Differential Diagnosis of Pediatric Cholestatic Liver Diseases

What is cholestasis?

• In cholestasis, normal secretion of bile acids from the liver is impaired¹



— Cholestasis may result in accumulation of bile acids and other biliary components in the liver, causing hepatic inflammation, fibrosis, and progressive liver damage; bile acids and other biliary components may also spill over into systemic circulation^{2,3}



— Cholestasis can lead to severe pruritus and is a leading cause of liver transplantation in children^{2,4}

Distinguishing between key pediatric cholestatic liver diseases

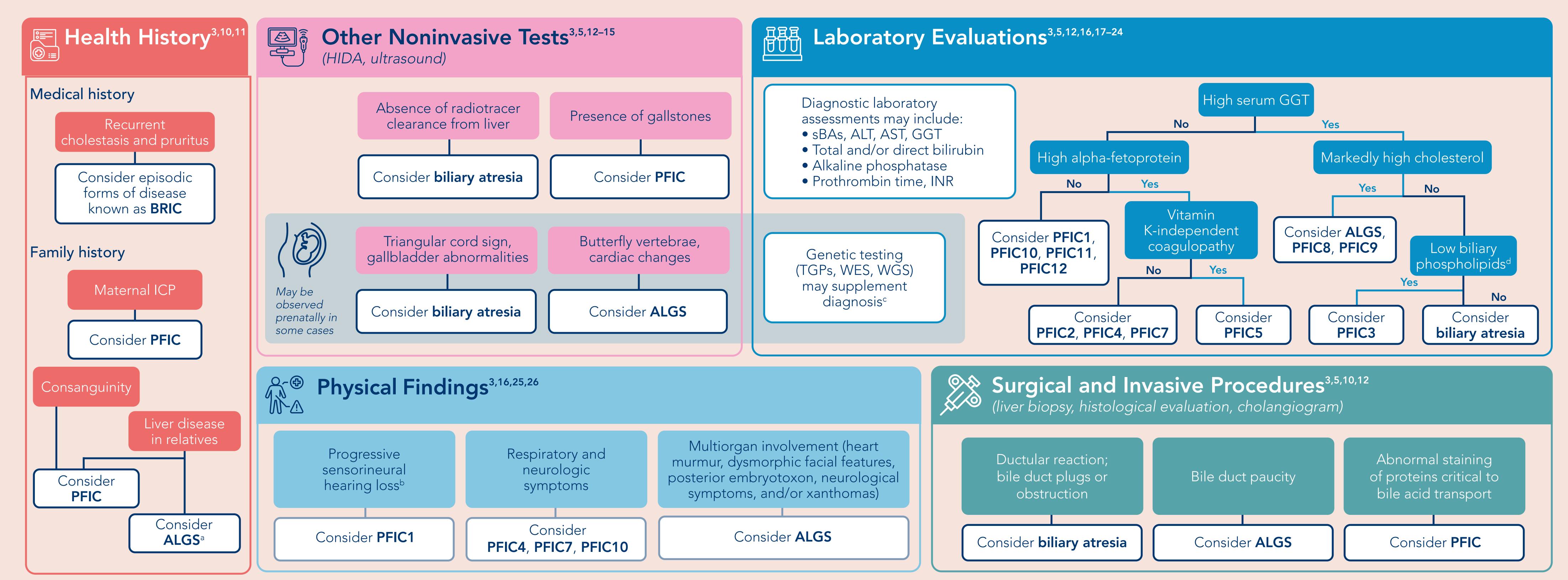
- Pediatric cholestatic liver diseases may have overlapping signs and symptoms, such as jaundice, severe pruritus, and elevated serum bile acids, which can make diagnosis challenging^{5,6}
- Diagnostic approaches to distinguish these diseases include collecting health history, examination to identify physical findings, and laboratory evaluations that include genetic testing, other noninvasive tests, or surgical and invasive procedures¹



In patients with PFIC, genetic testing supports clinical diagnosis in approximately 40% to 60% of patients;^{7,8} however, in the remainder of patients who have a clinical diagnosis of PFIC, pathogenic mutations cannot be confirmed molecularly^{7,8}



 Genetic testing supports clinical diagnosis in more than 97% of patients with ALGS⁹



^aALGS can also arise from de novo mutations; ^bSome patients with mutations in TJP2 experience hearing loss; ^cGenetic confirmation or gallbladder puncture.

ALGS, Alagille syndrome; ALT, alanine aminotransferase; AST, aspartate aminotransferase; BRIC, benign recurrent intrahepatic cholestasis; GGT, gamma-glutamyl transferase; BRIC, benign recurrent intrahepatic cholestasis; GGT, gamma-glutamyl tran



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