy.

View and compare drugs side-by-side with the **Drug Comparison** feature. Compare attributes such as: dosing, administration, indications, contraindications, precautions, adverse effects, and interactions to assist you in making the most informed choice.

Building the Search to Compare Drugs

- 1. Type the drug (brand or generic) in the *Enter Search Term:* field. If you are unsure of the spelling, just type as many characters as you know.
- 2. Matching Drug Names

As you type, the word wheel begins to narrow your search results in the *Matching Drug Names* list based on the characters you entered. The more characters you type, the more focused the results. The number of matches to the drug name is also updated as you type.

If the drug you are interested in is listed in the *Matching Drug Names* list, click on the drug and then click the add button () to add the drug to the *Drugs to Compare* list.

If you add a drug in error, remove it from the list by clicking on the drug, then click the remove button ().

- Related Names
 Results shown in the Matching Drug Names list populate strictly based on the characters used in the search. Results shown in the Related Names list can be:
- The generic name if the search was for a branded or trade name drug
- The brand or trade name if the search was for a generic drug or synonym

• A synonym for the drug name

For example: type 'keflex' in the *Enter Drug Name:* field and the Matching Drug Names list displays: Keflex, and the *Related Names* list populates with: Bio-Cef, Cefalexin, Cephalexin, and Panixine DisperDose.

If the drug you are interested in is listed in the *Related Names* list, click on the item and then click the add button ()) to add the drug to the *Drugs to Compare* list.

Drug Comparison	
Type the drug name (brand or generic) in the search field	d. Select the drug and click the 🕑 (Add) button.
Enter search term:	
Matching drug names: (1)	Drugs to check:
Cuprimine	Amoxapine Amoxicillin Cuprimine
	Clear Submit

4. Repeat steps 2 through 3 until your list of *Drugs to Compare* contains all the items you are interested in viewing. Up to 20 drugs can be compared at a time. When the list is complete, click the **Submit** button to view the information.

Drug Comparison Results

The comparison page displays the information for the topic selected in a side-by-side layout to allow you to quickly compare and contrast the selected



drugs.	
Drug Comparison Results	hange the drugs to compare
Jump To: Top of Page Dosing & Indications Black Box Warning Contraindications/Warn Action/Pharmacokinetics Administration/Monitoring How Supplied Toxicology Amoxapine	
View Detailed information in DRUGDEX +	View Detailed information in DRUGDEX •
Dosing & Indications	Dosing & Indications
Adult Dosing	Adult Dosing
View Detailed information in DRUGDEX •	View Detailed information in DRUGDEX >
Depression: initial, 50 mg ORALLY 2-3 times a day; may increase dosage up to 100 mg 2-3 times a day by end of the first week OR may start with 300 mg/day, but notable sedation may occur during the first few days of therapy	 Bacterial endocarditis; Prophylaxis: (high-risk patient; dental, respiratory or infected skin/skin structure procedures) 2 g ORALLY 30 to 60 minutes prior to procedure (guideline dosing) [2]
Depression: maintenance, usual effective dose is 120-300 mg/day ORALLY; may increase dosage to 400 mg/day after 3 weeks if there is inadequate response and	Chlamydial infection: (pregnant women) 500 mg ORALLY 3 times daily for 7 days (guideline dosing) [3]
hospitalized patients with no history of convulsive seizures may have the dose raised cautiously up to 600 mg/day in divided doses	Ear, nose, and throat infection: mild to moderate, 500 mg ORALLY every 12 hours or 250 mg ORALLY every 8 hours [4]
Endogenous depression: initial, 50 mg ORALLY 2-3 times a day; may increase dosage up to 100 mg 2-3 times a day by end of the first week OR may start with 300 mg/day. but notable sedation may occur during the first few days of therapy	Ear, nose, and throat infection: severe, 875 mg ORALLY every 12 hours or 500 mg ORALLY every 8 hours [4]
Endogenous depression: maintenance, usual effective dose is 120-300 mg/day ORALLY; may increase dosage to 400 mg/day after 3 weeks if there is inadequate response and hospitalized patients with no history of convulsive seizures may have	Gonorrhea, Acute uncomplicated anogenital and urethral infections due to N gonorrhoeae: 3 g ORALLY as a single dose [4]; amoxicillin is NOT recommended for gonorrhea because of resistance [3]
the dose raised cautiously up to 600 mg/day in divided doses Severe major depression with psychotic features: initial, 50 mg ORALLY 2-3 times a day; may increase dosage up to 100 mg 2-3 times a day by end of the first week OR may check with 200 ms of an able sedation may occur during the first few days	 Helicobacter pylori gastrointestinal tract infection: (triple therapy) amoxicillin 1 g ORALLY twice a day in combination with clarithromycin 500 mg ORALLY twice a day and lansoprazole 30 mg ORALLY twice a day for 14 days [4], other standard-dose proton pump inhibitors are acceptable in combination with amoxicillin and clarithromycin [5]
and the second se	Histopheric astroimer and the sape when clarithromycin

Selected Topic

.

The results display the Dosing & Indications topic by default. Click the desired topic link in the *Jump To* area to view other topics available for comparison.

Select another topic by clicking the item in the list.

Topic Outline Section	Description
Dosing & Indications	Can include adult and pediatric dosing information; dose adjustments; and indications (FDA and non-FDA labeled).
Tradenames/How Supplied/Regulatory Status/Generic Availability	Includes: Trade names, synonyms, class, regulatory status, and generic availability. How Supplied information includes: routes, forms, and names. Lists whether a drug is Rx or OTC; and if generics are available.

Topic Outline Section	Description
Black Box Warning	A black box warning (also sometimes called a black label warning) is a type of warning that appears on prescription drugs that may cause serious adverse effects.
Contraindications/ Warnings	Includes contraindications, precautions, pregnancy category, and breast feeding information.
Drug Interactions (Single)	Interactions with the drug to: other drugs, food, ethanol, and labs.
Adverse Effects	Categorized into common and serious adverse affects.
Mechanism of Action/ Pharmacokinetics	Pharmacokinetics can include: absorption, metabolism, excretion, and elimination half life.
Administration/ Monitoring	Information on how to administer the drug; how to monitor the patient while using the drug.

Jump to: Topic links

A topic is a logical area of information. For example, adult dosing and pediatric dosing are subtopics of the Dosing & Indications topic. The topics available are shown as links at the top of the page. Navigate quickly to a topic (or sub-topic) by clicking the link.

Selected Drugs (Display in Column 1 | Display in Column 2)

Click the drop-down to place a different drug in either column. Up to twenty drugs can be selected for a comparison, but only two are shown on the comparison page at any one time.

Hypertext Links

Links shown on the comparison page mean that further information exists. Click the link to view the information. Links shown as numbers within brackets (e.g., [1]) link to the reference or citation for the information. Links can also open definitions for items shown in the summary information (such as, Breast Feeding Categories, Strength of Evidence, Strength of Recommendation, to name a few).

Linked information is presented in its own pop-up box that can be printed if desired.

Modify Your Search

Return to the Drug Comparison home page to change the list of drugs to compare by clicking the Modify Comparison button. You are presented with the drug comparison page, populated with your previous drug selections. Add or change the drugs to compare and then click the **Submit** button to show the drugs side-by-side again.

CHAPTER 14: TOX & DRUG PRODUCT LOOKUP TOOL

Use the Tox & Drug Product Lookup Tool to search for information about:

- Drug products (by brand name, generic, or branded generic)
- Commercial/household products and chemicals (by product name or synonym)
- Other substances including plants and animals (by Latin or common name)
- Slang terms/street names for drugs or substances

The Tox & Drug Product Lookup Tool is accessed from the Micromedex toolbar. Depending on your subscription it may be visible in the toolbar or it my under the Other Tools option.

Home	Drug Interactions	IV Compatibility	Drug ID	Drug Comparison	CareNotes®	NeoFax®	Other Tools ▼
	Danie Dan	duct Look					RED BOOK®
OX &	Drug Pro	duct Look	up				Tox & Drug Product Lookup,
ubstances i	ncluding plants and	and name, generic, or b animals (by Latin or co de), or a valid 7-digit Pro	mmon name), a				1

INFORMATION INCLUDED IN THE TOX & DRUG PRODUCT LOOKUP TOOL

Information on hundreds of thousands of products and substances is gathered into the Tox & Drug Product Lookup Tool. POISINDEX® identifies ingredients for hundreds of thousands of commercial, pharmaceutical, and biological substances. Each substance is linked to one or more treatment/management protocols providing information on clinical effects, range of toxicity, and treatment protocols for exposures involving the substances.

The Tox & Drug Product Lookup allows you to search by:

- Name (see page 176)
- Specific code such as: NDC, CAS, or EPA code (see page 181)
- Valid 7-digit Product ID (see page 184)
- Specific active ingredient in the substance (see page 185)
- Look up AAPCC Codes (available by subscription) shown as a link from the Tox & Drug Product home page (see page 182)

Search results include links to the associated POISINDEX® Management.

Spelling Help

For each type of search if you enter a search term that does not produce results but is similar to a valid search term, you will receive alternative search term suggestions that link to results.

Search for drug products (by brand name, generic, or b slang terms. Search by a specific active ingredient in th		
I want to search for	Enter search term:	
Product or substance names	zarelto	× Submit
O Globally distributed drug products in Martindale		
I want to search by and receive suggestions for	Your search for "zarelto" did not match a	any products or substances.
Product or substance name	Did you mean: xarelto, zarelis, zar	elix, zarelle, zarent
O Codes		
O Product ID		
Active ingredients		

SEARCHING BY PRODUCT OR SUBSTANCE NAME

Select the *Product or substance name* option to search by common product or substance, name or synonym. The application will return results for items where the search term begins with the search term as well as for items where the search term is contained within the name or synonym (or Manufacturer name).

- 1. Leave or select the default search option as: **Product or substance name.**
- 2. Begin typing the name in the *Enter search term* field. The word wheel will populate with matches after you have typed at least three characters.
- 3. Continue to type the entire product name, then click **Submit** (or press the **Enter** key) or -

Type the partial product name, scroll down until you find the item in the list. Click on the item to select it and then click **Submit** - or -

Type the partial product name and click **Submit** (or press the Enter key).

Tox & Drug Product Lookup Results

Matches found for your search are displayed on the Tox & Drug Product Lookup Results page. Poison Center users can find additional information in <u>"Appendix D: Poison Center Integration"</u> on page 273.



D	isplaying results found f	or "Tide"					
es	ults from: United States Other Co	untries Displa	Product/Substance	Names (74) Synony	ms (51) Manufac	cturer Contact Info (1)	Results begin with Results con
es	ults 1 - 50						Page 1 of 2 Go Previous Ne
	Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Document(s)
l.	Tide All Variations	Granular Powder	Procter & Gamble	United States	5992519	013400	SODIUM CARBONATE - POISINDEX® DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX® ENZYME DETERGENTS - POISINDEX®
-	Tide - Clean Breeze	Opaque Liquid	Procter & Gamble	United States	7443643	013401	DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®
3.	Tide Clean Rinse	Liquid	Procter & Gamble	United States	5992486	013401	DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX® ENZYME DETERGENTS - POISINDEX®
ŀ.	Tide Coldwater - Free	Opaque Liquid	Procter & Gamble	United States	7458767	013401	DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®
	Tide Coldwater - Fresh Scent	Opaque Liquid	Procter & Gamble	United States	7448122	013401	DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®
i.	Tide Coldwater Granular Laundry Detergent - Fresh Scent, Glacier	Powder	Procter & Gamble	United States	6736015	013400	SODIUM CARBONATE - POISINDEX® DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX® ENZYME DETERGENTS - POISINDEX®
	Tide Coldwater HE - Free	Opaque Liquid	Procter & Gamble	United States	7455440	013401	DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®
	Tide Coldwater HE - Fresh Scent	Opaque Liquid	Procter & Gamble	United States	7457066	013401	DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®

Modify Search Modify Search

To start a new product or substance search, click the **Modify Search** button. You will be presented with the Tox & Drug Product Lookup home page where you can select the type of search and type your search term(s).

Exporting Search Results

Search results can be exported to a Microsoft® Excel® (.xls) file, or a Comma Separated Values (.csv) file. Select the file type that you want to save the results as from the drop-down menu. A dialog box appears that provides the ability to select the location to which you want to save the file.



Print 🖶 Print

The results page can be printed. Click the **Print** icon to print the current page.

Results from

UNITED STATES | OTHER COUNTRIES

Products and substances are grouped into two categories: **United States and Other Countries.** Products available Worldwide, and products available in the United States and Canada, are also placed into the United States group of results.

Items that fall into the United States category are shown first by default, but you can quickly change the results to products outside of the United States by clicking the Other Countries link shown to the right of the *Results from* display area.

If no products and substances are found for the Other Countries category, the link is disabled.

If no products and substance are found for the United States (and Worldwide) categories, the Other Countries search results are shown and the United States link is disabled.

Display

Product/Substance Names | Synonyms | Manufacturer Contact Info

Matches to search terms are grouped into three categories: **Product/Substance Names (x)**, **Synonyms (x)**, **and Manufacturer Contact Info (x)**. Results in the Product/Substance Names category are shown first by default. Switch the view to any available category by clicking the applicable link. Links to categories with no matches to the search will show a count of zero (0) and are disabled.

		/								
Displaying result	ts found for "carter"	14								
esults from: United Stat	es Other Countries Dis	play: Product/Substance N	ames (6) Synonym	s (3) Manufacture	er Contact Info (30)	R	tesults begin with	Results contain		
lesults 1 - 6	_					P	age 1 of 1 Go ∣ ¶P	Previous Next 🕨		
Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Docu	ment(s)			
1. Carter's Baby Oil	1 Unit	Alpha To Omega	United States	4215855	201009		MOLLIENT - POISI	NDEX®		
2. Carter's Highlighting M	larker	Avery Dennison	United States	5929314	077208	NON-TOXIC II	NGESTION - POISIN	NDEX®		
3. Carters Little Pills [DISCONTINUED]	Displaying results	found for "carter"								1
	Results from: United States	Other Countries Disp	alay: Product/Substan	nce Names (6)	Synonyms (3) Man	ufacturer Contact	Info (30)			
4. Carter's Neat-Flo-Starr	Jump To: ALL 0-9 A Results 1 - 3	. B C D E	F G H I	J K L	M N O	P Q R	S T U V	/ W X Y Page 1 of 1 G	Z o 4 Previous Next)	
	Name	Strength/ Form	Also known as		Country	Product ID	AAPCC Code	Related Documer	nt(s)	
	1. Carter's Baby Oil		Baby Oil, Carter	s	United States	4215855	201009	LAXATIVES-EMC POISINDEX®	LLIENT -	
	2. FELBAMATE		Carter-Wallace 5	54		4579631	201171	FELBAMATE - P	OISINDEX®	
	3. Marks A Lot Comfort Gri Permanent Marker CI Se		results found	for "carter"						
	Permanent warker Cr Se		d States Other Cour	ntries Display	y: Product/Substanc	e Names (6) Syno	onyms (3) Manufac	turer Contact Info (3	0)	
			0-9 A B	C D E	F G H I	J K L	M N O	P Q R S	T U V W	
		Results 1 - 30							Page	e1of1 Go∣∢Previous∣Ne
		Manufacturer				AAPCC Code		Contact		
		1. Carter Horner				077527				
		2. Carter Horner				077527		During an Harris (0	05) 000 (Dhara)	
		3. Carter Horner				077527		Business Hours: (9		
		4. Carter Horner	(Canada)			077527		Business Hours: (9 Business Hours: (9	05) 826-6200 (Phone) 05) 826-0389 (Fax)	
		5. Carter Horner				077527				
		Carter Overto	n			077527				

The type and layout of information displayed varies slightly depending on the link selected. **The Product/Substance Names link displays:**

- Name link to the product information details
- Strength/Form (if applicable)
- Manufacturer
- Country
- Product ID
- AAPCC Code
- Related Documents links to the applicable POISINDEX® Managements



The Synonyms link displays:

- Name link to the product information details
- Strength/Form (if applicable)
- Also known as (product name synonym)
- Country
- Product ID
- AAPCC Code
- Related Documents links to the applicable POISINDEX® Managements

The Manufacturer Contact Info link displays:

- Manufacturer name link to contact information
- AAPCC Code
- Contact information

Results begin with | Results contain

Product or substance names which begin with the search term(s) are shown first by default when both "begin with" and "contain" matches are found. The results display can be quickly switched to results where the search term(s) are *contained* in the product/substance or synonym by clicking the **Results contain** link. The corresponding counts for Products/ Substance Names, Synonyms, and Manufacturer Contact Info are updated when the applicable link (begin with or contains) is clicked.

If either link is shown as disabled (greyed out), it signals that there were no results found for that search condition.



Note: The **Results begin with | Results contain** option is not available when displaying Synonyms or Manufacturer Contact Info.

I	Displaying results found f	or "drano"					
	sults from: United States Other Co	untries Disp	ay: Product/Substance Na	mes (29) Synony	yms (16) Manufa	cturer Contact Info (0)	Page 1 of 1 Go Previous N
	Name	Strength/ Form	Display	Country	Product ID	AAPCC Code	Related Document(s)
1.	Drano Clog Remover	Liquid	SC Johnson	United States	7555787	011284	CORROSIVES-ALKALINE - POISINDEX® HYPOCHLORITES AND RELATED AGENTS - POISINDEX®
2.	Drano Clog Remover Liquid Drain Opener	Liquid	SC Johnson	United States Canada	4293562	011289	CORROSIVES-ALKALINE - POISINDEX® HYPOCHLORITES AND RELATED AGENTS - POISINDEX®
3.	Drano Clog Remover Liquid Drain Opener	Liquid	SC Johnson	United States Canada	6103587	011289	CORROSIVES-ALKALINE - POISINDEX® HYPOCHLORITES AND RELATED AGENTS - POISINDEX®
4.	Drano Dual Force Foamer Clog Remover - Chamber 1	Clear Foam	SC Johnson (Consumer Products)	United States	6734936	011289	CORROSIVES-ALKALINE - POISINDEX® HYPOCHLORITES AND RELATED AGENTS - POISINDEX® DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®
5.	Drano Dual Force Foamer Clog Remover - Chamber 2	Clear Foam	SC Johnson (Consumer Products)	United States	6734944	011289	CORROSIVES-ALKALINE - POISINDEX® HYDROGEN PEROXIDE - POISINDEX®
6.	Drano Dual Force Foamer Clog Remover	Clear Liquid	SC Johnson	United States	7555795	011284	CORROSIVES-ALKALINE - POISINDEX®

Results

The current count and position of the results you are viewing is displayed. Up to 50 per page are shown at any one time.

Page x of x | Go | Previous | Next

The current page of the total number of pages is shown as Page x of x (i.e., Page 1 of 5). To jump to a different page of results, type the page number in the field and then click **Go**.

Jump ahead (or back) one page at a time using the **Next** or **Previous** navigation links.

The Product Page

sults from: United States	s found for "robituss		ance Names (108) Synon	vms (49) Manufa	acturer Contact Info (0) Results begin w
sults 1 - 50	Disp	Troduce Subst	ance Names (100)	ynis (40) Wallan		Page 1 of 3 Go
Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Document(s)
Robitussin Ac	10 MG/5 ML;10 MG/5 ML Solution	00 A.H. Robins	United States	2143462	037701	CODEINE - POISINDEX® ETHANOL - POISINDEX® OPIOID WITHDRAWAL - P CODEINE PHOSPHATE/GU
Robitussin AC (DI)	Robitussin Ac) HOSPHATE/GU
F	POISINDEX [®] Product 📜					
Robitussin Adult Ling Long-Acting Cough						THORPHAN -
Robitussin Adult Peal Relief	Product Document In	formation				DPHEN - DRUG
Relief Robitussin Adult Peal Nighttime Nasal Relie	POISINDEX [®] Manage	ements:	CODEINE ETHANOL OPIOID WITHDRAWAL	_		PHEN - DRUG PHEN - DRUG NIRAMINE - D -RINE - DRUG
Robitussin Alcohol-Fr	DRUGDEX® Evaluati	ions:	CODEINE PHOSPHAT	E/GUAIFENES	IN	INGESTION -
	Regulatory-Status:		Schedule V			IN - DRU
	Ingredients					
	Active-Ingredients:		Codeine Phosphate - 10 Guaifenesin - 100 MG/5			
	Excipients:		alcohol 3.5% Citric Acid FD&C Red No. 40 flavor(s) Glycerin Saccharin Sodium Sodium Benzoate Sorbitol Water			
	Availability & Manufa	cturing				
	A		United States			
	Availability:		Officed States			

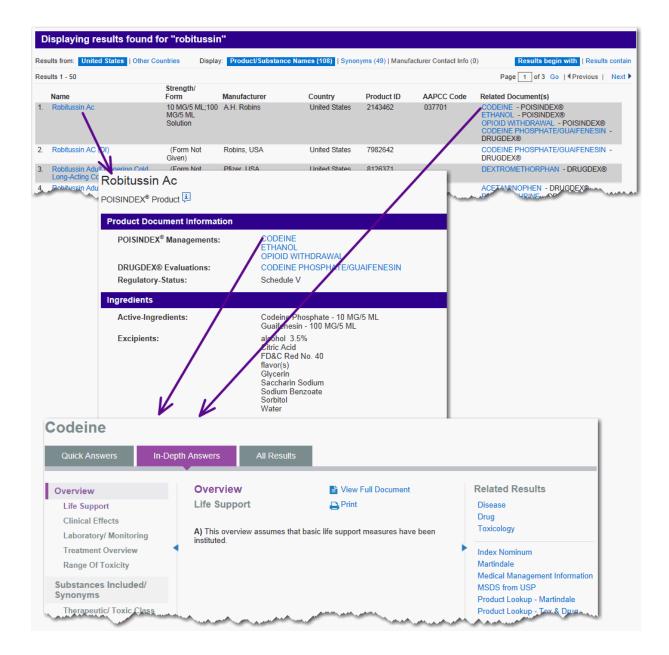
To view product information, click the **Name** link of the desired product. The associated POISINDEX® product page opens.

Information shown on the Product page may include: Ingredients (active ingredients, excipients), Availability & Manufacturing (availability, packaging information), contact, product ID, AAPCC code, registry numbers, Notes, and Physical Description.



Viewing Drug and Toxicology Information

You can link to drug and toxicology landing pages (see <u>"Landing Pages" on page 16</u>) from the search results and from the product page.



Searching by Code

The DRUGDEX® and POISINDEX® products databases can be searched using a code as the search parameter.

AAPCC Codes

Available by subscription, and primarily used by Poison Centers, subscribers can look up a product description by using the *Look up AAPCC Codes* link, shown in the top, right corner of the Tox & Product Lookup page.

