The Burden of Alagille Syndrome

What is Alagille syndrome?



Alagille syndrome (ALGS) is a rare autosomal dominant disease caused by mutations in the *JAG1* or *NOTCH2* genes¹

• Approximately 70% of mutations occur *de novo* without being inherited²



ALGS affects approximately one in 50,000 children

Key clinical features of ALGS include cholestasis, characteristic facial features, cardiovascular complications, vertebral abnormalities, and posterior embryotoxon³



ALGS diagnosis may be complicated or delayed due to variability in clinical presentation, absence of family history of disease, or similarities with other conditions³



Misdiagnosis may impact course of treatment and worsen patient outcomes³

 For example, patients may be misdiagnosed with biliary atresia and undergo Kasai portoenterostomy, resulting in liver transplantation and increased mortality

Disease progression and burden

ALGS can be a burdensome, lifelong disease that may impact the emotional, physical, and financial well-being of patients and caregivers^{6,7}



Patients may experience diminished physical functioning and have problems with self-esteem and mental health⁶



Caregivers may encounter limitations to their time, interruption of family activities, and increased stress and worry⁶



More than 80% of patients with ALGS have cholestasis, and associated clinical features may include elevated levels of serum bile acids, total bilirubin, and cholesterol; impaired growth; xanthomas; severe intractable pruritus; and progressive liver disease³



Up to 80% of patients with ALGS experience pruritus,⁹ a debilitating symptom of the disease that can lead to skin damage, considerable sleep disruption, and mood disturbances¹



Approximately 60% of patients with ALGS may need liver transplantation before they reach 18 years of age²

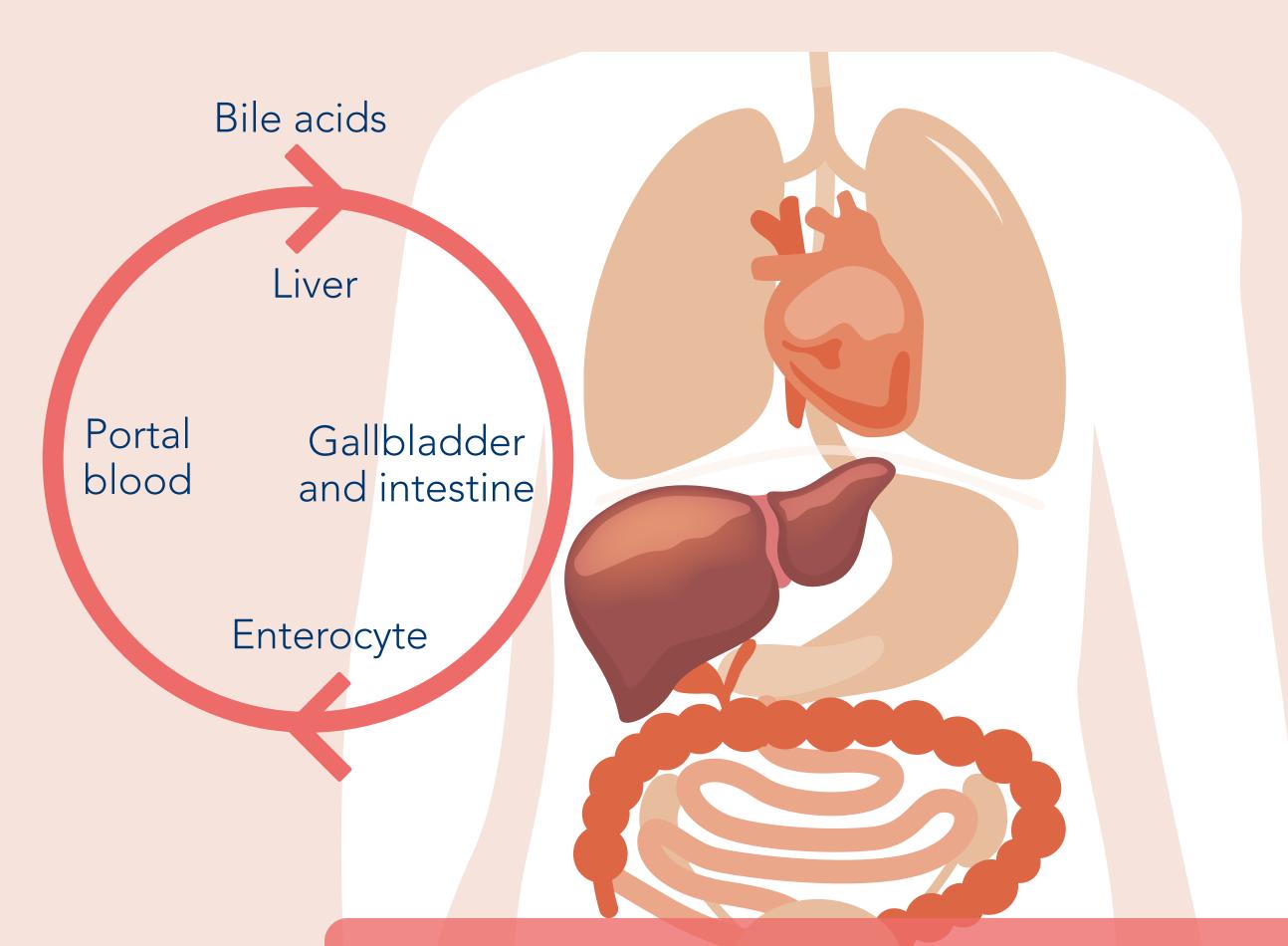


Indications for liver transplantation may include intractable pruritus, disfiguring xanthomas, bone fractures, and signs of end-stage liver disease¹

