

Preparing for a Liver Transplant



William, liver recipient (transplanted July 2015) pictured with his wife, Teresa



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

Welcome

The Ohio State University Wexner Medical Center Comprehensive Transplant Center doctors and staff welcome you as a possible liver transplant candidate.

Our Comprehensive Transplant Center has one of the largest organ transplant programs in the nation and is a preferred provider for all major insurance companies. We perform 600 liver, kidney, pancreas, heart and lung transplants each year. Since our program began in 1967, we've performed 13,000 lifesaving transplants, including more than 1,900 liver transplants.

As you begin this journey, you and your family may have many questions and concerns. We hope this information helps you learn about the process of liver transplantation so you know what to expect.

The goal of a liver transplant is to allow you to live a more normal life. But there are changes you'll need to make after transplantation to have the best outcome.

For More Information

It's common to feel both concerned and excited as you consider a liver transplant. Please call to talk with a pre-transplant coordinator to get more information and address your questions and concerns.

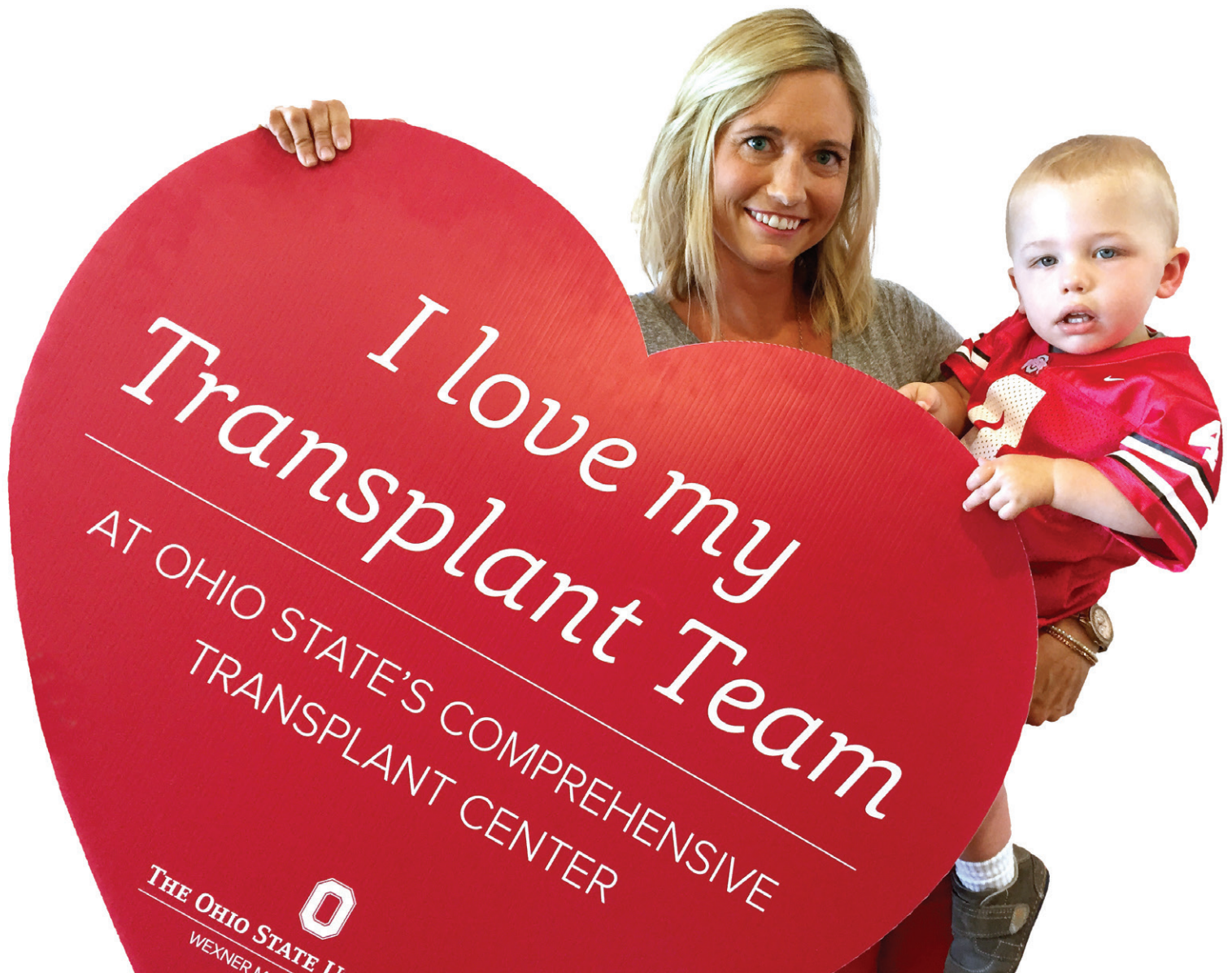
Phone: 614-293-6724 or 800-293-8965
Monday through Friday
8 a.m. to 4 p.m.