Clicking the Look up AAPCC Codes link opens the AAPCC Codes Search page.

AAP	CC Codes					
Enter se	arch term:					
Code	Description					
001000	Amphetamines and Related Compounds					
001811	Unknown Stimulants or Street Drugs					
002000	Other or Unknown Local and/or Topical Anesthetic					
002720	Throat Lozenges with Local Anesthetics					
003000	Anticholinergic Drugs (Excluding Cough and Cold Preparations, and Plants)					
003720	Other Antihistamines Alone (Excluding Cough and Cold Preparations)					
003830	Antispasmodics: Anticholinergic Containing					
003920	Sleep Aids, Over the Counter Only (Excluding Diphenhydramine)					
003921	Cyclobenzaprine					
003922	Carisoprodol (Formulated Alone)					
004000	Arsenic (Excluding Pesticides)					
004562	Arsenic Pesticides					
005000	Long Acting Barbiturates					
006000	Short or Intermediate Action Barbiburates					

Scroll the List

You can review the entire list of codes and definitions by using the scrollbar.

Print the Codes

The complete list of codes and descriptions can be printed for reference. Simply click the Print icon Print to send the printout to your local printer.

Product Code Search

Searchable Codes

NDC (National Drug Codes). The standard code format is 5-digits, 4-digits, 2-digits all separated by a dash (such as: 00220-9313-04). This search is very much like the 'contains' search, therefore searching on: 00220-9313 will return 00220-9313-01, 00220-9313-02, 00220-9313-03, and so on.

CAS numbers (Chemical Abstracts Service). CAS registry numbers standard format is 2- to 6digits, then 2-digits, followed by 1-digit all separated by a dash (such as: 361377-29-9)

DIN codes (Drug Identification Number). DIN numbers can be an 8-digit code, or 5-digits, then 4-digits, separated by a dash (example: 00004588, or 00002-6069).

EPA codes (Environmental Protection Agency codes). Type the code exactly (e.g., 1332-58-7, or 475-237, or 4-30-869).

UPC codes (Universal Product Code). UPC numbers follow no standard format or layout. Be sure to type the code exactly, including spaces, letters, and dashes (for example: 0 49424 13610 0, or XN-1014-3526-3, or 38753 31590).



Other codes that can be searched are: **PCP** (Pest Control Product), **CRN** (California Registry Number), and **Fertilizer Act**.

			Search by AAPCC Codes					
	Tox & Drug Product Looku	р	Look up AAPCC Codes +					
	Search for drug products (by brand name, generic, or branded generic), commercial/household products and chemicals (by product name or synonym), an substances including plants and animals (by Latin or common name), and by slang terms. Search by a specific active ingredient in the substance, by a spe code (such as NDC, CAS, or EPA code), or a valid 7-digit Product ID.							
	 Product or substance names Globally distributed drug products in Martindale 	44	× Submit					
Search I Product Co	by interview of the second s	44-0028-7130-7 (UPC) 44004-0802-02 (NDC) 44004-0802-20 (NDC) 44004-0802-28 (NDC) 44087-0005-7 (NDC) 44087-0006-7 (NDC) 44087-0006-7 (NDC) 44087-0006-7 (NDC) 44087-0006-04 (NDC) 44087-0188-01 (NDC) 44087-0188-01 (NDC) 44087-044-01 (NDC) 44087-044-01 (NDC)						

- 1. Select I want to search by and receive suggestions for... Codes option.
- 2. Begin typing the code for the desired product. The word wheel appears as soon as one digit is typed, showing the first match to the digit(s) typed. As additional digits are typed, the result set narrows.
- 3. Type the entire code and press the **Enter** key or-

Type a partial code and scroll down the list. Click on the desired code to select it, then click **Search**.

Search Results

The information shown on the results page is the same as is shown by default for a Product or Substance Name search. See <u>"Tox & Drug Product Lookup Results" on page 176</u> for a full explanation. However, when searching by codes, viewing: Synonyms or Manufacturer Contact Info, Begins with or Contains view options are not available.

Navigating links to product information and related documents function the same as described for a Product or Substance search. See <u>"The Product Page" on page 180</u> for a full description.

Displaying results found for "100-1075 (EPA)"									
Results from: United States Oth	ner Countries Disp	ay: Product/Substance	e Names (2) Synony	ms (0) Manufa	cturer Contact Info (0))			
Jump To: ALL 0-9 A Results 1 - 2	B C D E	F G H I	J K L M	N O	P Q R S		X Y Z Go ♦Previous Next		
Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Document(s)			
1. Force 3G	Granules	Syngenta Crop Protection	United States	7590684	201046	PYRETHROIDS - PO	ISINDEX®		
2. Force 3g Insecticide	Granules	Syngenta Crop Protection	United States	6204228	201046	PYRETHROIDS - PO	ISINDEX®		

Jump To

All products or substances found for the search are returned on the *Tox* & *Drug Product Lookup Results* page in alphanumeric sort order. Navigate quickly to a product by using the *Jump To* letter link of the product name. For example, click the **G** link to jump to product names that begin with the letter G.

The total number of pages found is shown when the *ALL* Jump To option is selected. When a specific letter is chosen, the number of pages available for the selected letter is displayed.

Product ID Search

Search by 7-digit product ID code.

Tox & Drug Product Lookup	0	Look up AAPCC Code
	non name), and by slang terms.	sehold products and chemicals (by product name or synonym), and other s. Search by a specific active ingredient in the substance, by a specific
I want to search for	Enter search term:	
Product or substance names	53673	× Submit
 Globally distributed drug products in Martindale I want to search by and receive suggestions for Product or substance name Codes Product ID Active ingredients 	5367309 5367316 5367324 5367340 5367358 5367374 5367374 5367382 5367390	

- 1. Select I want to search by and receive suggestions for... Product ID option.
- 2. Begin typing the 7-digit Product ID for the desired product. The word wheel appears when one or more digits have been typed, showing the first match to the digit(s) entered. As additional digits are typed, the result set narrows.
- 3. Type the entire code and press the **Enter** key *or* -

Type the partial product ID, scroll down the list and click to select. Once selected, click **Search.**

Search Results

A single product is returned in the results.



Displaying results found for "5367390"								
Results from: United States Other Countries Display: Product/Substance Names (1) Synonyms (0) Manufacturer Contact Info (0)								
Results 1 - 1						Page 1 of 1 Go		
Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Document(s)		
1. Comet Cleanser With Bleach Regular	Liquid	Prestige Brands	United States	5367390	042280	CORROSIVES-ALKALINE - POISINDEX® HYPOCHLORITES AND RELATED AGENTS - POISINDEX® DETERGENTS AND SOAPS-ANIONIC AND NONIONIC - POISINDEX®		

The information shown on the results page is the same as is shown by default for a Product or Substance Name search. See <u>"Tox & Drug Product Lookup Results" on page 176</u> for a full explanation.

Navigating links to product information and related documents function the same as described for a Product or Substance search. See <u>"The Product Page" on page 180</u> for a full description.

Active Ingredient Search

Tox & Drug Product Lookup	Look up AAPCC Cod
	led generic), commercial/household products and chemicals (by product name or synonym), and other on name), and by slang terms. Search by a specific active ingredient in the substance, by a specific roduct ID.
I want to search for	Enter search term:
Product or substance names	Submit
 Globally distributed drug products in Martindale 	
I want to search by and receive suggestions for Product or substance name Codes Product ID Active ingredients	

- 1. Select I want to search by and receive suggestions for... Active ingredients option.
- 2. Begin typing the ingredient name. The word wheel appears as soon as one character or digit is typed, showing the first match to the information entered. As additional characters or digits are typed, the result set narrows.
- 3. Type the entire ingredient and press the Enter key

- or -

Type the partial ingredient name, scroll down the list and click to select. Once selected, click **Search**

- or -

Type the partial active ingredient name and click Search.

Search Results

The information shown on the results page is the same as is shown by default for a Product or Substance Name search. See <u>"Tox & Drug Product Lookup Results" on page 176</u> for a full explanation. However, when searching by active ingredient, viewing: Synonyms or Manufacturer Contact Info, Begins with or Contains view options are not available.

Results from: United States Othe		play: Product/Substanc				. ,
Jump Io: ALL U-9 A Results 1 - 7	BCDE	FGHI	J K L M		PIQIRI	S T U V W X Y Z
Results 1 - 7						Page 1 of 1 Go ◀ Previous Next
Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Document(s)
1. Bromobenzene				3825613	077260	GENERAL OR UNKNOWN CHEMICAL - POISINDEX® SYMPTOMATIC CHEMICAL INGESTION - POISINDEX® SYMPTOMATIC CHEMICAL DERMAL EXPOSURE - POISINDEX® GENERAL OR UNKNOWN CHEMICAL - MEDITEXT®
2. Bromobenzene		Dow	United States	2488074	077260	SYMPTOMATIC CHEMICAL INGESTION - POISINDEX® SYMPTOMATIC CHEMICAL INHALATION - POISINDEX® SYMPTOMATIC CHEMICAL DERMAL EXPOSURE - POISINDEX®
3. Bromobenzene		Dow	United States	2454116	077260	SYMPTOMATIC CHEMICAL INGESTION - POISINDEX® SYMPTOMATIC CHEMICAL DERMAL EXPOSURE - POISINDEX®
4. Bromobenzene - B-252		Fisher Chemical	United States	3162677	077260	SYMPTOMATIC CHEMICAL DERMAL EXPOSURE - POISINDEX® SYMPTOMATIC CHEMICAL INGESTION NDEX®

Navigating links to product information and related documents function the same as described for a Product or Substance search. See <u>"The Product Page" on page 180</u> for a full description.

Jump To

All products or substances found for the search are returned on the *Tox* & *Drug Product Lookup Results* page in alphanumeric sort order. Navigate quickly to a product by using the *Jump To* letter link of the product name. For example, click the **G** link to jump to product names that begin with the letter G.

The total number of pages found are shown when the ALL Jump To option is selected. When a specific letter is chosen, the number of pages available for the selected letter is displayed.

CHAPTER 15: CALCULATORS

All of the calculators available in Micromedex® Solutions can be found by clicking the **Calculators** toolbar option. Depending on your subscription, it may be visible in the toolbar or it may be under the Other Tools option.

Home	Drug Interactions	IV Compatibility	Drug ID	Drug Comparison	CareNotes®	NeoFax®	Other Tools ▼	
Calcu	lators						RED BOOK®	
View: by category by alphabetical list >								
	E DOSING AND	D <u>DC</u>	SING TOOL	S		ICAL CALCU	Calculators	

The calculators are grouped into logical areas to make it quick and easy to find the calculator you need.

View: by category by alphabetical list >		
ANTIDOTE DOSING AND NOMOGRAMS	DOSING TOOLS	CLINICAL CALCULATORS
 Alcohols/Ethylene Glycol Blood Level Ethanol - IV Dosing for Methanol/Ethylene Glycol Overdose NAC Dosing for Acetaminophen Overdose Toxicity Nomograms LABORATORY VALUES 	 ACLS/PALS Guidelines Dobutamine Dosing Calculator Dopamine Dosing Calculator Epinephrine Dosing Calculator - Adult Epinephrine Dosing Calculator - Pediatric Heparin Dosing Calculator IV Rate Calculator Nitroglycerin Dosing Calculator 	 Alveolar-Arterial Oxygen Gradient MEASUREMENT CALCULATORS Body Mass Index Calculator BSA and Lean/Ideal Body Weight Calculator Metric Conversions Calculator SIU Conversion Calculator
 Anion Gap Calculator Creatinine Clearance Calculator Phenytoin Level Adjustment Calculator 	Nitroprusside Dosing Calculator Norepinephrine Dosing Calculator - Adult Norepinephrine Dosing Calculator - Pediatric	

However, if you want to browse a full alphabetical list of all the calculators, click the **View Alphabetical List** link.

Calculators	
View: by alphabetical list by category >	
 ACLS/PALS Guidelines Alcohols/Ethylene Glycol Blood Level Alveolar-Arterial Oxygen Gradient Anion Gap Calculator Body Mass Index Calculator BSA and Lean/Ideal Body Weight Calculator Creatinine Clearance Calculator Dobutamine Dosing Calculator Epinephrine Dosing Calculator - Adult Epinephrine Dosing Calculator - Pediatric 	 Ethanol - IV Dosing for Methanol/Ethylene Glycol Overdose Heparin Dosing Calculator IV Rate Calculator Metric Conversions Calculator NAC Dosing for Acetaminophen Overdose Nitroglycerin Dosing Calculator Nitroprusside Dosing Calculator Norepinephrine Dosing Calculator - Adult Norepinephrine Dosing Calculator - Pediatric Phenytoin Level Adjustment Calculator SIU Conversion Calculator Toxicity Nomograms

A brief description of each calculator follows.

Antidote Dosing Calculators and Nomograms

Alcohols/Ethylene Glycol Blood Level

Provides levels for a single, acute ingestion.

Calculate the blood levels for: ethanol, methanol, ethylene glycol, or isopropyl alcohol.

Ethanol/IV Dosing for Methanol/Ethylene Glycol Overdose

Options are available to calculate for initiation of therapy, or to adjust a maintenance dose based on plasma level.

NAC Dosing for Acetaminophen Overdose

Calculates acetaminophen overdose treatment based on the patient's weight, including the loading dose and maintenance dose.

Toxicity Nomogram

Calculates the toxicity risk of Acetaminophen. You provide the blood plasma level (and unit measurement: mcg/ml, mg/dcl or SI Units) as well as the time since ingestion of Acetaminophen.

Results can be displayed in graph or table format.

Laboratory Values

Anion Gap Calculator

Enter the sodium, chloride, bicarbonate, and potassium levels to calculate anion gap.

Creatinine Clearance Calculator

This calculator calculates **adult** creatinine clearance, based on the patient's age, current serum creatinine level in mg/dl, and a body weight value (in kg or lb) that has been appropriately adjusted according to the patient's body mass index (BMI). It can also calculate creatinine clearance for **pediatric** patients using length (cm or inches), serum creatinine (mg/dL), and a k constant value, which is based on age (in months or years) and gender. For either patient type, enter all appropriate values as indicated in the entry screen, then click the **Submit** button to generate the results.

Phenytoin Level Adjustment Calculator

Utilized by clinicians to adjust reported serum phenytoin levels in patients that have low serum albumin levels or renal impairment. Hypoalbuminemia and/or renal impairment changes the binding affinity of phenytoin which results in a reported total phenytoin level that is of little value clinically. This calculator estimates what the total phenytoin level would be if the patient did not have these comorbid conditions. Calculates the adjusted Phenytoin Level using current values for: Phenytoin Level (mcg/mL), Albumin (gm/dL) and Creatinine Clearance (mL/min).



Dosing Tools

ACLS/PALS Guidelines

Based on pediatric or adult weight, (in kilograms or pounds) this calculator displays the American Heart Association medication and recommendation guidelines for ACLS/PALS/ neonatal resuscitation.

When printed these tables will automatically have appropriate page breaks and repeating headers. You can configure additional formatting by using your browser's Print Setup (Internet Explorer File-> Page Setup; Chrome Print; Firefox File -> Page Setup).

Dobutamine Dosing Calculator

Calculate based on weight (kg/lb) and the initial dose. Results are in mcg/kg/min with the selected solution.

Dopamine Dosing Calculator

Calculate based on weight (kg/lb) and the initial dose. Results are in mcg/kg/min with the selected solution.

Epinephrine Dosing Calculator - Adult

The adult calculator displays recommendations based on initial dosing and the solution concentration.

Epinephrine Dosing Calculator - Pediatric

The pediatric calculator also factors in the weight (kg/lb) of the pediatric patient.

Heparin Dosing Calculator

Formulates recommendations based on weight (kg/lb) and units/ml.

IV Rate Calculator

Enables clinicians to quickly and easily determine the infusion rate for medications that require complicated calculations. This flexible dosing tool is not specific to a particular drug, but calculates an infusion rate for a variety of medications, dosing options, and solution concentrations.

Nitroglycerin Dosing Calculator

Dosing calculations are for adults only (weight >= 40 kg). Calculations are not based on patient weight. Recommendations can be calculated based on concentration and mcg/min and whether or not the patient is on fluid restriction.

Nitroprusside Dosing Calculator

Calculations are based on patient weight (kg/lb) and mcg/kg/min and the concentration of the solution used.

Norepinephrine Dosing Calculator - Adult

The adult calculator displays recommendations based on initial dosing and the solution concentration.

Norepinephrine Dosing Calculator - Pediatric

The pediatric calculator also factors in the weight (kg/lb) of the pediatric patient.

Clinical Calculators

Alveolar-Arterial Oxygen Gradient

Allows you to calculate the alveolar oxygen concentration and gradient with notes related to the results obtained. You can also determine atmospheric pressure for a specific area or country.

Measurement Calculators

Body Mass Index Calculator

Body Mass Index (BMI) is a calculated value that shows body weight adjusted for height and indicates the weight status in adults. Calculates BMI based on weight (kg/lbs) and height (cm/ in).

BSA and Lean/Ideal Body Weight Calculator

Calculates body surface area and lean/ideal body weight based on age (years or months), weight (kg/lbs), height (cm/in), and sex (male/female).

Metric Conversions Calculator

Provides conversions between Metric and English standard units for many common conversions utilized in clinical practice. The conversions include measurements of weight, length, volume, temperature, and parts per million.

SIU Conversion Calculator

Allows you to calculate and convert amounts based a selected substance and a chosen conversion unit.

CHAPTER 16: RED BOOK ONLINE

Introduction to RED BOOK Online

RED BOOK Online is the essential resource healthcare professionals reach for every day to find the latest drug product pricing and packaging information on prescription and over-the-counter drug products.

By providing all of the drug product pricing and packaging data you need in one source, RED BOOK Online simplifies the identification, analysis, and comparison of drug and non-drug items. RED BOOK Online supports formulary management, cost containment, and drug utilization review, and provides consistent and unbiased Average Wholesale Price (AWP) pricing information for brand name and generic drugs. <u>See "Average Wholesale Price (AWP)</u> <u>Policy" on page 265.</u> for more information on the Truven Health Analytics AWP policy.

RED BOOK Online provides:

- Drug pricing and product information for more than 200,000 active and deactivated drugs
- An intuitive online user interface
- Daily updates to provide the most up-to-date information
- Notification of new pricing information
- Available via the Micromedex® Solutions interface which can provide access to a broad range of clinical decision support tools available from Truven Health.

Searching RED BOOK Online

To begin using RED BOOK Online®, you must first log into the application. Navigate to the URL through which you access RED BOOK Online and log in.

The options displayed on the toolbar will vary depending upon your Micromedex® Solutions subscriptions. RED BOOK Online may be visible in the toolbar or it may be under the Other Tools option.

Click the **RED BOOK Online** toolbar item.

The RED BOOK Online Search page displays.

Home	Drug Interactions	IV Compatibility	Drug ID	Drug Comparison	CareNotes®	NeoFax®	Other Tools ▼		
	RED BOOK Online [®] Search								
		he counter medications, e product or by a specifie				oplies by product i	Formulary	ər. Sea	
I want to s	earch by		Enter searc	:h term:			Calculators		
O Proc	duct Name					Submit			
O Activ	ve Ingredient								
O NDC	C/HRI/UPC								
O Man	ufacturer Name								
I want to fi Status:	lter by								
 Ac 	tive								
O De	eactivated								
O All									
Repacka	igers:								
O Inc	- clude Repackagers								
⊙ Ex	clude Repackagers	5							

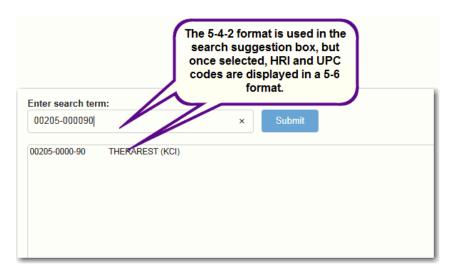
From the RED BOOK Online Search page, you can search by:

- Product Name
- Active Ingredient
- NDC/HRI/UPC Code
- Manufacturer Name

You can also filter your search by status and repackagers. <u>See "Filters" on page 194.</u> for more information.



Note: NDC, HRI, and UPC codes are displayed in two formats within RED BOOK Online. When performing a search by code, the search box displays the code in a 5-4-2 format (e.g., 12345-6789-00) for an NDC, HRI, or UPC code. When an HRI or UPC code is selected from the search box, the code is displayed in a 5-6 format (e.g., 12345-678900). The identifying code has not changed, only the format has changed, as shown below.



On the *RED BOOK Online Search Results* page and *Product Details* pop-up box, NDC codes are displayed in the 5-4-2 format. HRI and UPC codes are displayed in the 5-6 format.

Search Options

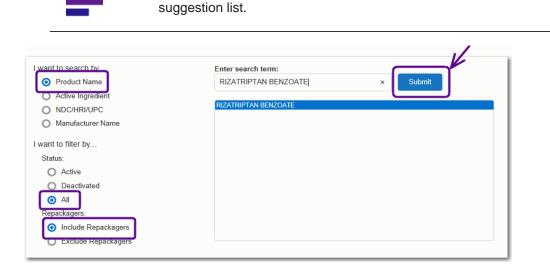
Next, enter the search term you want to use. For the purposes of this guide, the Product Name search will be used in conjunction with the search term *Rizatriptan Benzoate*.

Begin typing in the *Enter search term:* field. As you enter characters into the field, the application makes suggestions based on the characters entered, as shown below.

I want to search by	Enter search term:	
Product Name	ri ×	Submit
O Active Ingredient		
NDC/HRI/UPC	RI-MAG	
0	RI-MAG PLUS	~
Manufacturer Name	RIB BELT UNIVERSAL	
	RIBASPHERE	
I want to filter by	RIBAVIRIN	
Status:	RIBO-100	
O Active	RIBOFLAVIN	
O Active	RIBOFLAVINE SODIUM PHOSPHATE	
 Deactivated 	RIBONUCLEIC ACID	
All	RIBONUCLEIC ACID W/DNA	
Repackagers:	RICE PROTEIN	
Repackagers.	RICE STARCH	
Include Repackagers	RID	~
Exclude Repackagers	RID ADVANCED REMOVAL SYSTEM	

Note: The Submit button will be inactive until a search term is selected from the

The more characters you enter, the more focused the application-based suggestions will be. Highlight the term in the suggestion list on which you want to search and click the **Submit** button.



Note: If you receive a message when performing a search that no results matched the term and options selected, try adjusting your filters (Active/Deactivated/ All or Include/Exclude Repackagers) to see if your search returns different results.

Filters

By default, the "active" filter option will be selected when searching by product name and active ingredient. Active drugs are those that are currently marketed while deactivated drugs are not currently marketed.



