

Patient Enrollment Form for CHOLBAM® Total Care Hub®

Phone: 844-CHOLBAM (844-246-5226) — Fax 877-473-3171

PATIENT INFORMATION

Patient First Name		MI	
Last Name	Gender	<input type="checkbox"/> M	<input type="checkbox"/> F
Date of Birth	SS#		
Address			
City	State	ZIP	
Home Phone	Mobile Phone		
Preferred Method of Contact <input type="checkbox"/> Home Phone <input type="checkbox"/> Mobile Phone <input type="checkbox"/> E-mail			
E-mail			
FOR PATIENTS UNDER 18:			
Parent/Guardian First Name		MI	
Last Name			
Address			
City	State	ZIP	
Home Phone	Mobile Phone		
E-mail			

PRIMARY INSURANCE Please attach a copy of both sides of the patient's insurance card(s)

Insurance Carrier	
Customer Service Phone	
Subscriber Name	
Relationship to Patient	
Employer Name	
Subscriber Date of Birth	
Subscriber ID Number	
Policy/Employer/Group Number	
PHARMACY BENEFITS—PRESCRIPTION DRUG CARD	
Insurance Carrier	
Customer Service Phone	
Subscriber Name	Bin#
Subscriber Date of Birth	
Subscriber ID Number	
Policy/Employer/Group Number	

DIAGNOSIS/MEDICAL INFORMATION (This is for insurance purposes only, not to suggest approved uses for indication)

Diagnosis <input type="checkbox"/> Bile Acid Synthesis Disorders (B.A.S.D.)		ICD-10-CM Code: _____	ICD-10-CM Code/Description: _____
Due to Single Enzyme Defect (check box): <input type="checkbox"/> 3β-HSD or HSD3β7 deficiency <input type="checkbox"/> AKR1D1 deficiency <input type="checkbox"/> CYP27A1 deficiency (presenting as cerebrotendinous xanthomatosis, CTX) <input type="checkbox"/> AMACR deficiency <input type="checkbox"/> Unknown/Other		Due to Peroxisomal Biogenesis Disorder/Zellweger Spectrum Disorder (PBD-ZSD): <input type="checkbox"/> PBD-ZSD - Severe <input type="checkbox"/> PBD-ZSD - Mild - Moderate <input type="checkbox"/> Unknown/Other	
		Height _____ inches	Weight _____ kgs

CHOLBAM (cholic acid) ORAL CAPSULES PRESCRIPTION/ORDER

CHOLBAM Total daily dose = _____ mg/day: _____ mg _____ times a day
 (The recommended dosage of CHOLBAM is 10 to 15 mg/kg administered orally once daily, in two divided doses. Refer to the PI for additional information on Dosage & Administration)

Dispense 30 day supply Number of refills _____

Signature: _____

Lab Test Supporting Diagnosis	Results (at least one result)	Date
Genetic Test		
Very Long Chain Fatty Acid		
FAB-MS, Urinary Bile Acid (Atypical)		
Cholestanol		
7A12AC4 or 7AC4, Ketosterols		
Liver Function (ALT/AST/GGT/Bilirubin)		
Other: _____		

PHYSICIAN CERTIFICATION

By signing below, I certify that (a) the above therapy is medically necessary and that I will supervise the patient's treatment accordingly; (b) I have received the necessary authorizations, including those required by state law and the Health Insurance Portability and Accountability Act of 1996 (HIPAA), to release the above information and other health and medical information of the patient to Traverse Therapeutics, Inc., and the company or companies that help Traverse Therapeutics administer the CHOLBAM Total Care Hub services; (c) I am prescribing the drug listed for the patient listed in this application based upon my independent medical judgment. By my signature below, I agree to receive certain reimbursement support services. I authorize Traverse Therapeutics and EVERSANA, acting on behalf of Traverse, to use the information contained in the prescription above, my name, and the name, address, and telephone number of my medical practice, and other applicable information, in order to provide me, my practice, and the patient listed in this application with the aforementioned reimbursement support services. I understand that participation in the CHOLBAM Total Care Hub services described does not constitute a guarantee on the part of Traverse Therapeutics or parties acting on its behalf that (1) the drug I have prescribed will be reimbursed by the patient's or any insurance program, or (2) the patient will be eligible for any patient assistance program. I appoint Traverse Therapeutics and its agents to convey this prescription—electronically or otherwise—to the dispensing pharmacy.

Prescriber's Signature _____ Date _____
(No stamps permitted; prescription will be dispensed as written unless otherwise noted)

Prescriber NPI# _____ Prescriber State License # _____

Prescriber's full, usual, and actual signature is required – no stamps. This form cannot be processed without the prescriber's signature.

Prescriber's First Name		MI	Last Name	
Address	City	State	ZIP	
Phone	Fax	E-mail		
Office Contact Name	Phone			

Please Note: If you are faxing a prescription, it must be faxed from prescriber's facility to fax number (877) 473-3171.
Please return this form to the CHOLBAM (cholic acid) Total Care Hub by faxing it to (877) 473-3171.

PATIENT AUTHORIZATION AND RELEASE TO COLLECT, USE, AND DISCLOSE PROTECTED HEALTH INFORMATION

Before signing, the patient and/or patient’s authorized representative should review and understand the terms of this Authorization and Release (“Authorization”) before signing. If an authorized representative signs for the patient, please indicate the relationship to the patient.

I understand that the collection, use, and disclosure of the patient’s health information are protected under law. Information contained in this Enrollment Form, such as the patient’s name, address, insurance, prescription, and medical information, is “protected health information” (“PHI”).” By signing this Authorization, the patient agrees to the collection, use, and disclosure of the patient’s PHI as described below.

I understand that I may decline to sign this Authorization, and that doing so will not affect the patient’s ability to receive CHOLBAM® (cholic acid) or obtain insurance or insurance benefits.

