

Drug Information Training Resource

Drug Induced Hepatic Disease

Standard Background Questions:

- What are the liver function tests (LFTs)?
E.g. ALP, AST, ALT, GGT, Bilirubin
- Are there any other signs and symptoms, e.g. jaundice, eosinophilia, arthralgia, skin rash, fever
- Time course
When did signs and symptoms appear in relation to a drug being started ?
- Have other causes of liver disease been excluded, e.g. infectious hepatitis, alcohol ?
- Medication history.
Include current drugs, recently stopped drugs, Over the counter products, herbal and complimentary medicines.
- Medical History
Current and past problems. Any previous history of liver disease ?

Background Issues:

- Review the pathophysiology of drug-induced liver disease.
- Differentiate between cholestatic hepatitis and hepatocellular hepatitis

Resources

Books

Adverse Drug Reactions. Edited by Anne Lee

Comments:

An excellent general text on the mechanisms and pathophysiology of ADRs including drug-induced liver disease.

Contents:

Introduction: Drug-induced Skin Reactions: Gastrointestinal Disorders: **Hepatic Disorders**: Renal Disorders: Endocrine Disorders: Respiratory Disorders: Musculoskeletal Disorders: Blood Disorders: Mental Health Disorders: Cardiovascular Disorders: Neurological Disorders: Sexual Dysfunction and Infertility.
Available from <http://www.pharmpress.com/>

WebSites

Drug-Induced Liver Injury: A National and Global Problem

<http://www.fda.gov/cder/livertox/>

Web page reporting on a meeting sponsored by FDA in 2001. A number of useful reports and presentations.

Clinical Picture of Liver Disease

<http://www.fda.gov/cder/livertox/stateArt.htm#Clinical%20Picture>

Presentation about the detection of drug induced liver disease from the industry/clinical trial perspective

HepNet Drug-induced Liver Disease in 2000

<http://www.hepnet.com/hepc/ulibd00/swain.html>

Review of drug induced liver disease by Mark Swain, MD, Associate Professor of Medicine
Hepatologist, University of Calgary

GI Consult Drug Hepatotoxicity

[http://www.emedmag.com/stories/storyReader\\$105](http://www.emedmag.com/stories/storyReader$105)

12 commonly asked questions about drug induced hepatotoxicity by Charles Maltz MD

Making a diagnosis of herbal-related toxic hepatitis.

Haller CA et al. West J Med 2002;176:39-44

Available fulltext at <http://www.ewjm.com/cgi/content/full/176/1/39>

Journal Articles

Cupp MJ Herbal Remedies:Adverse Effects and Drug Interactions.

American Family Physician 1999; March 1

<http://www.aafp.org/afp/990301ap/1239.html>

Search Tips

Medline

Recommended MeSH Terms

Liver diseases (explode to include all terms)

Liver/drug effects

Liver function tests

Jaundice

Cholestasis

Recommended text words

Hepatitis

Hepatotoxicity

Hepatotoxic

Sensitivity Tips

- Consider combining all MeSH and textwords with the OR operator

Specificity Tips

- If the specific type of liver disease is known use this in the search