The "Exclude Repackagers" option will be selected by default when searching by Product Name or Active Ingredient. Repackagers can be included in the search by selecting the corresponding radio button.

Filter options are not available when searching by Manufacturer or NDC/HRI/UPC.

Understanding RED BOOK Online Search Results

The search results page displays detailed information about your search query. An example search with multiple results is shown below.

RED	RED BOOK Online® Search Results Modify Search										
Displaying results found for "Product Name: RIZATRIPTAN BENZOATE" Applied Filters: Status - All; Repac										Repack	
Results 1	-50 of 51										
Details	Price Nev Chg Pkg	w Product Name ▼]	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code	Code Type	Identifier	Form	Strength
		RIZATRIPTAN BENZOATE	rizatriptan benzoate	A-S MEDICATION SOLUTIONS LLC	Y	Y	EE	NDC	54569-6404-00	TAB	10 mg
		RIZATRIPTAN BENZOATE	rizatriptan benzoate	APOTEX CORP.	N	Y		NDC	60505-3724-01	ODT	10 mg
		RIZATRIPTAN BENZOATE	rizatriptan benzoate	APOTEX CORP.	N	Y		NDC	60505-3723-01	ODT	5 mg
		RIZATRIPTAN	rizatriptan	APOTEX CORP.	N	~~X.,.#	EE	NDC	60505-36*9-01	TAR	.10 mg

Results are displayed in rows, with links to additional information. Data can be re-sorted by most of the column headings.

Search Results Header



At the top of the search results is the search header information. Moving from left to right, the first item displayed is the page title (*RED BOOK Online® Search Results*).

Adjacent to the title is the Modify Search button.



Click the **Modify Search** button to return to the RED BOOK Online search tool and modify your search, or perform a new search either by typing in a new search term or by changing your filter options.

Exporting Search Results

Search results can be exported to a Microsoft® Excel® (.xls) file, or a Comma Separated Values (.csv) file. Select the file type that you want to save the results as from the drop-down menu. A dialog box appears that provides the ability to select the location to which you want to save the file.



Printing Search Results

On the right side of the page is the **Print** icon. Clicking the **Print** icon launches the Windows® Print dialog window and allows you to print your RED BOOK Online search results.



Additional Search Results Information

Below the search results header is the number of results returned for this particular search. In the example shown here, 104 results were found and results 1-50 are displayed on the first page.

Displaying resu
Results 1 - 50 of 51
Details Price New Pr Chg Pkg

On the right side of the page, the number of pages within the search result are displayed.

Page 1 of 2 GO

For this example, page 1 of 2 is being displayed. When the search results contain multiple pages, you can use the **Previous** and **Next** links to page through the search results, or you can enter a page number in the **Page** box and click **GO** to move directly to that page of the results.

Column Headings

Detalls	Price Çhg		Product Name	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code	Code Type	Identifier	Form	Strength	Route	Pkg Size	Unit Dose	WAC Pkg Price	AWP Pkg Price	AWP Unit Price
	\$	*	RIZATRIPTAN BENZOATE	rizatriptan benzoate	HERITAGE PHARMACEUTICALS INC	N	Y	AB	NDC	23155-0245-46	TAB	10 mg	ORAL	18s ea	Y	26.93	598.55	33.25278
	\$	*	RIZATRIPTAN BENZOATE	rizatriptan benzoate	HERITAGE PHARMACEUTICALS INC	N	Y	AB	NDC	23155-0244-46	TAB	5 mg	ORAL	18s ea	Y	26.93	598.55	33.25278
			RIZATRIPTAN BENZOATE	rizatriptan benzoate	A-S MEDICATION SOLUTIONS LLC	Y	Y	EE	NDC	54569-6404-00	TAB	10 mg	ORAL	18s ea	N		612.52	34.02889
			RIZATRIPTAN BENZO TE	rizatriptan benzoate	APOTEX CORP.	N		EE.	NPC	60505-3699-01	TAB.	10.mg	ORAL.	18s ea		149.64	593,55	33.25278

All columns with headings in blue can be sorted in ascending or descending order. Click on the column heading to sort on the column. The display refreshes based on the sort selection with a secondary sort on product name. Click again to reverse the sort order.

The various column headings/items and their function are described in the following table:



Columns on the RED BOOK Online Search Results

Column Name	Description
Details Button	The Details button is related to the checkboxes that correspond to each line item in the search results. Clicking the checkbox for either a single or for multiple products and then clicking the Details button launches the <i>Product Details</i> pop-up box. The <i>Product Details</i> pop-up provides detailed information for the product(s) selected. <u>See "Product Details</u> <u>Search Results" on page 204.</u> for more information.
Price Chg	The Price Chg (price change) column indicates if the selected product has had a price change that is effective within the last 30 days of the date the search was performed.
	 If a price change has occurred within this time window, a dollar sign icon displays. Hovering the cursor over the icon displays the effective date of the price change.
New Pkg	The New Pkg column indicates if the product on which you searched is a new entry in the RED BOOK Online database that became effective within the previous 30 days of the date the search was performed.
	 New entries in the database are indicated by a star icon in this column. Hovering the cursor over the icon displays the effective date of the new entry. New Product 09/15/2014
Product Name	The Product Name column displays the name of all the individual products retrieved by your search. You can click the column header to sort the search results by this column.
Active Ingredient	The Active Ingredient column displays the active ingredient(s) for the product for which you searched. You can click the name of the active ingredient to view other products that contain the same active ingredient, strength, form, and route (See "Searching for Similar Products in RED BOOK Online" on page 199. for more information). Hovering the mouse over the name of the active ingredient displays the information you can view by clicking the link.
	Select this item to see a list of all other drugs with the same active ingredient, form, strength, and route.
	If a product contains more than one active ingredient and you click the name of the active ingredients link, RED BOOK Online will search for other products containing all of the active ingredients specified. If you want to search for other products that contain just one of the active ingredients listed, return to the search page and perform an active ingredient search on that one item.

Column Name	Description
Manufacturer/ Distributor	The Manufacturer/Distributor column displays the manufacturer/ distributor of an individual product in your search results. A single product name can be associated with multiple manufacturers/ distributors.
Rpkg	The Rpkg column indicates whether or not the product is repackaged by the company listed as the manufacturer/distributor. A "Y" indicates that the listed manufacturer/distributor is a repackager of the product. An "N" indicates that the listed manufacturer/distributor is not a repackager.
Generic	The Generic column indicates whether or not the particular line item is a generic product. A "Y" indicates that the product is a generic version. An "N" indicates that the product is not a generic product.
Orange Book Code	If a product has a corresponding Orange Book Code, that code will appear in the Orange Book Code column. Not all products will have an associated Orange Book Code. When there is no associated Orange Book Code, two dashes () will appear in the column. <u>See "Orange</u> <u>Book Codes" on page 271.</u> for more information.
Code Type	The Code Type column identifies the registry listed for the identifier, either NDC; HRI; or UPC. This code type is related to the value that appears in the Identifier column.
Identifier	The Identifier column displays the NDC, HRI, or UPC code that is associated with the item for which you searched.
Form	The Form column displays the dosage form (tablet, solution, syrup, etc.) of a product.
Strength	The Strength column displays the active ingredient strength for the product for which you searched.
	The Strength column is limited to 24 characters. Entries in this field that exceed 24 characters are truncated. A longer description can be viewed on the <i>Product Details</i> page.
Route	The Route column displays the route of administration for the product.
	See "Route Listing" on page 270. for more information.
Pkg Size	The Pkg (package) column displays the quantity of individual items in the package. This quantity is expressed in National Council for Prescription Drug Programs (NCPDP) units (each, grams, milliliters).
Unit Dose	The Unit Dose column indicates if the product retrieved in your search is available in unit dose packaging. A "Y" indicates that the product is available in unit dose packaging. An "N" indicates that the product is not available in unit dose packaging.
WAC Pkg Price	The WAC Pkg Price column displays the Wholesale Acquisition Cost of the package.
AWP Pkg Price	The AWP Pkg Price column displays the Average Wholesale Price per package.
AWP Unit Price	The AWP Unit Price column displays the Average Wholesale Price per unit. <u>See "Unit Price Calculations" on page 266.</u> for information on how unit prices are calculated.



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Note: The default sort order for search results is by the Product Name and then Manufacturer columns. If you sort the results by a different column, Product and Manufacturer become the second and third sort criteria.

Columns for which no data is returned will contain two dashes (--).

Searching for Similar Products in RED BOOK Online

From the *RED BOOK Online Search Results* page, you can perform a secondary query to locate products that contain the same active ingredient(s), in the same strength, form, and route, as a product on which you have already retrieved your primary search. Searching for similar products can be performed from any RED BOOK Online search results page that displays the **Active Ingredient** column.

For this example, a product search for *Children's Benadryl Allergy* has been performed. The **Active** filter and the **Include Repackagers** radio button have been selected. The results displayed are similar to the following:

Results 1	- 6 of 6												Page 1 of	1 Go 📢	Previous	Next
	Price New Product Name Chg Pkg	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code	Code Type	Identifier	Form	Strength	Route	Pkg Size	Unit Dose	WAC Pkg Price	AWP Pkg Price	AWP Unit Price
	CHILDREN'S BENADRYL ALLERGY	diphenhydramine hydrochloride	MCNEIL CONSUMER HEALTHCARE DIV	N	Ν	-	NDC	50580-0535-04	SOL	12.5 mg/5 ml	ORAL	118 ml	N	4.33	5.20	0.0440
	CHILDREN'S BENADRYL ALLERGY	diphenhydramine hydrochloride	MCNEIL CONSUMER HEALTHCARE DIV	N	N	-	UPC	00450-018018	ODT	12.5 mg	ORAL	18s ea	N	4.33	5.20	0.288
	CHILDREN'S BENADRYL ALLERGY	diphenhydramine hydrochloride	MCNEIL CONSUMER HEALTHCARE DIV	N	N	-	NDC	00501-2049-10	SYR	12.5 mg/5 ml	ORAL	5 ml 10s	N	4.33	5.20	0.104
	CHILDREN'S BENADRYL ALLERGY	diphenhydramine hydrochloride	MCNEIL Consumer Healthcare Div	N	N	-	NDC	50580-0534-08	SYR	12.5 mg/5 ml	ORAL	236 ml	N	6.79	8.15	0.034
	CHILDREN'S BENADRYL ALLERGY	diphenhydramine hydrochloride	MCNEIL CONSUMER HEALTHCARE DIV	N	N	-	NDC	50580-0534-04	SYR	12.5 mg/5 ml	ORAL	118 ml	N	4.38	5.26	0.044
	CHILDREN'S BENADRYL ALLERGY	diphenhydramine hydrochloride	MCNEIL CONSUMER HEALTHCARE DIV	N	N	-	UPC	00450-019018	ODT	12.5 mg	ORAL	18s ea	N	4.33	5.20	0.288

Click an active ingredient hypertext link. In this example, the active ingredient is *diphenhydramine hydrochloride*. The *Find Similar Products* pop-up box is displayed.

You are about to submit a search for all items matching these criteria. Active Ingredient: diphenhydramine hydrochloride												
Form:	SOL											
Strength:	12.5 mg/5 ml											
Route:	ORAL											
Status:	Active											
Repackagers:	Include											

The *Find Similar Products* pop-up displays the following information about the product for which you are about to search, including any filters you selected for your search.

- Active Ingredient
- Form
- Strength
- Route
- Status (Active or Deactivated)
- Repackagers (Include or Exclude)

Confirm that the information displayed is the information on which you want to search. After confirming the information, click the **SUBMIT** icon. The *RED BOOK Online Similar Products* search results page displays.

Results 1-27 of 27	ive; Repackagers - Includ							Pag	e 1 of 1 Go ∣ ¶Prev	vious I Next
Details Price New Chg Pkg	Product Name 🔻	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code	Code Type	Identifier	Pkg Size	WAC Unit Price	AWP Unit Price
	ALLERGY CHILDREN'S	CHAIN DRUG MARKETING ASSOC., INC.	Ν	Y	-	NDC	63868-0823-54	118 mi	0.01356	0.016
	ALLERMAX	PFEIFFER PHARMACEUTICALS, INC.	N	N	-	NDC	00927-0617-12	120 ml	-	0.014
	CHILDREN'S BENADRYL ALLERGY	MCNEIL CONSUMER HEALTHCARE DIV	N	N		NDC	50580-0535-04	118 ml	0.03669	0.044
	CHILDREN'S WAL-DRYL ALLERGY	WALGREENS	N	Y		NDC	00363-0379-26	118 ml		
	CHILDREN'S WAL-DRYL ALLERGY	WALGREENS	N	Y		NDC	00363-0101-04	118 ml	-	

The Search Results header displays the query details.

For this example, the **Active Ingredient** searched was diphenhydramine hydrochloride. The **Form** is SOL (solution). The **Strength** is 12.5 mg/5 ml. The **Route** is ORAL. Also displayed are any filters that were applied to the search. In this example, the **Active** status was used and repackagers were included.

The *Similar Product Search Results* page displays much of the same information as any other RED BOOK Online search query (<u>See "Understanding RED BOOK Online Search Results" on page 195.</u>). However, since the active ingredient, form, strength, and route are now the same for all the products in the results set, these criteria are displayed in the Search Results header at the top of the results list to describe the exact search performed.



All columns with headings displayed in blue can be sorted in ascending or descending order. Click on the column heading to sort on the column. The display refreshes based on the sort selection with a secondary sort on product name. Click again to reverse the sort order.

The various column headings/items and their function are described in the table below.

Column	Description
Details Button	The Details button is related to the checkboxes that correspond to each line item in the search results. Clicking the checkbox for single or multiple products and then clicking the Details button launches the <i>Product Details</i> pop-up box (See "Product Details Search Results" on page 204.). The <i>Product Details</i> pop-up box provides detailed information for the product(s) selected.
Price Chg	The Price Chg (price change) column indicates if the selected product has experienced a price change effective within the last 30 days of the date the search is performed. S If a price change has occurred within this time window, a dollar sign icon displays. Hovering the cursor over the icon displays the date the price change became effective.
	The onlinge cartozort
New Pkg	The New Pkg column indicates if the product on which you searched is a new entry in the RED BOOK Online database that became effective within the previous 30 days of the date the search was performed. New entries in the database are indicated by a star icon in this column. Hovering the cursor over the icon will display the effective date of the new entry.
	lew Product 09/15/2014
Product Name	The Product Name column displays the name of all the individual products retrieved by your search. You can click the column header to sort the search results by this column. When the results are initially displayed in response to your search, they are sorted by this column.
Manufacturer/ Distributor	The Manufacturer/Distributor column displays the manufacturer/ distributor of an individual product in your search results. A single product name may be associated with multiple manufacturers/ distributors. <u>See "Manufacturer Product List Search Results" on page 202.</u> for more information.
Rpkg	The Rpkg column indicates whether or not the product is repackaged by the company listed as the manufacturer/distributor. A "Y" indicates that the listed manufacturer/distributor is a repackager of the product. An "N" indicates that the listed manufacturer/distributor is not a repackager.
Generic	The Generic column indicates whether or not the particular line item is a generic product. A "Y" indicates that the product is a generic version. An "N" indicates that the product is not a generic product.

Column	Description
Orange Book Code	If a product has been assigned an Orange Book Code, that code will appear in the Orange Book Code column. Not all products will be associated with an Orange Book Code. When there is no associated Orange Book Code, two dashes () will appear in the column. <u>See</u> <u>"Orange Book Codes" on page 271.</u> for more information.
Code Type	The Code Type column identifies the registry listed for the identifier, either NDC; HRI; or UPC. This code type is related to the value that appears in the Identifier column.
Identifier	The Identifier column displays the NDC, HRI, or UPC code that is associated with each individual line item retrieved in your search.
Pkg Size	The Pkg (package) column displays the quantity of individual items in the package. This quantity is expressed in National Council for Prescription Drug Programs (NCPDP) units (each, grams, milliliters).
WAC Unit Price	The WAC Unit Price column displays the Wholesale Acquisition Cost per unit.
AWP Unit Price	The AWP Unit Price column displays the Average Wholesale Price per unit. <u>See "Unit Price Calculations" on page 266.</u> for information on how unit prices are calculated.



Note: Columns for which no data is returned will contain two dashes (--).

In addition to the information displayed, the *Similar Products Search Results* page provides the ability to view detailed product information; export the search results and save them to your computer; or to print your search results. This is the same functionality that is present on the main *RED BOOK Online Search Results* page.



Note: If only one item meets the search criteria, you will receive the following message: "There were no additional items found for this search."

Manufacturer Product List Search Results

The Manufacturer search option enables you to view products in the RED BOOK Online data from a selected manufacturer.

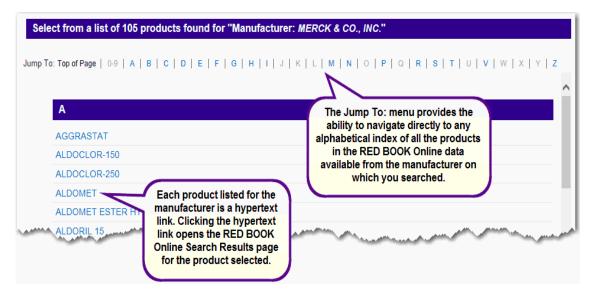


RED BOOK Online[®] Search

		Go to Custom List Manager >
	dications, nutraceuticals, bulk chemicals, medical devices or supplies r by a specific code (such as NDC, UPC, or HRI).	by product name or manufacturer. Search
I want to search by	Enter search term:	
O Product Name	mer ×	Submit
 Active Ingredient 		
NDC/HRI/UPC Manufacturer Name	MERCK & CO., INC. MERCK SHARP & DOHME CORP.	

Using the Manufacturer Name search option, RED BOOK Online displays a list of names for products manufactured or distributed by the company for which you searched.

In the example provided, a search has been performed for Merck & Co, Inc. An alphabetized listing of the name of each product (in the RED BOOK Online database) manufactured by Merck & Co, Inc. is returned. Each product name listed for the manufacturer is displayed as a hypertext link.



At the top of the page is the **Jump To:** menu. This menu provides the ability to navigate directly to an alphabetical index of all of the product names in the RED BOOK Online data available from the manufacturer for which you searched. Letters in the menu that are blue are hypertext links. When clicked, the hypertext link moves you down the page to the corresponding entries. Letters in the menu that are gray are not hyperlinks and indicate that there are no product names in the list of results that begin with that letter.

Additionally, each product listed in the index of products from the manufacturer is a hypertext link. Clicking the hypertext link opens the *RED BOOK Online Search Results* page for the product name selected. For example, performing a manufacturer search for Merck & Co, Inc.

and then clicking the hyperlink for the product name **Aggrastat** would return the following *RED* BOOK Online Search Results page.

Results 1 -	-3 of 3												Page	l of 1	Go <	Previous	Next
	Price Ne Chg Pk	ew Product Name v g	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code		Identifier	Form	Strength	Route	Pkg Size	Unit Dose	WAC Pkg Price	AWP Pkg Price	AWP Unit Price
		AGGRASTAT DEACTIVATED	tirofiban hydrochloride	MERCK & CO., INC.	Ν	Ν		NDC	00006-3713-50	SOL	0.25 mg/ml	INTRAVENOUS	50 ml	N	396.96	496.20	9.924
		AGGRASTAT DEACTIVATED	tirofiban hydrochloride	MERCK & CO., INC.	N	N		NDC	00006-3713-25		0.25 mg/ml	INTRAVENOUS	25 ml	N	198.48	248.10	9.924
		AGGRASTAT DEACTIVATED	tirofiban hydrochloride	MERCK & CO., INC.	N	Ν		NDC	00006-3739-43	SOL	0.05 mg/ml	INTRAVENOUS	500 ml	N	700.00	840.00	1.680

The Manufacturer search results can be saved as a Microsoft® Excel® (.xls) file or a Comma Separated Values (.csv) file by selecting one of the two options from the **Export** drop-down menu at the top of the page. Additionally, you can print the results by clicking the **Print** icon in the upper right corner of the page.



Note: Columns for which no data is returned will contain two dashes (--).

Product Details Search Results

RED BOOK Online® provides the ability to view detailed information for single or multiple products.



You can access the detailed product information from the *RED BOOK Online Search Results* page.

Displaying res	sults found	for "Prod	uct Name: HUN	IALO	9 G "	Applie	d Filte	ers: Status - A	All; Ro
Details Price New Chg Pkg	Product Name •	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code		Identifier	For
	HUMALOG	insulin lispro, recombinant	A-S MEDICATION SOLUTIONS LLC	Y	N		NDC	54569-6435-00	SU
	HUMALOG DEACTIVATED	insulin lispro, recombinant	DISPENSEXPRESS, INC.	Y	N		NDC	68115-0746-10	SU
	HUMALOG DEACTIVATED	insulin lispro, recombinant	DISPENSING SOLUTIONS, INC	Y	N		NDC	55045-3602-01	SU
	HUMALOG	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-7510-01	SU
	HUMALOG	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-8799-01	SU
	HUMALOG	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-7510-17	
	HUMALOG	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-7516-59	4
	HUMALOG	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-7516-01	su
	HUMALOG DEACTIVATED	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-7515-59	SU
	HUMALOG	insulin lispro, recombinant	LILLY, ELI & COMPANY	N	N		NDC	00002-8799-59	SU
	HUMALOG	insulin lispro, recombinant	PHYSICIANS TOTAL CARE	Y	N		NDC	54868-5108-00	SU
	HUMALOG	insulin lispro, recombinant	QUALITY CARE PRODUCTS, LLC	Y	N		NDC	35356-0102-00	su

Click the checkbox(es) to view detailed information for a single or multiple products.

You can select the checkbox directly beneath the **Details** button to view detailed information for all items displayed on this page.

Select the product name hypertext link to display the details for a single product.

For this example, four (4) products were selected. After selecting the checkboxes, the **Details** button was clicked.