I understand that once PHI about the patient is released, based on this Authorization, federal privacy laws may not prevent (Travere Therapeutics and company or companies who administer the CHOLBAM® (cholic acid) Total Care Hub® Support Services (“Services”) from further disclosing my information. However, I understand that such entities have agreed to use or disclose PHI they receive only for the purposes described in this Authorization or as required by law. I also understand that I may revoke (withdraw) this Authorization at any time by sending a signed, written statement to the CHOLBAM Total Care Hub and faxing it to (877) 473-3167.

Revoking this Authorization will prohibit PHI disclosures after the date the written revocation is received by the CHOLBAM Total Care Hub, except to the extent that action has been taken already in on this Authorization. After I revoke this Authorization, the patient’s PHI may be disclosed among Travere Therapeutics and the company or companies that help Travere Therapeutics administer the Services in order to maintain records of the patient’s participation, but it will not be otherwise disclosed or used.

By signing below, I authorize Travere Therapeutics and the company or companies that help Travere Therapeutics administer the Services, to do the following:

1. Request and receive information from the patient’s treating physician, healthcare provider, health insurer, or pharmacist necessary to investigate and resolve the patient’s insurance coverage, coding, or reimbursement inquiry or to provide the reimbursement support service that I have requested. Information may include the patient’s medical diagnosis, condition, and treatment (including prescription information), the patient’s health insurance, name, address and telephone number;
2. Collect, use, and disclose to each other any patient information including PHI provided to Travere Therapeutics for the purpose of investigating and resolving the patient’s insurance coverage, coding, or reimbursement inquiry or to administer the Services, including entering and maintaining the patient’s PHI in a database;
3. Contact me by mail, email, telephone, text or alternative communication to discuss and receive marketing communications, invitations to participate in research, educational materials, treatment support services and patient engagement initiatives designed for people taking CHOLBAM, including nutritional support and counseling;
4. Communicate with my healthcare providers and health plans about my benefit and coverage status and product administration (e.g., prescription, dosing, refills);
5. Disclose information to the patient’s treating physician, healthcare professional, or pharmacist that I have provided to Travere Therapeutics as necessary to resolve patient insurance coverage, coding, or reimbursement inquiry. By signing below, I also authorize the insurer, treating physician, healthcare provider, and pharmacist to release PHI about the patient’s prescribed medications and medical condition requested by Travere Therapeutics and the company or companies that help Travere Therapeutics administer the Services.
6. Contact the patient’s insurer, other potential funding sources, social workers, patient advocacy organizations, or patient assistance programs (e.g., the CHOLBAM Total Care Hub) on the patient’s behalf to determine if the patient may be eligible for health insurance coverage or other funds, and disclose to them PHI about the patient’s prescribed medications and medical condition that has been provided by the patient or patient’s authorized representative or physician, healthcare provider, or pharmacist; and
7. Disclose any PHI obtained from the sources listed above to third parties, if required by law, and to conduct surveys to evaluate the effectiveness of the CHOLBAM Total Care Hub program.

Retrophin and Services administer agree to protect the patient’s PHI by using and disclosing the patient’s PHI only for the reasons listed above or as required by law

Patient’s Signature	Date
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Print Patient’s Name

Legally Authorized Representative’s Signature (if needed)

Print Legally Authorized Representative’s Name

Relationship to Patient Spouse Legal Guardian Representative per Power of Attorney

Representative’s Address

Phone	Mobile Phone
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Fax this form, along with both sides of the patient’s Medical and Prescription Drug Benefit cards to CHOLBAM Total Care Hub at (877) 473-3171 Retain a copy of this form in the patient’s records.

Please see Important Safety Information and full Prescribing Information at www.cholbam.com.

CHOLBAM® (CHOLIC ACID) INDICATION & SAFETY INFORMATION

INDICATION

CHOLBAM® (cholic acid) is a bile acid indicated for

- Treatment of bile acid synthesis disorders due to single enzyme defects
- Adjunctive treatment of peroxisomal disorders, including Zellweger spectrum disorders, in patients who exhibit manifestations of liver disease, steatorrhea, or complications from decreased fat-soluble vitamin absorption.

LIMITATION OF USE

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

IMPORTANT SAFETY INFORMATION

WARNINGS AND PRECAUTIONS – Exacerbation of liver impairment

- Monitor liver function and discontinue CHOLBAM in patients who develop worsening of liver function while on treatment.
- Concurrent elevations of serum gamma glutamyltransferase (GGT) and alanine aminotransferase (ALT) may indicate CHOLBAM overdose.
- Discontinue treatment with CHOLBAM at any time if there are clinical or laboratory indicators of worsening liver function or cholestasis.

ADVERSE REACTIONS

- The most common adverse reactions ($\geq 1\%$) are diarrhea, reflux esophagitis, malaise, jaundice, skin lesion, nausea, abdominal pain, intestinal polyp, urinary tract infection, and peripheral neuropathy.

DRUG INTERACTIONS

- Inhibitors of Bile Acid Transporters: Avoid concomitant use of inhibitors of the bile salt efflux pump (BSEP) such as cyclosporine. Concomitant medications that inhibit canalicular membrane bile acid transporters such as the BSEP may exacerbate accumulation of conjugated bile salts in the liver and result in clinical symptoms. If concomitant use is deemed necessary, monitoring of serum transaminases and bilirubin is recommended.
- Bile Acid Binding Resins: Bile acid binding resins such as cholestyramine, colestipol, or colesevelam adsorb and reduce bile acid absorption and may reduce the efficacy of CHOLBAM. Take CHOLBAM at least 1 hour before or 4 to 6 hours (or at as great an interval as possible) after a bile acid binding resin.
- Aluminum-Based Antacids: Aluminum-based antacids have been shown to adsorb bile acids in vitro and can reduce the bioavailability of CHOLBAM. Take CHOLBAM at least 1 hour before or 4 to 6 hours (or at as great an interval as possible) after an aluminum-based antacid.

PREGNANCY

No studies in pregnant women or animal reproduction studies have been conducted with CHOLBAM. Women who become pregnant during CHOLBAM treatment are encouraged to call 1-844-202-6262.