After regular hours, follow the prompts in the phone tree to leave a message.

Ohio State Hepatology Clinic

2nd floor, Doan Hall
410 W. 10th Ave.
Columbus, OH 43210
Phone: 614-293-6255
Fax: 614-293-8518

About the Liver



After receiving a liver transplant in 2001, Morgan was able to give birth to her son, Graham, 13 years later.



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

About the Liver

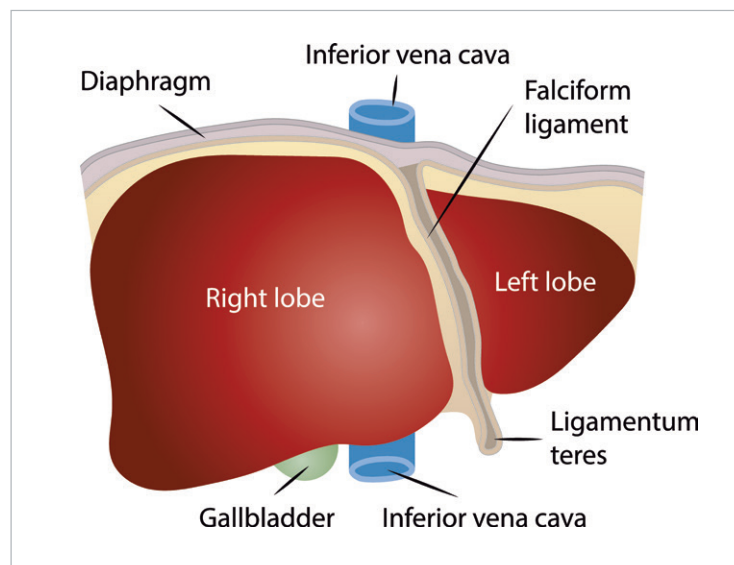


The liver is the largest internal organ and weighs about 2 to 4 pounds. It lies in the right side of the upper abdomen, next to the stomach. The rib cage covers most of the liver, except the area just below the sternum (breastbone). Under the liver is the stomach, large intestine, the right kidney and the gallbladder.

A healthy liver does many things to keep your body working well, such as:

- Helps your body fight infection by destroying germs in your blood
- Removes or changes almost every hormone, drug and chemical that enters or is already present in your body
- Makes and stores substances that help clot blood, called clotting factors
- Stores glucose, vitamins and minerals like iron and releases them when your body needs them
- Produces bile to help digest food

Blood is supplied to the liver by two large blood vessels. The **hepatic artery** supplies blood that's rich with oxygen to the liver. The **portal vein** brings blood from the stomach, small intestine, spleen and pancreas to the liver to supply it with nutrients.



Liver Disease and Cirrhosis

There are many illnesses or conditions that can damage your liver, causing cirrhosis. Your liver doctor, called a hepatologist, can help you understand your liver disease.

Liver disease causes scarring in the liver, called cirrhosis. The scar tissue blocks the flow of blood through the liver. This blockage causes the liver to be slow in breaking down food products, hormones, medicine and waste products in the body. It also slows the liver's ability to make proteins and other substances.

