

# About your **CHEMOSAT**<sup>®</sup> Procedure

## Patient Information

Patienteninformationen | informazioni sul paziente | Renseignements sur le patient  
Información para el paciente | Patiënteninformatie



*If you have cancer in your liver,  
there's a new reason for hope.*

*Your doctor is offering a new  
procedure called CHEMOSAT®.*

*CHEMOSAT is giving new hope  
to people with cancer in their liver  
and your doctor believes it may  
help you too.*

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### GLOSSARY

# CHEMOSAT®

CHEMOSAT is a new procedure that is used to deliver anti- cancer agents. CHEMOSAT puts a powerful anti-cancer drug directly in your liver where it can do the most good.

### A New Way to Treat Cancers in your Liver

For many patients, CHEMOSAT is a good way to treat cancers in the liver.

- CHEMOSAT is the first treatment to deliver high amounts of anti-cancer drugs directly to your liver without surgery!
- CHEMOSAT can be used more than once, as long as your doctor feels it may be appropriate.
- CHEMOSAT works well even if you have many cancers in your liver.

### Is CHEMOSAT Right For Me?

You and your doctor will talk about whether CHEMOSAT is the best treatment for you. It will depend on:

- The stage and grade of your cancer.
- Your age.
- Your overall health.
- How much cancer you have and whether the cancer is mainly in your liver.
- The health of your liver (including the parts that do not have cancer).
- The location of vital veins and arteries to the tumors in your liver.
- The type of treatment you have had in the past (including any surgeries that you have had in the past).





### Meeting with Your Doctor

Your doctor will meet with you to explain how the procedure works. Your doctor will explain how CHEMOSAT may help you and will also explain any side effects you might have. Your doctor will also talk to you about other choices for treatment.

This is a great time to ask questions and to talk about any questions or concerns that you have.

### Scans and Tests

In the weeks leading up to your procedure, your doctor will setup different tests:

**SCANS** of your liver and other parts of your body will help your doctor be sure you are healthy enough for the procedure and will help your doctor get ready for your procedure.

**BLOOD TESTS** will help your doctor be sure you are healthy enough to have the procedure.



### The Day Before Your Procedure

The day before your procedure, you will go to the hospital. If you take any medicines, please bring them with you.

You will go to your hospital room and get settled in for the night. Your nurse may give you medicines to help you get ready for the procedure. You will not be able to eat anything the night before your procedure.

### The Day of Your Procedure

The next day you will go to the procedure room. Your doctor will give you general anesthesia (medicine to help you fall asleep).

You will not feel anything during the procedure.

When you are asleep, your doctor will place catheters (small plastic tubes) in your legs and in your neck.

- One catheter will be used to put two small balloons around your liver to “seal off” the blood in your liver from the rest of your body.
- Another catheter will be used to give you medicine during your procedure.

## Your Procedure

CHEMOSAT has 3 steps:

**1**  
STEP

### ISOLATION:

Your doctor will put a catheter with 2 small balloons around your liver. The balloons will “seal off” the blood in your liver from the rest of your body.

**2**  
STEP

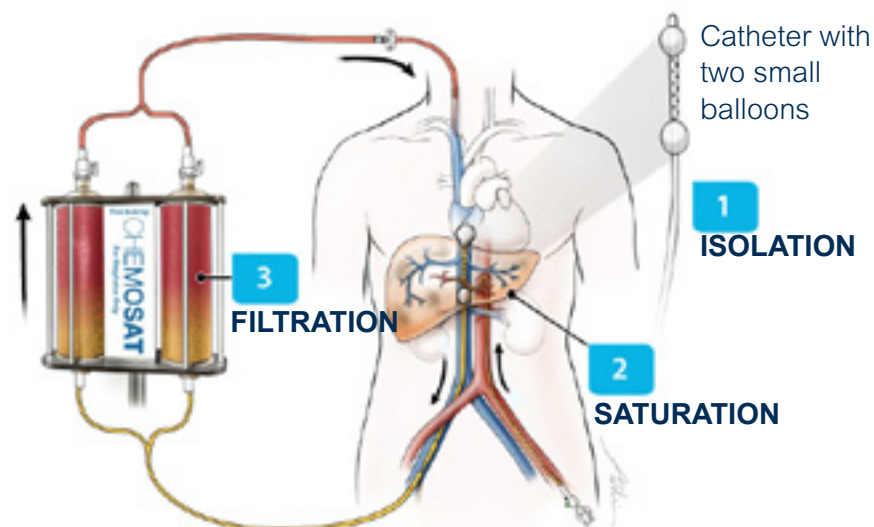
### SATURATION:

Next, your doctor will give you a powerful anti-cancer drug. The drug will go directly to your liver. The balloons will keep the drug from spreading to other parts of your body.

**3**  
STEP

### FILTRATION:

After the anti-cancer drug has been delivered to your liver, the CHEMOSAT filter will remove most of the drug from your blood. This is an important step because it can help reduce side effects after your procedure to a level that you can manage better.



## After Your Procedure

The balloons around your liver and the catheters in your legs will be removed and you will be moved to a recovery room. Your doctor may leave the catheter in your neck after the procedure in case they need to give you more drugs.

Your doctor will be watching you closely after the procedure. You may feel tired and you may have an upset stomach but this should not last very long.

You will spend some time in the hospital while you recover from the procedure.

## When you Get Home

Much is happening inside your body and we need to watch carefully to make sure you stay well.

### After your procedure, you will have:

- ✓ Blood tests every 2-3 days
- ✓ New drugs if you need them.
- ✓ Scans after 6 weeks to monitor your cancer.
- ✓ Be sure you don't miss these important appointments.

## Going Back to Work

You and your doctor will talk about when you may start your normal activities, including work.

## Side Effects

You should be aware of the most common and serious risks and side effects from the CHEMOSAT procedure.

### WARNINGS AND PRECAUTIONS:

One important side effect is that your bone marrow may not work properly for a period of time. This can lead to:

#### Less white blood cells in your blood

- You may get infections easily.

#### Less platelets in your blood

- You may get bruises easily.
- It may take longer to stop bleeding if you are injured.
- You may get a nose bleed or your gums may bleed.
- If you are a woman, your period may be heavy.

#### Less red cells in your blood

- You may feel tired.
- You may feel short of breath or dizzy.
- You may feel chest pain.
- You may have pale skin.
- Your hands and feet may feel cold.
- You may not think clearly.
- You may have a headache.

#### Less hemoglobin in your blood

- You may feel tired or weak.

#### Thinner blood (High pro-time or INR)

- It may take longer to stop bleeding if you are injured.

#### Low calcium in your blood

- You may feel confusion or you may have memory loss.
- You may feel depressed.
- You may feel tingling or have muscle aches.
- Your heart may beat differently.

#### Poor Liver Function

- Your skin and eyes may turn yellow.
- You may feel pain in the upper right part of your belly.
- You may feel sick to your stomach and may vomit.
- You may feel confused or sleepy.

In addition, some patients are very sensitive to the drug used with the CHEMOSAT procedure and have had serious allergic reactions.

The drug used in the CHEMOSAT® procedure may cause other cancers. It may also affect your ability to have children in the future. And it may cause harm to your baby if you are pregnant or breast-feeding.

#### Some people should not use CHEMOSAT.

- If you are pregnant you should avoid CHEMOSAT.
- If you are breast-feeding, you should not use CHEMOSAT.
- If you are elderly and have problems with your organs, you should use CHEMOSAT with caution.
- And CHEMOSAT has not been studied with children.

**Your doctor will be watching carefully for these side effects.** You will

have blood tests every few days to try and find any side-effects early.

If you have any of these side effects, your doctor may give you additional drugs to improve your health.

**Call your doctor right away if you have:**

- fever or chills;
- a sore in your mouth;
- sore throat or cough (even a dry cough);
- burning feeling when you go to the bathroom;
- redness, swelling, or pain;
- bruises;
- any bleeding in your gums, mouth, or nose;
- diarrhea;
- dark or bloody stool;
- pain in your chest or belly that was not there before.

