



Rise above cholestatic
pruritus (itch) to

LIV IT UP

LIVMARLI (maralixibat) oral solution and tablets are an **FDA-approved prescription medicine** used to treat for cholestatic pruritus (itch) in patients with Alagille syndrome who are 3 months of age and older.

It is not known if LIVMARLI is safe and effective in children with Alagille syndrome who are under 3 months of age. It is not known if LIVMARLI is safe and effective in adults who are 65 years of age and older.

IMPORTANT SAFETY INFORMATION

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

LIVMARLI can cause serious side effects, including:

- **Liver injury.** Changes in certain liver tests are common in patients but may worsen during treatment with LIVMARLI.

Please see page 2 for more information on liver injury.



Please see Important Safety Information throughout and Patient Information, including Instructions for Use.

 **Livmarli**[®]
(maralixibat)

DISCOVER LIVMARLI

Finding out that you or your child has Alagille syndrome can be hard.
Finding ways to manage the condition can be even harder.

This brochure will explain an FDA-approved medication that targets one of the underlying causes of liver-related problems in Alagille syndrome.



If you care for a young child with Alagille syndrome, check out page 28 of this brochure for ways to talk to your child about LIVMARLI.

I'M FINLEY



I'M NOELLE



I'M EMMA



IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

These changes may be a sign of liver injury and can be serious. Your health care provider should do blood tests and physical exams before starting and during treatment to check your liver function. Tell your health care provider right away if you get any signs or symptoms of liver problems, including:

- nausea or vomiting
- your skin or the white part of your eye turns yellow
- dark or brown urine
- pain on the right side of your stomach (abdomen)
- fullness, bloating, or fluid in your stomach area (ascites)
- loss of appetite
- bleeding or bruising more easily than normal, including vomiting blood



Please see Important Safety Information throughout and Patient Information, including Instructions for Use.

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IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

• **Stomach and intestinal (gastrointestinal) problems.** LIVMARLI can cause stomach and intestinal problems, including diarrhea and stomach pain during treatment. Diarrhea can also cause the loss of too much body fluid (severe dehydration). Your health care provider may advise you to monitor for new or worsening stomach problems, including stomach pain, diarrhea, blood in your stool, or vomiting. Tell your health care provider right away if you have any new or worsening signs or symptoms of stomach and intestinal problems, including:

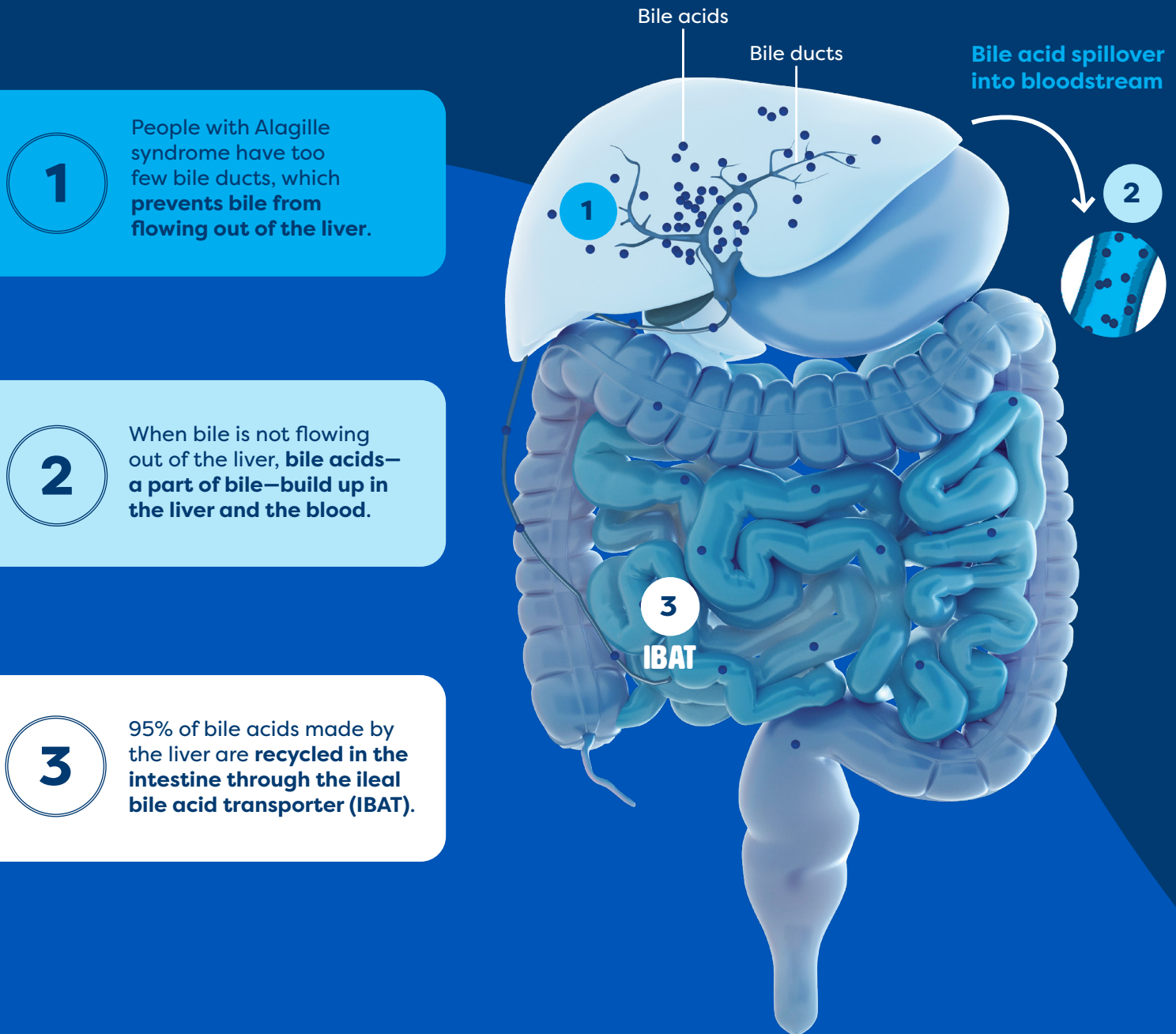
- diarrhea
- more frequent bowel movements than usual
- stools that are black, tarry, or sticky, or have blood or mucous
- severe stomach-area pain or tenderness
- vomiting
- urinating less often than usual
- dizziness
- headache



