

Thomson MICROMEDEX® Healthcare Series

Objectives: Following this presentation and active learning session, you are expected to:

- Identify Micromedex databases and tools of value
- Recognize both interfaces now available to access clinical information
- Use database tools to retrieve relevant information
- Develop search strategies that enable rapid and efficient information retrieval

Micromedex Background	Thomson Micromedex Editorial Process
<ul style="list-style-type: none"> • Founded in 1974 by Barry Rumack, MD – a pediatrician with a fellowship in clinical pharmacology and toxicology at UCHSC • Established the POISINDEX and IDENTIDEX Systems • 1979 – DRUGDEX System established 	<ul style="list-style-type: none"> • Medical literature continually monitored/reviewed for new information by - • 70+ Full-time writers and editors on staff • including physicians, nurses,, PharmDs, and PhDs.
<ul style="list-style-type: none"> • Micromedex was the first in technology from microfiche to CD-ROM in 1985. • Acquired by Thomson Reuters in 1991 • Converted to an online database in 2000 	<ul style="list-style-type: none"> • Review process: Outside editorial board of over 400 practicing clinicians
<ul style="list-style-type: none"> • Now provides databases in many formats for a wide range of healthcare needs. 	<ul style="list-style-type: none"> • Over 2,000 citations added with each update
<ul style="list-style-type: none"> • Databases are appropriate for a wide range of healthcare needs including clinical, research, and patient information. 	<ul style="list-style-type: none"> • Over 8000 facilities in over 90 countries subscribe to one or more of the Thomson Reuters databases
<ul style="list-style-type: none"> • University of Colorado has access without fees because of historical affiliation. 	<ul style="list-style-type: none"> • International network of 50 distributors, representing 36 countries • Technical support staff available by phone around the clock

Thomson Healthcare Evidence/Micromedex® In Depth and Point-of-Care Interfaces

- I. Introduction to Interfaces, Tabs, and Navigation
 - a. In Depth Interface reviewed here
 - b. Point-of-Care Interface navigation – utilize online training center
 - a. Go to Training Center (bottom of page) → Online Recorded → Point of Care End User
- II. Summary Documents
 - a. Clinical Checklist
 - 1st column: List of actions you should or should not do
 - 2nd column: Strength of recommendation and evidence rating – with link to references
 - 3rd column: Performance Measurements linked to these actions such as Core Measures, Quality Guidelines, Joint Commission, CMS, AHRQ, and HEDIS.
 - b. Drug Summary
- III. **The DRUGDEX® System** - In Depth Interface
 - a. Drug Evaluations
 - Drug & Pharmaceutical Information
 - FDA-approved and investigational drugs, over-the-counter and non-U.S. preparations
 - Dosage, pharmacokinetics, adverse reactions, cautions, interactions, clinical applications, comparative drug efficacy, and patient counseling

- b. Drug Consults
 - Patient related consultations with case histories, for investigational, international, FDA approved and over-the-counter preparations
 - Drug of choice recommendation
 - Travel recommendations, information from the CDC
 - Other commonly asked questions
- c. Tradename List – List of marketed products which contain the medication searched

IV. Additional Drug Information Resources

- a. **PDR®** - Legend drug products prescribing information sponsored by Pharma
 - i. Current FDA-approved prescription drugs
 - ii. Commonly used over-the-counter drugs
 - iii. Specialized ophthalmic pharmaceuticals
 - iv. Drug manufacturer information
- b. **Martindale: The Complete Drug Information Resource**
 - i. Published by the Royal Pharmaceutical Society of Great Britain
 - ii. International drugs and substances from 24 countries
 - iii. Information Included:
 - Drugs in clinical use
 - Selected investigational and veterinary drugs, herbal medicines
 - Pharmaceutical excipients, vitamins and nutritional agents
 - Vaccines
 - Radiopharmaceuticals, contrast media, diagnostic agents, medicinal gases
 - Drugs of abuse and recreational drugs
 - Toxic substances, disinfectants, and pesticides
- c. **Martindale Products** – Foreign drug products
- d. **Index Nominus** – Foreign drug products
 - i. Edited by the Swiss Pharmaceutical Society
 - ii. International drugs from > 45 countries
 - iii. Information Included
 - Chemical composition and structure of drugs
 - Over 4,000 manufacturer names and addresses
 - iv. Abbreviations resource

