

Importance of a Database on Drug-Induced Liver Injury

Drug-induced liver injury is the leading cause of acute liver failure in the United States, and **among the principal reasons for the failure of**

new drugs in clinical trials. Several hundred of the thousands of drugs available today have been linked to liver injury; however, the clinical pattern of liver injury is diverse and can mimic almost any form of liver disease. LiverTox addresses the need for an online resource of evidence based information and a case registry for patients, clinicians and researchers to use in diagnosing and studying the condition.

Authorship, Maintenance of LiverTox

LiverTox is authored by hepatologists of the Liver Disease Research Branch, Division of Digestive Diseases and Nutrition of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), in collaboration with information technology and professional staff of the National Library of Medicine (NLM), NIH. LiverTox is updated at least quarterly.

Assistance and Contact

The LiverTox staff welcomes all questions and comments from its users. Please direct your comments or inquires to LiverTox@nih.gov.

Recommended Browsers

LiverTox is best viewed with Internet Explorer 9.0+, Firefox, Chrome, Safari, and Opera.

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

This brochure may be reproduced and is available at <http://sis.nlm.nih.gov/pdf/livertoxbrochure.pdf>.

October 2015

LIVERTOX

DRUG-INDUCED LIVER INJURY

Evidence-Based Clinical and Research Information

ABOUT LIVERTOX

LiverTox is a freely available online website that provides current, comprehensive and unbiased information about drug-induced liver injury which is caused by prescription and nonprescription drugs, herbals and dietary supplements. Available at <http://livertox.nih.gov/>.



LiverTox Features:

- Comprehensive review of drug-induced injury
- Data mined from world scientific literature
- 1,000 drug records with hepatotoxicity data, case reports, product information, references
- Histological hepatotoxic phenotype imaging
- Clinical case submission and registry
- Fully referenced with links to PubMed
- Glossary of terms relative to hepatotoxicity
- Related program and information resource links



U.S. National Library of Medicine
National Institute of Diabetes and
Digestive and Kidney Diseases

LiverTox Components

LiverTox is comprised of three main components.

- Clinical and Diagnostic Overview
 - Causality
 - Clinical Course
 - Immune Features
 - Likelihood Scale
 - Phenotypes
 - Severity Grading
- Drug/Herbal/Supplement Records
 - Drugs/Medications
 - Herbals
 - Dietary Supplements
- Clinical Case Report Registry

Component Links in Sidebar

| | |
|-----------------------|------------------------------------|
| Home | ◀ Home Page |
| Introduction | |
| Clinical Course | |
| Phenotypes | ◀ Clinical and Diagnostic Overview |
| Immune Features | |
| Clinical Outcomes | |
| Causality | |
| Severity Grading | |
| Likelihood Scale | |
| Classes of Drugs | ◀ Drug Records |
| Submit a Case Report | ◀ Case Registry |
| Meetings/Alerts/News | |
| Information Resources | ◀ Information Resources |
| Glossary | |
| Abbreviations | |



LiverTox Searching

Drug, herbal and supplement records can be retrieved by three methods. The search box on the home page allows users to enter terms that give the generic name (preferable) or trade name of a drug or other substance, or the drug class name. Records can also be retrieved by browsing the first letter of a drug/drug class or other substance using the alphabetic list on the home page. And, records can be obtained by accessing the Classes of Drugs index via the sidebar link.

SEARCH THE LIVER TOX DATABASE

Search for a specific medication, herbal or supplement:

Browse by first letter of medication, herbal or supplement:

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

Search Results

The search retrieval will display the drug, herbal, or supplement record in the standard format that is described under **Drug Record Format**.

The sidebar is displayed on each page for convenient access to other sections of LiverTox.

Drug Record Format

Drug-, herbal- and supplement-specific records are displayed in a standard format shown below.

- Generic Drug/Chemical Substance Name
- Overview
 - Introduction
 - Background
 - Hepatotoxicity
 - Histopathology
 - Mechanism of Injury
 - Outcome and Management
- Case Reports
 - Published in Literature
 - Submitted to Registry
- Product Information
 - Proprietary Name
 - Drug Class
 - Current Labeling Link
- Chemical Formula and Structure
- References
- Other Reference Links
 - PubMed
 - Clinical Trials

Case Report Registry

Healthcare professionals are welcome to submit a clinical case report of drug-induced liver injury to LiverTox on-line. The Registry is accessed by the sidebar tab "Submit a Case Report." The Registry is maintained by NIDDK professional and scientific staff to assess trends in drug-induced liver injury. Once the essential clinical information is entered, the system will generate a written summary of the case with a table and graph, as well as several characteristics of the case, such as the time to onset and recovery, injury severity scale, an assessment of causality score (RUCAM) and a completeness score.