

NanoKnife™ Minimally Invasive Treatment

THE MOST ADVANCED TECHNOLOGY AT THE REGION'S MOST SPECIALIZED CANCER CENTER

Sylvester Comprehensive Cancer Center/UMHC – University of Miami Hospital & Clinics (Sylvester) combines highly specialized expert cancer care with state-of-the-art technology. From diagnosing and staging cancer, to treatment and follow up, at Sylvester/UMHC power meets precision.

Our interventional radiology experts use one of our newest weapons against cancer – NanoKnife™. Sylvester/UMHC – is the first provider in Florida and one of only a handful in the world to provide this new treatment for destroying soft-tissue tumors, including those that have spread to the liver, kidneys, and lungs.

WHAT IS NANOKNIFE?

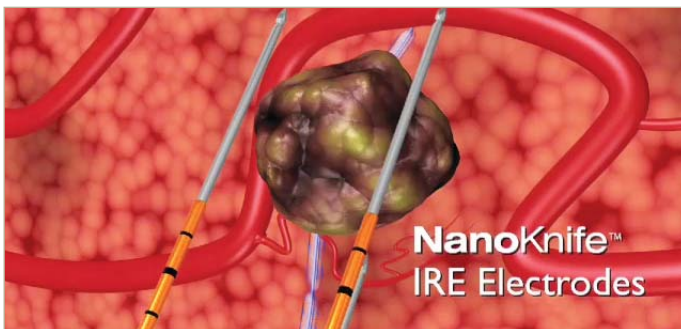
NanoKnife is a minimally invasive cancer treatment that uses a targeted approach to treating hard-to-reach tumors at the cellular level. It relies on the body's natural healing ability to replace cancer cells once they are destroyed, so it leaves almost no scarring.

NanoKnife works by applying electrical energy directly into tumors. This opens the cell walls of the tumor; the cancer cells die; and healthy tissue remains unharmed. NanoKnife serves as an alternative to thermal ablation which kills cells with extreme heat or cold.

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HOW DO WE USE NANOKNIFE?

With the patient under general anesthesia, and using a CT scan or ultrasound imaging to guide them, Sylvester/UMHC's interventional radiologists insert electrodes on or near the tumor. Once the electrodes are placed, the NanoKnife generator sends a series of short, intense electric pulses directly to the tumor.



Benefits of NanoKnife

- Physicians can treat inoperable tumors.
- Patients undergo general anesthesia and experience little pain following the procedure.
- Treatment requires only a brief hospital stay – most cases only require overnight observation.
- Because it causes fewer side effects, NanoKnife treatments can be repeated if new lesions develop.

WHEN CAN WE USE NANOKNIFE?

NanoKnife offers an effective treatment option for small tumors – usually less than five centimeters – which are considered inoperable or where radiation therapy is not advised. It can be used for both primary tumors or for tumors that have spread from cancer in other parts of the body (metastatic tumors, or “mets”).

NanoKnife is FDA approved for use in soft tissue.* However, at Sylvester our physicians currently limit NanoKnife's use to tumors that develop in specific organs including the liver, kidneys, and lungs.

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In addition to leading-edge technology, patients at Sylvester benefit from our site-based approach to cancer care, where physicians specialize in specific types of cancer based on the site in the body where the cancer starts. Sylvester/UMHC patients also have access to cancer treatments still in the research or clinical trial phase, some of which are available nowhere else in the region.

For more information about interventional radiology at Sylvester/UMHC, including NanoKnife, or to schedule an appointment, call 305-243-4062 or toll-free at 1-866-243-3444 or visit www.sylvester.org.

*Use of NanoKnife in organs is considered off-label.