The Product Details pop-up box displays:

Produ	ct Informa	ation		3 2 0	of 4 🕑			results when cts are viewed.
Produ	ct Name:		HUMALOG		Code:			
Active	Ingredient	t(s):	insulin lispro, i	recombinant	Identifier:		000	02-7510-01
Manuf	acturer/Dis	stributor:	LILLY, ELI & O	COMPANY	Unit Dose:		N	
Form:			SUSPENSION	N	Single Sourc	e:	N	
Streng	jth:		100 u/ml		Repackager:		N	
Size:			10 ml		Generic:		N	
	of Admin:		SUBCUTANE	OUS	Add'l Descrip	otion:	(VIA	L)
Orang DEA C	e Book Co	de:	 RX					
Curre	-	-	tion: Effective	AWP Unit Effective	Pricing Hist	ory: %	J-Code	is:
	Package	Unit	Effective Date	Effective Date	Unit	% Change	J-Code	PER 5 UNIT
AWP	Package 221.16	Unit 22.11600	Effective Date 06/05/2014	Effective Date 06/05/2014	Unit 22.11600	% Change 9.9	J1815	PER 5 UNIT
AWP WAC	Package 221.16 184.30	Unit 22.11600 18.43000	Effective Date 06/05/2014 06/05/2014	Effective Date 06/05/2014 12/12/2013	Unit 22.11600 20.12400	% Change 9.9 9.7	J1815 J1817	PER 5 UNIT PER 50 UNI
AWP	Package 221.16 184.30	Unit 22.11600 18.43000	Effective Date 06/05/2014	Effective Date 06/05/2014	Unit 22.11600 20.12400	% Change 9.9 9.7	J1815	PER 5 UNIT PER 50 UNI
AWP WAC	Package 221.16 184.30	Unit 22.11600 18.43000	Effective Date 06/05/2014 06/05/2014	Effective Date 06/05/2014 12/12/2013	Unit 22.11600 20.12400 18.34800	% Change 9.9 9.7	J1815 J1817	PER 5 UNIT PER 50 UNI
awp Wac Dir	Package 221.16 184.30 184.30	Unit 22.11600 18.43000 18.43000	Effective Date 06/05/2014 06/05/2014 06/05/2014	Effective Date 06/05/2014 12/12/2013 07/26/2013	Unit 22.11600 20.12400 18.34800	% Change 9.9 9.7 8.9	J1815 J1817	PER 5 UNIT PER 50 UNI
AWP WAC DIR FUL	Package 221.16 184.30 184.30 Click	Unit 22.11600 18.43000	Effective Date 06/05/2014 06/05/2014 06/05/2014 	Effective Date 06/05/2014 12/12/2013 07/26/2013 12/28/2012	Unit 22.11600 20.12400 18.34800	% Change 9.9 9.7 8.9	J1815 J1817	PER 5 UNIT PER 50 UNI

Detailed information for each product is shown. When more than one product was selected, navigation to the other products is accomplished using the right and left arrows at the top of the pop-up.

When more details are available, the **More>** link is presented. Click the link to view the additional information.

The *Products Detail* page is divided into two sections. The upper section of the page displays the following information:

Product Details Information

Field Name	Description
Product Name	This field displays the name of the product selected. If the product is not currently marketed its "deactivated" status is displayed directly underneath the product name.
Active Ingredient(s)	The active ingredient(s) for the product is/are displayed.
Manufacturer/Distributor	The manufacturer/distributor of the product is displayed.
Form	The dosage form for the product is displayed. For more information on dosage forms, <u>See "Dosage Form</u> <u>Descriptions" on page 267.</u>
Strength	The product strength, when applicable, is displayed. This field is limited to 75 characters.



Size	The package quantity, volume, or mass is displayed.
Route of Admin	The route of administration for the product is displayed.
Orange Book Code	When applicable, the corresponding Orange Book Code for the product is displayed.
DEA Class	The Drug Enforcement Agency (DEA) classification code is displayed.
Code	The Code Type column identifies the registry listed for the identifier, either NDC; HRI; or UPC.
Identifier	The identifying code itself (NCD, HRI, or UPC) is displayed.
Unit Dose	The Unit Dose field indicates if the product retrieved in your search is available in unit dose packaging. A "Y" indicates that the product is available in unit dose packaging. An "N" indicates that the product is not.
Single Source	Single source "Y " identifies the product as a drug formulation generally available from only one source. If the single source field contains an "N" the product is available from more than one source. In those occasional instances when branded products are
	cross-licensed, each product carries the single-source indicator.
Repackager	The Repackager field indicates whether or not the product is repackaged by the company listed as the manufacturer/ distributor. A "Y" indicates that the listed manufacturer/ distributor is a repackager. An "N" indicates that the listed manufacturer/distributor is not.
Generic	The Generic field indicates whether or not the particular line item is a generic product. A "Y" indicates that the product is a generic version. An "N" indicates that the product is not a generic product.
Add'l Information	Additional information about the product, when it is available, is displayed in this field.

The lower section of the page displays the following information (<u>See "RED BOOK Online</u> <u>Terms and Definitions</u>" on page 271. for acronym definitions):

- **Current Pricing Information** When available, this section of the page displays AWP, WAC, DIR, FUL, and SRP pricing information. This information is displayed by Package, Unit, and Effective Date.
- **AWP Unit Pricing History** When available, this section of the page displays AWP, WAC, DIR, FUL, and SRP pricing information. This information is sorted by Effective Date, and displays Unit and % of Change. Occasionally, a **More** > hypertext link is available in this section. Click the link to view AWP Unit Pricing history, as shown below.

Product Na	formation me: HUMALOG	Code:	N	ос
Active Ir	RED BOOK ONLINE®			
Manufac	RED BOOK UNLINE®	AWP PRICE HIST	URT	
Form:	Product Name: HUMALOG			A
Strength	Code: NDC Identifier: 00002-7510-01			
Size:				
Route of	Effective Date	Unit	% Change	
Orange	06/05/2014	22.11600	9.9	
DEA Cla	12/12/2013	20.12400	9.7	
- 1	07/26/2013	18.34800	8.9	
Current	12/28/2012	16.84800	8.0	
Curren	07/11/2012	15.60000	6.0	
F	11/30/2011	14.71200	6.0	
	05/03/2011	13.88400	7.5	T
AWP	09/03/2010	12.91200	8.0	
WAC	12/15/2009	11.95800	7.5	N
DID	02/11/2009	11.12400	7.8	
DIR	08/27/2008	10.32000	6.0	
FUL	01/31/2008	9.73200	5.9	
SRP			PRINT 🏭 CI	
L				
			r	

You can print the AWP Price History by clicking the **PRINT** icon. Click the **CLOSE** icon to exit the pop-up box and return to the *Product Details* page.

J-Codes - When applicable, J-Code information for the product is displayed.
 Occasionally, a More > hypertext link is available in this section. Click the link to view additional J-Codes for the associated NDC.

ADDITIONAL J-COD	ES	
Product Name: HUMALOO J0000 J0001 J0003 J1815 J1817 85551	G TEST TEST TEST PER 5 UNIT PER 50 UNI 5 UNITS	<u> </u>
	PRINT 👜 CLOSE	





Note: Columns for which no data is returned will contain two dashes (--).

The information displayed on the *Product Details* page can be printed by clicking the **PRINT** icon at the bottom of the page.

Click the **CLOSE** option to exit the page.

Viewing Manufacturer Contact Details

From any *RED BOOK Online Search Results* page that displays a manufacturer name, you can obtain manufacturer contact information.

Displaying results found for "Product Name: AVANDIA ' Applied Filters: Status - Active; Repackagers - Exclude Results 1 - 3 of 3 Page 1 of 1 Go | ∮Previous | Next ▶ Rpkg Generic Orange Code Identifier Book Type Code Details Price New Product Name v Chg Pkg Active Ingredient Manufacturer/ Distributor Form Strength Route Unit WAC AWP AWP Pkg Size Dose Pkg Pkg Unit Price Price Price GLAXO SMITHKLINE rosiglitazone 30s AVANDIA Ν Ν AB NDC 00173-0863-13 TAB 4 mg ORAL Ν 117.04 140.45 4.68167 PHARMACEUTICALS maleate ea rosiglitazone 30s AVANDIA Ν Ν AB NDC 00173-0864-13 TAB 8 mg ORAL N 212.64 255.17 8.50567 maleate PHARMACEUTICALS ea rosiglitazone GLAXO SMITHKLINE 60s AVANDIA Ν Ν ORAL N 157.71 189.25 3.15417 AB NDC 00173-0861-18 TAB 2 mg maleate PHARMACEUTICALS ea

Click a manufacturer's name, as shown in the example below.

The Manufacturer Details pop-up box is displayed.

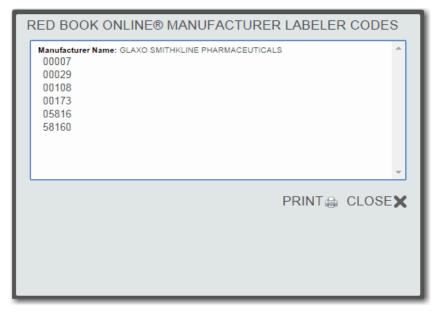
	MANUFACTURER DETAILS	
Manufacturer Name	: GLAXO SMITHKLINE PHARMACEUTICALS	-
Address 1:	3 FRANKLIN PLAZA	
Address 2:	P.O. BOX 7929	
City:	PHILADELPHIA	
State:	PA	
Zip:	19101	
Phone:	(888) 825-5249	_
Labeler Codes:		
00007		
00029		
00108		
00173		
More		-
(w ad	Click the More> link then available) to view Iditional labeler codes by the manufacturer	LOSEX

The Manufacturer Details pop-up box displays the following information about a manufacturer:

- Manufacturer Name
- Address 1
- Address 2
- City
- State
- Zip Code
- Telephone Number

Also displayed are labeler codes for the manufacturer. Most manufacturers have a specific set of labeler codes which they use. A labeler code is a five-digit number that corresponds with the first five characters in an NDC number.

Occasionally, a **More >** hypertext link is available in this section. Click the link to view additional labeler codes used by the manufacturer, as shown below.



You can print the *Manufacturer Labeler Codes* information shown in the pop-up by clicking the **PRINT** icon. Click **CLOSE** to exit the pop-up box and return to *Manufacturer Details* pop-up.

Note: Columns for which no data is returned will contain two dashes (--).

You can print the *Manufacturer Details* information by clicking the **PRINT** icon. Click **CLOSE** to exit the pop-up and return to the original search results.

THE CUSTOM LIST MANAGER

The Custom List Manager provides the ability to create and edit a list of products for tracking purposes. The list of products can be saved to your local computer or network and re-run



through RED BOOK Online to check for product changes. The ability to save a product list to your local system allows you to perform product searches on a set of products of interest to you without manually entering each product every time you want to check for changes to those products.

Note: The maximum allowable number of products in a custom list is 2,000.

Creating a Custom List

To begin building a custom list, click the **Go To Custom List Manager >** hypertext link on the main *RED BOOK Online Search* page.

RED BOOK Online [®] Search	nager 🕨
Search for prescription or over the counter medications, nutraceuticals, bulk chemicals, medical devices or supplies by product name or manufacturer. Search for a specific active ingredient in the product or by a specific code (such as NDC, UPC, or HRI).	R
I want to search by Enter search term:	
Product Name Submit	
O Active Ingredient	
O NDC/HRI/UPC	
O Manufacturer Name	
I want to filter by	
Status:	
O Active	
O Deactivated	
O All	
Repackagers:	
O Include Repackagers	
Exclude Repackagers	

The RED BOOK Online Custom List Manager page displays.

RED BOOK (Online® Custom List Manager	Return to RED BOOK Online® Search >
Use Custom L	ist Manager to create a new list, or browse to and load an existing list.	
Create New	Or Browse Load Selected	

Click the Create New button.

The Custom List Edit page displays.

Working custom list name: "New Custom File" (Your custom list name will appear once you save and reload your file.) Enter NDC/HRI/UPC: Products: Add Using Other Add Using Other C	Type the code in the search field. Choose an item and select the 2 button. Select the 3 button to remove items from the list. Select Save to retain any changes. Select Submit to view results list.							
Products: Add Using Othe	Working custom list name: "New Custom File" (Your custom list name will appear once you save and reload your file.)							
	Criteria							
Submit	Save							

Custom lists can be built using:

- A code number (NDC/HRI/UPC) (see page 212)
- Product name, active ingredient, or manufacturer's name (see page 213)

By default, the search by NDC/HRI/UPC code search page is shown.

Creating a Custom List by: NDC/HRI/UPC Code

If you choose to create your custom list searching by a code, begin entering the code number in the *Enter NDC/HRI/UPC* field. As you type, RED BOOK Online will make product suggestions based on the characters entered.

Vorkind cus	tom list name: "New Custom File"	Your custom list name will ap	pear once you	save	and reload your file.)	
				Guro	and foreda your mory	
Enter NDC/HRI					Desidentes	Add Llaing Other Oritoria
009	×				Products:	Add Using Other Criteria
00904-0002-14	MINTOX (Major)	225 ma/5 ml-200 ma/5	360 ml			
00904-0002-28	MINTOX (Major)	200 ma/5 ml-200 ma/5	3840 ml	^		
00904-0002-41	MINTOX (Major)	200 mg/5 ml-200 mg/5	780 ml			
00904-0003-14	MINTOX EXTRA STRENGTH (Major)	500 mg/5 ml-450 mg/5	360 ml			
00904-0004-14	MI-ACID (Major)	200 mg/5 ml-200 mg/5	360 ml		>	
00904-0004-28	MI-ACID (Major)	200 mg/5 ml-200 mg/5	3840 ml			
00904-0004-41	MI-ACID (Major)	200 mg/5 ml-200 mg/5	780 ml		<	
00904-0004-76	MI-ACID (Major)	200 mg/5 ml-200 mg/5	780 ml			
00904-0005-14	MI-ACID (Major)	400 mg/5 ml-400 mg/5	360 ml			
00904-0005-53	MI-ACID II (Major)	400 mg/5 ml-400 mg/5	360 ml 2s			
00904-0012-05	ALLERGY (Major)	4 mg	12s ea			
00904-0012-24	ALLERGY (Major)	4 mg	24s ea			
00904-0012-53	ALLERGY (Major)	4 mg	200s ea	~		
00904-0012-59	ALLERGY (Major)	4 mn	100s ea			Submit Save

CHAPTER 16: RED BOOK ONLINE



Select the desired product by highlighting it with your cursor, then click the *right-pointing* arrow to move the product into the *Products:* box.

To remove a product from the *Products:* box, highlight the product and click the set left-pointing arrow. The item is removed.

Note: Duplicate entries cannot be saved to the Custom List. If you accidentally try to add a duplicate product to your Custom List, you will be presented with an error message.

You can continue creating a custom list based on NDC/HRI/UPC codes, *or* you can click the **Add Using Other Criteria** button at the top of the page to continue building your custom list by searching by product name, active ingredient or manufacturer name.

Creating a Custom List by: Name, Active Ingredient or Manufacturer

Type the code in the search field. Choose an item and select the O button. Select the O button. Select the O button. Select the O button.	tton to remove items from the list. Select Save to retain any
Working custom list name: "New Custom File" (Your custom list name will appear once you save an	nd reload your file.)
Enter NDC/HRI/UPC:	Products: Add Using Other Criteria

RED BOOK Online allows you to create a custom list using a product name, active ingredient, or manufacturer's name as a search term. Click the **Add Using Other Criteria** button located directly above the *Products:* box on the initial *Custom List Manager Edit* page.

RED BOOK Online® Custo	m List Manager Other Crite	eria Search • Return to Custom Lie	st
To add items to your custom list, search	by product name, active ingredient, code or manufa	cturer.	
Working custom list name: "New Custom Fi	le" (Your custom list name will appear once you save and	reload your file.)	
I want to search by	Enter search term:		
Product Name	1	Submit	
O Active Ingredient			
O NDC/HRI/UPC			
O Manufacturer Name			
I want to filter by			
Status:			
 Active 			
O Deactivated			
O All			
Repackagers:			
Include Repackagers			
 Exclude Repackagers 			

The *RED BOOK Online Custom List Manager Other Criteria Search* functions exactly like the regular RED BOOK Online search tool. <u>See "Searching RED BOOK Online" on page 191.</u> for more information.

For example, perform a search for *Lyrica* from the *RED BOOK Online Custom List Manager Other Criteria Search* page. Highlight the product name in the suggestion box, and then click the **Submit** button.

To add items to your custom list,	search by product name, active ingredien	nt, code or manufacturer.
Working custom list name: "New Co	stom File" (Your custom list name will appea	ar once you save and reload your file.)
I want to search by Product Name Active Ingredient NDC/HRI/UPC Manufacturer Name I want to filter by Status: Active Deactivated All Repackagers: C Include Repackagers	Enter search term: LYRICA LYRICA	x Submit
 Exclude Repackagers 		

The *RED BOOK Online Custom List Manager Other Criteria Results* page displays. This page provides the product matches for the search term you used.

Custom List Manager Search Results

Results are displayed in rows, with links to additional information. Data can be re-sorted by most of the column headings. All columns with headings in blue can be sorted in ascending or descending order. Click on the column heading to sort on the column. The display refreshes based on the sort selection with a secondary sort on product name. Click again to reverse the sort order.

RED BOC	K Online® C	ustom List Man	ager Other	Crit	eria	Res	ults	Re	turn to	Custom	List		
Choose	items and click the add b	utton to add to custom list.											
Working cus Results 1 - 13 of 13		ustom File" (Your custom list	name will appear once y	ou save	and reloa	ad your fil	le.)	Ρ	age 1 o	f1 Go	Previ	ious N	lext ▶
Add Price New Chg Pkg	Product Name v	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code	Code Type	Identifier	Form	Strength	Route	Pkg Size	Unit Dose
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	Ν		NDC	00071- 1012-68	CAP	25 mg	ORAL	90s ea	N
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	N		NDC	00071- 1016-68	CAP	150 mg	ORAL	90s ea	N
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	N		NDC	00071- 1016-41	CAP	150 mg	ORAL	100s ea	Y
A. [85]	La company and an and an an an	pregabalin	PARKE DAVIS, DIV.	N	N.	M-94A	NDC	00071-	, en mu	/ ⁷⁵ /2 ¹¹ /	OP#	90s.	~N/~



The column headings and their functions are described in the table below.

Column	Description
Add Button	The Add button is related to the checkboxes that correspond to each line item in the search results. Clicking the checkbox for a single or for multiple products and then clicking the Add button launches the <i>Products Added</i> pop-up box. The <i>Products Added</i> pop-up confirms that the products selected have been added to your custom list.
Price Chg	The Price Chg (price change) column indicates if the selected product has experienced a price change effective within the last 30 days of the date the search is performed.
	 If a price change has occurred within this time window, the dollar sign icon displays. Price Change 09/15/2014 Hovering the cursor over the icon displays the date the price change became effective.
New Pkg	The New Pkg column indicates if the product on which you searched is a new entry in the RED BOOK Online database that became effective within the previous 30 days of the date the search was performed.
	New entries in the database are indicated by a star icon in this column.
Product Name	The Product Name column displays the name of all the individual products retrieved by your search. You can click the column header to sort the search results by this column. When the results are initially displayed in response to your search, they are sorted by this column.
Active Ingredient	The Active Ingredient column displays the active ingredient(s) for the product for which you searched.
Manufacturer/ Distributor	The Manufacturer/Distributor column displays the manufacturer/ distributor of an individual product in your search results. A single product name may be associated with multiple manufacturers/distributors. <u>See "Manufacturer Product List Search Results" on page 202.</u> for more information.
Rpkg	The Rpkg column indicates whether or not the product is repackaged by the company listed as the manufacturer/distributor. A "Y" indicates that the listed manufacturer/distributor is a repackager of the product. An "N" indicates that the listed manufacturer/distributor is not a repackager.
Generic	The Generic column indicates whether or not the particular line item is a generic product. A "Y" indicates that the product is a generic version. An "N" indicates that the product is not a generic product.

Orange Book Code	If a product has been assigned an Orange Book Code, that code will appear in the Orange Book Code column. Not all products will be associated with an Orange Book Code. When there is no associated Orange Book Code, two dashes () will appear in the column. <u>See "Orange Book Codes" on</u> <u>page 271.</u> for more information.
Code Type	The Code Type column identifies the registry listed for the identifier, either NDC; HRI; or UPC. This code type is related to the value that appears in the Identifier column.
Identifier	The Identifier column displays the NDC, HRI, or UPC code that is associated with each individual line item retrieved in your search.
Form	The Form column displays the dosage form (tablet, solution, syrup, etc.) of a product. <u>See "Dosage Form Descriptions" on page 267.</u> for more information on dosage forms.
Strength	The Strength column displays the active ingredient strength for the product for which you searched. NOTE : The Strength column is limited to 24 characters. Entries in this field that exceed 24 characters are truncated. A longer description can be viewed on the <i>Product Details</i> page. <u>See "Product Details Search Results"</u> on page 204.
Route	The Route column displays the route of administration for the product. <u>See</u> <u>"Route Listing" on page 270.</u> for more information.
Pkg Size	The Pkg (package) column displays the quantity of individual items in the package. This quantity is expressed in National Council for Prescription Drug Programs (NCPDP) units (each, grams, milliliters).
Unit Dose	The Unit Dose column indicates if the product retrieved in your search is available in unit dose packaging. A "Y" indicates that the product is available in unit dose packaging. An "N" indicates that the product is not available in unit dose packaging.



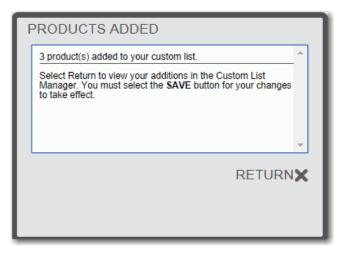
Note: Columns for which no data is returned will contain two dashes (--).



Pkg	Product Name v	Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Book Code	Code Type	ldentifier	Form	strength
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	Ν		NDC	00071- 1012-68	CAP	25 mg
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	N		NDC	00071- 1016-68	CAP	150 mg
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	Ν		NDC	00071- 1016-41	CAP	150 mg
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	Ν		NDC	00071- 1014-68	CAP	75 mg
	LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	N		NDC	00071- 1014-41	CAP	75 mg

Locate the product(s) that you want to add to the custom list you are building. Click the checkbox(es) adjacent to the line item(s) you want to include. To add the selected items to your custom list, click the **Add** button located at the top of the page.

The Products Added pop-up appears.



The *Products Added* pop-up confirms that your selection has been added to the list you are building.

Click the **RETURN** button to exit the pop-up box and return to the *Custom List Edit* page.

Enter NDC/HRI/UPC:		
	Products:	Add Using Other Criteria
	00071-1012-68 LYRICA	
	00071-1014-68 LYRICA	
	00071-1016-68 LYRICA	ł
>		
<	J	
		Submit Save

The Custom Products box displays the products you have added to your custom list.

You can continue adding products to the list you are creating, or you can save your list by clicking the **Save** button.

Note: You must save your custom list before the **Submit** button is active.

Saving Your Custom List

After you have finished adding products to your custom list, you will want to save the file. Saving the custom list allows you to retrieve and run the same search repeatedly without entering each individual product.

Click the **Save** button. The *File Download* dialog is displayed. Click the **Save** button. The *Save As* window is displayed.