LACTATION

Endogenous cholic acid is present in human milk. Clinical lactation studies have not been conducted to assess the presence of CHOLBAM in human milk, the effects of CHOLBAM on the breastfed infant, or the effects of CHOLBAM on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for CHOLBAM and any potential adverse effects on the breastfed infant from CHOLBAM or from the underlying maternal condition.

GERIATRIC USE

It is not known if elderly patients respond differently from younger patients.

HEPATIC IMPAIRMENT

- Discontinue treatment with CHOLBAM if liver function does not improve within 3 months of the start of treatment.
- Discontinue treatment with CHOLBAM at any time if there are clinical or laboratory indicators of worsening liver function or cholestasis. Continue to monitor laboratory parameters of liver function and consider restarting at a lower dose when the parameters return to baseline.

OVERDOSAGE

Concurrent elevations of serum GGT and serum ALT may indicate CHOLBAM overdose. In the event of overdose, the patient should be monitored and treated symptomatically. Continue to monitor laboratory parameters of liver function and consider restarting at a lower dose when the parameters return to baseline.

To report SUSPECTED ADVERSE REACTIONS, contact Travere Therapeutics, Inc. at 1-877-659-5518 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

Please see accompanying full Prescribing Information.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use CHOLBAM® safely and effectively. See full prescribing information for CHOLBAM.

CHOLBAM (cholic acid) capsules, for oral use
Initial U.S. Approval: 2015

RECENT MAJOR CHANGES

- Warnings and Precautions, Exacerbation of Liver Impairment (5.1) 10/2020

INDICATIONS AND USAGE

CHOLBAM is a bile acid indicated for:

- Treatment of bile acid synthesis disorders due to single enzyme defects (SEDs). (1.1)
- Adjunctive treatment of peroxisomal disorders (PDs) including Zellweger spectrum disorders in patients who exhibit manifestations of liver disease, steatorrhea or complications from decreased fat-soluble vitamin absorption. (1.2)

Limitations of use:

The safety and effectiveness of CHOLBAM on extrahepatic manifestations of bile acid synthesis disorders due to SEDs or PDs including Zellweger spectrum disorders have not been established. (1.3).

DOSAGE AND ADMINISTRATION

- The recommended dosage is 10 to 15 mg/kg once daily or in two divided doses, in pediatric patients and adults. See prescribing information for weight-based dosing tables. (2.1)
- The recommended dosage in patients with concomitant familial hypertriglyceridemia is 11 to 17 mg/kg once daily or in two divided doses and is adjusted based on clinical response. (2.1)
- Monitor AST, ALT, GGT, alkaline phosphatase, bilirubin and INR every month for the first 3 months, every 3 months for the next 9 months, every 6 months during the next three years and annually thereafter. Administer the lowest dose that effectively maintains liver function. (2.2)
- Discontinue CHOLBAM if liver function does not improve within 3 months of starting treatment, if complete biliary obstruction develops, or if there are persistent clinical or laboratory indicators of worsening liver function or cholestasis; continue to monitor liver function and consider restarting at a lower dose when parameters return to baseline. (2.2, 5.1)

Administration Instructions:

- Take with food. (2.3)
- Do not crush or chew the capsules. For patients unable to swallow the capsules, the capsules can be opened and the contents mixed with drink/food (2.3)

DOSAGE FORMS AND STRENGTHS

Capsules: 50 mg, 250 mg (3)

CONTRAINDICATIONS

None (4)

WARNINGS AND PRECAUTIONS

Exacerbation of Liver Impairment: Monitor liver function. Discontinue CHOLBAM if liver function worsens while on treatment. (5.1)

ADVERSE REACTIONS

Most common adverse reactions (≥1%) are diarrhea, reflux esophagitis, malaise, jaundice, skin lesion, nausea, abdominal pain, intestinal polyp, urinary tract infection, and peripheral neuropathy. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Travele Therapeutics, Inc. at 1-877-659-5518 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Bile Salt Efflux Pump (BSEP) Inhibitors (e.g., cyclosporine): Avoid concomitant use; if concomitant use is necessary, monitor serum transaminases and bilirubin (7.1)
- Bile Acid Resins and Aluminum-Based Antacids: Take CHOLBAM at least 1 hour before or 4 to 6 hours (or at as great an interval as possible) after a bile acid binding resin or aluminum-based antacids. (2.3, 7.1)

See 17 for PATIENT COUNSELING INFORMATION

Revised: 10/2020

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*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1. INDICATIONS AND USAGE

1.1. Bile Acid Synthesis Disorders Due to Single Enzyme Defects

CHOLBAM is indicated for the treatment of bile acid synthesis disorders due to single enzyme defects (SEDs).

1.2. Peroxisomal Disorders Including Zellweger Spectrum Disorders

CHOLBAM is indicated for adjunctive treatment of peroxisomal disorders (PDs) including Zellweger spectrum disorders in patients who exhibit manifestations of liver disease, steatorrhea or complications from decreased fat-soluble vitamin absorption.

1.3. Limitations of Use

The safety and effectiveness of CHOLBAM on extrahepatic manifestations of bile acid synthesis disorders due to SEDs or PDs including Zellweger spectrum disorders have not been established.

2. DOSAGE AND ADMINISTRATION

2.1. Dosage Regimen for Bile Acid Synthesis Disorders Due to SEDs and PDs Including Zellweger Spectrum Disorders

The recommended dosage of CHOLBAM is 10 to 15 mg/kg administered orally once daily or in two divided doses, in pediatric patients and adults.

Tables 1 and 2 show the number of capsules that should be administered daily to approximate a dosage of 10 mg/kg/day and 15 mg/kg/day, respectively, using the available 50 mg and 250 mg capsules alone or in combination.