**You should also call your doctor if you feel tired, weak or sick.**

These are not all of the possible side effects of CHEMOSAT. So be sure to call your doctor if you notice anything different.

After your procedure, you will be in contact with your doctor and your care team often. Do not be afraid to let your doctor or nurse know if something does not feel right.

And finally, ask questions! If you are not sure about something, ask! We're here to help. Patients who ask questions can be sure they are getting the best possible care.

**About CHEMOSAT****How is CHEMOSAT different from other liver cancer treatments?**

There are several important differences between CHEMOSAT and other liver cancer treatments:

- With CHEMOSAT, your doctor can give high dose anti-cancer drugs directly to your liver.
- Because CHEMOSAT keeps most of the drug from spreading to the rest of your body, it may help reduce side effects after your procedure.
- Because CHEMOSAT does not involve major surgery, you may recover faster with CHEMOSAT.

**What kind of liver cancer can CHEMOSAT treat?**

CHEMOSAT can treat:

- **Primary liver cancer:** cancer that starts in your liver
- **Metastatic liver cancer:** cancer that starts in a different part of your body and then spreads to your liver.

**What about small cancers in my liver that the doctor can't see?**

Because CHEMOSAT treats the entire liver, it can kill cancers that are so small your doctor cannot see them.

**Is CHEMOSAT a cure?**

No, CHEMOSAT is not a cure. But it may help treat the cancers in your liver.



**Where is the CHEMOSAT procedure done?**

The CHEMOSAT procedure is done in the hospital.  
Your doctor will give you more information.

**How long does the CHEMOSAT procedure take?**

Typically, the procedure takes about 4-6 hours.

Most patients stay in the hospital after the procedure so their doctors can watch them carefully and be sure they recover and are healthy enough to go home.

**Can I have the CHEMOSAT procedure more than once?**

Yes. Your doctor may suggest you have more treatments.

**Side Effects****Does CHEMOSAT hurt?**

No. Your doctor will give you general anesthesia so you will be asleep during the procedure. When you wake up, you may have some catheters in your body and you may feel uncomfortable. If you feel any pain, let your nurse know right away so she can give you medicine to make you feel better.

**Will I feel sick?**

Every patient is different. Be sure to talk to your doctor about what you can expect.

**Will I lose my hair?**

Many patients who used CHEMOSAT did not lose their hair. But every patient is different. Be sure to talk to your doctor about what you can expect.

**Getting Better****Will I be able to go to work?**

You and your doctor will talk about when you may start your normal activities, including work. You may feel tired and you may need to rest more often. If you are very tired, you may want to ask if your job can give you light-duty work.

**Will I be able to drive?**

You and your doctor will talk about when it will be OK to start driving again.

**CATHETERS:**

Small plastic tubes.

**CHEMOSAT PROCEDURE:**

A safe and proven procedure for cancers in your liver. CHEMOSAT puts high doses of powerful anti-cancer drugs directly in your liver and protects the rest of your body from side effects that often come with cancer treatment.

**FILTRATION STEP:**

During this step, the CHEMOSAT filter removes most of the anti-cancer drugs from your blood.

**GENERAL ANESTHESIA:**

Medicine that helps you sleep so that you will not feel any pain during the procedure.

**HEPATIC:**

Having to do with the liver.

**HEPATIC ARTERY:**

Supplies blood to the liver.

**ISOLATION STEP:**

During this step, your doctor puts 2 tiny balloons around your liver. These balloons seal off the liver and keep the anti-cancer drugs from spreading to the rest of your body.

**LIVER:**

The liver is the 2nd largest organ in the body. It is about 8 inches long and weighs about 3 pounds. Your liver helps clean your blood and helps you digest food. It is a vital organ for your overall health.

**METASTATIC LIVER CANCER:**

Cancer that starts somewhere else in the body and spreads to the liver (for example: melanoma, colorectal, breast, and NET).

**PRIMARY LIVER CANCER:**

Cancer that starts in the liver (for example: HCC and cholangio)

**SATURATION STEP:** During this step your doctor puts powerful anti-cancer drugs directly in your liver.



**Concentrating the Power of Chemotherapy™**

CHEMOSAT

