



Exploring Y-90 radioembolization for cancer in the liver

A targeted treatment for cancer in the liver

What is Y-90?

Precise radiation. Delivered directly to tumors.

Y-90 radioembolization is a targeted treatment for cancer in the liver that delivers radiation directly to tumors. Tiny beads filled with a radioactive material called yttrium-90 are guided through the blood vessels that feed the tumor. These beads lodge in the tumor and release radiation over time, helping to destroy cancer cells while limiting exposure to healthy tissue. The procedure is minimally invasive and performed by a doctor called an interventional radiologist using imaging to precisely place the treatment. Most patients go home the same day and return to normal activities within a few days. Your care team will monitor your progress and support you throughout treatment and recovery.

Where does Y-90 fit into my treatment plan?

Y-90 is a liver-targeted treatment that can be used on its own or alongside other therapies to help manage tumors and support your overall care. You and your doctor will determine when and how Y-90 may be used as part of your treatment plan based on your stage of cancer, health and personal preferences. Together, you may consider a combination of the following options for treating cancer in the liver, including:

Surgery

- Resection
- Liver transplant

Systemic Therapies

- Targeted drug therapy
- Immunotherapy
- Chemotherapy (“chemo”)

Minimally Invasive Therapies

- Ablation
- Embolization
- Radioembolization

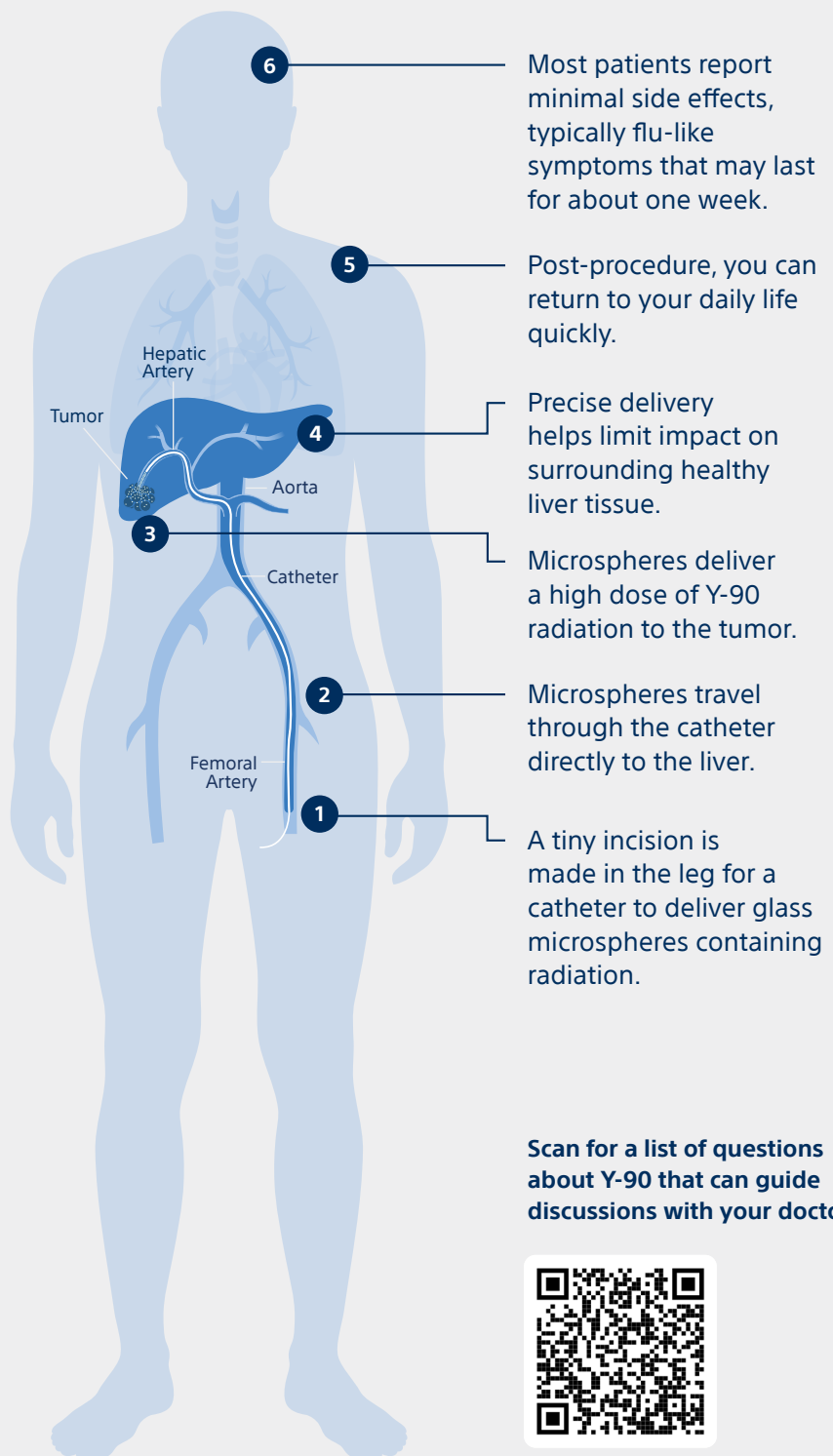
How does Y-90 work?

Targeting cancer cells while preserving healthy tissue.

Unlike other liver cancer treatments that affect your whole body, Y-90 is delivered directly to tumors in the liver with a minimally invasive outpatient procedure.

Not only is it precise, but it's personalized to you. Your doctor calculates the Y-90 radiation dose based on your tumor size and stage, helping to maximize tumor response and minimize side effects.

If your doctor chooses Y-90 to treat your cancer in the liver, here's what to expect:



Scan for a list of questions about Y-90 that can guide discussions with your doctor.



Clinical Evidence

A recommended treatment for cancer in the liver.

The NCCN guidelines are used by doctors to help decide the best treatment options for different stages of cancer. For cancer in the liver, they recognize Y-90 (radioembolization) as a recommended treatment in certain situations, especially when tumors are mainly in the liver and surgery isn't possible.

Y-90 is recommended when:

- The cancer can't be removed with surgery
- A patient is waiting for a liver transplant (to help control the tumor)
- The goal is to slow tumor growth and manage the disease
- Other treatments, like chemotherapy, may not be the best fit

Because Y-90 delivers radiation directly to liver tumors, the guidelines include it as a locoregional therapy—meaning it treats cancer in a specific area rather than the whole body.



Learn more about Y-90 and find a treatment center near you.

Important Safety Information

TheraSphere Microspheres are small radioactive glass beads that treat liver cancer. With all medical procedures, there are risks associated with the procedure and the use of the device. Although the radioactivity continues to go down over time, the glass beads will remain permanently in your liver. The risks include but are not limited to • Bleeding from the stomach or intestines • Fatigue (feeling very tired) • Fever • Infection • Loss of appetite • Mild abdominal discomfort • Nausea • Radiation damage to other locations (including but not limited to lungs, gallbladder, stomach, intestines) • Stomach or intestinal ulcer • Temporary changes in liver and blood tests • Vomiting. Rarely the treatment may cause worsening of your liver function that could lead to liver failure and death. Tell your doctor if side effects continue or get worse. Be aware that some side effects may last longer or, rarely, become permanent. Everyone responds differently to their treatment. These are not all the possible side effects you may feel. Contact your doctor if you experience any side effects. Be sure to talk with your doctor so that you thoroughly understand all of the risks and benefits associated with the use of the device. 97574929