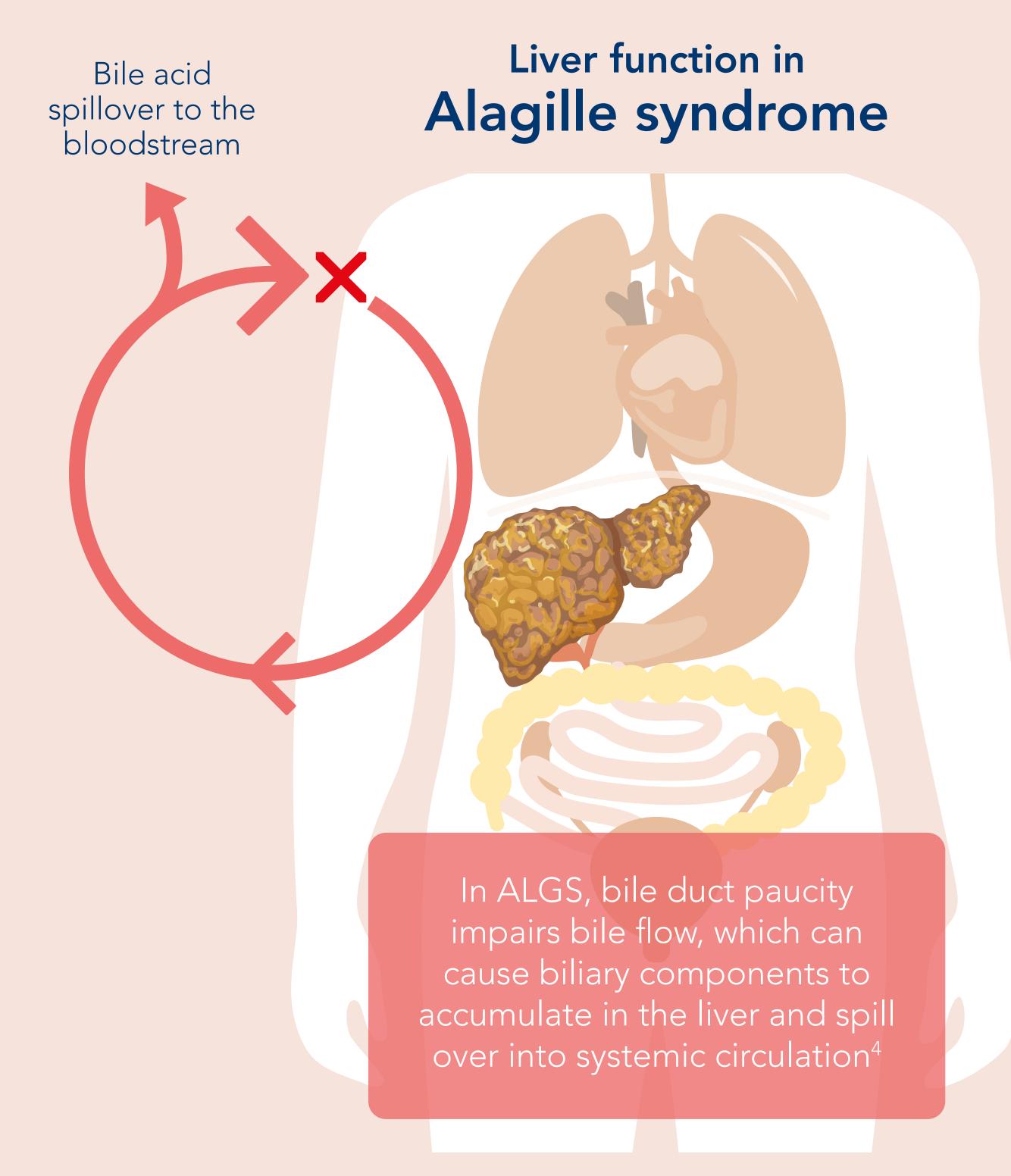
The consequences of cholestasis on the health and quality of life in patients with ALGS and their caregivers are a continuing unmet need

Liver function

Healthy liver function



Bile acids are produced in hepatocytes before entering enterohepatic circulation,^{4,5} with up to 95% being reabsorbed via the ileal bile acid transporter (IBAT) and transported back to the liver, while the remainder are excreted in feces^{4,5}





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