

**Lexi-Comp ONLINE™ includes the following clinical reference databases and applications:**

***Lexi-Drugs™, AHFS Essentials, and AHFS Drug Information (Adult Pharmacology/Drug Database)***

Point-of-care monographs for over 1,800 generic medications covering over 20,000 U.S. and International brand name products.

- Specific information on each medication to include at a minimum:
- Customize all data fields and order of data fields
  - Name (generic and brand for each) Specific generic and brand name to Scotland
  - International brand names for >70 countries, included U.K.
  - Mechanism(s) of action
  - Indications
  - Dosage forms and strengths
  - Administration, monitoring, compatibility, and admixing instructions for parenteral medications
  - Pharmacokinetic and pharmacodynamic properties, including: absorption, distribution, metabolism, protein binding, half-life, and elimination/excretion.
  - Drug Interactions
  - Dosage and dosing guidance for special populations and conditions
  - Interactions with other drugs, food, and alcohol
  - Adverse reactions, including incidence/percentages of each, and grouped by body/organ systems.
  - Therapeutic monitoring requirements
  - Where appropriate, a direct link exists from the monograph to the appropriate medical calculation (such as for dosing, organ function assessment)
  - Contraindications, precautions and warnings
  - Pregnancy, lactation, and breast-feeding considerations
  - Medication Safety issues (such as Look-alike, Sound-alike names, Black Box Warnings)

- Monographs within this database provide direct links to pertinent treatment guidelines, drug comparison charts, and AHFS content regarding:
  - Approved Uses
  - Unapproved/Unlabeled/Investigational Uses
  - Dosage
  - Warnings and Precautions
  - Adverse Reactions
  - Within these links are additional links to the National Library of Medicine's PubMed, and where appropriate, references and the primary literature.

***Pediatric Lexi-Drugs™ (Pediatric Pharmacology/Drug Database)***

Point-of-care monographs for over 650 generic medications commonly used in the pediatric setting covering over 7,000 U.S. and international brand name products.

- Specific information on each medication to include at a minimum:
  - Mechanism(s) of action
  - Indication
  - Dosage forms and strengths
  - Administration, monitoring, compatibility, and admixing instructions for parenteral medications
  - Pharmacokinetic and pharmacodynamic properties, including: absorption, distribution, metabolism, protein binding, half-life, and elimination/excretion.
  - Drug Interactions
  - Dosage and dosing guidance in special populations and conditions
  - Detailed Neonatal and Pediatric dosing
  - Interactions with other drugs, food, and alcohol
  - Compounding information for extemporaneous preparations
  - Adverse reactions grouped by body/organ systems.

- Monitoring parameters
- Contraindications, precautions and warnings
- Pregnancy risk factor, lactation, and breast-feeding considerations
- Medication Safety issues (such as Look-alike, Sound-alike names, Black Box Warnings)
- Monographs within this database provide direct links to pertinent treatment guidelines, drug comparison charts, and AHFS content regarding:
  - Approved Uses
  - Unapproved/Unlabeled/Investigational Uses
  - Dosage
  - Warnings and Precautions
  - Adverse Reactions
  - Within these links are additional links to the National Library of Medicine's PubMed, and where appropriate, references and the primary literature.

### ***Geriatric Lexi-Drugs™ (Geriatric Pharmacology/Drug Database)***

Point-of-care monographs for over 800 generic medications commonly used in the geriatric setting covering over 10,000 U.S. and international brand name products.

- Specific information on each medication to include at a minimum:
  - Mechanism(s) of action
  - Indications
  - Dosage forms and strengths
  - Administration, monitoring, compatibility, and admixing instructions for parenteral medications
  - Pharmacokinetic and pharmacodynamic properties, including: absorption, distribution, metabolism, protein binding, half-life, and elimination/excretion.
  - Drug Interactions
  - Dosage and dosing guidance in special populations and conditions

- Interactions with other drugs, food, and alcohol
- Detailed geriatric dosing
- Special considerations for geriatric patients
- Adverse reactions, including incidence/percentages of each, grouped by body/organ systems.
- Monitoring parameters
- Contraindications, precautions and warnings
- Medication Safety issues (such as Look-alike, Sound-alike names, Black Box Warnings)
- Within this database, the monographs provide direct links to, and the application itself provides immediate links to pertinent treatment guidelines, drug comparison charts, and other general topics.

### ***Lexi-Interact™* (Drug Interaction Analysis application)**

Provides a drug interaction analysis tool to perform an analysis of a patient's entire drug and natural product profile and identify possible interactions to facilitate a patient-specific risk-to-benefit assessment. The analysis summary and corresponding interaction monographs to include the following ratings scales:

- Reliability Rating: Indicates the quantity and nature of documentation for an interaction.
- Risk Rating: Reflects both the *level of urgency* and the *nature of actions* necessary to respond to an interaction
- Severity Rating: Indicates the reported or possible magnitude of an interaction outcome.

