Betty

Age 65

Betty started second-line therapy 12 months ago due to inadequate response to UDCA and evidence of fibrosis. While her ALP decreased, she had to discontinue her second-line treatment after 6 months due to emergent symptoms.

ALP¹ and Bilirubin²



Time since diagnosis: 3 years

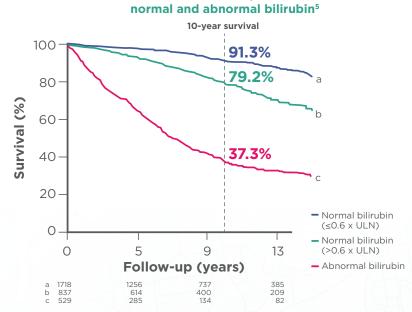
Risk factors ^{3,4} :	Fibrosis
Symptoms:	Fatigue, treatment-emergent pruritus
Current treatment:	UDCA 950 mg daily (15 mg/kg/day)
Time on treatment:	2 years on UDCA, 6 months on UDCA + 2L 6 months on UDCA

If not closely monitored after a change in treatment, what could Betty's rise in bilirubin mean for her long-term outcomes?

Betty is at risk of disease progression given her biochemical levels⁵

Lower bilirubin is associated with greater long-term survival⁵

An analysis of the Global PBC Study Group database concluded the risk of liver transplant or death is increased with bilirubin levels >0.6 x ULN.⁵



Survival estimates in patients with

Closely monitor patients' liver function test results after treatment adjustments are made.^{3,6}

Adapted with permission from Wolters Kluwer Health, Inc.: Murillo Perez CF, et al; Global PBC Study Group. Goals of treatment for improved survival in primary biliary cholangitis: treatment target should be bilirubin within the normal range and normalization of alkaline phosphatase. *Am J Gastroenterol*. 115(7):1066-1074. https://journals.lww.com/ajg/abstract/2020/07000/goals_of_treatment_for_improved_survival_in.20.aspx

2L=second line; ALP=alkaline phosphatase; PBC=primary biliary cholangitis; TB=total bilirubin; UDCA=ursodeoxycholic acid; ULN=upper limit of normal. **References: 1.** ALKI. Mayo Clinic Laboratories. Accessed February 24, 2024. https://www.mayocliniclabs.com/test-catalog/overview/89503#Clinical-and-Interpretive **2.** BILI3. Mayo Clinic Laboratories. Accessed February 24, 2024. https://www.mayocliniclabs.com/test-catalog/overview/8452#Clinical-and-Interpretive **3.** Hirschfield GM, Chazouillères O, Cortez-Pinto H, et al. A consensus integrated care pathway for patients with primary biliary cholangitis: a guideline-based approach to clinical care of patients. *Expert Rev Gastroenterol Hepatol.* 2021;15(8):929-939. **4.** Lindor KD, Bowlus CL, Boyer J, et al. Primary biliary cholangitis: 2018 practice guidance from the American Association for the Study of Liver Diseases. *Hepatology.* 2019;69(1):394-419. **5.** Murillo Perez CF, Harms MH, Lindor KD, et al; Global PBC Study Group. Goals of treatment for improved survival in primary biliary cholangitis: the phosphatase. *Am J Gastroenterol.* 2020;115(7):1066-1074. **6.** Levy C, Manns M, Hirschfield G. New treatment paradigms in primary biliary cholangitis. *Clin Gastroenterol Hepatol.* 2023;21(8):2076-2087.



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