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

THE LIVER AND CHOLESTATIC PRURITUS (ITCH)

How does Alagille syndrome affect the liver and cause cholestatic pruritus?



WHAT ARE THE EFFECTS OF BILE ACID BUILDUP?

When bile acids build up in the liver, they spill over into the bloodstream. This can cause an increase in bile acids throughout the entire body.

These high levels of bile acids are an underlying cause of cholestatic pruritus (itch) in Alagille syndrome.

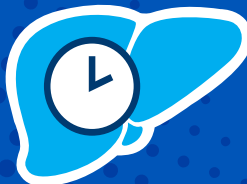
Cholestatic pruritus affects up to 88% of people with Alagille syndrome and is considered the most burdensome symptom.

Over time, the buildup of bile acids in the liver can lead to long-term problems, including:

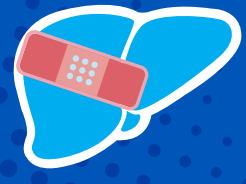
Inflammation



Damage to the liver that worsens over time



Scar tissue in the liver (fibrosis)



Bile acid buildup causes immediate problems (cholestatic pruritus) and has long-term impacts (liver problems).

CHOLESTATIC PRURITUS (ITCH) IS MORE THAN JUST SCRATCHING

Cholestatic pruritus is often a very challenging symptom for people with Alagille syndrome.

Beyond the scratching, it can be difficult to navigate all aspects of cholestatic pruritus without the right support. Signs and symptoms related to cholestatic pruritus can look different during the day and/or night, vary among patients, or even change with age.

Recognize the signs of cholestatic pruritus at every age



INFANTS

Cholestatic pruritus in Alagille syndrome is **frequently first seen in infancy or early childhood**. Early signs of cholestatic pruritus may often look like hunger or tired cues. Infants may express cholestatic pruritus with:



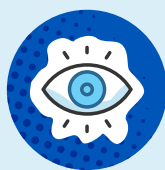
Sleep
disturbances



Irritability



Wiggling



Rubbing
the eyes



Digging at
the ears

CHOLESTATIC PRURITUS (ITCH) IS MORE THAN JUST SCRATCHING



CHILDREN

Over time, **children may start to show their discomfort in different ways.** They may experience various symptoms because of cholestatic pruritus, including:



Sleep disturbances



Irritability



Skin damage



Rubbing of the feet



Active scratching



Fidgeting



Unable to focus



Burning, tingling, or prickling sensation



TEENAGERS AND YOUNG ADULTS

Teenagers and young adults are navigating **changes and emotions.** Those who struggle with cholestatic pruritus may deal with:



Sleep disturbances



Irritability



Skin damage



Rubbing of the feet



Normalizing the itch



Physical discomfort



Unable to focus



Burning, tingling, or prickling sensation

CHOLESTATIC PRURITUS (ITCH) AND NORMALIZATION



Cholestatic pruritus 101: Did you know?

Normalization and minimization

Symptoms of cholestatic pruritus may start to seem normal or become routine over time. **This can make cholestatic pruritus easier to downplay or minimize.**

Flare-ups

Cholestatic pruritus may only happen occasionally or may get worse during certain times of year. Some people refer to **times when cholestatic pruritus is worse as a “flare-up.”**

Easy to mistake

Cholestatic pruritus can be **mistaken for other common causes of itch**, such as:



Change of seasons



Skin conditions that may cause itch



Reactions to possible irritants, like laundry soap



Allergies

IMPACT OF CHOLESTATIC PRURITUS (ITCH)

zZz

53%

have trouble
falling asleep

The burden of cholestatic pruritus

53% of people with Alagille syndrome report **difficulty falling asleep** due to cholestatic pruritus, while **59% report difficulties staying asleep**.

These **sleep disturbances** due to cholestatic pruritus are **associated with fatigue**.