In addition to the primary function of the database to provide pharmacokinetic interactions, the database should also highlight where possible pharmacodynamic-based interactions. Pharmacokinetic drug-to-drug interactions probability of occurrence should also be enhanced through use of the cytochrome P450 (CYP) enzyme system.

The tool and its corresponding database application or monograph should draw the healthcare professional's attention to both documented and theoretical drug-drug, drug-herbal, drug-nutrient interactions. All data in the Drug Interaction module must be fully referenced and available on all platforms.

***King Guide to Parenteral Admixtures® (I.V. Compatibility application)***

Provides the ability to determine if drugs are compatible and with which solutions compatibility can be obtained.

- Detailed descriptions of identified incompatibilities
- Compatibility rating symbols that easily identify evidence of incompatibility
- Concise definitions of rating symbols and infusion fluid abbreviations
- Ability to click on drug name within an analysis and view its monograph, which includes a complete list of compatibilities for that particular drug
- Fully referenced

***Pharmacogenomics Database***

Database addressing key genetic variations that may influence drug disposition and/or sensitivity. Intended to provide a foundation for all clinicians who will be called on to integrate rapidly-expanding genomic knowledge into the management of drug therapy.

Introduces pharmacogenetic principles, as well as a concise reference on key polymorphisms known to influence drug response.

- Basic coverage of information to include:
  - Polymorphism monographs
  - Alphabetical Listing of Drugs by generic and brand name and gene polymorphisms
  - Index of Polymorphisms and Drugs Potentially Affected
  - Pharmacologic Category Index

***Natural/Alternative Medicine Information***

Database addressing natural products (herbal products, homeopathic remedies, etc.) that includes the following information in each monograph

- Specific information on each product to include:
  - Synonyms and names
  - Natural Product Category
  - General Warnings

- Dosage and Standardization
- Plant Part Used
- Pharmacology
- Theoretical Cautions and Contraindications
- Theoretical Interactions
- Toxicities, Warnings, and Interactions
- Reported Uses
- References

### ***Infectious Diseases Database***

Database addressing the issues surrounding the clinical approach to the treatment of infectious diseases including conditions, organisms, diagnostic tests, and therapies.

- Includes the following information in each drug monograph:
  - Dosage
  - Use
  - Drug of Choice or Alternative for Disease/Syndrome(s)
  - Drug of Choice or Alternative for Organism(s)
  - Contraindications, Warnings, Precautions, Adverse Reactions
  - Mechanism of Action
  - Monitoring Parameters
  - Test Interactions
- Within this database, the monographs provide direct links to, and the application itself provides immediate links to pertinent treatment guidelines, drug comparison charts, and other general topics

### ***Lexi-Tox™ (Poisoning and Toxicology Database)***

Lexi-Comp's Poisoning and Toxicology knowledge base combines information on agents of toxicity, antidotes and decontaminants, household products, toxicology-specific calculators, and drug identification in one essential tool. One click access provides immediate support for the assessment, diagnosis, and treatment of exposures and overdoses.

Developed through industry research and with the expertise of a distinguished panel of toxicology experts, directors and staff members of poison control centers, and board certified emergency department physicians from across the country This knowledge base is a comprehensive and relevant resource used for the assessment, diagnosis, and treatment of poisonings and overdoses.

- Detailed toxicology information on environmental toxins, drugs, chemicals, household products, and nuclear, biological and terrorism agents. Agent of toxicity monographs include:
  - Three categories of monographs
    - Agents of Toxicity/Terrorism
    - Antidotes/Decontaminants
    - Household products
  - Toxicology-specific calculators
  - Drug identification
  - Direct linking to lab & diagnostic information
  - Clinical presentation
  - Mechanism of toxicity
  - Diagnosis
  - Exposure control
  - Treatment to include stabilization, decontamination, antidotes, pharmacologic and non-pharmacologic treatment
  - Patient disposition
  - Pharmacokinetics
  - Complications of exposure (long term complications if any)
- Antidote and decontamination monographs
- Household products database

***Laboratory Test and Diagnostic Procedures Database***

Database covering over 1200 laboratory tests, radiological procedures, and medical procedures. Provides information regarding patient preparation, specimen collection/handling, and clinical test result interpretation within numerous clinical areas and diagnostic disciplines.

