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 inquiries to LiverTox@nih.gov.

Recommended Browsers

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

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

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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

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.

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.

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.