Causes of cirrhosis:

- Alcoholism
- Chronic hepatitis (type B and C are more common)
- Metabolic Dysfunction-associated Steatohepatitis (MASH), which is related to insulin resistance and diabetes
- Inherited conditions, such as Wilson's disease and alpha-1 antitrypsin (AAT) deficiency
- Autoimmune disorders, such as primary biliary cirrhosis (PBC) and primary sclerosing cholangitis (PSC)
- Autoimmune hepatitis
- Heart failure with liver involvement
- Hemochromatosis (overabsorption of iron)
- Reactions to prescribed medicines and exposure to environmental toxins are less common causes



*Debbie, liver recipient
(transplanted May 2019)*

Signs of cirrhosis:

Damage to the liver can't be repaired, but treatment can slow or stop more damage. Problems or signs that are often seen include:

- Feeling tired or weak
- Loss of appetite, nausea and weight loss
- Kidney damage
- **Portal hypertension** – high blood pressure in the portal vein system that carries blood from the digestive organs to the liver
- **Pruritus** – itchy skin
- **Jaundice** – yellowing of your skin or eyes, caused by too much bilirubin in your blood
- **Ascites** – swelling in the abdomen due to a buildup of fluid. If your protein is low in your blood vessels, fluid can leak into your belly to cause ascites
- **Hepatic encephalopathy (HE)** – changes in alertness, confusion, forgetfulness, problems concentrating or increased sleepiness. Increased amounts of ammonia in your body can cause these changes in thinking. If you have HE, avoid use of opioid or narcotic pain medicines, sleeping pills and anti-anxiety medicines.
- **Varices** – swollen blood vessels in the stomach or esophagus. May have black tarry stools or vomit blood if these vessels bleed. Sometimes the bleeding is severe and can be life-threatening.

Infections in the abdomen, damage to the gallbladder and kidneys can also occur, along with many other problems.



*Mac, liver recipient
(transplanted October 2021),
picture with his sister, Tessa.*

Liver Transplant Process



Melvin, liver recipient (transplanted September 2018)



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

Liver Transplant Process

We require you to have a support person attend all your transplant office visits and education sessions with you. The transplant process can seem very complicated with a lot to learn and remember, so your support person can be a second set of eyes and ears to help you.

Transplant Process Steps

The journey through the process of organ transplant requires several steps:

- 1. Referral for Transplant**
- 2. Transplant Education**
- 3. Testing**
- 4. Evaluation Day**
- 5. Patient Selection Committee (PSC) Review**
- 6. Transplant Wait List**
- 7. Getting the Call**

We will review each of these steps to help you know what you can expect. Please ask any questions you may have and let us know if there is anything that you do not understand.

Step 1: Referral for Transplant

Your doctor may have talked to you about having a liver transplant because of the amount of damage your liver has sustained.

Hepatologist

If you want to consider a transplant, you will need to be seen by a hepatologist, a doctor who treats patients with liver disease. This doctor will review your records and may do other testing to determine the amount of damage your liver has sustained and whether transplantation may be a good treatment option for you.

If you are a candidate for transplantation, your hepatologist will refer you to The Ohio State University Wexner Medical Center Comprehensive Transplant Center for transplant evaluation. Your hepatologist will manage your liver disease treatment and medicines, whether or not you become a transplant candidate.

Transplant Team

Once you have been referred to the Ohio State Wexner Medical Center's transplant center, you will be seen by many members of the transplant team to help you understand the process and what to expect. The team includes:

- **Transplant surgeon** – doctor involved in reviewing your history and doing an exam. This surgeon, or another surgeon, will review your history and perform an exam. They or another surgeon may do the transplantation surgery.
- **Pre-transplant coordinator** – registered nurse (RN) who will work with you through the process from your referral until transplant surgery. You will need to let this coordinator know about any hospital stays, changes in your health or any changes in your contact information. After surgery, you will have a post-transplant coordinator, who is also a nurse.
- **Transplant financial coordinator** – works with you to help you understand the costs of transplantation and any benefits you may be eligible for.
- **Transplant social worker** – will work with you to check that you have support and coping skills to deal with the transplant process. If you have a history of problems with drug or alcohol use, the social worker will also assist you with meeting transplant guidelines and may refer you to a psychologist if needed.
- **Transplant psychologist** – will work with you, if needed, to be sure you have the support and coping skills to handle the stress of the transplant process or coordinate alcohol and/or drug counseling.
- **Transplant dietitian** – will work with you to review your eating habits and diet and help you make adjustments to manage your health.

