

# INTERVENTIONAL ONCOLOGY

**Medicine**  
*without limits*

**LVI**

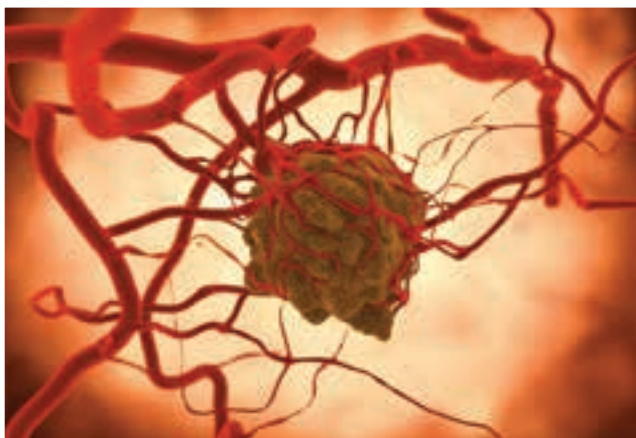
LAKELAND VASCULAR

INSTITUTE

# NEW OPTIONS FOR PRIMARY AND METASTATIC CANCER TREATMENT

Tumors in the liver can be primary (contained within the liver only) or secondary (metastatic or having spread from another area of the body to the liver). Once there, the cancer cells may grow for months or years before they are detected. The most common sources of metastatic liver cancer are from tumors of the colon and rectum, although they can also happen as a result of breast, esophageal, stomach, pancreatic, lung, kidney and skin cancer.

Surgical removal of liver tumors offers the best chance for a cure. Unfortunately, this may not be possible because the tumors have become too large, or they have grown into major blood vessels or other vital structures. Sometimes, many small tumors are spread throughout the liver, making surgery too risky or impractical. In fact, surgical removal is not possible for more than two-thirds of primary liver cancer patients and 90 percent of patients with secondary liver cancer.





## OUTPATIENT CENTER

Some patients can now have their interventional oncology procedures performed in our convenient outpatient center in Lakeland.

In addition to easier access and a more patient-focused environment, they may be afforded a lower risk of infection as well as lower overall costs for their procedure and care.

# LVI

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I N S T I T U T E

OUTPATIENT CENTER



# NEW AND MINIMALLY INVASIVE OPTIONS

Tumors need a blood supply, which they actively generate, in order to feed themselves and grow. As vascular experts, the interventional radiologists at Lakeland Vascular Institute are uniquely skilled in using the vascular system to deliver targeted treatments via a catheter throughout the body. In treating cancer patients, our interventional radiologists use non-surgical localized techniques to attack the cancerous tumor from inside the body without medicating or affecting other parts of the body. These techniques include:

**Embolization** – A procedure to cut off the blood supply feeding the tumor, using medications or synthetic materials called embolic agents.

**Radioembolization** – Also referred to as “Y-90” radioembolization, this procedure uses special microparticles to deliver targeted radiation to the tumor—in addition to cutting off its blood supply.

**Chemoembolization** – Similar to radioembolization, this technique uses microparticles coated with chemotherapy drugs instead of radiation.

**Microwave ablation** – This procedure uses heat generated by electromagnetic waves to directly destroy tumor cells.

**Cryoablation** – A treatment that uses an extremely cold gas to “freeze” tumors in order to destroy them.

**Osteocool** – A new ‘cooled’ radiofrequency (RF) ablation technology that uses high-frequency energy to destroy cancer in patients with painful bone and spine metastases. This is purely a palliative treatment and can be done with or without kyphoplasty.

*Each of these techniques is very precise, delivering targeted treatment to the tumor while minimizing damage to healthy surrounding tissue. Since every patient is different, the procedure we use depends on your unique circumstances.*



## VASCULAR ACCESS

For patients who require chemotherapy, LVI provides port placement services. A port is a sterile plastic tube, temporarily placed in the patient, to allow medication to be directly delivered into the bloodstream. This eliminates the stress of repeated needle sticks and provides a painless way to draw blood when needed.



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# LAKELAND VASCULAR INSTITUTE MEDICINE WITHOUT LIMITS™

Interventional radiology (IR) represents an exciting new frontier in medicine. Today's IR therapies are more precise, less invasive and more effective than ever...providing additional options to treat disease and restore your patients to optimal health.

At the Lakeland Vascular Institute, we do so much more than treat vascular disease. We use the body's vascular system—along with state-of-the-art imaging guidance—to reach the source of the problem and deliver precisely targeted therapy. Cancerous tumors. Spine fractures. Abdominal aortic aneurysms. Uterine fibroids. Obesity. And of course, vascular disease and access. These and many other health conditions can be treated faster, less expensively and with greater safety and accuracy than ever before.

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