

The Burden of Progressive Familial Intrahepatic Cholestasis (PFIC)

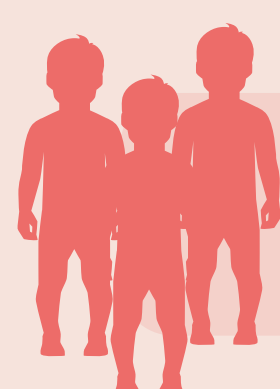
What is PFIC?



PFIC is a rare group of inherited pediatric liver diseases resulting from mutations in genes that impact bile acid homeostasis¹



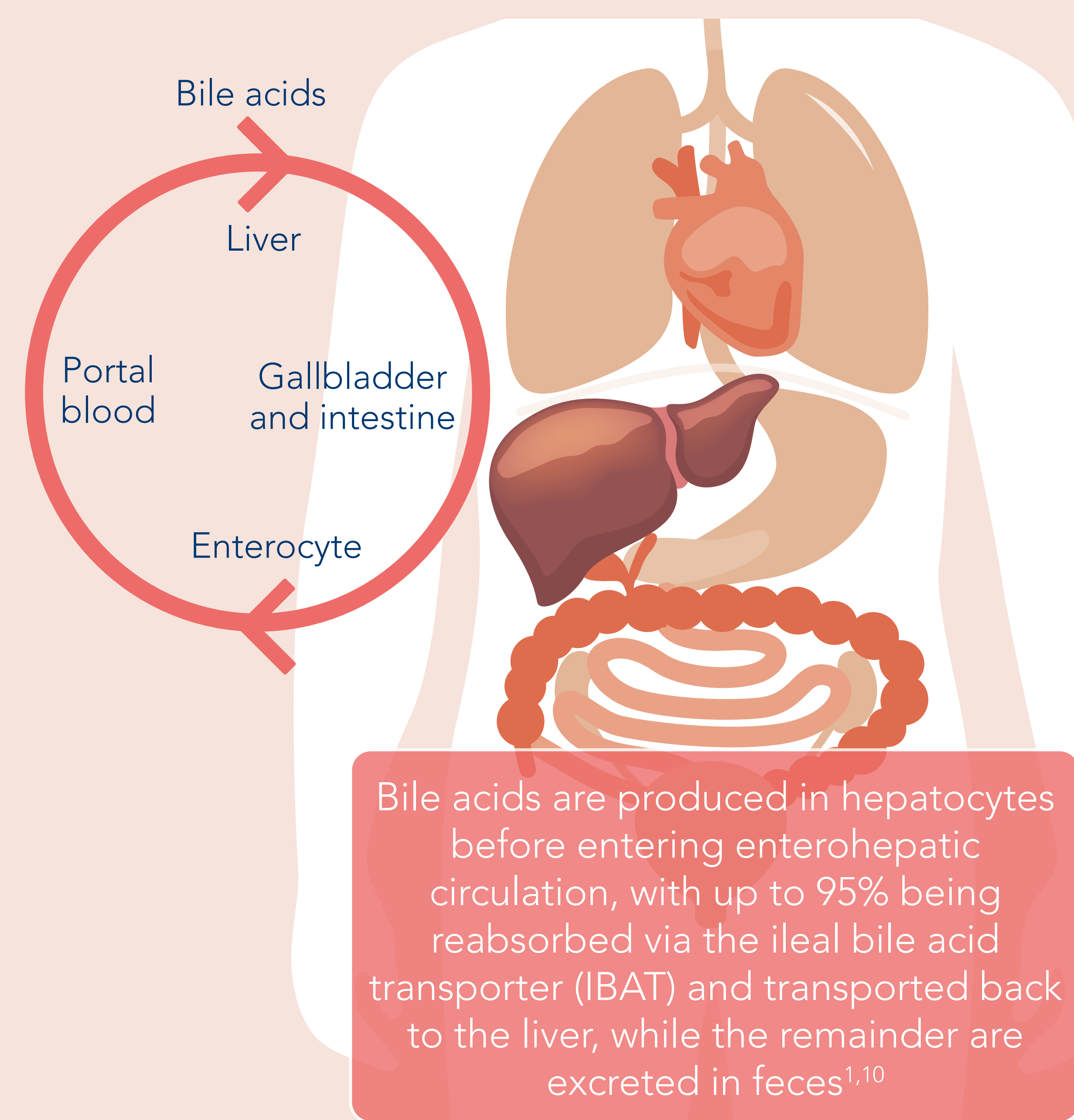
Clinical features of PFIC may include elevated serum bile acids, severe pruritus, fat-soluble vitamin deficiency, growth impairments, gallstones, increased risk of hepatocellular carcinoma, and progressive liver damage^{2,3}