Step 2: Transplant Education

If you're considering a liver transplant, the next step in the process is to watch a 30-minute education video: go.osu.edu/LiverTrxEducation.

IMPORTANT: If you don't have internet access, please speak with your transplant coordinator to make alternate arrangements.

Topics reviewed during the education video include:

- Reasons for transplant
- Types of liver transplants (deceased donors and living donors)
- What to expect during evaluation and testing
- Reasons someone would not be a good transplant candidate
- Expectations of the transplant Patient Selection Committee (PSC)
- Wait-listing procedures
- Organ offers with *risk criteria identified*
- Surgery
- Anti-rejection medicine
- Care at home and follow-up care after transplant

Step 3: Testing

You will be scheduled to have tests done to check your current health and whether you're able to have transplant surgery.

Tests may include:

- Abdominal imaging by ultrasound, CT or MRI
- Blood tests
- Electrocardiogram (EKG or ECG) to check your heartbeat patterns
- Echocardiogram to check the pressure in your heart and lungs and to check blood flow through your heart
- Pulmonary function testing to check how well your lungs are working
- Arterial blood gas (ABG) to check oxygen levels in your blood
- Six-minute walk test to check your heart and lungs when you are active
- Chest X-ray
- Cancer screening that may include:
 - Colonoscopy if older than 50
 - Mammogram for women over 40 (within one year)
 - PSA for men
 - Pap smear for women (within one year)
- A colonoscopy for patients 45 and over
- Ischemic testing
- Possible other testing may be needed

Step 4: Evaluation Day

Once education is completed, you'll be scheduled for an Evaluation Day. You're also expected to bring at least one support person with you to this appointment.

You should expect to meet with members of the transplant team, such as:

- **Pre-transplant coordinator** – will meet to review your medical history.
- **Surgeon** – will talk with you about the plan for the liver transplant and review the results of your tests. You'll have a physical exam, and the risks and benefits of the surgery will be reviewed with you.

Virtual evaluations will include speaking with:

- **Dietitian** – will review your current diet and nutrition status to create a plan to keep you healthy. Changes to cooking and food prep and use of nutritional supplements may be discussed.
- **Financial coordinator** – will talk about your health insurance benefits and other financial resources, including your income and savings. This person will help you to create a financial plan to cover the cost of the transplant and follow-up care, as needed.

You may also need to be seen by other doctors. These appointments may not happen on the same day as the rest of your evaluation.

- **Cardiologist (heart specialist)** – will review the results of some of your tests to determine if you have any heart issues.
- **Infectious disease specialist** – will review your vaccination history and recommend vaccines that may be needed before transplant.

Based on the findings from your evaluation, you may need additional tests or you may be given other guidelines that you need to meet before you are able to proceed to the committee review.

Once your evaluation is complete, your case will be presented to the liver transplant Patient Selection Committee (PSC).

Alcohol and Drug Use:

Alcohol and illegal drug use can cause more liver damage.

- If you drink alcohol or use drugs, you may be sent for counseling and three months of treatment to help you meet requirements for transplant listing.
- If you are on the liver transplant waiting list and you test positive for alcohol or illegal drugs, you may be placed on inactive status or you may be removed from the waiting list.
- Random drug and alcohol screening is done for all liver transplant patients. If you are called to have a drug or alcohol screening, you have **24 hours to complete the needed test** or it will be assumed that your results are positive and actions will be taken.

Step 5: Patient Selection Committee Review

When your testing and evaluations are completed, you'll be presented as a liver transplant candidate at the Patient Selection Committee (PSC) meeting. This is a multidisciplinary team of physicians and non-physicians, some of whom you've met during your evaluation process. The committee has the responsibility of thoroughly reviewing each patient's case and determining not only if you're an acceptable candidate for transplant, but also if there's any other intervention possible before proceeding with transplantation.

