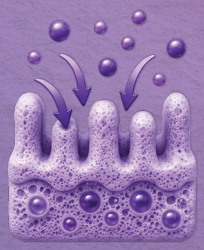
Cholic acid helps your body absorb the nutrients it needs to prevent bile acid buildup

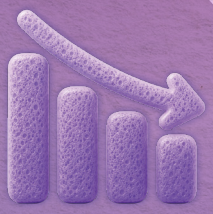
When genetic changes make this difficult, here's what happens:

- It is hard for the body to break down and absorb important nutrients from food (cholesterol and other fats and vitamins).
- Your liver starts to make harmful toxins.
- The flow of bile acid slows down and toxins build up, which starts to hurt the liver (cholestasis).

Cholic acid may help the body to:



Increase absorption of fat-soluble vitamins



Reduce harmful toxins in your liver



Improve bile acid flow and prevent buildup

CHOLBAM® (cholic acid) **is a bile acid replacement therapy**

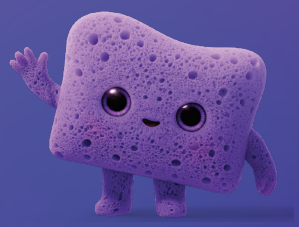
INDICATION

What is CHOLBAM® (cholic acid) capsules?

CHOLBAM is a prescription medicine. It is a bile acid used for

- Treatment of bile acid synthesis disorders (malfunction in the production of bile acid in the liver) due to a lack of a single enzyme responsible for bile acid production.
- Treatment (in addition to other treatments) of peroxisomal disorders (a loss of function in important parts of the cell), including Zellweger spectrum disorders, in patients who show signs or symptoms of liver disease, pale stools due to too much fat, or problems resulting from not absorbing certain vitamins (A, D, E, K).

The safety and effectiveness of CHOLBAM on symptoms outside of the liver have not been studied.



Cholbam®
(cholic acid) capsules

Please see full Prescribing Information for additional Important Safety Information.

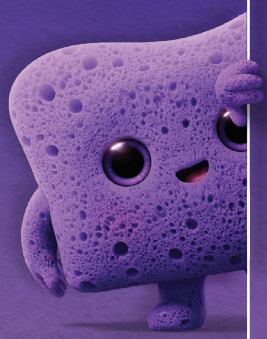
CHOLBAM® (cholic acid) may help*:

Absorb Fats and Fat-Soluble Vitamins:
Helps your body use important nutrients from the foods you eat.

Lower Liver Enzymes:
May help support better liver function.

Support Growth:
May help people improve their height and weight.

Note: The safety and effectiveness of CHOLBAM on extrahepatic manifestations of bile acid synthesis disorders due to single enzyme defects or peroxisomal disorders (PDs), including Zellweger spectrum disorders, have not been established.



More cholic acid • **Less** liver toxins • **More** absorption

***No evaluable patients with SLOS were in the pivotal studies. One patient had other BASDs due to SEDs.** In a 2-month pilot SLOS study, 9 of 12 patients showed an increasing trend in weight gain from baseline but did not reach statistical significance. Improvements in height have also been reported in results of 2 PBD-ZSD trials, including an 18-year, open-label trial and a 21-month extension, of patients with PBD-ZSD (N=24). BASD Trial 1: a nonrandomized, open-label, single-arm trial of 50 patients with BASDs due to SEDs and 29 patients with PDs, including Zellweger spectrum disorders. Safety data are available over the 18 years of the trial. BASD Trial 2: an extension trial of 12 new patients (10 SED and 2 PD), along with 31 (21 SED and 10 PD) patients who rolled over from Trial 1.

BASD=bile acid synthesis disorder; PBD-ZSD=peroxisomal biogenesis disorder-Zellweger spectrum disorder; SED=single-enzyme defect; SLOS=Smith-Lemli-Opitz Syndrome.

IMPORTANT SAFETY INFORMATION

CHOLBAM may not be right for you. Before taking CHOLBAM, tell your doctor about:

- All health conditions you may have and any medications you may be taking.
- If you are pregnant or plan to become pregnant.
- If you are breastfeeding or plan to breastfeed.

What are the possible side effects of CHOLBAM?

- **Serious Side Effects:** You will need to undergo laboratory testing periodically while on treatment to assess liver function. CHOLBAM may worsen liver function. Tell your doctor right away if you experience symptoms associated with worsening of liver function (e.g., skin or the whites of eyes turn yellow, urine turns dark or brown [tea colored], pain on the right side of stomach, bleeding or bruising occurs more easily than normal, or increased lethargy). Your doctor will decide if you need to discontinue treatment with CHOLBAM.
- **Most Common Side Effects:** Diarrhea, acid reflux that damages the lining of the esophagus, discomfort and fatigue, yellowing of skin or eyes, skin lesion, nausea, abdominal pain, formation of growths in the intestinal tract, urinary tract infection, nerve damage causing change in sensation in extremities.

These are not all the possible side effects of CHOLBAM. Tell your doctor if you have any side effect that bothers you or that does not go away.

You may report side effects to FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. You may also report side effects to Mirum Pharmaceuticals at 1-855-MRM-4YOU.

Please see full Prescribing Information for additional Important Safety Information.

> **See how CHOLBAM worked in real patients like Mallie**

Individual experiences may vary.

mirum | Cholbam® (cholic acid) capsules

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