

Protocol for Livmarli® (maralixibat)

Approved April 2023

Background: Alagille syndrome (ALGS) is an inherited multisystem disorder typically manifesting as cholestasis, and potentially leading to end-stage liver disease and death.

Livmarli is an ileal bile acid transporter (IBAT) inhibitor indicated for the treatment of cholestatic pruritus in patients with Alagille syndrome

Criteria for approval:

- 1. Diagnosis of Alagille syndrome
- 2. Patient is 3 months of age or older
- 3. Patient has symptoms of moderate to severe pruritus
- 4. Patient has cholestasis, as indicated by at least ONE of the following:
 - a. Total serum bile acid >3x the upper limit of normal (ULN) for age
 - b. Conjugated bilirubin >1 mg/dL
 - c. Fat soluble vitamin deficiency that is otherwise unexplainable
 - d. Gamma Glutamyl Transferase (GGT) >3 x ULN for age
 - e. Intractable pruritus explainable only by liver disease
- 5. Medication is prescribed by or in consultation with a hepatologist, gastroenterologist, or other specialist with experience in the treatment of the disease
- 6. Patient has no history of liver transplant or clinical evidence of decompensated cirrhosis
- 7. Patient has had inadequate response to at least one medication used to treat pruritus (e.g., Ursodiol [ursodeoxycholic acid], cholestyramine, rifampin, naltrexone) unless all are contraindicated
- 8. Medication is prescribed in accordance with Food and Drug Administration (FDA) established indication and dosing regimens or in accordance with medically appropriate off-label indication and dosing according to American Hospital Formulary Service, Micromedex, Clinical Pharmacology, Wolters Kluwer Lexi-Drugs (Lexicomp), national guidelines, or other peer-reviewed evidence

Initial Approval: 6 months

Aetna Better Health of New Jersey



Continuation of therapy:

- 1. Documentation of positive clinical response to therapy (e.g., reduced pruritus, reduced serum bile acids from baseline) in chart notes or medical records
- 2. Medication is prescribed by or in consultation with a hepatologist, gastroenterologist, or other specialist in the treated disease state

Renewal Approval: 12 months

References

- 1. Livmarli [prescribing information]. Mirum Pharmaceuticals Inc. Foster City, CA. September 2021
- 2. Kamath BM, et al. Systematic review: The epidemiology, natural history, and burden of Alagille syndrome. J Pediatr Gastroenterol Nutr. 2018; 67:148-156.
- 3. Clinical Pharmacology® Gold Standard Series [Internet database]. Tampa FL. Elsevier 2019. Updated periodically