Table 1: Number of CHOLBAM Capsules Needed to Achieve a Recommended Dosage of 10 mg/kg/day

Body Weight (kg)	10 mg/kg/day Dosage	
	Number of 50 mg capsules	Number of 250 mg capsules
4 to 6	1	0
7 to 10	2	0
11 to 15	3	0
16 to 20	4	0
21 to 25	0	1
26 to 30	1	1
31 to 35	2	1
36 to 40	3	1
41 to 45	4	1
46 to 50	0	2
51 to 55	1	2
56 to 60	2	2
61 to 65	3	2
66 to 70	4	2
71 to 75	0	3
76 to 80	1	3

Table 2: Number of CHOLBAM Capsules Needed to Achieve a Recommended Dosage of 15 mg/kg/day

Body Weight (kg)	15 mg/kg/day Dosage	
	Number of 50 mg capsules	Number of 250 mg capsules
4 to 5	1	0
6 to 9	2	0
10 to 13	3	0
14 to 16	4	0
17 to 19	0	1
20 to 23	1	1
24 to 26	2	1
27 to 29	3	1
30 to 33	4	1
34 to 36	0	2
37 to 39	1	2
40 to 43	2	2
44 to 46	3	2
47 to 49	4	2
50 to 53	0	3
54 to 56	1	3
57 to 59	2	3
60 to 63	3	3
64 to 66	4	3



CHOLBAM (cholic acid) capsule
50 mg, 250 mg
October 2020
70041422

Body Weight (kg)	15 mg/kg/day Dosage	
	Number of 50 mg capsules	Number of 250 mg capsules
67 to 69	0	4
70 to 73	1	4
74 to 76	2	4
77 to 79	3	4
80	4	4

Patients with newly diagnosed, or a family history of, familial hypertriglyceridemia may have poor absorption of CHOLBAM from the intestine and require a 10% increase in the recommended dosage to account for losses due to malabsorption. The recommended dosage of CHOLBAM in patients with concomitant familial hypertriglyceridemia is 11 to 17 mg/kg orally once daily, or in two divided doses. Adequacy of the dosage regimen can be determined by monitoring the patient's clinical response including steatorrhea and laboratory values of serum transaminases, bilirubin, and prothrombin time/international normalized ratio (PT/INR).

2.2. Treatment Monitoring

Treatment with CHOLBAM should be initiated and monitored by an experienced hepatologist or pediatric gastroenterologist.

Monitor serum aspartate aminotransferase (AST), serum alanine aminotransferase (ALT), serum gamma glutamyltransferase (GGT), alkaline phosphatase, bilirubin, and INR every month for the first 3 months, every 3 months for the next 9 months, every 6 months during the subsequent three years, and annually thereafter. Monitor more frequently during periods of rapid growth, concomitant disease, and pregnancy. Administer the lowest dose of CHOLBAM that effectively maintains liver function [see Warnings and Precautions (5.1)].

Discontinue treatment with CHOLBAM if liver function does not improve within 3 months of the start of treatment or if complete biliary obstruction develops.

Discontinue treatment with CHOLBAM at any time if there are persistent clinical or laboratory indicators of worsening liver function or cholestasis [see Warnings and Precautions (5.1)].

Concurrent elevations of serum GGT and serum ALT may indicate CHOLBAM overdose [see Overdosage (10)]. Continue to monitor laboratory parameters of liver function and consider restarting at a lower dose when parameters return to baseline.

Assessment of serum or urinary bile acid levels using mass spectrometry is used in the diagnosis of bile acid synthesis disorders due to SEDs and PDs including Zellweger spectrum disorders. The utility of bile acid measurements in monitoring the clinical course of patients and in decisions regarding dose adjustment has not been demonstrated.

2.3. Administration Instructions

- Take CHOLBAM with food.
- Take CHOLBAM at least 1 hour before or 4 to 6 hours (or at as great an interval as possible) after a bile acid binding resin or aluminum-based antacid.
- Do not crush or chew the capsules.
- For patients unable to swallow the capsules, open the capsules and mix the contents with infant formula or expressed breast milk (for younger children), or soft food such as mashed potatoes or apple puree (for older children and adults) in order to mask any unpleasant taste:
 - Hold the capsule over the prepared liquid/food, gently twist open, and allow the contents to fall into the liquid/food.
 - Mix the entire capsule contents with one or two tablespoons (15 mL to 30 mL) of infant formula, expressed breast milk, or soft food such as mashed potatoes or apple puree.
 - Stir for 30 seconds.
 - The capsule contents will remain as fine granules in the milk or food and will not dissolve.
 - Administer the mixture immediately.

3. DOSAGE FORMS AND STRENGTH

CHOLBAM is available in two capsule strengths:

- 50 mg capsule: Size number 2 Swedish orange capsule with cap imprinted with "50mg" and body imprinted with "ASK001". The capsules contain a white to off-white powder.
- 250 mg capsule: Size number 0 white capsule with a cap imprinted with "250mg" and body imprinted with "ASK002". The capsules contain a white to off-white powder.

4. CONTRAINDICATIONS

None.

5. WARNINGS AND PRECAUTIONS

5.1. Exacerbation of Liver Impairment

In clinical trials, evidence of liver impairment was present before treatment with CHOLBAM in approximately 86% (44/51) of patients with bile acid synthesis disorders due to SEDs and in approximately 50% (14/28) of patients with PDs including Zellweger spectrum disorders. Five of the patients (3SED and 2 PD) with liver impairment at baseline experienced worsening serum transaminases, elevated bilirubin values, or worsening cholestasis on liver biopsy following treatment. Five additional patients (2 SED and 3 PD) who did not have baseline cholestasis experienced exacerbation of their liver disease while on treatment. In patients with cirrhosis, cases of severe hepatotoxicity have also been observed following postmarket use of CHOLBAM. Exacerbation of liver impairment by CHOLBAM in these patients cannot be ruled out.

Six patients with SEDs underwent liver transplant, including four patients diagnosed with AKR1D1 deficiency, one with 3 β -HSD deficiency, and one with CYP7A1 deficiency.

Concurrent elevations of serum GGT and ALT may indicate CHOLBAM overdose [see Dosage and Administration (2.2) and Overdosage (10)].

Monitor liver function and discontinue CHOLBAM in patients who develop worsening of liver function while on treatment. Discontinue treatment with CHOLBAM at any time if there are clinical or laboratory indicators of worsening liver function or cholestasis [see Dosage and Administration (2.2)].