File Downloa	d		×		
Do you want	to open or sav	e this file?			
924	Name: REDBOOKO Type: HTML Docu From: tshuscoder	ument, 42 bytes			
	0p	en Save	Cancel		
🔣 harm		met can be useful, some files ca you do not trust the source, do n <u>e risk?</u>			
Save As					?
Save in:	🚞 Downloads	×	3 🕫 🖻	•	
My Recent Documents					
Desktop					
My Documents					
My Computer					
	File name:	REDBOOKCustomList.rbo	~		Save
My Network	Save as type:	.rbo Document	~	. (Cancel

Enter the name for your custom list in the File name field. By default, the file will be named REDBOOKCustomList.rbo. Navigate to the location to which you want to save the file. Click the **Save** button to save the file to your computer.

Note: The file extension must be **.rbo**, indicating it is a RED BOOK Online custom list file.

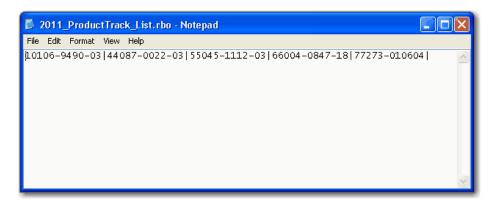
Download complete
Download Complete
REDBOOKCustomList.rbo from tshuscodendvsb1
Downloaded: 182 bytes in 1 sec
Downloaded: 182 bytes in 1 sec Download to: \\tsh.th\REDBOOKCustomList.rbo
Transfer rate: 182 bytes/Sec
Close this dialog box when download completes
Open Open Folder Close

Click the **Close** button. The file is now saved. You can use this file to perform a search on this list of products, as necessary.

Creating a Custom List Manually

You can create a Custom List completely outside of the RED BOOK Online application using any text editor or third-party word processor, as long as you create the list according to the following guidelines:

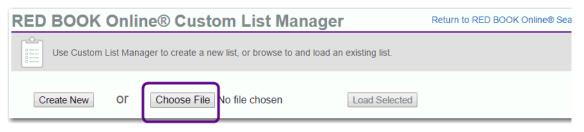
- The filename must carry the .rbo file extension (e.g., product_list_name.rbo)
- The file structure must be pipe-delimited (|)
- All entries must follow the appropriate code format of 5-4-2 or 5-6 (e.g., 12345-6789-00 or 12345-678900).



Searching RED BOOK Using a Saved Custom List

After creating and saving a custom list, you can upload that list into RED BOOK Online and run a search, based on the items in the custom list.

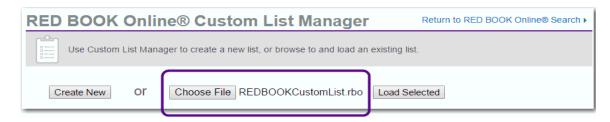
1. Log into RED BOOK Online and click **Go To Custom List Manager >** located on the top right side of the page. The *RED BOOK Online Custom List Manager* page displays.



- 2. Click the **Choose File** button. The *Choose file* dialog displays.
- Navigate to the location of your saved custom list file. Highlight the file and then click the Open button.

The *Choose file* window closes and the *RED BOOK Online Custom List Manager* page is displayed again.





The location path of the file now appears in the field to the right of the **Choose File** button and the **Load Selected** button is now active.

4. Click the **Load Selected** button. The custom list is loaded into RED BOOK Online and is displayed in the *Product:* box on the *Custom List Edit* page.

Working custom list name: "REDBOOKCustomList.rbo"	
Enter NDC/HRI/UPC:	
	Products: Add Using Other Criteria
	00071-1012-68 LYRICA 00071-1014-68 LYRICA
	00071-1016-68 LYRICA
	>
	<
	_
	Submit Save

With the list selected and loaded, you can now:

- Edit your custom list by adding additional products or -
- Perform a search on your custom list by clicking the Submit button

Results	1-3 of 3												Pa	ge 1 of 1	Go	 Previous 	s Next
Details	Price New Chg Pkg		Active Ingredient	Manufacturer/ Distributor	Rpkg	Generic	Orange Book Code		Identifier	Form	Strength	Route	Pkg Size	Unit Dose	WAC Pkg Price	AWP Pkg Price	AWP Unit Price
		LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	Ν		NDC	00071-1012-68	CAP	25 mg	ORAL	90s ea	N	394.84	473.81	5.2645
		LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	Ν	N		NDC	00071-1014-68	CAP	75 mg	ORAL	90s ea	N	394.84	473.81	5.2645
		LYRICA	pregabalin	PARKE DAVIS, DIV. OF PFIZER, INC.	N	N		NDC	00071-1014-41	CAP	75 mg	ORAL	100s ea	Y	482.53	579.04	5.7904

RED BOOK Online searches all of the products in the custom list and returns a *Custom List Manager Results* page.

The type of information and layout of the results page from a custom list search is the same as a standard RED BOOK Online search. <u>See "Understanding RED BOOK Online Search Results" on page 195.</u> for information on RED BOOK Online search results.

CHAPTER 17: MICROMEDEX FOR MOBILE DEVICES



Much more than quick drug look-ups, *mobile*Micromedex® powers your mobile device with a wealth of clinical knowledge from Truven Health, the industry's leading provider of evidence-based clinical information.

ACCESS MICROMEDEX FROM YOUR TABLET



The same clinical evidence content you get on your desktop is also available to you on your tablet at no additional charge.

Note: Drug information from Health Canada and European Medicines Agency (EMA) is available only for the Micromedex desktop application. See <u>Chapter 4: Regulatory Authority Information on page 86</u> for more information.

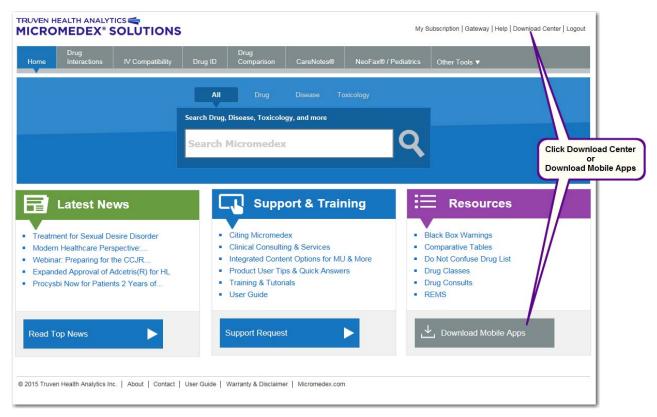
Follow these easy steps to access web-based mobileMicromedex on your tablet:

- 1. Open your Internet browser.
- 2. Go to http://www.micromedexsolutions.com/micromedex2/librarian
- 3. Enter your authentication information.

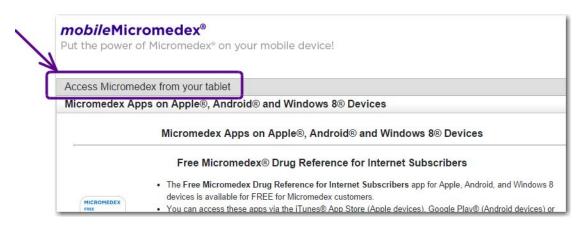
If you access Micromedex from your desktop with a username and password, you may use the same credentials to access Micromedex on your tablet.

If you do not access Micromedex from your desktop with a username and password, follow these steps to retrieve the credentials:

1.From the Micromedex home page click **Download Mobile Apps** under Resources or from any page click **Download Center**.



b. Click Access Micromedex from your tablet.



c. Use the authentication information provided.



Access Micromedex from your tablet
Access Micromedex from your tablet
The same clinical evidence content you get on your desktop is also available to you on your tablet at no additional charge.
Follow these easy steps to access Micromedex on your tablet.
Step 1: Open your browser.
Step 2: Go to http://www.micromedexsolutions.com/micromedex2/librarian
Step 3: Enter your authentication information:
If you DO NOT access Micromedex from your desktop with a user name and password, use the following authentication information: Username: Password: Note: After entering the authentication information, it will last for the current quarter on your device. At the end of the quarter you will need to return to this site and obtain a new username and password. The password will change on the first Sunday of the quarter Quarterly Schedule: January April July September If you need further assistance or have questions, please contact support at www.micromedex.com/support/request

Note: The username and password will change each quarter.

Find out more at: micromedex.com/support/device-compatibility

If you need further assistance or have questions, please contact support at: www.micromedex.com/support/request

APPS AVAILABLE FOR DOWNLOAD

Free Micromedex Drug Reference for Internet Subscribers



Access the same, evidence-based Micromedex® content you rely on everyday directly from your mobile device(s). All apps contain the industry's most comprehensive drug information and are backed by the same thorough, unbiased editorial process used for all Micromedex solutions.



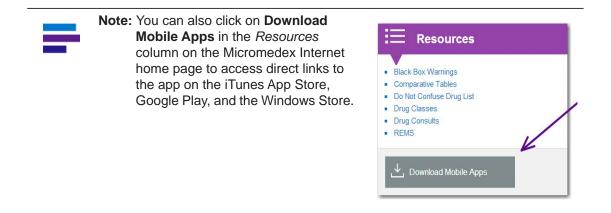
• The Free Micromedex Drug Reference for Internet Subscribers app for Apple, Android, and Windows 8 devices is available for FREE for Micromedex customers.

- You can access these apps via the iTunes® App Store (Apple devices), Google Play® (Android devices) or the Windows Store® (Windows 8 devices).
- Android users only: the app is called Free Micromedex Drug Reference in the Google Play store.
- You can activate the app by following the simple instructions below.

Simple instructions for installation:

Step 1

Visit the iTunes App Store (Apple devices), Google Play (Android devices) or the Windows Store (Windows 8 devices) and search for "Micromedex."



Step 2

From the Micromedex app results, select **Free Micromedex Drug Reference for Internet Subscribers** (Apple devices and Windows 8 devices) or **Free Micromedex Drug Reference** (Android devices). You may be prompted to enter your Apple, Google or Windows ID.

Step 3

The app should download directly to your device. (If you visited the iTunes App Store on your PC rather than your device, you may have to sync your device to iTunes on your PC, in order to load the app onto your device.)

Step 4

Open the app on your device. To begin using **Free Micromedex Drug Reference for Internet Subscribers** enter the password which can be found on the *mobile*Micromedex page in the Micromedex Internet application by clicking on **Download Mobile Apps** in the *Resources* column on the Micromedex home page.





The password is case-sensitive. Please enter it exactly as it appears on the *mobile*Micromedex page.

Note: A valid password is required to download the apps and on a recurring (annual) basis. When downloading for the first time and when prompted from within the app, return to the *mobile*Micromedex page in the Micromedex Internet application to obtain the current password.

Micromedex® Drug Interactions





The **Micromedex Drug Interactions** app for Apple and Android devices is available for FREE for Micromedex customers.

You can access these apps via the iTunes® App Store (Apple devices) or Google Play® (Android devices).

Simple instructions for installation:

Step 1

Visit the iTunes App Store (Apple devices), or Google Play (Android devices) and search for "Micromedex."



Note: You can also click on Download Mobile Apps in the *Resources* column on the Micromedex Internet home page and scroll to the Micromedex Drug Interactions section to access direct links to the app on the iTunes App Store and Google Play.

	Box Warnings			
	arative Tables t Confuse Drug L	ict		
	lasses	101		
	Consults			/
REMS			/	6
			K	

Step 2

From all the Micromedex app results, select **Micromedex Drug Interactions**. You may be prompted to enter your Apple or Google ID.

Step 3

The app should download directly to your device. (If you visited the iTunes App Store on your PC rather than your device, you may have to sync your device to iTunes on your PC, in order to load the app onto your device.)

Step 4

Open the app on your device. To begin using **Micromedex Drug Interactions** enter the password which can be found on the *mobile*Micromedex page in the Micromedex Internet application by clicking on **Download Mobile Apps** in the *Resources* column on the Micromedex home page and scrolling to the Micromedex Drug Interactions section.



The password is case-sensitive. Please enter it exactly as it appears on the *mobile*Micromedex page.



Note: A valid password is required to download the apps and on a recurring (annual) basis. When downloading for the first time and when prompted from within the app, return to the *mobile*Micromedex page in the Micromedex Internet application to obtain the current password.

Micromedex® IV Compatibility



7	MICROMEDE	×
	IV COMPATIBILITY	

The **Micromedex IV Compatibility** app for Apple and Android devices is available for FREE for Micromedex customers with a current subscription to IV Compatibility.

You can access these apps via the iTunes® App Store (Apple devices) or Google Play® (Android devices).

Simple instructions for installation:

Step 1

Visit the iTunes App Store (Apple devices) or Google Play (Android devices) and search for "Micromedex.."

=	Note: You can also click on Download Mobile Apps in the <i>Resources</i> column on the Micromedex Internet home page and scroll to the Micromedex IV Compatibility section to access direct links to the app on the iTunes App Store and Google Play.	 Resources Black Box Warnings Comparative Tables Do Not Confuse Drug List Drug Classes Drug Consults REMS Memory Consults Demonstrain Co

Step 2

From the Micromedex app results, select **Micromedex IV Compatibility**. You may be prompted to enter your Apple or Google ID.

Step 3

The app should download directly to your device. (If you visited the iTunes App Store on your PC rather than your device, you may have to sync your device to iTunes on your PC, in order to load the app onto your device.)

Step 4

Open the app on your device. To begin using **Micromedex IV Compatibility** enter the password which can be found on the *mobile*Micromedex page in the Micromedex Internet application by clicking on **Download Mobile Apps** in the *Resources* column on the Micromedex home page and scrolling to the Micromedex IV Compatibility section.

	Box Warnings			
 Compa 	arative Tables			
 Do No 	t Confuse Dru	g List		
 Drug (Classes			
 Drug (Consults			
 REMS 			1	
			P	

The password is case-sensitive. Please enter it exactly as it appears on the *mobile*Micromedex page.

Note: A valid password is required to download the apps and on a recurring (annual) basis. When downloading for the first time and when prompted from within the app, return to the *mobile*Micromedex page in the Micromedex Internet application to obtain the current password.

APPENDIX A: DATABASE DESCRIPTIONS

Truven Health Analytics publishes clinical decision support databases and tools. Micromedex® Solutions provides a wide range of databases tailored to meet the needs of clinicians and healthcare professionals, including information related to drugs, acute care, toxicology, complementary and alternative medicine, and patient education.

Micromedex Databases

Alternative Medicine for Patient Alternative Medicine Information

- Summary Alt Med Info
- In Depth Alt Med Info
- Alt Med Consults
- Alt Med Protocols

- Alternative Medicine Reactions

Complete Drug Interactions

Complete IV Compatibility with Trissel's 2[™] Detailed Drug Information for the Consumer[™]

Detailed Drug Information for the C

- Summary Disease Information
- Emergency Medicine
- Emergency Medical Abstracts
- General Medicine
- Clinical Checklist™
- DRUGDEX® System
- Summary Drug Information
- Detailed Drug Information
- Drug Consults

Herbal Medicines: A Guide for the Health-Care Professional

IDENTIDEX® System

Index Nominum

Italian Drug Database - Dialogo sui Farmaci

Lab Recommendations

Martindale: The Complete Drug Reference

Material Safety Data Sheets (MSDS)

P&T QUIK® Reports

Physicians' Desk Reference® (PDR)

POISINDEX® System

- Summary Toxicology Information
- Detailed Toxicology Information
- **Reproductive Effects**
- REPROTEXT®
- REPROTOX®
- Shepard's
- TERIS

TOMES System

- HAZARDTEXT®
- INFOTEXT®
- MEDITEXT®

United Kingdom Drug Information - eMC SmPC

Alternative Medicine for Patient

Patient Education for Complementary and Alternative Medicine

As part of the Complementary and Alternative Medicine (CAM) Series, Alternative Medicine for Patient documents offer fully referenced patient counseling materials, written and peer reviewed by representatives from both conventional Western medicine and the alternative medicine communities.

What's in Alternative Medicine for Patient?

- Dietary Supplement documents
- Disease state/Medical condition documents
- Therapy documents

Dietary Supplement documents

Dietary supplement documents provide concise information on indications, dosage, storage, interactions, side effects and warnings associated with the most frequently used herbal medicines, vitamins, minerals, and other CAM-related substances. Disease States/Medical Condition documents

These documents provide information on common diseases or medical conditions and how to treat them using CAM therapies. A description of the condition, causes, signs and symptoms, wellness recommendations, and complementary treatments are presented.

Therapy documents

Therapy, or modality documents, offer overviews on biofeedback, aromatherapy, acupuncture, and other frequently used CAM therapies and treatments.

Alternative Medicine Information

Herbal and Dietary Information

Part of the Complementary and Alternative Medicine (CAM) Series, Alternative Medicine Information offers evidence-based, clinical information on herbal, vitamin, mineral and other dietary supplements. The unbiased information is peer reviewed by a team of experts from both alternative medicine and traditional medicine communities. Editorial board members performing the reviews include MDs, DOs, RPhs, RNs, and NDs.

What's in Alternative Medicine Information?

- Evaluations
- Consults
- Protocols

Summary Alt Med Info

Summary Alt Med Info provides brief highlights of dosing, indications, contraindications, adverse effects, drug interactions, therapeutic class, pregnancy, and lactation for herbals, vitamins, minerals and other dietary supplements. The documents deliver answers quickly and efficiently. They link directly to more in-depth information in In Depth Alt Med Info documents.

In Depth Alt Med Info

In Depth Alt Med Info monographs appear in a standardized format that allows you to easily find the information you need. Specific topics include the following:

Dosing Information



- Synonyms
- Pharmacokinetics
- Cautions (contraindications, adverse reactions, drug interactions)
- Place in therapy
- Mechanism of Action
- Therapeutic Uses
- Comparative Efficacy

Alt Med Consults

Alt Med Consults provide crucial information of interest to those needing information on herbal medicines and other dietary supplements. Topics include FDA warnings, pregnancy risk categories, and guidelines on dosing, safety and efficacy issues.

Alt Med Protocols

Provides practical advice to help you integrate complementary and alternative medicine into clinical practice.

Every day healthcare professionals are being asked to combine alternative medicine therapies with more traditional treatment practices. Alt Med Protocols provides complementary and alternative medicine (CAM) information and recommends methods for successfully blending CAM therapies with conventional medicine to offer patients a full range of options and help optimize their treatment outcomes.

Alternative Medicine Reactions

Contains easy-to-understand materials to help you educate patients about potential herbal & dietary supplement interactions

Increased use of herbals and dietary supplements means increased risk of harmful interactions. Without knowledge of the possibilities, inadvertent mixing of medications can result in adverse drug events or decreased efficacy. Alternative Medicine Reactions discusses the potential for interactions between alternative medicines and other drugs, dietary supplements, food, alcohol, and tobacco. Designed to help educate patients, supporting evidence and advice about what to do if experiencing an interaction are included.

Complete Drug Interactions

Drug Interactions

Complete Drug Interactions allows clinicians to check for interacting drug ingredients, their effects, and their clinical significance. It provides drug-drug, food-drug, drug-allergy, drug-alternative medicine, drug-ethanol, drug-laboratory, drug-tobacco, drug-pregnancy, and drug-lactation interactions and screens for ingredient duplication. The tool screens for therapeutic duplication of ingredients in the terms entered and identifies ingredients or products that are therapeutically antagonistic. However, please note that not all additive adverse effects or therapeutic antagonist effects are included in the tool.

Complete Drug Interactions information is drug-specific rather than class-specific, although many drug-specific interactions are included for known or suspected interactions based on class characteristics or metabolic activity. The specificity to individual drugs is helpful for accurate interpretation of interaction data. The program is able to distinguish between and equate trade names and generic drug names, eliminating possible duplication of interaction data on the page. A large number of concurrent clinical conflicts can be reviewed, and the

response speed of this database demonstrates negligible degradation in data retrieval as the number of drugs being screened is increased.

Complete IV Compatibility - Trissel's[™] 2 Clinical Pharmaceutics Database

- Features Trissel's 2[™], the latest database from the ultimate authority on IV compatibility Lawrence Trissel, MS, FASHP
- Enhances patient safety by pinpointing potentially lethal combinations
- Supports confident decisions with multiple studies and full study information including manufacturer, concentration, stability, and other conditions
- Helps clinicians interpret conflicting compatibility results by identifying contributing factors
- Includes 600 unique drugs and solutions
- Over 50,000 compatibility results
- · Provides solution, Y-Site, syringe, and admixture compatibility information
- Includes TPN/TNA data
- Allows for either single or multiple drug searches

Detailed Drug Information for the Consumer[™]

Easy-to-understand, in-depth materials to help educate your patients about medications and their proper use. Today's patients are informed patients. Now you can give them an educational resource to match their proactive role in their care.

Detailed Drug Information for the Consumer[™] - Drug Information in Lay Language provides patient-oriented drug information to help patients understand and successfully follow their drug regimens. Written at a 12th-grade literacy level, documents provide greater detail than most patient education leaflets and include brand names, descriptions, proper use, precautions, and side effects. Instructions for how to handle missed doses are included, as are guidelines for when to seek medical assistance or supervision.

Disease Information

Summary Disease Information

Summary Disease Information provides brief highlights of treatment, diagnosis, and key point information. The documents deliver answers quickly and efficiently. They also link directly to the more in-depth Disease Emergency Medicine and Disease General Medicine documents.

Disease Emergency Medicine

Comprehensive source of urgent and acute care information

Disease Emergency Medicine provides actionable information extracted from an extensive library of medical journals. With over 40,000 key terms and synonyms, Emergency Medicine helps clinicians quickly access current and crucial data organized by both condition and diagnosis.



Disease Emergency Medicine includes:

Emergency and Acute Care Summaries and detailed information on emergency conditions and treatments covering:

- Treatment
- Diagnosis
- Key Points

Emergency Medical Abstracts

EMA from Rick Bukata, MD and Jerry Hoffman, MD - a definitive source of literature review covering a broad scope of topics.

Disease General Medicine

Evidence-based, current disease information

Disease General Medicine supports disease management and treatment decisions in ambulatory and inpatient care settings.

General Medicine content enables clinicians to quickly reference the most current treatment of choice information at the point of care to help minimize errors, prevent unnecessary tests and procedures, reduce treatment costs, and improve patient outcomes.

Each General Medicine document covers:

Management highlight	Prognosis
Background	Advising the Patient
Diagnosis	Follow-up
Treatment	Prevention and Screening
Complications	Key References
Special Circumstances	Literature Cited
When to Consult or Refer	Tables and Images

Clinical Checklist[™]

The Clinical Checklist System is the "must do" "never do" database. It is a compilation of the most pertinent patient care interventions on commonly encountered conditions that should always or never be done. The interventions are presented as alerts within Micromedex. The information is action-oriented and concise and is based on nationally recognized quality standards and the highest rated medical evidence.

