DRUGS & LIVER

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1- Drugs affecting bile secretion A. Cholagogues

• Stimulates the flow of bile from the gall bladder to the duodenum through: 1) Relaxation of the sphincter of oddi (e.g. MgSO4). 2) Contraction of the wall of the gallbladder: a- Choecystokinin (meat & fat). b-Parasympathomimetics. c- Direct smooth muscle stimulation.

2

Stimulates liver cells to secret bile (increase volume & solid).
Bile acids & their derivatives (e.g. cholic acids, deoxycholic acid, sodium

B. Choleretics

glucocholate & sodium taurocholate).

Uses:

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1) Help digestion.

() Relief of flatulence, dyspepsia & constipation.

3



Stimulates liver cells to secret the volume but not the solid constitute.

1) Oxidized bile acids e.g. Dehydrocholic acids (Decholin).

2) Salicylate & benzoate.

Uses: For flushing the diseased biliary passage.

Contraindications:

1) Acute hepatitis.

2) Biliary stones or obstruction.

2- Drugs used for dissolution of gall stones

- For small (< 5mm.), non-calcified stones. They include: Chenodeoxycholic acid (Chenodiol).
- **1.** Ursodeoxycholic acid.
- Mechanism of action: Inhibit 3-hyroxymethyl-glutaryl-coenzyme A reductase (HMG-COA reductase) (inhibit hepatic cholesterol synthesis).

Side effects: Diarrhea.

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N.B. Estrogen (increases cholesterol secretion in bile) _____ reduces their effect.
3- Drugs affecting biliary spasm

Morphine + Atropine. 2- Mepridine. 3- Glyceryltrinitrate.
 <u>4- Drugs used in therapy of hepatic encephalopathy</u>
 Neomycin: Inhibits ammonia-producing organisms. ₅
 Lactulose: Decreases absorption of ammonia & enhances its secretion.

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	Toxic effects of drugs on the liver:			
	1.	Zonal necrosis	• tetracholrid Carbon.	• Paracetamol.
	2.	Viral hepatitis-like reactions	Halothane.Isomiazid.	• Phenytoin.
	3.	Cholestasis	Methyl testosterone.Carbimazole.Chlorpromide.	Oral contraceptives.Chlorpromazine.
	4.	Fatty liver	• Tetracycline.	
	5.	Chronic hepatitis	• Methyldopa.	• Isomiazid.
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