All levels of cholestatic pruritus deserve attention

Share your experience with cholestatic pruritus with your doctor and let them know about any changes in symptoms.

Check out LIVMARLI.com/between-the-fines/ to hear real people open up about their lives with cholestatic pruritus.

TELL THE FULL STORY OF CHOLESTATIC PRURITUS

Consider the following questions and be sure to share your answers with your doctor:

- Do you notice wiggling, rubbing, and/or scratching?
- Have you noticed any changes in mood or irritability?
- Have there been problems with falling asleep or staying asleep?
- Does feeling itchy impact daily life (for example: unable to focus in school, can't participate in activities, etc)?
- Has there been frequent scratching or biting of the skin?
Has it caused damage to the skin?
- Have you noticed digging in the ears, rubbing of the feet, or wiggling on the carpet?

THE NEED FOR EFFECTIVE TREATMENT



Cholestatic pruritus impacts more people than you may think

Cholestatic pruritus affects up to 88% of people with Alagille syndrome and is among the worst of any cholestatic liver disease.



In the past, there were limited options to treat cholestatic pruritus

In the past, the only choices for people to manage cholestatic pruritus in Alagille syndrome were medicines that are not made specifically for Alagille syndrome, surgery, and/or liver transplant.



Learn about a treatment option to help relieve cholestatic pruritus.

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

- A condition called **Fat-Soluble Vitamin (FSV) Deficiency caused by low levels of certain vitamins (vitamin A, D, E, and K) stored in body fat.** FSV deficiency is common in patients with Alagille syndrome but may worsen during treatment. Your health care provider should do blood tests before starting and during treatment, and may monitor for bone fractures and bleeding, which are common side effects.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

DISCOVER LIVMARLI

LIVMARLI is an FDA-approved treatment for cholestatic pruritus (itch) in patients with Alagille syndrome who are 3 months of age and older. LIVMARLI helps lower bile acid buildup and relieve cholestatic pruritus.

Early Improvements With Long-Term Impact



More than 80% of patients experienced less cholestatic pruritus than they felt at the start with LIVMARLI. Improvements were seen as early as the very first assessment (Week 3).

For patients who experienced a significant improvement in their cholestatic pruritus—that is, more than a 1-point reduction in Itch Reported Outcome (Observer) (ItchRO[Obs])*—**93% were alive and did not have a liver transplant** 6 years after starting LIVMARLI (please see important study design information on pages 16 and 17).^{†‡}

[†]The impact of LIVMARLI medicine on transplant-free survival has not been established. No information about liver fibrosis (scarring) was collected.

[‡]Persistent cholestatic pruritus was a common reason for liver transplant in many patients with Alagille syndrome.

Helping Patients for Years



Backed by more than 7 years of data,[§] LIVMARLI has a well-known safety record in patients with cholestatic pruritus in Alagille syndrome.

Over the last 7+ years, **LIVMARLI has been used by 1000+ patients with Alagille syndrome to battle bile acid buildup**.^{||}

^{||}Includes clinical studies, early access program, and commercial treatment.

Getting Started and Finding Support Is Easy



Approximately 95% of patients are approved for LIVMARLI by their insurance and 98% of patients pay \$10 or less per fill.^{†#}

Mirum Access Plus offers **resources, education, and services** to help you start and stay on LIVMARLI.

*ItchRO(Obs) is a tool designed for caregivers to measure cholestatic pruritus severity over time.

[§]From extended observation of patients taking LIVMARLI after completing a placebo-controlled study.

[†]Data from 1/1/2024 to 12/31/2024.

[#]Patients enrolled in the Mirum Patient Assistance Program are included in those paying \$10 or less per fill.

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

Tell your health care provider about all medicines that you take, as LIVMARLI may interact with other medicines.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

Rise Above Cholestatic Pruritus (Itch)

HOW DOES LIVMARLI WORK TO REDUCE CHOLESTATIC PRURITUS IN THE BODY?

1

LIVMARLI targets and temporarily blocks something called the ileal bile acid transporter (IBAT). In doing so, LIVMARLI lowers bile acids in the body (as measured by levels in the blood).

