Navigating Cholestasis

What is Primary Biliary

Cholangitis (PBC)?

PBC is a progressive autoimmune disease of the liver.¹

- PBC is estimated to affect 4.3 people per 100,000 per year in the US²
- It is characterized by T-cell mediated destruction of bile ducts^{3,4}
- Fatigue and pruritus are common symptoms of PBC⁵
- PBC can lead to liver fibrosis, cirrhosis, and end-stage liver disease¹

PBC affects more women than men^{2,5–7}

- Most prevalent in women aged 40–80 years^{5,7,8}
- Estimated to affect >1 in 1,000 women over the age of 40⁹



The presentation of PBC ranges from asymptomatic to a host of symptoms

Common symptoms:



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Dry eyes and mouth (Sicca syndrome)⁵

Other reported symptoms include:



Restless legs¹³

Abdominal discomfort¹²

Cognitive impairment¹⁴

Concurrent rheumatologic or autoimmune disease are common with PBC¹⁰

~60% of patients with PBC are asymptomatic at the time of diagnosis¹⁵

1. Galoosian A et al. J Clin Transl Hepatol 2020;8:49–60; 2. Lu M et al. Clin Gastroenterol Hepatol 2018;16:1342–1350; 3. Yamada G et al. Hepatology 1986;6:385–391; 4. Van Den Oord JJ et al. Liver 1984;4: 264–274; 5. Trivella J, et al. Hepatology Communications 2023;7:e0179; 6. Gershwin ME et al. Hepatology 2005;42:1194–1202; 7. Kim WR et al. Gastroenterol 2000;119:1631–1636; 8. Kim KA et al. Ailment Pharmacol Ther 2016;43:154–162; 9. Ma D et al. Heljvon 10 2024;e25634; 10. Liu Y et al. Can J Gastroenterol Hepatol 2021; 5557814; 11. Reshetnyak V et al. World J Gastroenterol 2015;21:7683–7708; 12. Laurin JM et al. J Gastroenterol 1994;89:1840–1843; 13. Anderson K et al. Liver Int 2013;33:239–243; 14. Newton JL et al. Hepatology 2008;48:541–549; 15. Prince MI et al. Gut 2004;53:865–870.



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In PBC, T-cell-mediated injury against intralobular biliary epithelial cells (BECs) causes progressive destruction of the bile ducts^{1,2}

- Apoptosis of BECs leads to the aberrant expression of autoantigens³
- Recognition of autoantigens by **anti-mitochondrial antibody (AMA)** results in the formation of an immune complex^{3,4}
 - → Further activating the immune system and leading to **persistent and** widespread BEC damage^{3,4}

Bile ducts are integral to the liver's regulation of bile acid metabolism.⁵ Their destruction leads to the build-up of bile and other toxins in the liver (cholestasis)⁶



Progression to fibrosis and cirrhosis among people with PBC is becoming rarer due to increasing awareness and understanding of the natural history, as well as earlier diagnosis and prompt treatment.⁶

Jones D et al. Clin Exp Immunol 1997;107:562–568;
Van Den Oord JJ et al. Liver 1984; 4: 264–274;
Lleo A et al. Hepatology 2009;49:871–879;
Lleo A et al. Hepatology 2010;52:987–998;
Mattner J. Int J Mol Sci 2016;17:1864;
Galoosian A et al. J Clin Transl Hepatol 2020;8:49–60;
Lammers W et al. Ann Hepatol 2014;13:316–326.



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