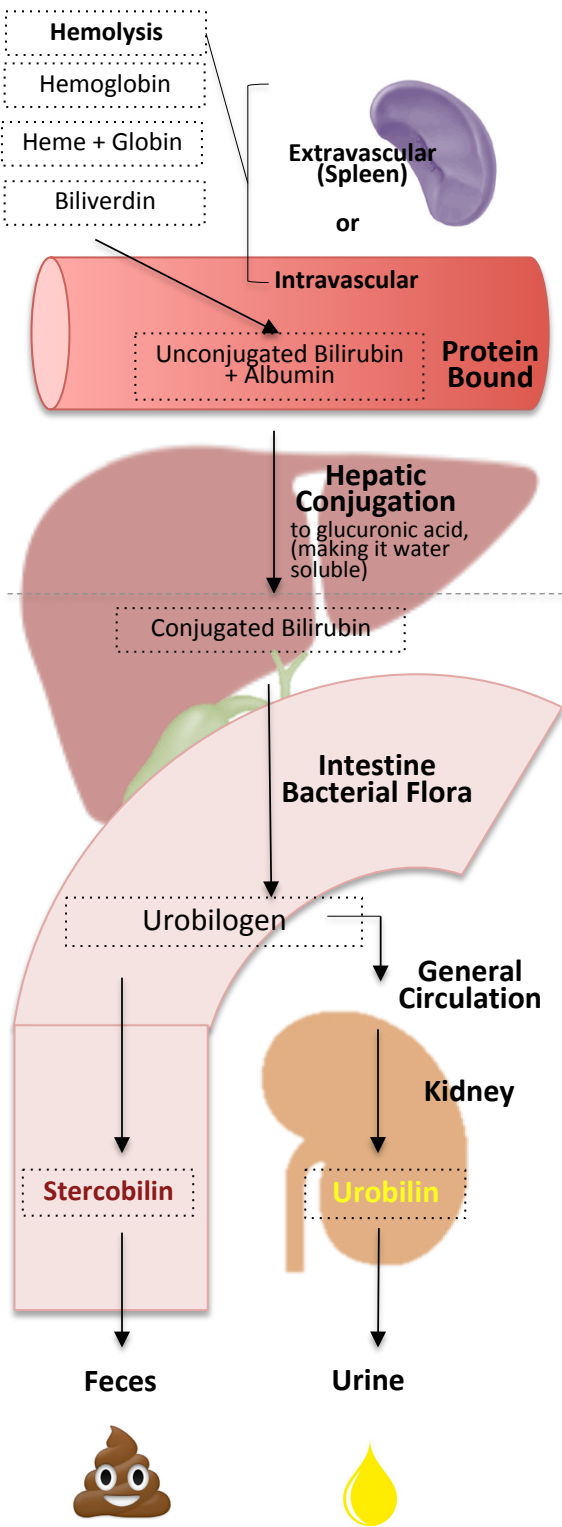


Jaundice



Unconjugated	Overproduction	<ul style="list-style-type: none"> Hemolysis (eg. hemolytic Anemia, Extravasation) Ineffective erythropoiesis
	Decreased Hepatic Uptake	<ul style="list-style-type: none"> Gilbert's syndrome Drugs (e.g. Rifampin)
	Decreased Conjugation	<ul style="list-style-type: none"> Hepatocellular disease Drug inhibition (e.g. chloramphenicol) Neonatal jaundice Crigler-Najjar syndrome Gilbert's syndrome
Conjugated	Impaired Hepatic Secretion	<ul style="list-style-type: none"> Familial disorders (Rotor's syndrome, Dubin-Johnson syndrome) hepatocellular disease (Hepatitis) primary biliary cirrhosis (Sepsis, post-operative) drug-induced cholestasis (e.g. contraceptive pill) <u>cholestasis of pregnancy</u>
	Biliary Obstruction/ Intraductal Obstruction	<ul style="list-style-type: none"> gallstones biliary stricture infection (e.g. clonorchis) malignancy (e.g. cholangiocarcinoma) sclerosing cholangitis
	Extraductal Obstruction	<ul style="list-style-type: none"> malignancy (e.g. pancreatic cancer) inflammation (e.g. pancreatitis) lymphadenopathy

Emergencies: massive hemolysis (eg, Clostridium perfringens or falciparum malaria sepsis), ascending cholangitis, fulminant hepatic failure

Laboratory Values:

Total Bilirubin = Measurement of Unconjugated + Conjugated

Direct Bilirubin = Measurement of only Conjugated (the water soluble conjugated bilirubin reacts with a chemical reagent in this test)

Indirect Bilirubin = Total Bilirubin - Direct Bilirubin
(In reality may slightly underestimate indirect bilirubin)