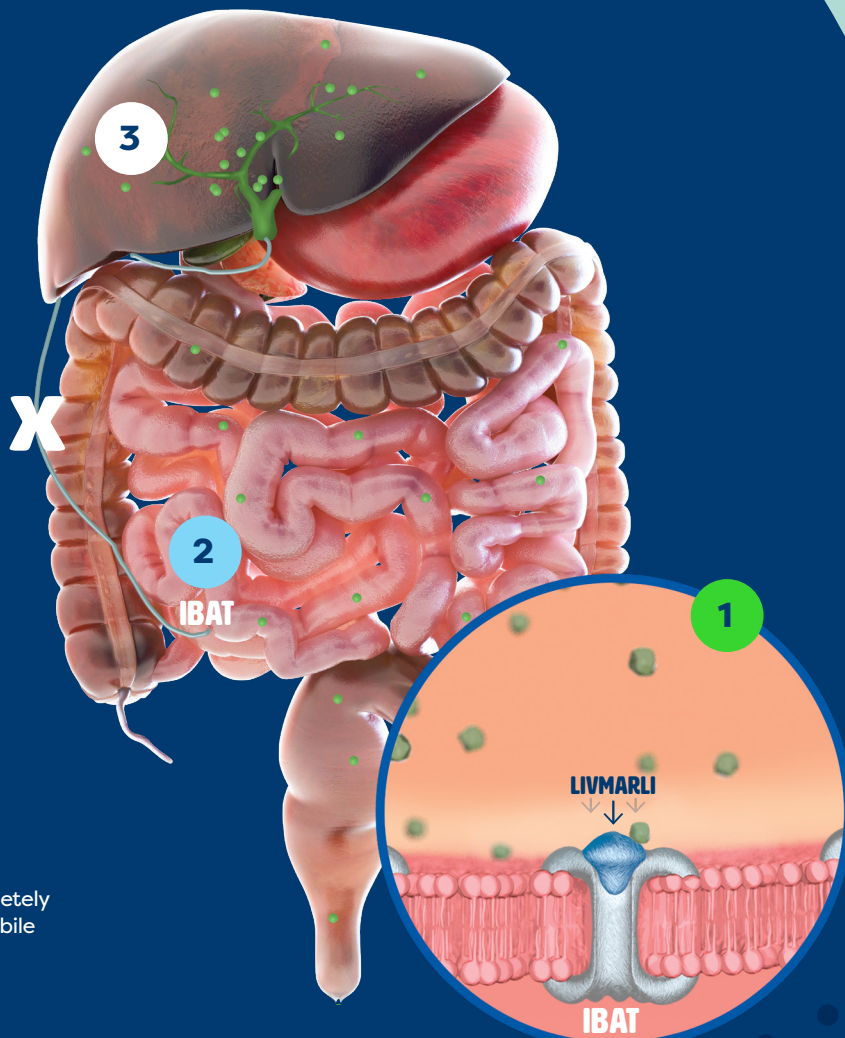
2

LIVMARLI blocks bile acids from going back into the liver and increases the amount of bile acids removed from the body in feces.

3

In the clinical study for LIVMARLI, **reductions in bile acid buildup were associated with decreases in intensity of cholestatic pruritus.**

The way LIVMARLI improves cholestatic pruritus is not completely known. It may involve inhibition of the IBAT, which interrupts bile acid recycling to the liver and decreases serum bile acids.



80%

During the first year of treatment, **more than 80% of people** experienced a **decrease in bile acid buildup** with LIVMARLI compared with when they started.

- In the clinical study for LIVMARLI, **reductions in bile acid buildup were associated with decreases in cholestatic pruritus intensity**

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

If you take a medicine that lowers cholesterol by binding bile acids, such as cholestyramine, colestevlam, or colestipol, take LIVMARLI at least 4 hours before or 4 hours after you take that medicine.



Please see Important Safety Information throughout and Patient Information, including Instructions for Use.

 **Livmarli**[®]
(maralixibat)

Rapid Relief That Lasts

EARLY IMPROVEMENTS IN CHOLESTATIC PRURITUS (ITCH)

The goal of LIVMARLI is to provide **fast and lasting relief from cholestatic pruritus**.

Patients were treated with LIVMARLI in a 4-year clinical study. During that time, **many patients taking LIVMARLI experienced significantly less cholestatic pruritus**.



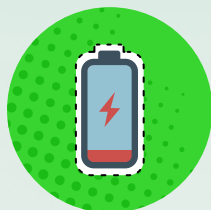
Early Improvements

For many patients taking LIVMARLI, relief from cholestatic pruritus was seen **at the very first assessment** (Week 3) and continued through the first year.



Relief With LIVMARLI

During the first year of treatment with once-daily LIVMARLI, **more than 80% of patients experienced less cholestatic pruritus** than they felt at the start of treatment.



Improvements in Fatigue

An analysis of people taking LIVMARLI in a clinical study showed that those who responded to treatment experienced **improvements in levels of fatigue** during the first year of treatment.*

*Treatment response defined as an improvement in Itch Reported Outcome (ItchRO) score of 1 or more.

Over the last 7+ years, LIVMARLI has been used by

1000+ patients

with Alagille syndrome to battle bile acid buildup.[†]

[†]Includes clinical studies, early access program, and commercial treatment.

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

Your health care provider may change your dose, or temporarily or permanently stop treatment if you have certain side effects.

LIVMARLI is available in oral solution and tablet formulations. LIVMARLI is taken by mouth, 1 time each day, 30 minutes before a meal in the morning. For the oral solution, be sure to use the provided oral dosing dispenser to accurately measure the dose of medicine.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

 **Livmarli**[®]
(maralixibat)

More Days Without Cholestatic Pruritus (Itch)

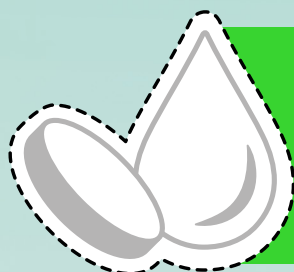
LASTING RESULTS WITH LIVMARLI



Lasting Results

For those who stayed on LIVMARLI in the long-term part of the study, **relief from cholestatic pruritus was maintained for nearly 4 years.**

During the long-term study, patients experienced **little to no cholestatic pruritus** for the vast majority (95%) of days.