- Specific information on each test/procedure to include at a minimum:
  - Name
  - Overview
  - Special Instructions
  - Use/Indications
  - Contraindications
  - Patient preparation
  - Specimen
  - Container
  - Collection
  - Storage instructions
  - Methodology
  - Complications/risks
  - Aftercare
  - Normal Values
  - Therapeutic Levels
  - Critical Values
  - Interpretative information
  - Limitations
  - Causes for rejection
  - Additional information
  - References

### **Lexi-Calc™ (Medical Calculations Application)**

Lexi-Comp provides a comprehensive medical calculations module covering:

- Adult and pediatric organ function assessment
- Advanced Life Support (adult and pediatric)
- Infusion rates
- Pharmacokinetics
- Standard conversions
- Toxicology

Quick access to relevant medical calculations is available from all databases and drug monographs.

Each calculation incorporates a built in error checker to ensure appropriate input and output ranges as well as information and references regarding the calculations.

### ***Lexi-PALS, Pediatric PALS, Health-PALS and Patient Care Module (Patient Education Leaflets and Application)***

- Patient education leaflets can be created, customized, and assembled into a patient specific packets to include the following characteristics:
  - Available in adult and pediatric formats, where the content of the pediatric leaflet is directed to the parent and/or caregiver
  - Includes leaflets for the following categories:
    - Medications (prescription and over-the-counter)
    - Natural products
    - Diseases and conditions
    - Diagnostic Procedures
  - Written at a 5<sup>th</sup>-7<sup>th</sup> grade reading level
  - Multi-lingual translations

- Medication and natural product leaflets are available in the following languages English, Spanish, Arabic, Chinese, Creole, French, German, Greek, Italian, Japanese, Korean, Polish, Portuguese, Russian, Tagalog, Turkish, and Vietnamese.
- condition/procedure leaflets are available in English and Spanish

### ***Web Search Application***

Provides end users with the ability to expand their search capabilities beyond the Lexi-Comp clinical reference knowledge base by launching their search from our interface out to trusted medical reference web sites such as NML PubMed, Medline Plus, ClinicalTrials.gov, BMJ.com, the AAP's Pediatrics, and Highwire Press. The web search tool will:

- Tailor search results to the clinician or patient doing the search.
- Understand the search concept even if mistakes are made in entering the search term.
- Translate the search term into standard clinical terms to extend the range and effectiveness of the search

### ***Lexi-Comp® ON-HAND™***

Lexi-Comp ON-HAND provides mobile access to continually-updated point-of-care drug information. Compatible with Android™, BlackBerry®, iPhone®, iPod touch®, Palm OS®, Palm® Pre™, Palm Pixi™, Pocket PC, and Windows Mobile® devices. The content is stored on the device, so access is always available.

Features:

- Diagnose, find treatment options, and identify drug interactions in seconds
- View detailed information including charts, tables, images, and more
- Cross-database searching with quick-jump functionality
- Easy over the air updates-no synching or cards required
- Hospital-specific formulary option

**Lexi-Comp® FORMULINK<sup>SM</sup>**

Lexi-Comp FORMULINK is an electronic formulary service which allows you to integrate your institution's formulary, policies and procedures, and therapeutic guidelines with Lexi-Comp's clinical information.

Features of FORMULINK:

- Update your formulary after every P & T meeting
- Reduce medication costs through formulary compliance
- Comply with JCAHO standards
- Provide current clinical information directly with your formulary

**Optional*****Martindale: The Complete Drug Reference (International Pharmacology/Drug Database)***

Point-of-care monographs covering 6,300 drugs and medicines throughout the world, including details of 149,000 proprietary preparations from 48 countries.

- Specific information on each medication to include:
  - Drug Nomenclature
  - Synonyms
  - British Approved Names
  - International Nonproprietary Names
  - Anatomical Therapeutic Chemical Classification
  - Physiochemical Characteristics
  - Uses and Administration
  - Adverse Reactions
  - Precautions
  - Adverse Effects, Treatment and Precautions
  - Interactions
  - Pharmacokinetics
  - Preparations: Single-Ingredient

- Preparations: Multi-Ingredients
- Preparations: Pharmacopoeial
- References
- Therapeutic Uses
- Additional coverage included for select investigational and veterinary drugs, herbal and complementary 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.
- Based on published information and extensively referenced
- Indexing to include:
  - Drugs and Ancillary Substances names, synonyms and chemical name
  - Manufactures (over 14,700)
  - British Approved Name (BAN)
  - International Non-Proprietary Names (INN)
  - Therapeutic Uses
- **Harrison's Practice** is a tool that increases the value of Lexi-Comp ONLINE by providing access to medical topics in a user friendly format for instant information at the point-of-care. This addition to Lexi-Comp ONLINE will provide access to over 700 diseases and disorders and give physicians, nurses, and pharmacists quick access (within Lexi-Comp ONLINE ) to answers on differential diagnosis, diagnostic tests, and therapy recommendations. This addition also allows easy linking from within Harrison's Practice to more in depth information on lab tests, diagnostic procedures, and specific information on medications.

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