**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 be in the Other Tools drop-down menu.

- **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
BASIC SEARCHING

You're on the platform now, type any keyword that you would like to explore.

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 ( ) or press the Enter key.
3. The Apremilast drug landing page displays.
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 ( ) or press the Enter key.
3. The Avian influenza disease landing page displays.

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 ( ) or press the Enter key.
3. The Zirconium toxicology landing page displays.

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 ( ) or press the Enter key to begin the search.
3. The Echinacea alternative medicine landing page displays.
Drugs That Treat Search for drugs that treat a particular condition on disease, and the results are grouped alphabetically within an efficacy rating.

Example “Drug That Treat Asthma”, it also shows the reference for any other relevance with the disease, and you can scroll it to explore more.

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

FDA Uses

Drug-induced dyskinesia, in patients receiving levodopa - Parkinson's disease
Extrapyramidal disease - Medication-induced movement disorder
Influenza due to Influenza A virus
Influenza due to Influenza A virus; Prophylaxis
Parkinsonism

We can see that there is an “i” button – this is where MDX incorporates EBM directly into drug therapy recommendation.
**DRUG INTERACTIONS TOOL**

**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

### Drug-Drug Interactions (16)

<table>
<thead>
<tr>
<th>Drugs:</th>
<th>Severity:</th>
<th>Documentation:</th>
<th>Summary:</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM CHLORIDE [Oral (systemic)] — AMANTADINE [Systemic]</td>
<td>Contraindicated</td>
<td>Fair</td>
<td>Concurrent use of AMANTADINE and POTASSIUM CHLORIDE may result in risk of gastrointestinal lesions.</td>
</tr>
<tr>
<td>MEMANTINE — SELECTED N-METHYL-D-ASPARTATE ANTAGONISTS</td>
<td>Major</td>
<td>Fair</td>
<td>Concurrent use of MEMANTINE and SELECTED N-METHYL-D-ASPARTATE ANTAGONISTS may result in increased adverse events of N-methyl-D-aspartate antagonists.</td>
</tr>
<tr>
<td>DONEPEZIL — SEIZURE LOWERING AGENTS</td>
<td>Major</td>
<td>Fair</td>
<td>Concurrent use of DONEPEZIL and SEIZURE LOWERING AGENTS may result in reduced seizure threshold.</td>
</tr>
<tr>
<td>AMANTADINE [Systemic] — BUPROPION [Systemic]</td>
<td>Major</td>
<td>Fair</td>
<td>Concurrent use of AMANTADINE and BUPROPION may result in CNS toxicity (eg, restlessness, agitation, tremor, ataxia, gait problems, vertigo, dizziness).</td>
</tr>
</tbody>
</table>

### Drug-LAB Interactions (None found)

### Drug-TOBACCO Interactions (None found)

### Drug-PREGNANCY Interactions (1)

<table>
<thead>
<tr>
<th>Drugs:</th>
<th>Severity:</th>
<th>Documentation:</th>
<th>Summary:</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREGNANCY — AMANTADINE [Systemic]</td>
<td>Moderate</td>
<td>Unknown</td>
<td>Amantadine is rated as US FDA Category C. Animal studies have shown an adverse effect and there are no adequate and well-controlled studies in pregnant women. No animal studies have been conducted and there are no adequate and well-controlled studies in pregnant women.</td>
</tr>
</tbody>
</table>

### Drug-LACTATION Interactions (1)

<table>
<thead>
<tr>
<th>Drugs:</th>
<th>Severity:</th>
<th>Documentation:</th>
<th>Summary:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LACTATION — AMANTADINE [Systemic]</td>
<td>Major</td>
<td>Unknown</td>
<td>Infant risk cannot be ruled out. Available evidence and/or expert consensus is inconclusive or is inadequate for determining infant risk when Amantadine is used during breast-feeding. Weigh the potential benefits of treatment against potential risks before prescribing Amantadine during breast-feeding.</td>
</tr>
</tbody>
</table>
**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.
**IV COMPATIBILITY TOOL**

**Single IV Compatibility** Clicking the IV Compatibility (single)
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.
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%

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

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.

3. If the drug you are interested in is listed in the **Matching Drug Names** list, click on the drug and then click the (>) button 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.

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.
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.
- 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.

Information may be shown for:
- pH Range
- Formulation
- Reconstitution
- Osmolality
- Storage
- Stability (detailed)
Compatibility Details

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

<table>
<thead>
<tr>
<th>Drug 1</th>
<th>Drug 2</th>
<th>Status</th>
<th>Information</th>
<th>Test Parameters</th>
</tr>
</thead>
</table>
| Amikacin 300mg/mL
Sodium chloride 0.9% | Cetazolin sodium 150mg/mL
Sodium chloride 0.9% | Incomplete | Physical Compatibility: Physically compatible. No visible signs of particulate formation, color change, or gas evolution. | Reticon 2012 Study Period: 1 hour |
| | | | Chemical Stability: Amikacin concentrations were not decreased due to binding with the antibiotic. No loss of cephalosporin occurred. | Method: Visual observation and thin-layer chromatography (TLC) analysis of drug concentrations |
| | | | Storage: Maintain room temperature about 20°C | Container: Closed Yes, administration using dosing containers |

Admixture

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

Click the drug pair link to view study details.
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.

1. Type the drug (brand or generic) in the Enter Search Term: field
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. 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 (<).
3. Related Names Results shown in the Matching Drug Names list populate strictly based on the characters used in the search.
4. Repeat steps 2 through 3 until your list of Drugs to Compare contains all the items you are interested in viewing. When the list is complete, click the Submit button to view the information.
### Results

**Drug Comparison Results**

<table>
<thead>
<tr>
<th>Display in Column 1</th>
<th>Display in Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amoxapine</td>
<td>Amoxicillin</td>
</tr>
</tbody>
</table>

**Amoxapine**

**Dosing & Indications**

**Adult Dosing**

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 relative sedation may occur during the first few days of therapy.

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 the dose raised cautiously up to 600 mg/day in divided doses.

Endogenous depression: initial 60 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 relative sedation may occur during the first few days of therapy.

Endogenous depression, maintenance, usual effective dose is 120-300 mg/day ORALLY; may increase dosage to 400 mg/day if there is inadequate response and hospitalized patients with no history of convulsive seizures may have 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 start with 300 mg/day, but relative sedation may occur during the first few days of therapy.

**Amoxicillin**

**Dosing & Indications**

**Adult Dosing**

Bacterial endocarditis: Pharyngitis (at risk patient; dental, respiratory or infected skin:lin area: procedure:) 2 g ORALLY 30 to 60 minutes prior to procedure (clinical dosing) [2]

Chlamydial infection: (pregnant woman) 500 mg ORALLY 3 times daily for 7 days (clinical dosing) [3]

Ear, nose, and throat infection: mild to moderate, 500 mg ORALLY every 12 hours or 250 mg ORALLY every 8 hours [6]

Ear, nose, and throat infection: severe, 750 mg ORALLY every 12 hours or 500 mg ORALLY every 8 hours [4]

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 [5] (Available in combination with amoxicillin and azithromycin [5])

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]
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- 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 Store (Android devices) or the Windows Store (Windows 8 devices) and search for "Micromedex."

Step 2: From all 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 get the app onto your device.)

Step 4: Open the app on your device. Enter the password 2AN0ze to begin using Free Micromedex Drug Reference for Internet Subscribers. The password is case-sensitive. Please enter it exactly as it appears here.

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