6. ADVERSE REACTIONS

The following clinically significant adverse reaction is described elsewhere in the labeling:

- Exacerbation of Liver Impairment [see Warnings and Precautions (5.1)]

6.1. Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Clinical safety experience with CHOLBAM consists of:

- Trial 1: a non-randomized, open-label, single-arm trial of 50 patients with bile acid synthesis disorders due to SEDs and 29 patients with PDs including Zellweger spectrum disorders. Safety data are available over the 18 years of the trial.
- 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. Safety data are available for 3 years and 11 months of treatment.

Adverse events were not collected systematically in either of these trials. Most patients received an oral dose of 10 to 15 mg/kg/day of CHOLBAM.

Deaths

In Trial 1, among the 50 patients with SEDs, 5 patients aged 1 year or less died, which included three patients originally diagnosed with AKR1D1 deficiency, one with 3 β -HSD deficiency and one with CYP7A1 deficiency. The cause of death was attributed to progression of underlying liver disease in every patient.

Of 29 patients in Trial 1 with PDs including Zellweger spectrum disorders, 12 patients between the ages of 7 months and 2.5 years died. In the majority of these patients (8/12), the cause of death was attributed to progression of underlying liver disease or to a worsening of their primary illness.

Two additional patients in Trial 1 (1 SED and 1 PD) died who had been off study medication for more than one year with the cause of death most likely being a progression of underlying liver disease. Of the patients who died with disease progression, laboratory testing showed abnormal serum transaminases, bilirubin, or cholestasis on liver biopsy suggesting worsening of their underlying cholestasis.

In Trial 2, among the 31 patients with SED, two patients (1 new patient and 1 who rolled over from Trial 1) died. The cause of death in both cases was unrelated to their primary treatment or progression of their underlying liver disease.

Of the 12 patients with PD in Trial 2, four patients died between the ages of 4 and 8 years (1 new patient and 3 who rolled over from Trial 1). The cause of death in three of these patients was attributed to progression of underlying liver disease or to a worsening of their primary illness.

Worsening of Liver Impairment

Seven patients in Trial 1 (4 SED and 3 PD) and 3 patients in Trial 2 (1 SED and 2 PD) experienced worsening serum transaminases, elevated bilirubin values, or worsening cholestasis on liver biopsy during treatment [see Warnings and Precautions (5.1)].

Common Adverse Reactions

There were 12 adverse reactions reported across 9 patients in the trials, with diarrhea being the most common reaction in approximately 2% of the patient population. All other adverse reactions represented 1% of the patient population. The breakdown by trial follows:

Table 3: Most Common Adverse Reactions in Trials 1 and 2

Adverse Reactions	Trial 1	Trial 2*	Overall n (%)
Diarrhea	1	2*	3 (2)
Reflux Esophagitis	1	0	1 (1)
Malaise	1	0	1 (1)
Jaundice	1	0	1 (1)
Skin lesion	1	0	1 (1)
Nausea	0	1*	1 (1)
Abdominal Pain	0	1*	1 (1)
Intestinal Polyp	0	1*	1 (1)
Urinary Tract Infection	0	1*	1 (1)
Peripheral Neuropathy	0	1	1 (1)

*Adverse reactions that occurred in new patients

Only one of the reactions (peripheral neuropathy) resulted in discontinuation of medication for a patient in Trial 2. An additional five SED patients (3 from Trial 1 and 2 from Trial 2) and 1 PD patient (Trial 1) discontinued medication and withdrew from the study due to a worsening of their primary disease.

The development of symptomatic cholelithiasis requiring cholecystectomy has been reported in a single patient with 3 β -HSD deficiency.

6.2. Postmarketing Experience

The following adverse reactions have been identified during post-approval use of CHOLBAM. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their relative frequency or to establish a causal relationship to CHOLBAM exposure:

- Gastrointestinal disorders:* discomfort and distention, emesis, constipation
- General disorders and administrative site conditions:* pyrexia/fever
- Skin and subcutaneous tissue disorders:* rash

7. DRUG INTERACTIONS

7.1. Effects of Other Drugs on CHOLBAM

Drug interactions with CHOLBAM mainly relate to agents capable of interrupting the enterohepatic circulation of bile acids.

Inhibitors of Bile Acid Transporters

Avoid concomitant use of inhibitors of the bile salt efflux pump (BSEP) such as cyclosporine. Concomitant medications that inhibit canalicular membrane bile acid transporters such as the BSEP may exacerbate accumulation of conjugated bile salts in the liver and result in clinical symptoms. If concomitant use is deemed necessary, monitoring of serum transaminases and bilirubin is recommended.

Bile Acid Binding Resins

Bile acid binding resins such as cholestyramine, colestipol, or colesevelam adsorb and reduce bile acid absorption and may reduce the efficacy of CHOLBAM. Take CHOLBAM at least 1 hour before or 4 to 6 hours (or at as great an interval as possible) after a bile acid binding resin [see *Dosage and Administration* (2.3)].

Aluminum-Based Antacids

Aluminum-based antacids have been shown to adsorb bile acids *in vitro* and can reduce the availability of CHOLBAM. Take CHOLBAM at least 1 hour before or 4 to 6 hours (or at as great an interval as possible) after an aluminum-based antacid [see *Dosage and Administration* (2.3)].

8. USE IN SPECIFIC POPULATIONS

8.1. Pregnancy

Pregnancy Exposure Registry

There is a pregnancy surveillance program that monitors pregnancy outcomes in women exposed to CHOLBAM during pregnancy [COCOA Registry (ChOlbam: Child and mOther's heAlth)]. Women who become pregnant during CHOLBAM treatment are encouraged to enroll. Patients or their health care provider should call 1-844-20C-OCOA or 1-844-202-6262 to enroll.

Risk Summary

No studies in pregnant women or animal reproduction studies have been conducted with CHOLBAM. Limited published case reports discuss pregnancies in women taking cholic acid for 3 β -HSD deficiency resulting in healthy infants. These reports may not adequately inform the presence or absence of drug-associated risk with the use of CHOLBAM during pregnancy.