Each checklist item contains graded recommendation and evidence information. These evidence ratings embed evidence-based medicine into clinical operations, and ultimately, maximize reimbursement by ensuring that clinical decisions are in compliance with the latest national quality standards and evidence-based practices.

DRUGDEX® System

Detailed Drug Information Drug & Pharmaceutical Information

Designed to deliver unbiased drug information for those who prescribe, order, dispense, or administer medications, the DRUGDEX System provides independently reviewed data gathered from major drug centers and pharmacology services worldwide. FDA-approved and investigational drugs, along with over-the-counter and non-U.S. preparations, are covered with regard to dosage, pharmacokinetics, cautions, interactions, clinical applications, and comparative drug efficacy. Information is reviewed by the Truven Health Analytics editorial board and can be retrieved by generic name, manufacturer brand name, or indications.

What's in DRUGDEX?

DRUGDEX includes the following modules:

- Drug Evaluations
- Drug Consults
- Product Index
- Summary Drug Information

Summary Drug Information

Summary Drug Information provides brief highlights of dosing, drug interactions, adverse effects, pregnancy warnings, indications, cautions, therapeutic class, and brand information. The content provides answers quickly and efficiently. The documents also link directly to more in-depth DRUGDEX® Detailed Drug Information (available only with a current DRUGDEX subscription).

Drug Evaluations

Drug evaluation monographs appear in a standardized format that allows you to easily find the information you need. Specific topic areas include the following:

- Dosage
- Pharmacokinetics
- Interactions
- Cautions
- Interactions
- Adverse side effects
- Contraindications/precautions
- Comparative drug efficacy
- Clinical applications
- Comparative drug efficacy
- Indications
- Therapeutic uses
- Generic names
- Indications
- Adverse side effects



Drug Consults

Drug Consults are evidence-based, fully-referenced articles covering drug therapies and drug guidelines. Some Drug Consults present patient related, referenced consultations with case histories. They are also an excellent resource for information on herbal medications, medical and surgical materials, excipients, drugs of abuse, and health foods. Drug Consults are provided for investigational, international, FDA-approved, and over-the-counter preparations.

DRUGDEX® Product Index

Product documents offer comprehensive search results listing trade names, manufacturers, and dosage forms for investigational, international, FDA-approved, and over-the-counter preparations.

Herbal Medicines: A Guide for the Health-Care Professional

Invaluable reference for everyone interested in herbal medicines and their uses

While the use of herbal remedies has dramatically increased, the availability of factual information about such substances has not. Herbal products are not regulated in the same manner as drugs, so credible, proven data about them is scarce. As part of the International Drug content in Micromedex® Solutions, Herbal Medicines: A Guide for Health-Care Professionals, published by the Pharmaceutical Press, London, UK, presents fully referenced information to assist with the identification, application, safe use, and assessment of commonly found herbal medicines. Its quick, easy-to-access content addresses pharmacological actions, side effects, contraindications, and safety and efficacy issues.

IDENTIDEX® System

Tablet & Capsule Identification

The IDENTIDEX database identifies pharmaceutical tablets and capsules by imprint code and secondary characteristics, such as color and shape. Prescription and over-the-counter drugs (both trademarked and generic) are listed, along with manufacturers' telephone numbers and logo descriptions. Many international and street drugs are included, as is an extensive index of drug-related slang terms.

What's in IDENTIDEX?

IDENTIDEX identifies substances from unmarked containers in emergency situations. It includes prescription and nonprescription drugs with information about the manufacturer and provides an extensive library of information on street drugs and slang terms. IDENTIDEX documents follows this standard outline:

- Imprint code
- Color
- Dosage form
- Active ingredients
- Manufacturer
- AAPCC code

Index Nominum

Recognized worldwide, Index Nominum is an international drug directory providing access to over 5,300 substances and derivatives, more than 12,800 synonyms, and over 41,800 tradenames from more than 45 countries.

The Truven Health version of Index Nominum in Micromedex® Solutions, edited by the Swiss Pharmaceutical Society, provides electronic access to an international drug directory of generic substances, drug tradenames, synonyms, chemical formulas, therapeutic classes, and manufacturer information. Designed to meet the drug information needs of drug and poison information centers, pharmacists, physicians, research and medical centers, pharmaceutical companies and libraries, the system presents area-specific information from more than 45 countries for preparations used in human and veterinary medicine.

Index Nominum enables users to locate information by entering a substance name, therapeutic category, brand name, synonym, chemical name, manufacturer name, or country as the keyword or search term. Each monograph provides detailed information about a drug's name and synonyms, chemical structure diagrams, and a list of manufacturers. Name and address information enables the user to conveniently identify manufacturers worldwide.

Index Nominum contains:

- Drug tradenames
- Official and unofficial synonyms
- Substances and derivatives
- Manufacturer names and addresses
- Therapeutic classes
- CAS numbers
- ATC codes
- Chemical structures
- Molecular weights

Italian Drug Database - Dialogo sui Farmaci

The Italian Drug Database from Dialogo sui Farmaci is a compilation of all pharmaceuticals marketed and approved for use in Italy - currently at approximately 16,000 products and is updated on a monthly basis. The database includes both products with pharmaceutical active ingredients as well as over-the-counter drug products. Bulk products such as Ringer's Lactate and Saline solutions are also included in the database.

The following information is available in Dialogo sui Farmaci product documents:

- MINSAN Code code for each medicine, given by the Ministry of Health
- Brand Name
- Form, strength, packaging and route of administration
- ATC codes
- Italian and English INN
- Price
- Reimbursement class



- Class A Essential drugs and those for chronic diseases These drugs are fully reimbursed by the National Health Service (NHS).
- Class H Drugs that are fully reimbursed and must be used only in hospitals
- Class C Drugs not reimbursed by the NHS Among Class C drugs are: SOP: drugs that can be sold without prescription but for which advertisement is not allowed.
 OTC: drugs sold without prescription. Advertisement is allowed.
- Limitative note
- Distribution criteria
- Registry
- Prescribing criteria
- Authorized prescriber
- Drug manufacturer
- Off-patent drugs
- Italian indications

Lab Recommendations

Lab Recommendations is a clinical laboratory database which presents the most critical information about which laboratory tests are appropriate for a given condition, interpretation and management of results, normal ranges, test methodology, and other laboratory related information.

Lab Recommendations will:

- Describe which tests are appropriate for a given indication
- Help streamline workflow by providing actionable information that eliminates the need to call the lab or library with questions about administering and interpreting labs
- Aid in the interpretation of test results
- Link to summary level drug, disease, and toxicology documents for more detailed information on the topic or substance
- Provide evidence-based testing information on how and when to monitor drug levels, therapeutic levels and side effects
- Provide normal or therapeutic range to enable appropriate triage of lab test results
- Provide information on how to interpret unfamiliar tests when evaluating patients
- · Provide information on how to collect samples and submit tests

Martindale: The Complete Drug Reference

This electronic version of the highly respected MARTINDALE reference book published by The Royal Pharmaceutical Society of Great Britain offers extensive, unbiased, evaluated information on worldwide drugs and related substances. It provides quick and easy searching for pharmacological and therapeutic data, synonyms, and manufacturers' brand names.

What's in MARTINDALE?

The MARTINDALE database contains information on drugs in clinical use worldwide, as well as selected investigational and veterinary drugs, herbal medicines, pharmaceutical excipients, vitamins and nutritional agents, vaccines, radiopharmaceuticals, contrast media and diagnostic agents, medicinal gases, drugs of abuse and recreational drugs, toxic substances, disinfectants, and pesticides. Sections of text summarize the relevant information, followed, if appropriate, by referenced abstracts or reviews that expand upon the details given in the text or add additional information. The contents may be categorized as follows:

- Generic drugs names, including U.S., British, and international approved names
- Synonyms/chemical names
- Molecular formula/molecular weight, CAS registry numbers
- Pharmacopeias
- Physical characteristics
- Adverse effects and their treatment
- Precautions, including contraindications
- Interactions
- Pharmacokinetics
- Uses and Administration, including pharmacology and dosage
- Preparations and brand names

Preparations summaries of more than 70,000 proprietary products from 17 countries are included. Information is provided on brand name, manufacturer, country of origin, active constituents, and licensed uses. Cross-references link each ingredient to an appropriate drug monograph when possible.

In addition, more than 600 disease treatment reviews offer overviews of the diseases and drugs used in their treatment, along with key references. Cross-references are provided between disease reviews and relevant drug monographs.

MARTINDALE coverage includes:

- More than 5,300 drug monographs
- Over 70,000 proprietary preparations
- At least 6,000 manufacturers
- More than 600 disease treatment reviews
- Over 200 herbal medicine monographs
- At least 5,000 herbal preparations

Material Safety Data Sheets (MSDS)

Prepared by the US Pharmacopeial Convention

Material Safety Data Sheets are a vital part of every hospital/company Hazard Communication Program. This electronic version of more than 1,000 MSDS issued by the US Pharmacopeial Convention offers quick access to drug and chemical information, including health hazards, handling procedures, and government regulations.

Information Included in MSDS:

Each sheet contains summaries of key information about hazardous substances in the following format:



- Identify
- Hazardous ingredients
- Physical and chemical characteristics
- Physical hazards
- Health hazards
- Special protection information
- Special precautions and spill/leak procedures

P&T QUIK® Reports

P&T QUIK Reports assists pharmacists in preparing for Pharmacy and Therapeutics Committee meetings. P&T QUIK contains monographs on drugs being considered by P&T Committees for placement on the hospital formulary. Included are drugs recently approved by the FDA, those of intense interest, or drugs suggested by subscribers. Twelve monographs are added each quarter, and the most recent 24 months of monographs are available.

Physicians' Desk Reference® (PDR)

The electronic Physicians' Desk Reference provides fast, easy access to information found in the popular Physicians' Desk Reference® (PDR), the PDR for Nonprescription Drugs and Dietary Supplements[™], and the PDR for Ophthalmic Medicines. The content includes current FDA-approved prescription drugs, commonly used over-the-counter drugs, and specialized ophthalmic pharmaceuticals. It provides detailed data on ingredients, drug interactions, side effects, recommended dosages, clinical pharmacology, pediatric use, contraindications, and available forms. Information on drug manufacturers is also included.

POISINDEX® System

Commercial, Pharmaceutical, Biological Substance Identification & Management

The POISINDEX System identifies ingredients for hundreds of thousands of commercial, pharmaceutical, and biological substances. Each substance is linked to one or more management documents providing information on clinical effects, range of toxicity, and treatment protocols for exposures involving the substances.

What's in POISINDEX?

The system contains the following modules:

- Product/Substance Identification
- Toxicological Managements
- Summary information

Product/Substance Identification:

POISINDEX® Product/Substance Identification contains information on over 1,000,000 different household items, such as:

- Common household products (cleaners, personal care, insect protection)
- Industrial chemicals (manufacturing agents)
- Industrial products (cleaners, protective agents)
- Pharmaceutical products (prescriptions, generic, trade, OTC, veterinary)

• Biological entities (botanic, zoologic, food poisoning)

Summary Toxicology Information

Summary Toxicology Information provides brief highlights of clinical effect, treatment, and range of toxicity information. The content delivers answers quickly and efficiently. The documents also link directly to the more in-depth POISINDEX® System Toxicological Managements (available only with a current POISINDEX subscription).

Toxicological Managements:

Toxicological Managements offers over 850 detailed courses of treatment for someone exposed to a substance.

Reproductive Effects

Reproductive Risk Information

Reproductive Effects is a unique collection of reproductive risk information databases. It provides information covering full-range health effects that is helpful when assessing reproductive risks of drugs, chemicals, and physical and environmental agents. Risks to females, males, and unborn children are discussed.

What's in Reproductive Effects?

Reproductive Effects can define potential problems for women, men, and the effect on unborn children. It also can define risks associated with drugs and other substances, both legal and illicit. It suggests treatment plans to minimize risks during pregnancy.

Reproductive Effects includes the following modules:

- REPROTEXT® Database
- REPROTOX® Reproduction Hazard Information
- Shepard's Catalog of Teratogenic Agents
- TERIS Teratogenic Information System

REPROTEXT® Database

Reproductive Hazard Reference

REPROTEXT includes information such as the following:

- Presents in-depth reviews on full-range health effects of industrial chemicals commonly encountered in the workplace
- Covers physical agents including heat, noise, and radiation
- Describes effects on human reproduction of acute and chronic exposures to substances, as well as reproductive, carcinogenic, and genetic influences
- Includes unique Dual Health Hazard Ranking System for general toxicity, and "gradecard" scale suggesting level of reproductive hazard
- Helps set risk reducing priorities by combining hazard rankings with exposure estimates
- · Assists with development of programs to improve employee protection guidelines

REPROTOX®



Reproductive Hazard Reference

Developed by the Reproductive Toxicology Center, Columbia Hospital for Women Medical Center, Washington, D.C.

REPROTOX includes information such as the following:

- Provides information regarding the impact of the physical and chemical environment on human reproduction and development
- Covers all aspects of reproduction including fertility, male exposures, and lactation
- Discusses reproductive influences of industrial and environmental chemicals; prescription, over-the-counter, and recreational drugs; and nutritional agents
- Includes latest, most relevant teratology articles

Shepard's

Catalog of Teratogenic Agents

Developed by Dr. Thomas H. Shepard, Professor of Pediatrics, University of Washington, Co-authored by Dr. Ronald J. Lemire, Professor of Pediatrics, University of Washington; Director, In-Patient Services at Seattle Children's Hospital and Regional Medical Center

Shepard's includes information such as the following:

- Electronic version of Shepard's Catalog
- Up-to-date information on teratogenic agents including chemicals, food additives, household products, environmental pollutants, pharmaceuticals, and viruses
- Includes research methods, results, and citations from both Japanese and Russian literature

TERIS

Teratogen Information System Developed by the University of Washington

TERIS includes information such as the following:

- Current information on the teratogenic effects of drugs and environmental agents
- Agent summaries derived from thorough literature reviews rate reproductive risk and explain data used to determine the rating

TOMES® System

Handling hazardous chemicals is routine in many workplaces. The TOMES® System provides the critical medical and hazard data needed for immediate, effective response to exposure and accidents in chemical handling. Designed to help reduce the risk of exposure and injury, the TOMES System provides:

- Treatment guidelines for acute chemical exposures
- Evacuation procedures
- Chemical disposal information

General areas unrelated to chemicals are addressed such as ergonomics and human health risk assessment. The System's three databases - MEDITEXT®, HAZARDTEXT®, and INFOTEXT® - are integrated to ensure quick access to the fully reviewed, referenced information.

The TOMES System includes:

Hazard Management Information

Hazard Management Information documents can help you understand the issues related to environmental impact including how to implement emergency reaction to chemicals and their impact: Fire, Clean up, Personal protection. These documents also help you manage chemicals safely in the workplace.

INFOTEXT® Documents

Infotext documents provide regulatory listings and other general health and safety data. Includes industry-related areas (not chemical-specific) including ergonomics, endocrine disruptors, and human health risk assessment.

Medical Management Information

The Medical Management Information monographs can help you evaluate issues associated with exposure. They deliver information on acute exposure, treatment, and adverse health effects.

United Kingdom Drug Information - eMC SmPC

The United Kingdom Drug Information database is a compilation of all pharmaceuticals marketed and approved for use in the United Kingdom. It is made up of the Summary of Product Characteristics (SmPC) from the electronic Medicines Compendium (eMC).

The SmPC is used by healthcare professionals, such as doctors, nurses and pharmacists, and explains how to use and prescribe a medicine. They are written and updated by pharmaceutical companies and are based on their research and product knowledge. The SmPC is then checked and approved by the UK or European medicines licensing agency.

The contents may be categorized as follows:

- Name of the medicinal product
- Qualitative and quantitative composition
- Pharmaceutical form
- Clinical particulars Therapeutic indications, Posology and method of administration, Contraindications, Special warnings and precautions for use, Interactions with other medicinal products and other forms of interaction; Pregnancy and lactation, Effects on ability to drive and use machines; Undesirable effects and Overdose
- Pharmacological properties Pharmacodynamic properties; Pharmacokinetic properties; Preclinical safety data
- Pharmaceutical properties List of excipients, Incompatibilities, Shelf life
- Special precautions for storage, Nature and contents of container, Special precautions for disposal and other handling
- Marketing authorization holder
- Marketing authorization number(s)
- Date of first authorization/renewal of the authorization
- Date of revision of the text
- Dosimetry
- Instructions for preparation of radiopharmaceuticals
- Legal category

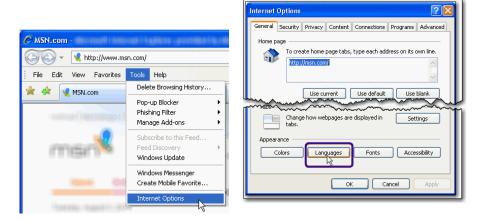
APPENDIX B: BROWSER SETTINGS

LOCALIZED LANGUAGE SUPPORT

By modifying a few settings in your Internet browser, you can view some of the elements of the Micromedex interface in your local language. These settings only impact certain buttons and descriptions on the interface; the content is not translated.

Setting Up Language Support in Microsoft Internet Explorer

1. From the Tools menu, select Internet Options.



- 2. Click Languages.
- 3. From the Language Preference dialog, click Add.

Language Preference	Add Language
Language Preference Add the languages you use to read websites, listing in order of preference. Only add the ones you need, as some characters can be used to inter language. Language: English (United States) [en-us] Move down Remove Add Prefix and suffix options Do not add 'www' to the beginning of typed web addresses Specify the suffix (for example. net) that should be addresses Specify the suffix (for example. net) shift + Enter. Suffix: . OK Cancel	Language: Matese [mt-MT] Maori [mi-N2] Marethi [mr-IN] Mongolan (Cyrillic) [mn-MN] Northern Sotho [nso-ZA] Norwegian (Bkma) [nb-N0] Norwegian (Bkma) [nb-N0] Norwegian (Bkma) [nb-N0] Portuguese (Portuga) [nb-PT] Portuguese (Portuga) [nb-PT] Portuguese (Portuga) [nb-PT] Portuguese (Portuga) [nb-PT] Portuguese (Portuga) [nb-PT] Quechua (Eoudor) [nuz-EC] Quechua (Ecudor) [nuz-EC] Quechua (Ecudor) [nuz-EC] Quechua (Ecudor) [nuz-EC] Quechua (Ecudor) [nuz-EC] Quechua (Ecudor) [nuz-EC] Quechua (Cancel

4. From Add Languages, scroll to the desired language, click to select, then click OK.

Note: The following language sets are supported: Italian = Italian (Italy) [it-IT] Chinese (simplified) = Chinese (PRC) [zh-CN] Chinese (traditional) = Chinese (Taiwan) [zh-TW] German = German (Germany) [de-DE] Korean = Korean [ko-KR] Portuguese (Brazilian) = Portuguese (Brazil) [pt-BR] Spanish = Spanish (International Sort) [es-ES]

5. From *Language Preference* select the language added in the previous step and then click **Move Up** to place it first (as the default).

eference. Only add the ones y	ad websites, listing in order of ou need, as some characters ca
used to impersonate website:	s in other languages.
Language:	
English (United States) [en-us Portuguese (Brazil) [pt-BR]	Move up
Portuguese (prazil) [pr-bit]	Move down
	Remove
	Add
Prefix and suffix options	
_ '	ginning of typed web addresses
	.net) that should be added to
typed web addresses when yo	

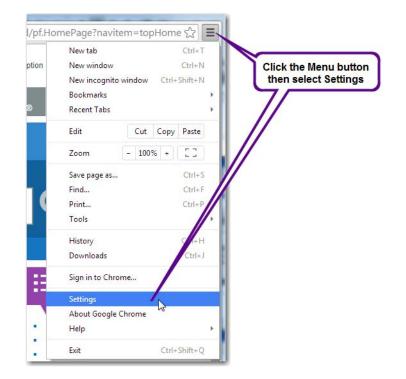
- 6. Click OK until the Tools menu closes and you return to the browser.
- 7. Open Micromedex Solutions. The default language is reflected in the user interface.

				Minha Inscrição Gateway Ajuda Centro de download Sai			
	Interações			Comparação			Outras
						NeoFax® / Pediatrics	ferramentas ▼



Setting Up Language Support in Google Chrome

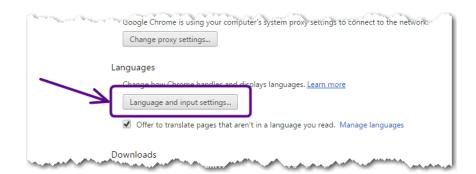
1. Click the Menu button in the upper right corner of the browser and select Settings.



2. At the bottom of the page click Show advanced settings...



3. Scroll down and click the Language and input settings... button.



- Languages
 Add languages and drag to order them based on your preference. Learn more

 Languages
 English (United States)

 English (United States)
 Google Chrome is displayed in this language

 This language is used for spell checking
 Offer to translate pages in this language

 Idd
 Image: Image
- 4. On the Languages screen click the Add button.

- 5. Select a language from the Add language drop-down and click OK.
 - Note: The following languages are supported: Chinese (simplified) Chinese (traditional) German - Deutsch Italian - italiano Portuguese (Brazilian) - portugues (Brasil)

Add language	
Language:	
Portuguese (Brazil) - português (Brasil)	•
Moldavian - mo	-
Mongolian	h
Nepali - नेपाली	
Norwegian - norsk	
Norwegian Bokmål - norsk bokmål	
Norwegian Nynorsk - nynorsk	
Occitan	
Oriya - ଓଡ଼ିଆ	
Oromo - Oromoo	
يښتو - Pashto	
فارسی - Persian	
Polish - polski	
Portuguese - português	
Portuguese (Brazil) - português (Brasil)	
Portuguese (Portugal) - português (Portugal) 🛛 🗟	
Punjabi - ਪੰਜਾਬੀ	
Quechua	
Romanian - română	
Romansh - rumantsch	_
Russian - русский	•



6. On the left side of the *Languages* screen highlight the language you selected in Step 5 and drag it to the top of the list. Then click **Done**.