Once-daily LIVMARLI offers meaningful, long-lasting improvements in cholestatic pruritus in Alagille syndrome.



IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

These are not all of the possible side effects of LIVMARLI. For more information, ask your health care provider or pharmacist. Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

 **Livmarli**[®]
(maralixibat)

LONG-TERM IMPACT TO THE LIVER

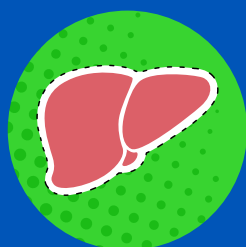


Some patients from the clinical studies chose to **stay on LIVMARLI long term**. These patients were observed to see if there were any factors that could predict transplant-free survival.

Patients kept a log of their cholestatic pruritus using the **Itch Reported Outcome (ItchRO) tool**. They were assessed to determine the relationship between their cholestatic pruritus intensity score and transplant-free survival.

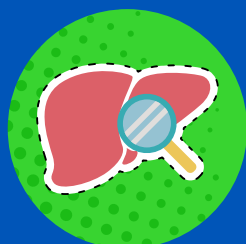
Patients included in the long-term studies:

- Had moderate-to-severe cholestatic pruritus
- Were considered to be benefiting from LIVMARLI
- Stayed on treatment for at least 48 weeks
- Had lab results at 48 weeks



Transplant Free

Transplant free means patients were alive and had not undergone a liver transplant. Transplant-free survival refers to **the percentage of patients who are alive and have not gotten a liver transplant** at a certain point in time.



Long-Term Impact

Patients who experienced a significant improvement in their cholestatic pruritus were also more likely to experience transplant-free survival.

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

LIVMARLI can cause serious side effects, including:

- **Liver injury.** Changes in certain liver tests are common in patients but may worsen during treatment with LIVMARLI. These changes may be a sign of liver injury and can be serious. Your health care provider should do blood tests and physical exams before starting and during treatment to check your liver function. Tell your health care provider right away if you get any signs or symptoms of liver problems, including:
 - nausea or vomiting
 - your skin or the white part of your eye turns yellow
 - dark or brown urine
 - pain on the right side of your stomach (abdomen)
 - fullness, bloating, or fluid in your stomach area (ascites)
 - loss of appetite
 - bleeding or bruising more easily than normal, including vomiting blood



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LONG-TERM IMPACT TO THE LIVER

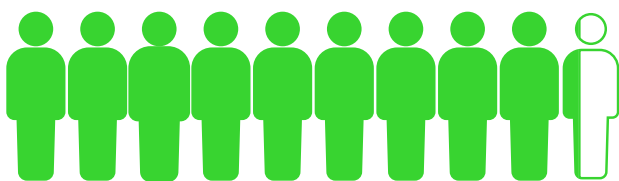
Persistent cholestatic pruritus (itch) was a common reason for liver transplant in many patients with Alagille syndrome.

For those who achieved more than a 1-point reduction in Itch Reported Outcome (Observer) (ItchRO[Obs]), 93% were alive and did not have a transplant 6 years after starting LIVMARLI.*

For those who did not achieve more than a 1-point reduction in ItchRO(Obs), 57% remained alive and did not have a transplant 6 years after starting LIVMARLI.

*The impact of LIVMARLI medicine on transplant-free survival has not been established. No information about liver fibrosis (scarring) was collected.

Patients with >1 point reduction



93%
TRANSPLANT FREE

Patients with ≤1 point reduction



57%
TRANSPLANT FREE



Learn more about ItchRO scores on the next page!

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

LIVMARLI can cause serious side effects, including:

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 - your skin or the white part of your eye turns yellow
 - dark or brown urine
 - pain on the right side of your stomach (abdomen)
 - fullness, bloating, or fluid in your stomach area (ascites)
 - loss of appetite
 - bleeding or bruising more easily than normal, including vomiting blood



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HOW CHOLESTATIC PRURITUS (ITCH) WAS ASSESSED

In the clinical study, patients kept an ongoing log of their cholestatic pruritus using the ItchRO tool. This tool was used to measure cholestatic pruritus severity over time based on a 5-point scale:



0 Not itchy at all



1 A little bit itchy



2 Somewhat itchy



3 Very itchy



4 Extremely itchy

Changes in ItchRO score by 1 point or more represent noticeable differences in cholestatic pruritus; for example, a change from 3 to 2 means that a patient went from feeling very itchy to feeling somewhat itchy.

Example:



3
Very
itchy



2
Somewhat
itchy

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

• **Stomach and intestinal (gastrointestinal) problems.** LIVMARLI can cause stomach and intestinal problems, including diarrhea and stomach pain during treatment. Diarrhea can also cause the loss of too much body fluid (severe dehydration). Your health care provider may advise you to monitor for new or worsening stomach problems, including stomach pain, diarrhea, blood in your stool, or vomiting. Tell your health care provider right away if you have any new or worsening signs or symptoms of stomach and intestinal problems, including:

- diarrhea
- more frequent bowel movements than usual
- stools that are black, tarry, or sticky, or have blood or mucous
- severe stomach-area pain or tenderness
- vomiting
- urinating less often than usual
- dizziness
- headache



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HOW IS LIVMARLI TAKEN?