The background risk of major birth defects and miscarriage for the indicated population is unknown. However, the background risk in the U.S. general population of major birth defects is 2-4% and of miscarriage is 15-20% of clinically recognized pregnancies.

8.2. Lactation

Risk Summary

Endogenous cholic acid is present in human milk. Clinical lactation studies have not been conducted to assess the presence of CHOLBAM in human milk, the effects of CHOLBAM on the breastfed infant, or the effects of CHOLBAM on milk production. There are no animal lactation data and no data from case reports available in the published literature. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for CHOLBAM and any potential adverse effects on the breastfed infant from CHOLBAM or from the underlying maternal condition.

8.4. Pediatric Use

The safety and effectiveness of CHOLBAM have been established in pediatric patients 3 weeks of age and older for the treatment of bile acid synthesis disorders due to SEDs and for adjunctive treatment of patients with PDs including Zellweger spectrum disorders who exhibit manifestations of liver disease, steatorrhea, or complications from decreased fat-soluble vitamin absorption [see *Clinical Studies* (14)].

8.5. Geriatric Use

Clinical studies of CHOLBAM did not include any patients aged 65 years and over. It is not known if elderly patients respond differently from younger patients.

8.6. Hepatic Impairment

Discontinue treatment with CHOLBAM if liver function does not improve within 3 months of the start of treatment.

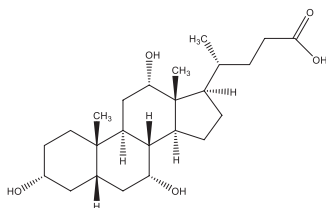
Discontinue treatment with CHOLBAM at any time if there are clinical or laboratory indicators of worsening liver function or cholestasis [see *Warnings and Precautions* (5.1), *Overdosage* (10), and *Nonclinical Toxicology* (13.2)]. Continue to monitor laboratory parameters of liver function and consider restarting at a lower dose when the parameters return to baseline.

10. OVERDOSAGE

Concurrent elevations of serum GGT and ALT may indicate CHOLBAM overdose. If an overdose is suspected, discontinue CHOLBAM and treat symptoms. Continue to monitor laboratory parameters of liver function and consider restarting at a lower dose when the parameters return to baseline [see *Dosage and Administration* (2.2) and *Warnings and Precautions* (5.1)].

11. DESCRIPTION

Cholic acid is a bile acid produced by the liver where it is synthesized from cholesterol. The chemical formula is C₂₄H₄₆O₅, the molecular weight is 408.57 and the chemical structure is:



Cholic acid is a white to off-white powder. It is practically insoluble in water and in 0.1 M HCl at 20°C and is sparingly soluble in 0.1 M NaOH at 20°C. It is soluble in glacial acetic acid, alcohols, and acetone. A saturated solution in water at 20°C has a pH of 4.4.

CHOLBAM capsules contain 50 mg or 250 mg of cholic acid as the active ingredient in size 2 Swedish orange or size 0 white opaque gelatin capsules, respectively. Inactive ingredients in CHOLBAM include silicified microcrystalline cellulose, magnesium stearate, and hard gelatin capsules. The size 2 shells contain gelatin, red iron oxide and titanium dioxide, and the size 0 shells contain gelatin and titanium dioxide. CHOLBAM is administered orally.

12. CLINICAL PHARMACOLOGY

12.1. Mechanism of Action

Cholic acid is a primary bile acid synthesized from cholesterol in the liver. In bile acid synthesis disorders due to SEDs in the biosynthetic pathway, and in PDs including Zellweger spectrum disorders, deficiency of primary bile acids leads to unregulated accumulation of intermediate bile acids and cholestasis. Bile acids facilitate fat digestion and absorption by forming mixed micelles and facilitate absorption of fat-soluble vitamins in the intestine.

Endogenous bile acids including cholic acid enhance bile flow and provide the physiologic feedback inhibition of bile acid synthesis. The mechanism of action of cholic acid has

not been fully established; however, it is known that cholic acid and its conjugates are endogenous ligands of the nuclear receptor, farnesoid X receptor (FXR). FXR regulates enzymes and transporters that are involved in bile acid synthesis and in the enterohepatic circulation to maintain bile acid homeostasis under normal physiologic conditions.

12.2. Pharmacokinetics

Orally administered cholic acid is subject to the same metabolic pathway as endogenous cholic acid.

Cholic acid is absorbed by passive diffusion along the length of the gastrointestinal tract. Once absorbed, cholic acid enters into the body's bile acid pool and undergoes enterohepatic circulation mainly in conjugated forms.

In the liver, cholic acid is conjugated with glycine or taurine by bile acid-CoA synthetase and bile acid-CoA:amino acid N-acyltransferase. Conjugated cholic acid is actively secreted into bile by the BSEP, and then released into the small intestines, along with other components of bile.

Conjugated cholic acid is mostly re-absorbed in the ileum mainly by the apical-sodium-dependent-bile acid transporter, passed back to the liver by transporters including sodium-taurocholate cotransporting polypeptide and organic anion transport protein and enters another cycle of enterohepatic circulation. Any conjugated cholic acid not absorbed in the ileum passes into the colon where deconjugation and 7-dehydroxylation are mediated by bacteria to form cholic acid and deoxycholic acid, which may be re-absorbed in the colon or excreted in the feces. The loss of cholic acid is compensated by de-novo synthesis of cholic acids from cholesterol to maintain the bile acid pool in healthy subjects.

13. NONCLINICAL TOXICOLOGY

13.1. Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity, genetic toxicology, and nonclinical fertility studies have not been performed with cholic acid.

13.2. Animal Toxicology and/or Pharmacology

In the PEX2^{-/-} mouse model of peroxisomal disorders, feeding with a combination of cholic acid and ursodeoxycholic acid normalized C24 bile acid concentrations in bile to that of untreated control animals. Although growth was only mildly improved, there was near complete normalization of stool fat content, resolution of steatorrhea, and improved survival. Bile acid feeding reduced the number of cholestatic deposits in bile ducts and alleviated cholangitis but exacerbated the degree of hepatic steatosis and mitochondrial and cellular damage in the peroxisome-deficient livers of these animals.