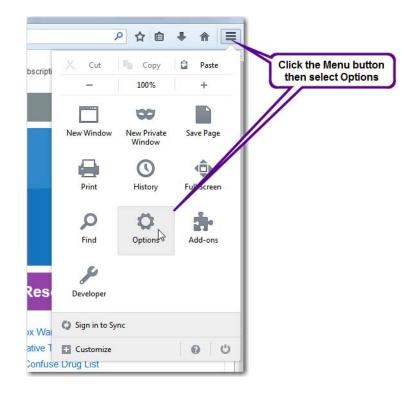
to the top e list.	Portuguese (Brazil) - português (Brasil)
Portuguese (Brazil)	Display Google Chrome in this language
Portuguese	Use this language for spell checking
English (United States)	Offer to translate pages in this language
English	
Add	
Enable spell checking	When finished

7. Open Micromedex Solutions. The default language is reflected in the user interface.

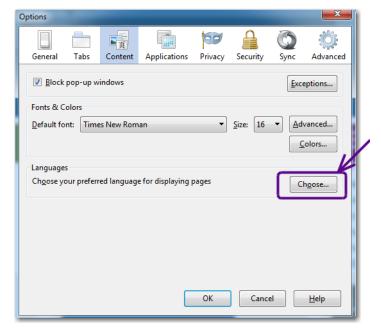
				Minha Inscrição Gateway Ajuda Centro de download Sai			
			de medicamentos			NeoFax® / Pediatrics	Outras ferramentas ▼

Setting Up Language Support in Mozilla Firefox

1. Click the Menu button in the upper right corner of the browser and select Options.

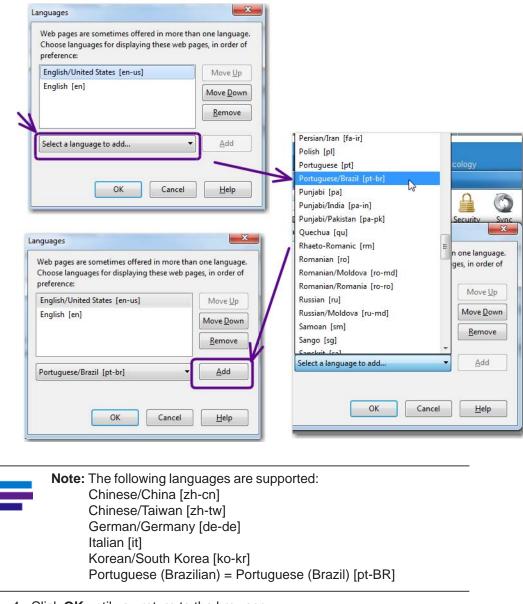


2. On the Options dialog next to Languages click the Choose... button.





3. From the *Language* dialog click the **Select a language to add...** drop-down, select a language, and click **Add**.



- 4. Click **OK** until you return to the browser.
- 5. Open Micromedex Solutions. The default language is reflected in the user interface.

				Minha Inscrição Gateway Ajuda Centro de download Sair			
Início			de medicamentos			NeoFax® / Pediatrics	Outras ferramentas ▼

MICROMEDEX SEARCH ACCELERATOR

Enjoy fast and easy access to clinical information in Micromedex® Solutions from any browser-based program, using the Micromedex Search Accelerator. With some simple modifications to your Internet browser settings, you can search Micromedex from other web applications (e.g., an EHR or HIS) or Internet browser sessions without having to first navigate to the Micromedex home page.

With an active Micromedex session (authenticated via a User Name and Password or a recognized IP address), you can be anywhere on the Web and go directly to a search results page in Micromedex.

This value-added feature is similar to Search Providers and Accelerator add-ons widely available on the web. Windows® Internet Explorer, Google Chrome, and Mozilla Firefox® all have this capability with some minor end-user browser configuration.

Workflow Example:

(*Example demonstrates the workflow in* Microsoft Internet Explorer Version 8. *Exact workflow can vary for other browsers and versions*)

From any Web page, highlight the term and either click on the accelerator icon **2** or right-click the mouse to open the available options.

What antiviral drugs are recommended this flu season?

There are two FDA-approved antiviral drugs recommended by CDC this season. The brand names for these are Tamiflu® (generic name oseltamivir) and Relenza® (generic name zanamivir). Tamiflu® is available as a pill or liquid and Relenza® is a power that is inhaled. (Relenza® is not for people with breathing problems like asthma or COPD, for example.)

Select Search with Micromedex Search.

(generic name oseltamivir)	commended by CDC this se) and Relenza® (generic nar	me zanamivir).
d antiviral drugs be ta niflu® and Relenza® are us ed the medicine for longer t	 Blog with Windows Live E-mail with Windows Live Map with Live Search 	although peopl



The Micromedex drug landing page displays:

utes: Oral		Regulatory Author
Quick Answers	In-Depth Answers All Results	FDA
Dosing/Administration	Dosing/Administration	Related Results
Adult Dosing	Adult Dosing	Disease
Pediatric Dosing	See 'In-Depth Answers' for detailed results.	Toxicology
FDA Uses	Important Note	Consumer Drug Information
Non-FDA Uses	In July 2011, the manufacturer changed the commercially available	Drug Consults
Dose Adjustments	suspension concentration from 12 mg/mL to 6 mg/mL. There were no	eMC SmPC (UK)
Administration	quality issues with the 12 mg/mL product; therefore, the 12 mg/mL	Index Nominum
Comparative Efficacy	suspension may remain in the marketplace and in state or national stockpiles until supplies expire. The 12 mg/mL concentration will no longer	IT- Dialogo Sui Farmaci Martindale
Place In Therapy	be marketed after current supplies run out [1].	PDR®
Medication Safety	During shortage of commercially manufactured oseltamivir (Tamiflu(R))	Product Lookup - Martindale

Micromedex Search Accelerator Configuration

JUMP TO: Google Chrome | Mozilla Firefox | Information for System Administrators

Microsoft Internet Explorer

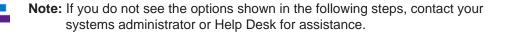
Please be aware, the installation, and workflow may vary slightly between versions of Internet Explorer.

Internet Explorer Version 9, 10, 11

Note: Internet Explorer Version 10 users (with Microsoft Windows 8 operating system) - The Micromedex Search Accelerator functionality is available in the Desktop view only.

Installation of the search provider cannot be initiated by individual users. If you wish to use the Micromedex Search Accelerator and you have version 9, 10, or 11 installed, please contact your facility's Help Desk or systems administrator for assistance. Help Desk personnel or systems administrators will install Micromedex Search Accelerator utilizing Windows Group Policy. More information on the Windows Group Policy installation can be found in the section found at the end of this document titled, Information for System Administrators.

Internet Explorer Version 8



 From an active Micromedex session, notice that the arrow in the Search drop-down is highlighted (yellow). This means that Micromedex is a supported Search Provider. Click on the on the arrow to open the menu.



2. Select Add Search Providers.

🗸 🗲 🗙 Google	P -	Google 😽 🖌	P 室
	Google		Google
	✓ Google (Default)		✓ Google (Default)
	* Search Micromedex		* Search Micromedex
- N - N - 1	Add Search Providers	Search Micromedex	Add Search Providers 📐 🔸
:	Find on this Page	;	Find on this Page
	Find More Providers		Find More Providers
MICROMEDEX GATEWA	Change Search Defaults	N MICROMEDEX GATEWA	Change Search Defaults

3. Select Search Micromedex.

Direct searches into Micromedex will now be available via the **Search Micromedex** option in the Search Provider box in the upper-right corner of the Internet Explorer.

With an active subscription and access via IP address or User Name and Password you can search Micromedex without first visiting the Micromedex home page.

Note: Web-based applications such as an HIS or EHR system can also gain direct access using the Search Accelerator and the Internet Explorer Search Accelerator icon **1**.

Micromedex Search Accelerator Workflow (Microsoft® Internet Explorer Version 8)

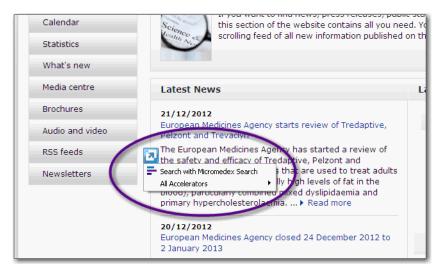
- Select or highlight a term or terms of interest in the web application you are using. The Search Accelerator icon appears.
- Click the icon.

APPENDIX B: BROWSER SETTINGS





Clicking the icon opens the search options menu, allowing a one-click search of your selected terms from your default Search Provider, or a selection option to use other Search Providers installed to your browser.



IP-Authenticated Users

The search should be seamless, requiring no additional steps or logins when searching using the search box, or the Micromedex Search Accelerator.

User Name and Password Users and Trusted source URL

You will be required to login to Micromedex before initiating searches from external web pages. To limit having to repetitively enter your User Name and Password, use the "*Remember Password*" option (cookies must be enabled in your browser). Provided your browser session remains active, you may search Micromedex from any website or tool without first visiting the Micromedex home page.

If you wish to designate Micromedex Search as your default provider perform the following steps:

Designate Micromedex Search as your Default Search Provider (Internet Explorer 8)

1. Click the arrow on the Search drop-down.



2. Click Manage Search Providers.

Soogle	P	Google	P 🔤
	🚼 Google (Default)	1000	🚼 Google (Default)
	💐 Live Search	10000	💱 Live Search
	F Micromedex Search		F Micromedex Search
	Search the web (Babylon)		🔎 Search the web (Babylon)
/ICROMEDEX GAT	Search Micromedex	MICROMEDEX GAT	Search Micromedex
AICROMEDEX GAT	Add Search Providers	MICROMEDEX GAT	Add Search Providers
	Find on this Page		Find on this Page
tors Formular	Find More Providers	ators Formular	Find More Providers
	Manage Search Providers		Manage Search Providers

3. Click Micromedex Search.

Manage Add-ons			
View and manage your Inte	rnet Explorer add-ons		
Add-on Types	Name	Status	Listing order 🔺
🚳 Toolbars and Extensions	Google	Default	1
	Micromedex Search		2
Accelerators	Search the web (Babylon)		4
anPrivate Filtering			
An initiate nitening			
	<		>
Select the search provider yo	u want to view or change.		
	Ĭ		
Prevent programs from suggesting	ng changes to my default search pr	ovider	
Find more search providers Learn more about search provider pr	eferences		Close



4. Click Set as default.

Manage Add-ons			
View and manage your Inte	rnet Explorer add-on	s	
Add-on Types & Toolbars and Extensions Search Providers Accelerators In Private Filtering	Name Google Live Search Micromedex Search Search the web (Baby	Status Default	Listing order A 1 2 3 4
	<		>
Micromedex Search			
	www.thomsonhc.com/micr allable Disable suggestions	ng order: Move up Move dov omedex2/librarian/deeplinkacc	
Prevent programs from suggest	ing changes to my default	search provider	ault Remove
Find more search providers Learn more about search provider p	references		Close

- 5. Click Close.
- 6. Now *Micromedex Search* displays in the Search Provider box as the default. You can enter a term and click the search button to go directly to the Micromedex search results page.



Google Chrome

Google Chrome supports adding search engines to the Google Omnibox. Google Chrome does not use the separate Search Provider box that is common to Microsoft® Internet Explorer and Mozilla Firefox®. Setup is fast and easy:

- 1. Open the Google configuration screen by selecting the ≡ icon in the upper-right, then select *Settings*.
- 2. Find the Search area of the settings screen and select Manage Search Engines...
- 3. On the Search Engines screen, scroll to the bottom of the screen to find the text boxes to enter the parameters of your new search:



4. From left to right, enter the name, Micromedex, a shortcut trigger word of your choice (e.g. MDX), and the following URL with **no spaces or line breaks**:

http://www.micromedexsolutions.com/micromedex2/librarian/deepli
nkaccess?SearchTerm=%s



If you copy and paste the URL, a space may be inserted, which will prevent the Micromedex Search Accelerator from functioning.

- 5. Press the Enter key. Micromedex is added to the list of Other search engines.
- 6. Hover your mouse over Micromedex and click Make default.

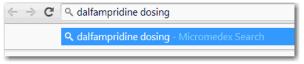
Google	google.com	{google:baseURL}search?q=%s&{google:RLZ}{go
Yahoo!	yahoo.com	https://search.yahoo.com/search?ei={inputEncodi
Bing	bing.com	https://www.bing.com/search?setmkt=en-US&q=
Ask	ask.com	http://www.ask.com/web?q=%s
AOL (Default)	aol.com	http://search.aol.com/aol/search?q=%s
ner search engines		
cdc.gov	cdc.gov	http://www.cdc.gov/search.do?subset=&queryTe
CNET.com	cnet.com	http://cnet.com/1770-5_1-0-{startPage?}.html?qu
CNN.com	cnn.com	http://www.cnn.com/search/?query=%s
Dictionary	merriam-webster.com	http://www.merriam-webster.com/dictionary/%s
Google Translate	translate.google.com	http://translate.google.com/?source=osdd#auto
Micromedex	mdx	http://www.micromedexsolutio Make default
Oxford English Dictionary	oed.com	http://www.oed.com:80/search?searchType=dicti
🗸 Wikipedia (es)	es.wikipedia.org	http://es.wikipedia.org/w/index.php?title=Especia
YouTube Video Search	youtube.com	http://www.youtube.com/results?search_query=
Add a new search engine	Keyword	URL with %s in place of qu

7. Click Done.

Note: If you choose to set Micromedex as the default search engine in Google Chrome, any terms entered into the Google Chrome Omnibox will search Micromedex first.

Search Accelerator Workflow (Google Chrome)

1. Type your search term(s) and press the Enter key.





2. In this example you will navigate directly to the Dosing section of the Micromedex Summary Drug Information monograph for Dalfampridine.

				My Subscription Gateway H	leip Download Center Logout
Drug Home Interactions IV Co	ompatibility Drug ID	Drug Comparison	CareNotes®	NeoFax® / Pediatrics	Other Tools ▼
	Search Microme	dex		Q	
DOSING & INDICATIONS Adult Dosing Pediatric Dosing Dose Adjustments FDA-Labeled Indications Non-FDA Labeled Indications	Dalfampridine DrugPoint® Summary	OTHER SOUR	RCES	Displa	y Entire Document ⊕ Print
REMS	DOSING & INDICA	ATIONS			
CONTRAINDICATIONS/WARNINGS Contraindications Precautions Pregnancy Category Breast Feeding	 Adult Dosing Pediatric Dosing 				
DRUG INTERACTIONS (SINGLE)					
ADVERSE EFFECTS Common Serious	 Dose Adjustments 				
NAME INFO	FDA-Labeled Indication	ons			
Drug Images (US) US Trade Names Class Regulatory Status Generic Availability	 Non-FDA Labeled Indi 				
MECHANISM OF	and a second				

An additional benefit of using Google Chrome is that it will retain search history, saving time on re-entry of terms as you begin to build a search history. However, you are not able to launch a search for Micromedex from the body of a web page as in Internet Explorer and Firefox.

Mozilla Firefox

Micromedex® Solutions can also be added as a search engine in Firefox, but it requires an "Add-on" to the browser. In most cases, the workflow and user experience for the Search Accelerator is very similar to the experience in Microsoft Internet Explorer. Follow the instructions below:

- 1. Download and install the Add to Search Bar add-on, available from the Mozilla Add-ons website: <u>https://addons.mozilla.org/en-US/firefox/addon/add-to-search-bar/</u>
- 2. Login to Micromedex at: <u>www.micromedexsolutions.com/micromedex2/librarian</u>
- 3. On the Micromedex home page, select the arrow in the right-hand search box in the header of the browser.

4. Select "Add Search Micromedex".

CROMEDEX®	× (+							
omedexsolutions	.com/micromedex2/libra	rian/				⊤ Cł	<u>a</u> , -	Amazon.com
							8	Google
							Y	Yahoo
EDEX	SOLUTIONS						5	Bing
Drug			Drug				a,	Amazon.com
Interactions	IV Compatibility	Drug ID	Comparison	CareNotes®	NeoFax® / Pediatrics	Other ⁻	eboy	eBay
	iv companies	Crugito	Companeon	Galoritotoo		Other	У	Twitter
							W	Wikipedia (en)
			All				F	Add "Search Micromedex"
man		s s	earch Dr	<u>,, .</u>	- I more			Manage Search Engines

Using Micromedex as a Search Engine in Firefox

Once configured, a Micromedex Search is available from the search engine box in the upper-right corner of the browser. You can manage the priority of your search engines and establish a default from the drop-down.



With an active session in Micromedex and proper authentication, you can search without first visiting the Micromedex home page.

Home - MICROMEDEX® 2.0 × 3 AMPYRA® (dalfampridine)	Extended Rel × +
(ampyra-hcp.com/hcp/home/	☆ マ C 📄 - ampyra 🔎 🎓
Request Form Download a Blank Prescription and Service Request Form	Sign Up Here Learn More
Indication AMPYRA® (dalfampridine) Extended Release Tablets, 10 mm is indic an increase in walki Select All Select All	ated as a treatment to imprate Walking in patients with multiple sclerosis (MS). This was demonstrated
Seizures have been generally within days	of seizures occurred at the recommended dose and in patients without a history of seizures, and keting, 82 seizures were either reported or confirmed by a healthcare practitioner among 48,000
AMPYRA users. Inspect Element (Q)	
Anaphylactic reaction Inspect Element with Firebug	period. If an anaphylactic or other serious allergic reaction occurs, AMPYRA should be discontinued
IMPORTANT SAFETY INFORMATION	
AMPYRA is contraindicated in patients with a history of seizures or wi	ith moderate or severe renal impairment (CrCI ≤50 mL/min).

Note: Other web-based applications such as an HIS or EHR can also access Micromedex. Simply right-click on your selected terms and select the **Micromedex Search** option. Please note however that the Micromedex Search must be set as your default search engine.



Information for System Administrators

In the interest of managing end user desktops in a networked environment, some customers may have policies in place that limit their end users' ability to install plug-ins and add-ons to the web browser. The information in this section is included in the interest of aiding IT support professionals in deploying the Micromedex open search description to end user desktops according to group policy requirements.

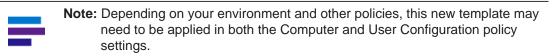
Extending the Micromedex search to the Microsoft® Internet Explorer and Mozilla Firefox® browser is based on the OpenSearch specification (<u>www.opensearch.org</u>). Using an Open Search Description document, web developers have the ability to describe a search engine to a browser or search client application. The goal of the Micromedex open search is to allow faster and easier access to preferred clinical information.

For desktops installed with Internet Explorer, the Micromedex Search Accelerator can be distributed via Group Policy settings. Refer to the Microsoft Knowledge Base (<u>http://support.microsoft.com/kb/918238</u>, *How to create custom .adm or .admx files to add search providers to the toolbar search box in Internet Explorer*) and TechNet articles (<u>http://technet.microsoft.com/en-us/library/cc985351.aspx</u>, <u>Group Policy and Internet Explorer</u> 8) for suggestions on deploying custom Search Provider lists.

The policy to apply search providers to end user desktops can be found in the "Add a specific list of search providers to the user's search provider list" group policy. If you have already applied restrictions on search providers, the "Restrict search providers to a specific list of providers" group policy may also apply. These policies reside in the Windows Components/Internet Explorer area of the group policy tree.

Adding the Micromedex Search Accelerator to the Preferred Provider List:

- Using the Group Policy Management Editor (an Active Directory snap-in), create a new Group Policy Object (GPO) for the preferred provider list, which will include Micromedex Search.
- 2. Edit the newly created GPO to include Micromedex Search.
- 3. Policy is configured under User Configuration> Policies> Administrative Templates> Windows Components> Internet Explorer.
- Enable the Add a specific list of search providers to the search provider list policy and include Micromedex.
 If your facility is currently in the practice of restricting Search Providers, it is recommended that you also configure the Restrict search providers to a specific list of providers policy, and include Micromedex.
- 5. Create the necessary .ADM file (e.g. providers.adm).



Right-click on Administrative Templates and select Add/Remove Templates and add the new .adm file

6. The GPO has now been created. Add groups and computers to the GPO to enforce your new policy.

If you require assistance, please contact us. See "Contact Truven Health Analytics" on page i...

COMPATIBILITY VIEW IN INTERNET EXPLORER

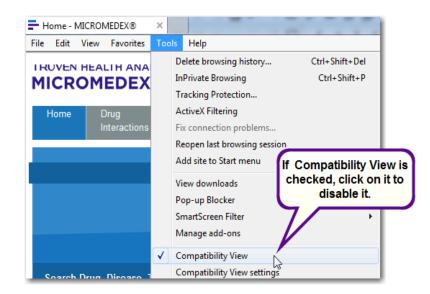
If Micromedex Solutions does not display correctly in Internet Explorer, it may be because Compatibility View is enabled. Use one of the following options to disable Compatibility View.



Note: Depending on the version of Internet Explorer, your browser may look slightly different than the example.

Option 1

- 1. Click **Tools** in the Internet Explorer menu.
- 2. If Compatibility View is checked, click on it to disable it.

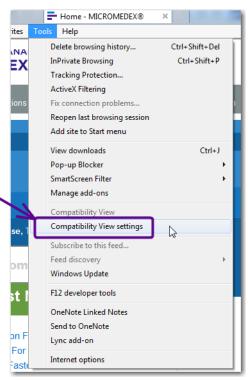


Option 2

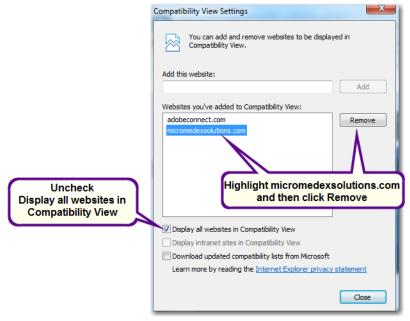
1. Click **Tools** in the Internet Explorer menu.



2. If Compatibility View is not checked, click Compatibility View settings.



- 3. Uncheck Display all websites in Compatibility View, if applicable.
- 4. If micromedexsolutions.com is listed in the box in the middle of the window, click on it and then click **Remove**.



5. Click Close.

If you need assistance, contact the Customer Resource Center. See <u>"Contact Truven Health</u> <u>Analytics" on page i</u>.

APPENDIX C: RED BOOK ONLINE - AWP POLICY

Revised: October 1, 2014

Average Wholesale Price (AWP) Policy

The Average Wholesale Price (AWP) as published by Truven Health Analytics[™] is in most cases the manufacturer's¹ suggested AWP and does not reflect the *actual* AWP charged by a wholesaler. Truven Health bases the AWP data it publishes on the following:

- AWP is reported by the manufacturer, or
- AWP is calculated based on a markup specified by the manufacturer. This markup is typically based on the Wholesale Acquisition Cost (WAC) or Direct Price (DIRP), as provided by the manufacturer, but may be based on other pricing data provided by the manufacturer, **or**
- Suggested Wholesale Price (SWP) is reported by the manufacturer

When the manufacturer does not provide an AWP, a markup formula from which AWP can be calculated, or an SWP, Truven Health will calculate the AWP by applying a standard 20% markup over the manufacturer supplied WAC. If a WAC is not provided, the standard markup will be applied to the DIRP.