LIVMARLI is the only ileal bile acid transporter (IBAT) inhibitor available as a tablet or a liquid (oral solution) medicine. Both LIVMARLI tablets and liquid medicine are taken by mouth.

LIVMARLI liquid medicine

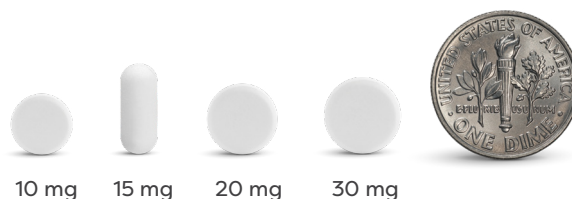
Take directly from the measuring device delivered with your medicine.



LIVMARLI bottle and measuring device not actual size.

LIVMARLI tablets

Tablets come in 4 fixed doses:



Tablets and dime not actual size. Dime shown for scale.

ONE DOSE, ONCE PER DAY

Both LIVMARLI liquid medicine and tablets should be taken once daily at the dosage prescribed by your doctor. Take LIVMARLI 30 minutes before a meal in the morning

Dosing information:

- Your doctor will prescribe the right dose of LIVMARLI for you
- Dosing for LIVMARLI is based on weight. **Never change the amount of LIVMARLI without first talking to your doctor**
- People who take LIVMARLI liquid medicine will take 3 mL or less per day—**about a quarter of a teaspoon!**

What happens if a dose is missed?

If you miss a dose within 12 hours of the time you normally take it, take LIVMARLI as soon as possible. If a dose is missed by more than 12 hours, skip the dose and continue your original dosing schedule throughout the day.

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

- A condition called **Fat-Soluble Vitamin (FSV) Deficiency caused by low levels of certain vitamins (vitamin A, D, E, and K) stored in body fat.** FSV deficiency is common in patients with Alagille syndrome but may worsen during treatment. Your health care provider should do blood tests before starting and during treatment, and may monitor for bone fractures and bleeding, which are common side effects.



Please see Important Safety Information throughout and Patient Information, including Instructions for Use.

Always Safety First!

WHAT ARE THE POSSIBLE SIDE EFFECTS OF LIVMARLI?

LIVMARLI may cause side effects. Talk to your or your child's doctor about what to expect and how to manage any side effects.

Common Side Effects

The most common side effects with LIVMARLI include:

- Diarrhea
- Abdominal pain
- Vomiting
- A condition called fat-soluble vitamin (FSV) deficiency, caused by low levels of certain vitamins (vitamins A, D, E, and K) stored in body fat
- Other common side effects reported during treatment with LIVMARLI were liver test abnormalities and bone fractures

Your doctor may change your dose or temporarily or permanently stop treatment with LIVMARLI if you have certain side effects. These are not all the possible side effects of LIVMARLI. Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

TIPS FOR CERTAIN SIDE EFFECTS



What steps can be taken if side effects occur?

As always, if you're experiencing side effects when taking LIVMARLI, or if your symptoms worsen, contact your doctor or health care team. You may want to share whether you were experiencing these symptoms before starting treatment, and if so, make note of how they've changed now that you're taking LIVMARLI.

If you do experience side effects with LIVMARLI, your doctor may suggest taking these steps:

Nausea, vomiting, loose stools, or diarrhea



DO drink plenty of clear liquids, such as water, to prevent dehydration



DO eat foods that are gentle on your stomach. Many people find that clear broth and/or toast help with nausea or vomiting, while dairy and/or concentrated sweets may worsen gastrointestinal symptoms



DO NOT exercise immediately after eating

Abdominal pain

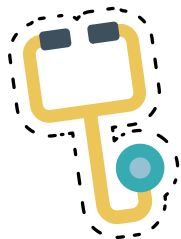


DO talk to your doctor for medical advice about abdominal pain



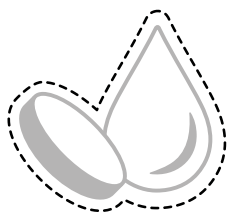
Please see Important Safety Information throughout and Patient Information, including [Instructions for Use](#).

TIPS FOR CERTAIN SIDE EFFECTS



Should treatment with LIVMARLI stop if side effects occur?

Your doctor might choose to pause treatment or reduce your LIVMARLI dose if you are experiencing certain side effects. If treatment is paused, your doctor may recommend restarting LIVMARLI at a lower dose and slowly increasing it until you can tolerate it. You should never adjust your dose without speaking to a health care provider.



What does LIVMARLI taste like?

LIVMARLI liquid (oral solution) medicine is grape flavored.

If someone doesn't like taking liquid medicines, here are a couple of tips:

- **Take the right aim.** Use the measuring device that comes with LIVMARLI to squirt the medicine into the inside of the cheek
- **Add a flavorful twist.** Suck on fruit, such as an orange or lemon, before or after taking LIVMARLI
- **Cool it.** Once opened, consider storing your bottle of LIVMARLI in the refrigerator

LIVMARLI tablets are unflavored and swallowed whole.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

Getting Started Is Easy

Mirum Access Plus



Approximately **95%** of patients are approved for LIVMARLI by their insurance and **98%** of patients pay \$10 or less per fill.*†

Mirum Access Plus is a support program that makes it easy for you to start and stay on LIVMARLI.