All aspects of your evaluation will be discussed, and a decision will be made about your candidacy. There are three possible results:

1. You're approved for the transplant wait list.
2. No decision is made about your candidacy, and you may be asked to complete additional testing.
3. You're not approved for the transplant wait list. This may be a permanent or temporary decision. Continue your care with your liver specialist doctor. You may be referred back for transplant evaluation in the future.

Your hepatologist or the pre-transplant coordinator will contact you to let you know the decision from the PSC about your case.

If you are an acceptable candidate, the transplant center will work to get your insurance approval for the surgery. They may also contact the OSOTC (Ohio Solid Organ Transplantation Consortium) for **Medicaid patients only** to get approval to have you added to the liver transplant wait list.



*Debbie, liver recipient
(transplanted May 2019)*

Step 6: Transplant Wait List

Once you've been approved by the PSC and the OSOTC and authorization has been received from your insurance, you'll be added to the national waiting list for liver transplantation, which is maintained by the United Network for Organ Sharing (UNOS). You'll also receive a letter and a phone call from your transplant team.

There are several factors that determine your rank or placement on the wait list, including:

- Donor type
- Blood type
- Weight range
- MELD 3.0 score

Donor Type

A liver transplant may come from a living donor or a deceased donor, which can affect how long you wait.

- **Living donor transplant** – Living liver donation occurs when a healthy person donates a portion of their liver to a recipient in need of a transplant. For more information on living liver donation, visit wexnermedical.osu.edu/LiverDonor.
- **Deceased donor transplant** – If you plan to receive a liver transplant from a deceased donor, there'll be a waiting period until the right match is found. It may be several years, or it may be sooner. The average median wait time for a deceased donor liver transplant at Ohio State is approximately six months.

Blood Type

There are four blood groups on the list: A, AB, B and O.

- O and A are the most common blood types and have a longer wait list, but they also have more donors available.
- AB and B groups have shorter lists, but there are fewer donors in these groups.

Weight Range

The donor liver size can determine the recipient. Each patient on the wait list will have a weight range based on their body size.

MELD 3.0 Score

The Model for End-Stage Liver Disease (MELD 3.0) score is a useful tool for both you and your health care team as you plan for a transplant. It is a numbered scale that estimates how well your liver is working. With cirrhosis, the function of the liver can change constantly, even every day. These changes are seen in your blood work, which is used to find your MELD 3.0 score.

The scores range from 6, which means the liver is working well, to 40, which means the liver is working poorly and the person needs an urgent transplant.

The MELD calculation uses the following inputs:

- **Serum creatinine (mg/dL)**
- **Bilirubin (mg/dL)**
- **INR**
- **Serum sodium (mEq/L)**
- **Albumin (g/dL)**
- **Candidate age at listing**
- **Sex for purposes of adult MELD calculation**
(only if candidate's age at registration is 18 years or older)

Blood draws, also known as labs, are performed at specific times based on your current MELD 3.0 score.

If you want to calculate your MELD 3.0 score from your lab values, use this calculator link:

<https://go.osu.edu/meld-calculator>.

MELD 3.0 Lab Work

Based on your current MELD 3.0 score, you will need to have blood drawn for lab work to keep you active on the waitlist. If your lab work is not done as required, your transplant status will be placed on hold and you will not be eligible to receive a transplant until the tests are completed.

You should always have at least three tubes of blood drawn for MELD 3.0 labs. You may also have monthly blood draws in addition to the MELD 3.0 labs, if you need a liver and kidney transplant.

Frequency of MELD 3.0 Lab Tests

How often you need to be tested is based on your MELD 3.0 score. If your current MELD 3.0 score is:

- **25 or higher**, you need testing every seven days
- **19 to 24**, you need testing every month
- **11 to 18**, you need testing every three months
- **10 or less**, you need testing every 12 months