14. CLINICAL STUDIES

14.1. Bile Acid Synthesis Disorders due to Single Enzyme Defects

The effectiveness of CHOLBAM at dosages of 10 to 15 mg/kg per day in patients with SEDs was assessed in:

- Trial 1: a non-randomized, open-label, single-arm trial in 50 patients over an 18-year period
- Trial 2: an extension trial of 12 new patients along with 21 patients who rolled over from Trial 1 (n=33 total). Efficacy data are available for 21 months of treatment.
- A published case series of 15 patients with SEDs and 3 patients with PDs.

Enrollment criteria in Trials 1 and 2 were based on abnormal urinary bile acid by Fast Atom Bombardment ionization-Mass Spectrometry (FAB-MS).

Pre- and post-treatment liver biopsies were performed in a limited number of patients. Documentation of adherence to treatment, concomitant medications, and response to treatment were incomplete in Trial 1. Additional interventions in some patients included supplementation with fat-soluble vitamins, as dictated by the patient's clinical signs and symptoms.

Trials 1 and 2

On average, patients were 4 years of age at the start of cholic acid treatment (range three weeks to 36 years). The majority of patients were treated for an average of 310 weeks (6 years). Patient ages at the end of treatment ranged from 19 to 36 years.

These trials were carried out over many years, and data are not available on all patients. Thirty-nine patients in Trial 1 and 5 new patients in Trial 2 received at least one dose of CHOLBAM and had sufficient data available to assess baseline liver function and effects of CHOLBAM treatment. A responder analysis was performed to determine the response to treatment with CHOLBAM.

Response to CHOLBAM treatment was assessed by the following laboratory criteria:

- (1) ALT or AST values reduced to less than 50 U/L, or baseline levels reduced by 80%;
- (2) total bilirubin values reduced to less than or equal to 1 mg/dL; and
- (3) no evidence of cholestasis on liver biopsy;

and the following clinical criteria:

- (1) body weight increased by 10% or stable at greater than the 50th percentile; and
- (2) survival for greater than 3 years on treatment or alive at the end of Trial 2.

CHOLBAM responders were defined as patients who either:

- (1) met at least two laboratory criteria and were alive at the last follow-up; or
- (2) met at least one laboratory criteria, had increased body weight, and were alive at the last follow-up.

Overall, 28 of 44 patients (64%) were responders. The breakdown by defect type is as follows:

Table 4: Response to CHOLBAM Treatment by Type of Single Enzyme Defect

Single Enzyme Defect	Responders/Number Treated (%)
3 β -HSD	22/37 (59%)
AKR1D1	3/4 (75%)
CTX	2/2 (100%)
AMACR	1/1 (100%)
CYP7A1	N/A*
Smith-Lemli-Opitz	N/A*

* N/A indicates no evaluable patients in the defect subgroup are represented.

Among SED responsive patients, 45% of the responders met the two clinical criteria plus 1 to 3 laboratory criteria and 55% met the weight criteria.

Only six patients had pre- and post-treatment liver biopsies in Trial 1. Where biopsies were available, pre-treatment biopsies showed varying degrees of inflammation, bridging fibrosis, and giant cell formation. Post-treatment biopsies generally showed reduced or absent

inflammation and reduced or absent giant cell formation. Fibrosis remained but did not progress.

It is difficult to evaluate long term survival in patients with SEDs since there is little natural history survival data for comparison. Overall, 41 of 62 (67%) patients with SEDs survived greater than 3 years from trial entry. Thirteen of these 41 patients (32%) survived for 10 to 24 years on treatment.

Four patients in Trial 1 underwent liver transplant, including two patients diagnosed with AKR1D1 deficiency, one with 3 β -HSD deficiency, and one with CYP7A1 deficiency and two patients in Trial 2, both with AKR1D1.

CHOLBAM's effects on extrahepatic manifestations of SEDs, such as neurologic symptoms have not been established.

Case Series

A published report of a case series described 15 patients with SEDs; thirteen were diagnosed with 3 β -HSD deficiency and two with AKR1D1 deficiency by mass spectrometry and gene sequencing. All patients were treated with cholic acid with a median duration of treatment of 12.4 years (range 5.6 to 15 years). Therapy started at a median age of 3.9 years (range 0.3 to 13.1 years). The mean dose at the start of cholic acid treatment was 13 mg/kg and the mean dose at last follow up was 6 mg/kg. Eight patients were initially treated with oral ursodeoxycholic acid prior to receiving a diagnosis of bile acid synthesis defect, after which they were switched to cholic acid. Initial signs and symptoms included jaundice, hepatosplenomegaly, steatorrhea, or symptoms related to deficiency of a fat-soluble vitamin (K, D or E).

Of the 8 patients who received ursodeoxycholic acid initially, the six with 3 β -HSD deficiency demonstrated mild clinical improvement. Following treatment with cholic acid, all patients experienced resolution of their pre-existing jaundice and steatorrhea, and all but one experienced resolution of hepatosplenomegaly. Weight and height improved, and sexual maturation progressed normally in all patients. Liver biopsies were performed in 14 patients after at least 5 years of cholic acid treatment and all showed resolution of cholestasis. In one patient with 3 β -HSD deficiency, biliary bile acid analysis while on cholic acid therapy showed enrichment of the bile with cholic acid.

14.2. Peroxisomal Disorders Including Zellweger Spectrum Disorders

The effectiveness of CHOLBAM at a dosage of 10 to 15 mg/kg per day in patients with PDs including Zellweger spectrum disorders was assessed in patients in the same trials described in section 14.1.

- Trial 1 treated 29 patients with PDs over an 18-year period.
- Trial 2 treated 2 new patients along with 10 patients who rolled over from Trial 1 (n=12 total). Efficacy data are available from Trial 2 for 21 months of treatment.
- Additional efficacy data were obtained from published case reports of 3 patients.