Once your doctor has sent your prescription to Mirum Access Plus, the dedicated team of experts will help you understand the process of getting your medication.

Within Your Reach



Mirum Access Plus experts will work with you and your health care team to **figure out insurance coverage**.



Mirum Access Plus experts will contact you with **refill reminders** and assist you with any steps needed before shipping the refill.



Mirum Access Plus experts will **conveniently ship your medication straight to your doorstep overnight** when coverage is approved.

There's More to Mirum Access Plus

When you sign up, Mirum Access Plus offers an enhanced, personalized experience that's designed to help you start and stay on therapy with education and resources—at no cost to you.



Get started by texting MIRUM to 47936 or calling us at 1-855-MRM-4YOU (1-855-676-4968)

Do you have questions about Mirum Access Plus?

Visit [LIVMARLI.com](https://www.livmarli.com) or contact us at 1-855-MRM-4YOU (1-855-676-4968). We are available Monday to Friday, from 8:00 AM to 8:00 PM ET.

*Data from 1/1/2024 to 12/31/2024.

†Patients enrolled in the Mirum Patient Assistance Program are included in those paying \$10 or less per fill.



Please see Important Safety Information throughout and [Patient Information, including Instructions for Use.](#)

What other resources are available?

If you're looking to connect with people who understand what you're going through, we've got you covered. There are support groups available to listen, share information, and help guide you through the challenges of living with Alagille syndrome.



The Alagille Syndrome Alliance (ALGSA)

ALGSA is a nonprofit organization with the sole purpose of making living a life with Alagille syndrome easier. They support the Alagille syndrome community by promoting unity and advocating for a cure to inspire, empower, and enrich the lives of people affected by Alagille syndrome. You're not alone in this journey.

Join the ALGSA and benefit from:

- Resources and free materials
- Updates on research and clinical studies
- Connections with families
- Phone support with people who understand

Learn more about the ALGSA at [Alagille.org](https://alagille.org)



MEET FINLEY!

4 Years Old Real Person Taking LIVMARLI

Story reported by caregiver.
Individual results may vary.

About Finley

- **Diagnosed with Alagille syndrome:** 2 months old
- **Level of cholestatic pruritus (itch):** Itching and rubbing of his face, ankles, and feet
- **Impact of cholestatic pruritus on daily life:**
 - Frequent crying and fussiness
 - Sleep interruptions, waking every 2 to 3 hours
 - Rubbed against his parents due to itch; grabbed his ears, shuffled his feet, and kicked his legs

Experience With LIVMARLI

- **Level of cholestatic pruritus:** Rubbing or mild scratching when undistracted
- **When Finley saw improvements in cholestatic pruritus:** Within 4 weeks
- **Living with less cholestatic pruritus:**
 - Fewer sleep interruptions due to itch
 - Less overall itching and fewer scratch marks
 - More able to focus on his daily routine with fewer distractions



IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

Tell your health care provider about all medicines that you take, as LIVMARLI may interact with other medicines. If you take a medicine that lowers cholesterol by binding bile acids, such as cholestyramine, colestevlam, or colestipol, take LIVMARLI at least 4 hours before or 4 hours after you take that medicine.

Your health care provider may change your dose, or temporarily or permanently stop treatment if you have certain side effects.



Please see Important Safety Information
throughout and [Patient Information](#),
including [Instructions for Use](#).

MEET NOELLE!

13 Years Old Real Person Taking LIVMARLI

Story reported by caregiver.
Individual results may vary.



About Noelle

- **Diagnosed with Alagille syndrome:**
2 1/2 months old
- **Level of cholestatic pruritus (itch):**
Active scratching with red marks
- **Impact of cholestatic pruritus on daily life:**
 - Learned to live with cholestatic pruritus and used coping strategies
 - Used brushes to scratch her skin and often asked her mom to scratch her back
 - Significant sleep disturbances
 - Noelle's mom said Noelle would scratch all night

Experience With LIVMARLI

- **Level of cholestatic pruritus:**
Occasional rubbing or mild scratching when undistracted
- **When Noelle saw improvements in cholestatic pruritus:** Within 1 week after starting LIVMARLI; improvements confirmed at 3-week follow-up appointment; itch continued to improve over time
- **Living with less cholestatic pruritus:**
 - Less scratching and fewer red marks
 - Fewer sleep disturbances
 - Less impacted by changes in temperature and weather

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

LIVMARLI is available in oral solution and tablet formulations. LIVMARLI is taken by mouth, 1 time each day, 30 minutes before a meal in the morning. For the oral solution, be sure to use the provided oral dosing dispenser to accurately measure the dose of medicine.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

TALKING TO YOUR CHILD ABOUT LIVMARLI

If you care for a young child with Alagille syndrome, they may have questions. Here are some suggestions for how to talk to your child about LIVMARLI.