While Waiting

- Make sure that you're available by phone; check your messages and respond right away. You need to return the call within one hour to determine if you are well enough to transplant. If you don't return the phone call in that time, the coordinator will contact the next person on the transplant list and you will miss the opportunity.
- Be sure to stay in close contact with your transplant coordinator. Let the coordinator know right away if you have:
 - Changes in your health, especially if you are seen in a hospital outside of the Ohio State Wexner Medical Center
 - Changes to any of your medicines
 - Changes to your contact information or your family contact information if you listed them as a contact for you
 - Plans to leave the state on vacation or for other reasons. You may be placed on hold if you are out of range
 - Any changes to your support system
 - Any changes in your insurance
- You should have plans ready for child and pet care, if needed, as well as transportation arranged, so you are ready if you get a call.
- You are expected to abstain from using drugs or alcohol while you are on the transplant list. You may be required to get random drug screenings done while you are on the transplant list.
- You will need to have ongoing lab work.
- You also need to have yearly dental exams, heart testing or other imaging tests, and you must update your psychosocial form each year.
- Be sure to keep all of your appointments with your primary care doctor and liver specialist and have your needed lab work completed.

Wait List Hold

You may be placed on a wait list hold for many reasons. You're not able to receive organ offers while on hold, but you're still on the list. Some of the reasons to be placed on hold include:

- You're too sick to be safe for transplant surgery.
- You aren't current with your lab work or other testing and appointments.
- You had a positive drug screen.
- Your doctor or the Patient Selection Committee has placed you on hold because you aren't following through with required care.

If you're removed from the transplant wait list, you'll receive a phone call and a letter of notification.

Contact the Transplant Team

Your transplant coordinator is available if you have any questions or concerns. All calls are routed to the coordinators and prioritized based on urgency. Calls are most often returned the same day they're received.

If you have an emergency, **do not drive yourself to the emergency department**. Ask the doctor in the emergency room to call the Ohio State Hepatology Clinic at 614-293-6255. If after hours, leave a message and someone will call back.

Step 7: Getting the Call

Call from Coordinator

You'll receive a call from a transplant coordinator when an organ has been accepted for transplant. The phone number that the coordinator is calling from will not always show as an Ohio State number on your caller ID. Please do not decline calls, as you may miss the call for an organ offer. Please note that if the coordinator can't reach you by phone, they'll call the emergency contact or your support person. Upon receiving the call, you should be prepared to leave home within 30 minutes.

- Organ offers come at all hours of the day and night. Be sure to keep your phone on at night.
- You have one hour from the time the coordinator first called you to return the call. You do not have to be at the hospital in an hour, but you do need to return the call.
- The coordinator will keep trying to call you and anyone listed as a contact for you during the hour.
- When the coordinator reaches you, you'll need to provide information about any changes to your medical history, infections, fevers and the distance you are away from the hospital.
- You may be asked to come to the hospital and then be sent home if the organ does not appear to be a good match for you or if the organ is of poor quality. This would not change your position on the wait list. You may also be sent home if you have an infection, test positive for drugs or alcohol or have a new health problem that would make surgery unsafe for you.
- Be sure to bring these items with you to the hospital:
 - Photo ID
 - Insurance card(s)
 - Current list of all medicines
 - Power of attorney for Health Care or Living Will
 - Medical history and list of past surgeries
 - List of important phone numbers
 - Personal hygiene items
- **Do not bring** jewelry, large amounts of money or other valuables with you to the hospital.
- For the safety of all patients on the Transplant Unit, children age 12 or younger are not permitted to visit. In addition, live plants, fresh fruits and vegetables and fresh flowers are not permitted on the Transplant Unit.

Organs with *Risk Criteria Identified*

Organs with *risk criteria identified* refers to organs from donors who participated in an activity or circumstance that could have exposed them to an infectious disease, such as hepatitis or HIV. You'll learn more about organs with *risk criteria identified* during the education video in Step 2.

If you're offered an organ(s) with *risk criteria identified*, this will be discussed with you during the initial phone call. It's important to note that the transplant team wouldn't accept the organ unless they believed the benefits of transplant outweigh the risks. The reason the organ has *risk criteria identified* won't be shared with you when you get the call. If you agree to accept the organ, you'll receive more information from the surgeon upon your arrival to the hospital and will sign an additional consent form.

