**SDC Table 1.** LOGIC protocol inclusion criteria, including genetic diagnosis with biallelic mutations, as determined by study site during course of clinical care or, in absence of a genetic diagnosis, clinical features. All participants meeting criteria who had DNA in the study repository were subjected to research gene sequencing to determine inclusion in the current analysis.

|  |
| --- |
| **Two documented mutant alleles in ATP8B1, ABCB11, ABCB4 (or TJP2, not in this analysis)** |
| **OR** |
| **Evidence of chronic liver disease (one or more of the following):** |
| -clinical or biochemical hepatic abnormalities >6 months |
| -clinical or histologic stigmata of chronic liver disease |
| -sibling of known individual affected by PFIC or BRIC |
| -recurrent and episodic cholestasis at least twice (with ≥3 months between episodes) |
| **AND** |
| **Evidence of cholestasis by (one or more of the following):** |
| -fasting serum bile acids >3x ULN for age |
| -direct bilirubin >2mg/dL |
| -fat soluble vitamin deficiency |
| -GGT >3x ULN for age |
| -intractable pruritus due to liver disease |

Abbreviations: BRIC, benign recurrent intrahepatic cholestasis; GGT, gamma-glutamyl transpeptidase; LOGIC, Longitudinal Study of Genetic Causes of Intrahepatic Cholestasis; PFIC, progressive familial intrahepatic cholestasis; ULN, upper limit of normal.