When the manufacturer supplies an SWP, the Truven Health AWP for that drug will be the manufacturer's reported SWP, even if the manufacturer supplies either or both a WAC and DIRP. Consequently, the published AWP may be greater than a 20% markup over the manufacturer supplied WAC or DIRP.

Please note that Truven Health does not perform any independent analysis to determine or calculate the actual AWP paid by providers² to wholesalers. Truven Health also does not independently investigate the actual WAC paid by wholesalers to manufacturers or DIRP paid by providers to manufacturers. Truven Health relies on the manufacturers to report the values for these categories as described above.

Truven Health provides a list of the manufacturers that do not provide the AWP or a markup formula. The list of these manufacturers and products is available at:

http://www.micromedex.com/products/redbook/awp/

Additionally, an ASCII text file with this same information is available to download. For more information on this file and instructions on downloading, please contact Truven Health Technical Support at:

http://www.micromedex.com/support/request/

Please refer to this AWP Policy as you review the pricing information contained in the Truven Health products.

1. The term "manufacturer" includes manufacturers, distributors, repackagers, and private labelers.

2. The term "provider" includes retailers, hospitals, physicians, and others buying either from the wholesaler or directly from the manufacturer for distribution to a patient.

Unit Price Calculations

Each product record in RED BOOK Online® contains as many as three of the following price quotations:

- The Average Wholesale Price (AWP)
- The Manufacturer's Direct Price (DIR)
- The Suggested Retail Price (SRP)
- The Federal Upper Limit Price (FUL) from the Healthcare Financing Administration
- (HCFA)
- The Wholesale Acquisition Cost (WAC)

The unit price is determined by dividing the per-package price by the total size of the package expressed as NCPDP (National Council for Prescription Drug Programs) units as shown below. Unit prices thus can be denoted three ways:

- 1. Price per gram (for products measured by weight, such as powders and ointments)
- 2. Price per milliliter (for products measured by liquid volume)
- 3. Price each, or apiece (for products sold by the item, such as tablets, lozenges, and suppositories)

For products measured by weight or volume, the following factors are used in converting to grams or milliliters.

Liquid		Dry	
1cc =	1 ml	4 drams =	15 gm
1 oz =	30 ml	1 oz =	30 gm
1 pt =	480 ml	1 lb =	454 gm
1 qt =	960 ml		
1 gal =	3840 ml		

The following formulas are used to calculate unit prices. Formula 1 (for products sold by the item)

Unit Price = Price per package Package Quantity e.g. \$15.00 -----= \$0.15 each 100 tablets

Formula 2 (for products sold by weight or volume)



Unit Price = Price per package or lot Product-weight/volume e.g. \$15.00 ------ = \$0.50/gm 30 gm

Formula 3 (for packages of multiple containers of the product)

Unit Price =

Price per package Product-weight/volume x Package Quantity

e.g.

\$15.00 ----- = \$0.15/ml

5 ml 20s

Dosage Form Descriptions

Code	Description
ACC	Accessory
AER	Aerosol Liquid
ARO	Aerosol powder
BAN	Bandage
BAR	Bar
BEA	Beads
C12	Capsule, extended release, 12 hour
C24	Capsule, extended release, 24 hour
CAK	Cake
САР	Capsule
CER	Capsule, extended release
СНІ	Chip
CRE	Cream
CRY	Crystal
СТВ	Chewable Tablet
DAP	Patch, Device Assisted
DEV	Device

DRE	Dressing
DSK	Disk
ECC	Capsule, delayed release
ECT	Tablet, enteric coated
ELI	Elixir
EMO	Emollient cream
EMU	Emulsion
FDS	Food, solid
FIL	Film
FLA	Flake
FOA	Foam
GAS	Gas
GEF	Powder, effervescent
GEL	Gel/jelly
GER	Powder for suspension, extended release
GFS	Gel forming solution
GRA	Granule
GUM	Gum
ICR	Insert, controlled release
Code	Description
	•
IMP	Implant
IMP	Implant
IMP INJ	Implant Injectable
IMP INJ KIT	Implant Injectable Kit
IMP INJ KIT LEA	Implant Injectable Kit Leaf
IMP INJ KIT LEA LIQ	Implant Injectable Kit Leaf Liquid
IMP INJ KIT LEA LIQ LOT	Implant Injectable Kit Leaf Liquid Lotion
IMP INJ KIT LEA LIQ LOT LOZ	Implant Injectable Kit Leaf Liquid Lotion Lozenge/troche Lump Enema
IMP INJ KIT LEA LIQ LOT LOZ LUM	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegrating
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA	Implant Injectable Kit Leaf Liquid Lotion Lozenge/troche Lump Enema
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegrating
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL OIN	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegratingEmollient ointment
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL OIN PAD	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegratingEmollient ointmentOil
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL OIN	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegratingEmollient ointmentOilOintment
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL OIN PAD	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegratingEmollient ointmentOilOintmentPadPastePowder for suspension
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL OIL OIN PAD PAS PDR PDS	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegratingEmollient ointmentOilOintmentPadPastePowder for suspensionPowder for solution
IMP INJ KIT LEA LIQ LOT LOZ LUM NMA ODT OEM OIL OIN PAD PAS PDR	ImplantInjectableKitLeafLiquidLotionLozenge/trocheLumpEnemaTablet, disintegratingEmollient ointmentOilOintmentPadPastePowder for suspension



PI3	Powder for suspension, 3 month
PI4	Powder for suspension, 4 month
PI6	Powder for suspension, 6 month
PKT	Packet
POD	Packet
POW	Powder
PRO	Prophylactic
PUD	Pudding
SER	Suspension, extended release
SGL	Capsule, liquid-filled
SHA	Shampoo
SHE	Sheet
SOA	Soap
SOL	Solution
SPE	Suppository, extended release
SPG	Sponge
SPR	Spray
STI	Stick
SUP	Suppository
Code	Description
SUS	Suspension
SWA	Swab
SYR	Syrup
SIK	
T12	Tablet, extended release, 12 hour
T12	Tablet, extended release, 12 hour
T12 T24	Tablet, extended release, 12 hourTablet, extended release, 24 hour
T12 T24 TAB	Tablet, extended release, 12 hourTablet, extended release, 24 hourTablet
T12 T24 TAB TAM	Tablet, extended release, 12 hour Tablet, extended release, 24 hour Tablet Tampon
T12 T24 TAB TAM TAP	Tablet, extended release, 12 hour Tablet, extended release, 24 hour Tablet Tampon Tape
T12 T24 TAB TAM TAP TBS	Tablet, extended release, 12 hour Tablet, extended release, 24 hour Tablet Tampon Tape Tablet for suspension
T12 T24 TAB TAM TAP TBS TCP	Tablet, extended release, 12 hour Tablet, extended release, 24 hour Tablet Tampon Tape Tablet for suspension Tablet, delayed release
T12 T24 TAB TAM TAP TBS TCP TDM	Tablet, extended release, 12 hour Tablet, extended release, 24 hour Tablet Tampon Tape Tablet for suspension Tablet, delayed release Patch, extended release
T12 T24 TAB TAM TAP TBS TCP TDM TDR	Tablet, extended release, 12 hourTablet, extended release, 24 hourTabletTamponTapeTablet for suspensionTablet, delayed releasePatch, extended releaseTablet, disintegrating, delayed release
T12 T24 TAB TAM TAP TBS TCP TDM TDR TEC	Tablet, extended release, 12 hourTablet, extended release, 24 hourTabletTamponTapeTablet for suspensionTablet, delayed releasePatch, extended releaseTablet, disintegrating, delayed releaseTablet, extended release, chewable
T12 T24 TAB TAM TAP TBS TCP TDM TDR TDR TEC TEF	Tablet, extended release, 12 hourTablet, extended release, 24 hourTabletTamponTapeTablet for suspensionTablet, delayed releasePatch, extended releaseTablet, disintegrating, delayed releaseTablet, extended release, chewableTablet, effervescent
T12 T24 TAB TAM TAP TBS TCP TDM TDR TDR TEC TEF TER	Tablet, extended release, 12 hourTablet, extended release, 24 hourTabletTamponTapeTablet for suspensionTablet, delayed releasePatch, extended releaseTablet, disintegrating, delayed releaseTablet, extended release, chewableTablet, effervescentTablet, extended release
T12 T24 TAB TAM TAP TBS TCP TDM TDR TDR TEC TEF TER TER TES	Tablet, extended release, 12 hourTablet, extended release, 24 hourTabletTamponTapeTablet for suspensionTablet, delayed releasePatch, extended releaseTablet, disintegrating, delayed releaseTablet, extended release, chewableTablet, effervescentTablet, extended releaseTablet, estended release

WAX Wax

Route Listing

Abbreviation	Route Listing
BC	BUCCAL MUCOSA
DE	DENTAL
EP	EPIDURAL
SG	GINGIVAL
IP	IMPLANTATION
ІН	INHALATION
IJ	INJECTION
IC	INTRACAVERNOSAL
ID	INTRADERMAL
IM	INTRAMUSCULAR
10	INTRAOCULAR
PT	INTRAPERITONEAL
PL	INTRAPLEURAL
IN	INTRATHECAL
ІТ	INTRATRACHEAL
IY	INTRATYMPANIC
IU	INTRAUTERINE
IV	INTRAVENOUS
IR	IRRIGATION
MR	MULTIPLE ROUTES
NS	NASAL
NA	NOT APPLICABLE
OP	OPHTHALMIC
PO	ORAL
MM	OROMUCOSAL
OT	OTIC
RC	RECTAL
NA	ROUTE NOT APPLICABLE
SC	SUBCUTANEOUS
SL	SUBLINGUAL
TP	TOPICAL APPLICATION
TD	TRANSDERMAL
UR	URETHRAL



IL	URINARY BLADDER
VG	VAGINAL

Orange Book Codes

The Orange Book Codes supply the FDA's therapeutic equivalence rating for applicable multisource categories. Codes beginning with 'A' signify the product is deemed therapeutically equivalent to the reference product for the category. Codes beginning with 'B' indicate bioequivalence has not been confirmed 'EE' is assigned by RED BOOK Online to products that have been evaluated by the FDA but for which an equivalence rating is not available.

Code	Interpretation
AA	No bioequivalence problems in conventional dosage forms
AB	Meets necessary bioequivalence requirements
AB1	Meets bioequivalence requirement to AB1 rated reference drug
AB2	Meets bioequivalence requirement to AB2 rated reference drug
AB3	Meets bioequivalence requirement to AB3 rated reference drug
AB4	Meets bioequivalence requirement to AB4 rated reference drug
AN	Solution or powder for aerosolization
AO	Injectable oil solution
AP	Injectable aqueous solution
AT	Topical product
BC	Controlled-release tablet, capsule, or injectable
BD	Documented bioequivalence problem
BE	Enteric coated oral dosage form
BN	Product in aerosol-nebulizer delivery system
BP	Potential bioequivalence problem
BR	Suppository or enema for systemic use
BS	Testing standards are insufficient for determination
BT	Topical product with bioequivalence issues
BX	Insufficient data to confirm bioequivalence
B*	Requires further FDA investigation and review
EE	This entry has been evaluated by the FDA, but a rating is not available for this labeler's product

RED BOOK Online Terms and Definitions

AWP: Average Wholesale Price

DIR: Direct Price

FUL: Federal Upper Limit

HRI: Health Related Item

- J-Codes: J-Codes are a series of reimbursement codes created by the Centers for Medicare and Medicaid Services (CMS) to allow Medicare and Medicaid providers and carriers to communicate their services in a consistent manner and validate fee schedules through standardized coding. While originally developed for Medicare and Medicaid use, this nationally recognized coding system is required by many private insurance carriers for claims reimbursements. J-Codes are most often associated with drugs administered as part of an office-based procedure, such as injectables and drugs used in chemotherapy.
- NDC: National Drug Code
- SRP: Suggested Retail Price
- UPC: Universal Product Code
- WAC: Wholesale Acquisition Cost

APPENDIX D: POISON CENTER INTEGRATION

This appendix is applicable to Poison Centers that have integrated Micromedex® Solutions Poisindex® with their case management tool.

As a Specialist in Poison Information you can easily add Micromedex Solutions product documents and detailed management documents to cases in your case management tool. The examples provided here are intended to show the general functionality that is available. You may encounter slight differences with your case management tool configuration.

PRODUCT OR SUBSTANCE SEARCH

Adding a Product Document

- 1. Enter a product or substance name, code, product ID, or active ingredient in your case management tool, and it initiates a search in Micromedex Solutions.
- 2. The Micromedex Solutions search results display in your Internet browser.
- 3. Click the **Select Product** icon next to one of the products to select it. Notice the message that temporarily displays indicating that the product was selected.

			Produc	My Subscription Geteway Help Download Cet Product: Lysol Antibacterial Hand Soap No-Touch Kitchen Sys has been selected				
Drug Home Interactions	IV Compatibility	Dru Drug ID Cor	-	CareNotes®	NeoFax® / Pe	ediatrics Other Tools ▼		
Tox & Drug Pro	Tox & Drug Product Results • Modify Se n							
Displaying results four	Displaying results found for "lysol" Case: 831923							
Results from: United States O			s (225) Synon	yms (202) Manuf	facturer Contact Info	(0) Results begin with F		
Results 1 - 50	Click a Select	Product icon	,			Page 1 of 5 Go € Previ		
Name	and a messa		ountry	Product ID	AAPCC Code	Related Document(s)		
1. 🛓 Lysol Action Gel - Toile Cleaner - Country	indicating that was sel		nited States	7413175	077309	IRRITANTS - POISINDEX® DETERGENTS-CATIONIC - POI		
2. Łysol Action Cleaner mg water	was ser	eclea.	nited States	7413323	077309	IRRITANTS - POISINDEX® DETERGENTS-CATIONIC - POI		
 Lysol Antibacterial Hand Touch Kitchen System - Shimmering Berry 	Soap No- Opaque Liquid	Reckitt Benckiser	United States	7411179	013283	DETERGENTS AND SOAPS-ANI AND NONIONIC - POISINDEX® HAND DISH DETERGENTS - POISINDEX®		

-OR-

4. Click a product name to view the product document. Then click the **Select Product** icon. Notice the message that temporarily displays indicating that the product was selected.

	& Drug Produ aying results found for		ults (Case: 788956	Modify Search			- Export
Results	from: United States Other Con	untries Disp	lay: Product/Substan	ce Names (225)	Synonyms (202)) Manufacturer Co	
Results	1 - 50						Page 1 of 5 0
	Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Documer
1. 🛓	Lysol Action Gel - Toilet Bowl Cleaner - Country	Clear Gel Liquid	Reckitt Benckiser	United States	7413175	077309	IRRITANTS - POI DETERGENTS-C/ POISINDEX®
2. 🛓	Lysol Action Gel - Toilet Bowl Cleaner - Spring Waterfall	Clear Gel Liquid	Reckitt Benckiser	United States	7413323	077309	IRRITANTS - POI DETERGENTS-C/ POISINDEX®
3. 🛓	Lysol Antibacterial Hand Soap No-Touch Kitchen System - Shimmering Berry	Opaque Liquid	Reckitt Benckiser	United States	7411179	013283	DETERGENTS A AND NONIONIC HAND DISH DET POISINDEX®
	Home Lysol An POISINDEX®	Drug Interacti tibacteria Product 4	Click the Sele icon, and a r lisplays indicat product was Select Product Case: 3 AAPCC Code: 013283	nessage ting that the selected.) Iparison	CareNotes®	My Subscription bacterial Hand Soa ys has been selec NeoFax® / Ped
		o <mark>cument Inforn</mark> EX [®] Managemer	its: DETERG	ENTS AND SOAPS	-ANIONIC AND	NONIONIC	
	Ingredient	5	HAND DI	SH DETERGENTS			
	Active-In	âte, ja	ice of the second s	do Rrathy Phytoine -	2,5 to 10%	· · · · · ·	

Depending on the configuration of your case management tool, the product document is automatically added to the case record or you perform another step within the tool to add it.

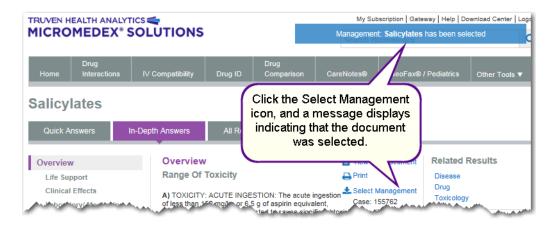
Adding a Detailed Management Document

- 1. Enter a product or substance name, code, product ID, or active ingredient in your case management tool, and it initiates a search in Micromedex Solutions.
- 2. The Micromedex Solutions search results display in your Internet browser.
- 3. Click on a Related Documents link for POISINDEX®, and the detailed management document displays. You can use the links on the left side of the page to view specific sections of the document, such as Range of Toxicity.



Displaying results fou Results from: United States C Jump To: ALL 0-9 A Results 1 - 50	Other Countries Displa	ay: Product/Substance	Names (63) Syr			SITIUIV	in with Results contain W X Y Z Go € Previous Next ▶
Name	Strength/ Form	Manufacturer	Country	Product ID	AAPCC Code	Related Documen	it(s)
. 🛓 Aspirin	80 MG Tablet	Bowman Pharmaceuticals	United States	2692675	041703	SALICYLATES - F	POISINDEX®
2. 🛓 Aspirin For Children	80 MG Tablet	Pennex Laboratories	United States	2969032	041703		
Quick Ans	swers In-Dep	oth Answers	All Results		Nie)		ISINDEX link to play the detailed document.
	port	Range Of Top	cicity		_		document.
Life Support Range Of Toxicity Print Drug Clinical Effects A) TOXICITY: ACUTE INGESTION: The acute ingestion Select Managen Drug Laboratory/ Monitoring of less than 150 mg/kg or 6.5 g of aspirin equivalent, Case: 155762 Toxic Treatment Overview whichever is less, is not expected to cause significant toxicity. For oil of whichever is less, is not expected to cause significant toxicity. For oil of Toxic Substances Included/ Synonyms B) FATALITIES: As little as 5 mL of oil of wintergreen has resulted in pediatric deaths. Prod C) CHRCONIC: Ingestions of greater than 100 mg/kg/day over 2 days may produce toxicity. Prod Prod D) THERAPEUTIC DOSE: For children an analgesic or antipyretic dose is 10 to 15 mg/kg: 325 to 650 mg for adults. Store for adults. Prod					Toxic Haza Medi MSD Prod		
		displa	he links to ay sections documen	s			

4. Click the **Select Management** icon to select the document. Notice the message that temporarily displays indicating that the management has been selected.



5. Depending on the configuration of your case management tool, the detailed management document is automatically added to the case record or you perform another step within the tool to add it.

DRUG IMPRINT SEARCH

Adding a Product Document

- 1. Enter the imprint on a pill you are trying to identify in your case management tool, and it initiates a search in Micromedex Solutions.
- 2. The Micromedex Solutions Drug Identification search results display in your Internet browser.
- 3. Click the **Select Product** icon next to one of the products to select it. Notice the message that temporarily displays indicating that the product was selected.

TRUVEN HEALTH	ANALYTICS 🗲 EX [®] SOLUTIO	Ser		teway Help Download Center azapine has been selected	
Drug Home Interac	ctions IV Compatibili		ug omparison areNot	ies® NeoFax	/ Pediatrics Other Tools
Drug Identi	ification Re	Click a Select I and a messa	ge displays	Images 🕨	
5 Matches for: "mi		ndicating that th select	•	Sort a	Il Results by: Imprint
3 Drug Matches for	'M'	7/	1 - 3 (of 3	matching drugs)	♣First ▲ Previous Next)
Display: ALL 0-9	ABCDF	G H I J K	L M N O P	Q R S T	U V W X Y Z
Imprint 🔻	Drug Mame	Manufacturer	Availability	AAPCC	Poisindex Manageme
MI 15 APO MI15	🛓 Mirtazapine	Apotex (Canada)	United States	310001	MIRTAZAPINE
MI 30 APO MI30	🛓 Mirtazapine	Apotex (Canada)	United States	310001	MIRTAZAPINE
MI-45 APO	🛓 Mirtazapine	Apotex (Canada)	United States	310001	MIRTAZAPINE

-OR-



APPENDIX D: POISON CENTER INTEGRATION

4. Click a product name to view the product document. Then click the **Select Product** icon. Notice the message that temporarily displays indicating that the product was selected.

Drug Identification Results (Modify Identification Search Images)					
5 Matches for: "mi"	Case: 653336			Sort	all Results by: Impr
3 Drug Matches for	'M'		1 - 3 (of 3	matching drugs)	≪First ∢Previous
Display: ALL 0-9	ABCDEF	GHIJKI	M N O P O	2 R S T (U V W X Y
Imprint 🔻	Drug Name	Manufacturer	Availability	AAPCC	Poisindex Mana
MI 15 APO MI15	🛓 Mirtazapine	Apotex (Canada)	United States	310001	MIRTAZAPINE
MI 30 APO MI30	🛓 Mirtazapine	Apotex (Canada)	United States	310001	MIRTAZAPINE
MI-45 APO	🛓 Mirtazapine	Apotex (Canada)	United States	310001	MIRTAZAPINE
REL	REDIENTS: MIRTAZAPINE ATED DOCUMENTS: POISIN JGDEX® EVALUATIONS - MIR	DEX® MANAGEMENTS - MIRT	AZAPINE		

5. Depending on the configuration of your case management tool, the document is automatically added to the case record or you perform another step within the tool to add it.

APPENDIX E: LANDING PAGE HIERARCHY

When multiple landing pages exist for a search result (drug, disease, toxicology, alternative medicine), the landing page that is displayed for the search result is determined by where it falls in the hierarchy below. You can navigate to any and all available landing pages when multiple landing page types exist, but the following table explains which landing page opens by default.

lf a exi	II of the following landing pages st for a search:	Then the landing page shown is:
•	Drug: Summary Drug: Detailed Alternative Medicine: Summary Alternative Medicine: Detailed Toxicology Disease: Summary Disease: Detailed	Drug Summary
• • • •	Drug: Detailed Alternative Medicine: Summary Alternative Medicine: Detailed Toxicology Disease: Summary Disease: Detailed	Detailed Drug information (DRUGDEX®)
• • •	Alternative Medicine: Summary Alternative Medicine: Detailed Toxicology Disease: Summary Disease: Detailed	Summary Alternative Medicine
• • •	Alternative Medicine: Detailed Toxicology Disease: Summary Disease: Detailed	Detailed Alternative Medicine
•	Toxicology Disease: Summary Disease: Detailed	Summary Toxicology
•	Disease: Summary Disease: Detailed	Summary Disease
•	Disease: Detailed	Detailed Disease

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