What makes my liver different?

When you have Alagille syndrome, **your liver needs extra help** to make sure bile doesn't get stuck as it moves out of your liver.



How do I talk about my cholestatic pruritus (itch)?

It can be tricky learning how to talk about cholestatic pruritus. Think about any times or moments when you feel uncomfortable, itchy, or wiggly. Be sure to share this information with your doctor.



Why might LIVMARLI be right for me?

Cholestatic pruritus can be hard to manage, but **LIVMARLI was made to help you feel less itchy**. Talk to your doctor to see if LIVMARLI is right for you.



IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

These are not all of the possible side effects of LIVMARLI. For more information, ask your health care provider or pharmacist. Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088.



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

TALKING TO YOUR CHILD ABOUT LIVMARLI



What is LIVMARLI?

LIVMARLI is a medicine that goes into your body, finds what's making you feel itchy, and fights to help you feel less itchy.



How has LIVMARLI helped kids like me?

LIVMARLI has helped other kids with cholestatic pruritus (itch) in Alagille syndrome who have bile acid buildup and feel itchy. After taking LIVMARLI, many kids **had less cholestatic pruritus overall, with some days where they didn't feel itchy at all.**



How do I take LIVMARLI?

It's easy to take LIVMARLI! **LIVMARLI is prescribed as either a liquid (oral solution) medicine or a tablet** that's taken once a day by mouth. Every morning, you'll take it right when you wake up.

After you take it, you need to wait 30 minutes before you can eat. You can use that time to play a game, draw a picture, or get ready to start the day.



How will LIVMARLI make me feel?

LIVMARLI can help you feel less itchy. Some kids may get diarrhea or a bellyache after starting LIVMARLI, but it typically resolves in less than a week. Talk to an adult who can let your doctor know how you're feeling. **Your doctor is here to help you.**

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

LIVMARLI can cause serious side effects, including:

- **Liver injury.** Changes in certain liver tests are common in patients but may worsen during treatment with LIVMARLI. These changes may be a sign of liver injury and can be serious. Your health care provider should do blood tests and physical exams before starting and during treatment to check your liver function. Tell your health care provider right away if you get any signs or symptoms of liver problems, including:
 - nausea or vomiting
 - your skin or the white part of your eye turns yellow
 - dark or brown urine
 - pain on the right side of your stomach (abdomen)
 - fullness, bloating, or fluid in your stomach area (ascites)
 - loss of appetite
 - bleeding or bruising more easily than normal, including vomiting blood



Please see Important Safety Information throughout and [Patient Information](#), including [Instructions for Use](#).

Rise above cholestatic pruritus (itch) to

LIV IT UP



EARLY IMPROVEMENTS WITH LONG-TERM IMPACT

More than 80% of patients experienced less cholestatic pruritus than they felt at the start with LIVMARLI. Improvements were seen as early as the very first assessment (Week 3).

For patients who experienced a significant improvement in cholestatic pruritus—that is, more than a 1-point reduction in Itch Reported Outcome (Observer) (ItchRO[Obs])^{*}—**93% were alive and did not have a liver transplant** 6 years after starting LIVMARLI (please see important study design information on pages 16 and 17).^{†‡}

[†]The impact of LIVMARLI medicine on transplant-free survival has not been established. No information about liver fibrosis (scarring) was collected.

[‡]Persistent cholestatic pruritus was a common reason for liver transplant in many patients with Alagille syndrome.



HELPING PATIENTS FOR YEARS

Backed by more than 7 years of data,[§] LIVMARLI has a well-known safety record in patients with cholestatic pruritus in Alagille syndrome.

Over the last 7+ years, LIVMARLI has been used by 1000+ patients with Alagille syndrome to battle bile acid buildup.^{||}

^{||}Includes clinical studies, early access program, and commercial treatment.



GETTING STARTED AND FINDING SUPPORT IS EASY

Approximately 95% of patients are approved for LIVMARLI by their insurance and 98% of patients pay \$10 or less per fill.^{†#}

Mirum Access Plus offers resources, education, and services to help you start and stay on LIVMARLI.

To learn more about LIVMARLI, talk to your doctor or visit LIVMARLI.com

IMPORTANT SAFETY INFORMATION (cont'd)

What are the possible side effects of LIVMARLI (maralixibat) oral solution and tablets?

- **Stomach and intestinal (gastrointestinal) problems.** LIVMARLI can cause stomach and intestinal problems, including diarrhea and stomach pain during treatment. Diarrhea can also cause the loss of too much body fluid (severe dehydration). Your health care provider may advise you to monitor for new or worsening stomach problems, including stomach pain, diarrhea, blood in your stool, or vomiting.

Please see full Prescribing Information, including [Patient Information](#) and [Instructions for Use](#), for LIVMARLI.

^{*}ItchRO(Obs) is a tool designed for caregivers to measure cholestatic pruritus severity over time.

[§]From extended observation of patients taking LIVMARLI after completing a placebo-controlled study.

[†]Data from 1/1/2024 to 12/31/2024.

[#]Patients enrolled in the Mirum Patient Assistance Program are included in those paying \$10 or less per fill.



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