Enrollment criteria in Trials 1 and 2 were based on abnormal urinary bile acids analysis by FAB-MS and a neurologic exam. Most patients received concomitant DHA (docosahexaenoic acid) and Vitamins A, D, E, and K. Documentation of adherence to treatment, concomitant medications, and response to treatment were incomplete during Trial 1.

Trials 1 and 2

The majority of patients (80%, 25/31) were less than 2 years of age at the start of CHOLBAM treatment (range 3 weeks to 10 years). The majority of patients were treated for an average of 254 weeks (4.8 years).

Sufficient data were available to assess baseline liver function and effects of CHOLBAM treatment in 23 patients in Trial 1 and in one new patient in Trial 2. A responder analysis was performed in the patients who had received at least one dose of CHOLBAM and had sufficient data available to assess baseline liver impairment.

Response to CHOLBAM treatment was assessed by the following laboratory criteria:

- (1) ALT or AST values reduced to less than 50 U/L, or baseline levels reduced by 80%;
- (2) total bilirubin values reduced to less than or equal to 1 mg/dL; and
- (3) no evidence of cholestasis on liver biopsy;

and the following clinical criteria:

- (1) body weight increased by 10% or stable at greater than the 50th percentile; and
- (2) survival for greater than 3 years on treatment or alive at the end of Trial 2

CHOLBAM responders were defined as patients who either:

- (1) met at least two laboratory criteria and were alive at the last follow-up; or
- (2) met at least one laboratory criterion, had increased body weight and were alive at the last follow-up.

Overall, 11 of 24 patients (46%) were responders. The breakdown by disorder is as follows:

Table 5: Response to CHOLBAM Treatment by Type of Peroxisomal Disorders including Zellweger Spectrum Disorders

Peroxisomal Disorder	Responders/Number Treated (%)
Neonatal Adrenoleukodystrophy	3/6 (50%)
Generalized Peroxisomal Disorder	1/1 (100%)
Refsum Disease	3/4 (75%)
Zellweger Syndrome	3/8 (38%)
Peroxisomal Disorder, Type Unknown	1/5 (20%)

Among responsive patients with PDs, 38% of the responders met the two clinical criteria plus 1 to 3 laboratory criteria and 63% met the weight criteria. There were no PD patients that underwent liver transplant.

No evidence of improvement in survival over that seen in historical controls could be demonstrated from the data presented. Overall, 13 of 31 patients (42%) survived greater than 3 years from the time of trial entry. Eight of these 13 patients (62%) survived 10 to 17 years on treatment.

Nine patients had both pre- and post-treatment liver biopsies. One patient showed improvement in histology, while the majority of patients remained unchanged. Two patients demonstrated worsening histology, which was consistent with a worsening of other liver laboratory parameters (bilirubin, serum transaminase values).

CHOLBAM's effects on extrahepatic manifestations of PDs including Zellweger spectrum disorders, such as neurologic symptoms have not been established.

One patient, who did not have cholestasis on pre-treatment liver biopsy, developed cholestasis on treatment with CHOLBAM and subsequently died.

Case Reports

In case reports from the literature, a 6-month-old patient with Zellweger syndrome treated

with a combination of cholic and chenodeoxycholic acids experienced normalization of serum transaminases and bilirubin, improvement in liver histology, reduced serum and urinary atypical bile acid intermediates, and improvement in steatorrhea and growth. Two patients with Zellweger syndrome treated with oral bile acids showed decreased serum transaminases.

16. HOW SUPPLIED/STORAGE AND HANDLING

50 mg Capsules

CHOLBAM capsules are available as two-piece gelatin capsules with a Swedish orange cap imprinted with "50mg" and Swedish orange body imprinted with "ASK001". The capsules contain a white or off-white powder and are supplied in bottles of:

- 90 capsules (NDC 45043-001-02)

250 mg Capsules

CHOLBAM capsules are available as two-piece gelatin capsules with a white cap imprinted with "250mg" and white body imprinted with "ASK002". The capsules contain a white or off-white powder and are supplied in bottles of:

- 90 capsules (NDC 45043-002-02)

Storage and Handling

Store at 20°C–25°C (69°F–77°F), excursions permitted between 15°C–30°C (59°F–86°F) [see USP Controlled Room Temperature].

17. PATIENT COUNSELING INFORMATION

Exacerbation of Liver Impairment [see Warnings and Precautions (5.1)]

- Advise patients that they will need to undergo laboratory testing periodically while on treatment to assess liver function.
- Advise patients that CHOLBAM may worsen liver impairment and that they should immediately report to their health care provider any symptoms associated with liver impairment (e.g., yellowing of the skin or the whites of the eye, dark or tea-colored urine, pain on the right side of stomach, bleeding or bruising occurs more easily than normal, or increased lethargy)

Administration [see Dosage and Administration (2.3)]

Advise patients:

- to take CHOLBAM with food.
- to take CHOLBAM at least one hour before or 4 to 6 hours after taking a bile acid binding resin or an aluminum-based antacid.
- not to crush or chew the capsules.
- for infants and children who cannot swallow capsules, the capsules can be opened and the contents mixed with either infant formula or expressed breast milk (for younger children), or soft food such as mashed potatoes or apple puree (for older children and adults) in order to mask any unpleasant taste:
 1. Hold the capsule over the prepared liquid/food, gently twist open, and allow the contents to fall into the liquid/food.
 2. Mix the entire capsule contents with one or two tablespoonfuls (15 mL or 30 mL) of infant formula, expressed breast milk, or soft food such as mashed potatoes or apple puree.
 3. Stir for 30 seconds.
 4. The capsule contents will remain as fine granules in the milk or food and will not dissolve.
 5. Administer the mixture immediately.

Pregnancy Registry [see Use in Specific Populations (8.1)]

Inform patients about the pregnancy surveillance program that monitors pregnancy outcomes in women exposed to CHOLBAM during pregnancy.

CHOLBAM® is a registered trademark of Traverre Therapeutics, Inc.

Revised: February, 2021

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Manufactured for:
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