Liver Transplant Surgery



Douglas, liver recipient (transplanted February 2017)



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

Transplant Surgery

After you receive the call from your transplant coordinator, you'll be admitted to the Transplant Unit on the 10th floor of Rhodes Hall at The Ohio State University Wexner Medical Center.

Upon arrival, you'll have multiple lab tests done to ensure you are ready for transplant. You will be given a number of medications, including antibiotics, antifungals and immunosuppression medications.

Possible Risks or Problems from Surgery

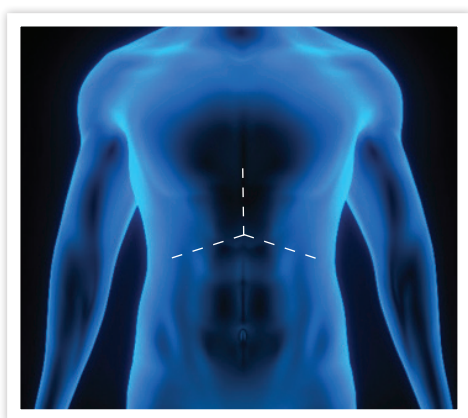
The doctor will talk with you about risks and benefits of transplant surgery before you sign the surgery consent form. There may be other risks, based on the donor organ and other factors. Ask questions if you don't understand the risks as the doctor explains them to you. The major risks include:

- Bleeding
- Infection
- Pneumonia
- Heart complications
- Blood clots
- Death

Surgery Can Take Four to Six Hours

Ideally, surgery is performed as soon as the organ is available. However, using the latest perfusion techniques, we are able to transplant livers within 12 to 24 hours after organ recovery. When you are taken to the operating room, you'll be given a general anesthesia, so you won't be awake through the surgery. The doctors will cut an upside-down Y, called a chevron incision, on your abdomen. The transplanted liver will be placed through this incision. If you still have your gallbladder, it will be removed to reduce possible problems after surgery.

You'll have a breathing tube and several IV lines in place after the surgery is done. You'll also have several drains to drain fluid out to allow healing. The incision will be closed with staples. You will likely be on oxygen and a heart monitor. You'll also have wraps on your legs that are connected to a pump, called a sequential compression device, or SCD, to prevent blood clots from forming in your legs while in the hospital.



Chevron Incision for Liver Transplant

Care After Surgery



Krista, liver recipient (center – transplanted February 2017), pictured with her daughter, Shelbi, and husband, Ken.



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

Care After Surgery

You will be admitted to the Surgical Intensive Care Unit (SICU) following your liver transplant. When you are able to breathe on your own, we'll remove your breathing tube and move you to the Transplant Unit recovery area to continue your recovery.

Most liver transplant patients will be in the hospital about seven days. The Transplant Unit staff will teach you and your support person about your care with an organ transplant, such as:

- Your immunosuppression medicines to prevent rejection of the transplant
- How to prevent infections
- How to care for your surgical incision
- Problems that you should watch for and whom to call

Immunosuppression (Anti-Rejection) Medicines

Your immune system helps protect your body from infection and fights off things that might be harmful to you. After your organ transplant, your immune system will know the transplanted liver isn't part of your original body. Because of this, it may try to fight against the liver transplant and reject it or rid your body of the transplanted organ. Immunosuppression (anti-rejection) medicines (also called anti-rejection medicines) must be taken after transplant surgery to reduce your body's chances of rejecting your newly transplanted liver. **You will need to take these medicines two to three times each day, every day, for the rest of your life.** As a transplant patient, you need to learn about your medicines and how to take them, including what side effects to watch for.

You will also need to have **lab work done often to check the levels of your medicines** to be sure they're in the right ranges to work best for you. You should **never stop taking these medicines, or change the doses, without first checking with your transplant doctor.**

- Doses will change, and you need to communicate closely with your post-transplant coordinator to be sure you understand your instructions.
- Only an **Ohio State Wexner Medical Center transplant doctor** should be making changes to your transplant medicines.

Protect Yourself From Infections

Because immunosuppression medicines weaken your body's immune system, you need to take extra steps to stay healthy. You'll be taught about how to protect yourself, such as:

- Good hand washing
- Avoiding others who are sick

Working With Your Post-Transplant Coordinator

You'll get a call from a post-transplant coordinator 24 to 48 hours after you leave the hospital after your transplant surgery. The coordinator is your contact for any questions you may have about your care. The coordinator will also work with you to coordinate lab work and management of your medicines.