IV. Toxicology Information

- a. **POISINDEX® System**

Identification of ingredients for commercial, pharmaceutical, and biological substances

 - Common household products (cleaners, personal care, insect protection)
 - Industrial chemicals (manufacturing agents)
 - Pharmaceutical products (prescriptions, generic, trade, OTC, veterinary)
 - Biological entities (botanic, zoologic, food poisoning)
 - Management Treatment Protocols (Toxic Managements); > 850 courses of treatment

- b. **IDENTIDEX® System**

Identification of tablets and capsules using imprint codes

- Identifies pharmaceutical tablets and capsules by imprint codes and secondary characteristics, such as color and shape

- International drugs
- Presents active and inactive ingredients for prescriptions and over-the-counter drugs (both trademarked and generic)
- Manufacturers' phone numbers and logo descriptions
- Display Drug Image (Switch to Point of Care Interface for user-friendly access)

c. MEDITEXT® Medical Management

V. Disease State, Clinical and Emergency Medical Management Reviews

a. DISEASEDEX™ System

Highlights of a disease state, studies & alerts, and Emergency Medicine Clinical Reviews
Example: Myocardial Infarction

VI. Complimentary and Alternative Medicines

a. AltMedDex™ System

- i. Herbal, vitamin, mineral, and other dietary supplements
- ii. Administration, dosing, warnings, precautions, contraindications, interactions, and FDA warnings
 - AM Evaluations
 - AM Consults
 - AltMedDex® Protocols
 - Herbal Medicines: A Guide for HCPs
 - AltMed-REAX™ System

VII. Pregnancy Risk and Drugs

a. REPRORISK® System

- Collection of reproductive risk information databases
- Evaluate reproductive risks of drugs, chemicals, and physical and environmental agents on males, females and unborn children.

i. Reptext® Reproductive Hazard Reference

In-depth review on full-range health effects of industrial chemicals commonly encountered in the workplace: Includes hazard ranking system.

ii. Reprotox® Reproductive Hazard Reference

Information regarding the impact of the physical and chemical environment on human reproduction and development; 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

b. TERIS Teratogen Information System

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.

c. Shepard's Catalog of Teratogenic Agents

Information on teratogenic agents including chemicals, food additives, household products, environmental pollutants, pharmaceuticals, and viruses. Descriptions of research methods, results, and citations from international literature are included.

VIII. Other available resources:

a. **USP – DI**

Comprehensive information on over 1900 drugs & 3,500 drug consults

- Data on dosage, pharmacokinetics, adverse reactions, monitoring parameters, drug interactions, and therapeutic uses (both approved and off-label uses)

b. **CareNotes® System** Information for patients

c. Lab Information

d. Dosing and Therapeutic Tools (Calculators)

Referencing Micromedex® Healthcare Series

Instructions located under *Warranty and Disclaimer Information* (blue toolbar on main screen)

HOW TO REFERENCE THE MICROMEDEX® SYSTEMS

PLEASE NOTE: When referencing a Micromedex® Healthcare Series product or database, you *must* include: (electronic version), Thomson Micromedex information, URL address (<http://www.thomsonhc.com>) and the date accessed.

The entire Micromedex System:

Micromedex® Healthcare Series, (electronic version). Thomson Micromedex, Greenwood Village, Colorado, USA. Available at: <http://www.thomsonhc.com> (cited: *month/day/year*).

An entire System or Database:

AltCareDex® System:

Klasco RK (Ed): AltCareDex® System (electronic version). Thomson Micromedex, Greenwood Village, Colorado, USA. Available at: <http://www.thomsonhc.com> (cited: *month/day/year*)

An individual document:

AltCareDex® System:

Olson S: Helichrysi - Alternative Medicine Patient Education Leaflet. In: Klasco RK (Ed): AltCareDex® System (electronic version). Thomson Micromedex, Greenwood Village, Colorado, USA. Available at: <http://www.thomsonhc.com> (cited: *month/day/year*).