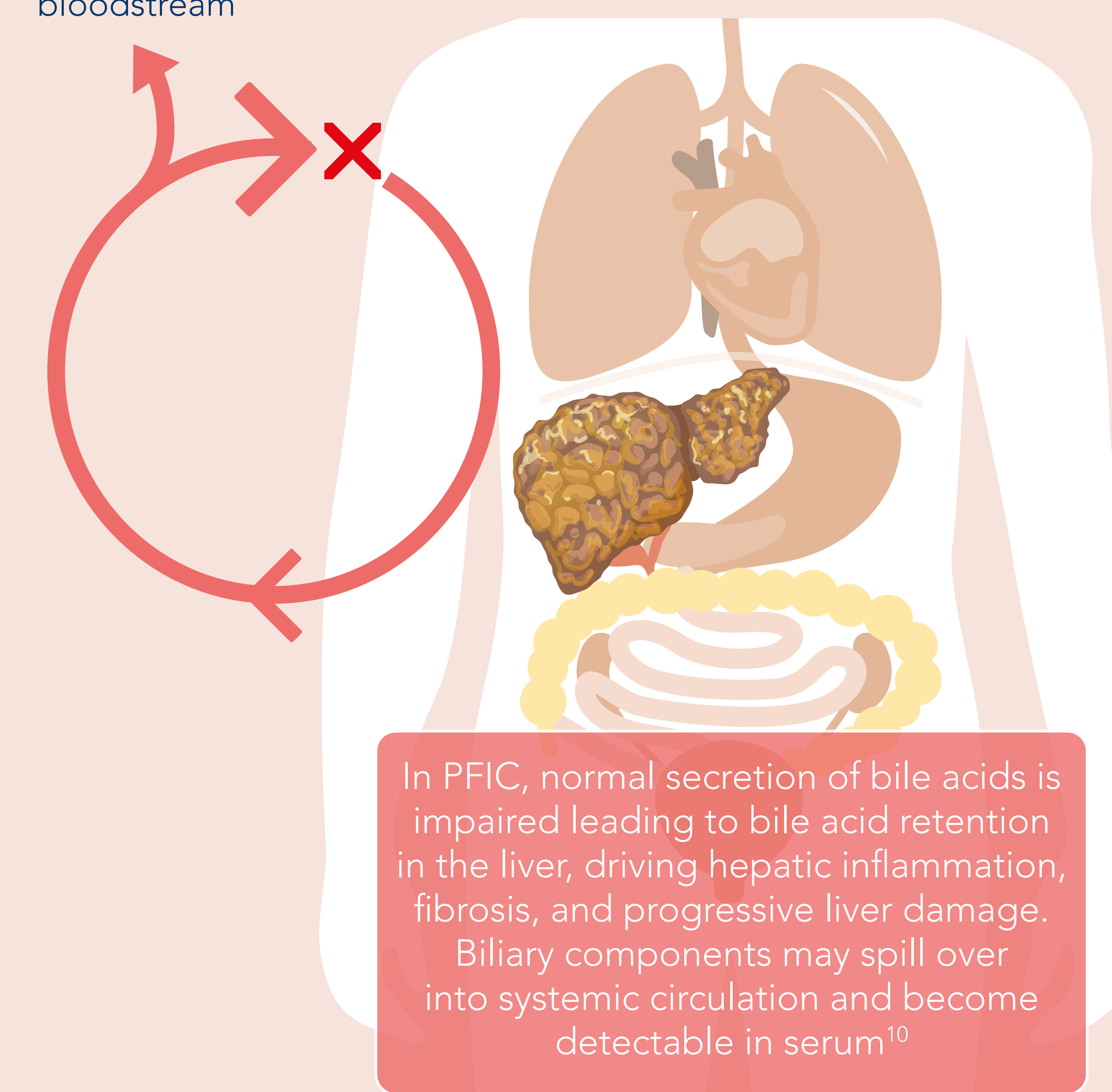
PFIC affects one in 50,000 to 100,000 children⁴

Liver function

Healthy Liver function

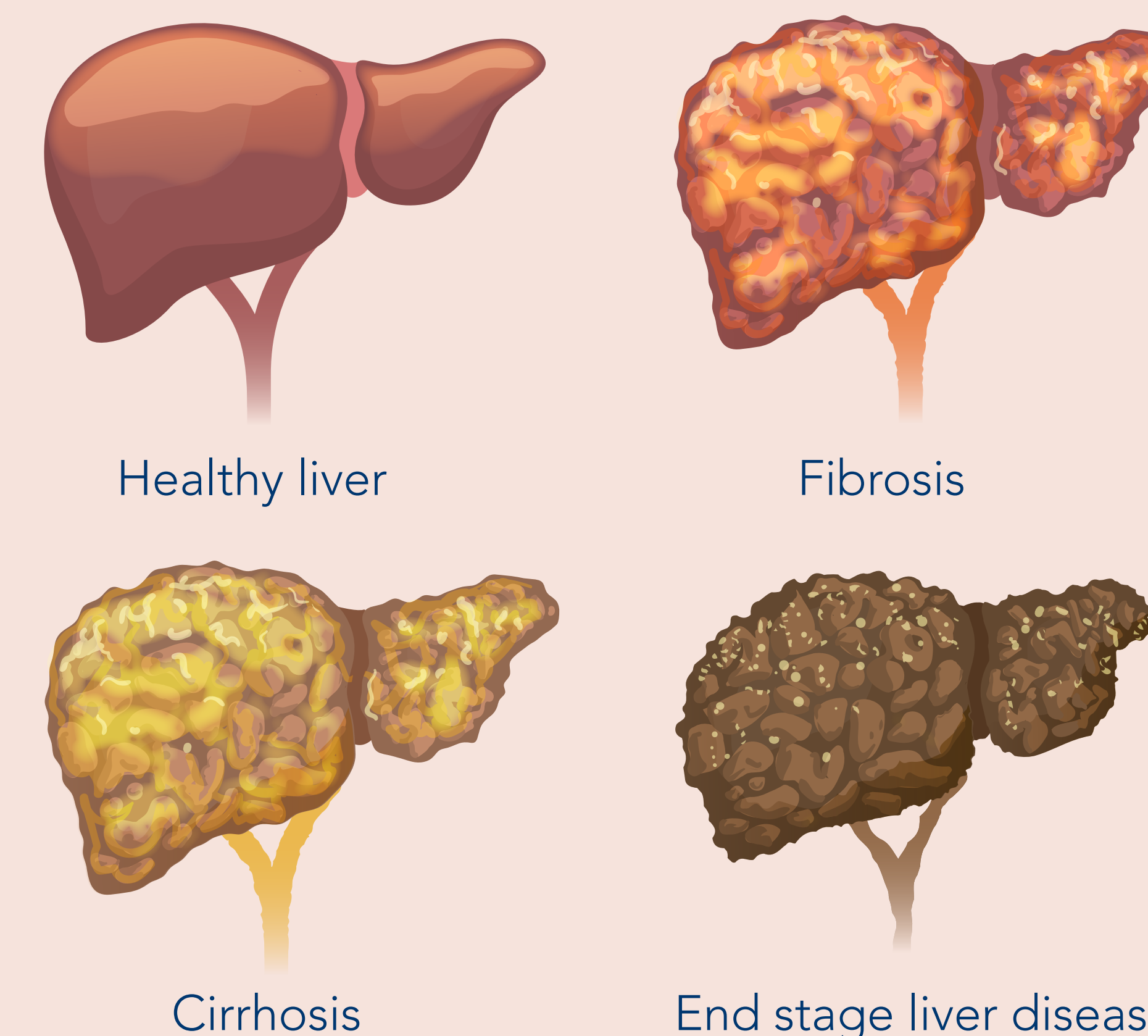


Liver function in PFIC



Disease progression and burden

Disease progression often depends on the type of PFIC, but hepatic signs and symptoms may include inflammation, fibrosis, cirrhosis, or end-stage liver disease (ESLD)²



Pruritus is one of the most debilitating symptoms of PFIC, and patients may experience intense scratching that leads to bleeding and scarring, considerable sleep disruption impacting daily activities, and reduced quality of life³

Higher levels of serum bile acids following surgical biliary diversion have been associated with:

- An increased likelihood of pruritus¹¹
- Decreased native liver survival¹¹



Caregivers also experience significant burden and may have mental and physical health problems, disruptions in personal relationships, sleep disturbances, and difficulty accomplishing daily activities¹²

Management of pruritus in PFIC, as well as reducing serum bile acids, is critical to reducing the immediate impact of symptoms, preserving the native liver, and improving long-term prognosis^{11,13}



1. Goldberg A, Mack CL. *Clin Liver Dis (Hoboken)*. 2020;15(3):105–9; 2. Bull LN, Thompson RJ. *Clin Liver Dis*. 2018;22(4):657–69; 3. Baker A, et al. *Clin Res Hepatol Gastroenterol*. 2019;43(1):20–36; 4. Davit-Spraul A, et al. *Orphanet J Rare Dis*. 2009;4:1; 5. # 619658 Cholestasis, progressive familial intrahepatic, 7, with or without hearing loss; PFIC7. 2021. Available at: <https://omim.org/entry/619658?search=%22progressive%20familial%20intrahepatic%22&highlight=%22progressive%20familial%20intrahepatic%22>. Accessed: January, 2022; 6. # 619662 Cholestasis, progressive familial intrahepatic, 8; PFIC8. 2021. Available at: <https://omim.org/entry/619662?search=%22progressive%20familial%20intrahepatic%22&highlight=%22progressive%20familial%20intrahepatic%22>. Accessed: January, 2022; 7. Aminneni S, et al. *World J Gastroenterol*. 2020;26(47):7470–84; 8. Bull LN, et al. *J Pediatr Gastroenterol Nutr*. 2021;72(5):667–73; 9. Stalke A, et al. *J Pediatr*. 2022;240:284–91.e9; 10. Karpen SJ, et al. *Hepatol Int*. 2020;14(5):677–89; 11. van Wessel DBE, et al. *Hepatology (Baltimore, MD)*. 2021;74(2):892–906; 12. Mighiu C, et al. *Orphanet J Rare Dis*. 2022;17(1):32; 13. Kamath BM, et al. *Liver International*. 2020;40:1812–1822.