Appointments After Transplant

- You should plan to have appointments for follow-up every week for the first month.
- Lab work will be done two times every week for the first three months.
- Based on your condition, you may see the doctor very frequently right after your transplant. Be sure to keep all of your appointments.

Can I Contact the Donor Family?

This is your decision. Every donor family and situation is different. Some donor families want to share about their loved one, while others find it too difficult.

Please call Lifeline of Ohio at 800-525-5667 to find out more about contacting your donor family.

Living Donor Program



Debbie (left), liver recipient (transplanted May 2019) pictured with her daughter and living donor, Marley.



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

What is Living Liver Donation?



Living liver donation occurs when a healthy person donates a portion of their liver to a transplant recipient with end-stage liver disease. During the transplant procedure, the recipient's diseased liver is removed and replaced with a portion of the healthy donor's liver. The recipient and donor surgeries are carried out at the same time in different operating rooms. Since a healthy person's liver can grow back, living liver donation is a generous decision some people are willing to make.

Why Choose to Be a Living Liver Donor?

Patients with end-stage liver disease have two options for treatment: a liver transplant from a deceased donor or a liver transplant from a living donor.

Unfortunately, the demand for organs for transplantation far exceeds the number available, and demand is steadily increasing. United Network for Organ Sharing (UNOS), the organization responsible for allocating deceased donor organs for transplant, reports there are more than 10,000 candidates in the United States waiting for a liver transplant. In 2022, only 9,528 liver transplants were performed, with 603 transplanted from living donors.

For some patients needing a liver transplant, receiving a portion of a liver from a living donor is an ideal option. Patients who receive a living donor liver transplant could greatly reduce their wait time for transplantation and have more control over when the operation occurs for better outcomes. At any given time, about 125 patients are awaiting a liver transplant at Ohio State's Comprehensive Transplant Center — many whose lives could be changed by a living donor.



For more information about living liver donation, visit wexnermedical.osu.edu/liverdonor

*Briana, living liver donor
(donated January 2020)*

Other Treatment Options



Brian, liver-kidney recipient (transplanted December 2018), pictured with his wife and kids.



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

What if Transplant Isn't Right for Me?

There is no cure for cirrhosis, other than liver transplant. If transplant is not for you for whatever reason, there are other treatments that may benefit you. Some of these treatments may be used to manage your condition while you wait for a transplant.

Here is some information about possible treatment options. Talk to your liver doctor about treatments to manage your disease.

Treatment Options

- **TIPS (Transjugular Intrahepatic Portosystemic Shunt)** – During this procedure, a small metal tube called a shunt or stent is placed in the liver to connect two blood vessels. This is done to improve blood flow through the liver, reducing the pressure in the liver, to limit further damage.
- **Heat Ablation or Radio Frequency Ablation** – During this procedure, a small probe is inserted through the skin and into the liver. The probe produces heat to burn small growths, called tumors, to slow or stop further growth.
- **Chemoembolization** – During this procedure, chemotherapy drugs are given directly into the liver while the blood flow feeding the growths or tumors is cut off.
- **Surgery** – Based on the size and location of a liver tumor, surgery may be done to remove part of the liver that has the tumor growing in it.
- **Palliative Care** – Some patients decide that transplant is not right for them and have different treatment goals. Palliative care can help you determine how you want to treat your disease for the rest of your life. Do you want treatments to prolong your life, or do you want to be kept comfortable until your death? Palliative care can help you with your comfort, health care goals and end-of-life care. We encourage all patients and their families to meet with a palliative care team, regardless of the path they choose.

For additional information, visit our Liver Transplant Education Hub at wexnermedical.osu.edu/LiverEducation

Preparing for a Liver Transplant

Ohio State Comprehensive Transplant Center
Abdominal Transplant Clinic
300 W. 10th Ave., 11th Floor
Columbus, OH 43210

614-293-6724

wexnermedical.osu.edu/transplant



THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER