

OHC IS AT THE FOREFRONT OF IMMUNOTHERAPY WITH CAR T-CELL IMMUNOTHERAPY

Chimeric antigen receptor T-cell therapy (CAR-T) is one of the most exciting and promising cancer treatment breakthroughs in recent years. It has shown dramatic results. Many patients who had lost all hope are now in remission and enjoying life. OHC is the first and only independent adult cancer practice in the region to offer CAR-T to adults with cancer.

CAR-T uses genetically engineered immune T-cells that recognize specific proteins on tumor cells.

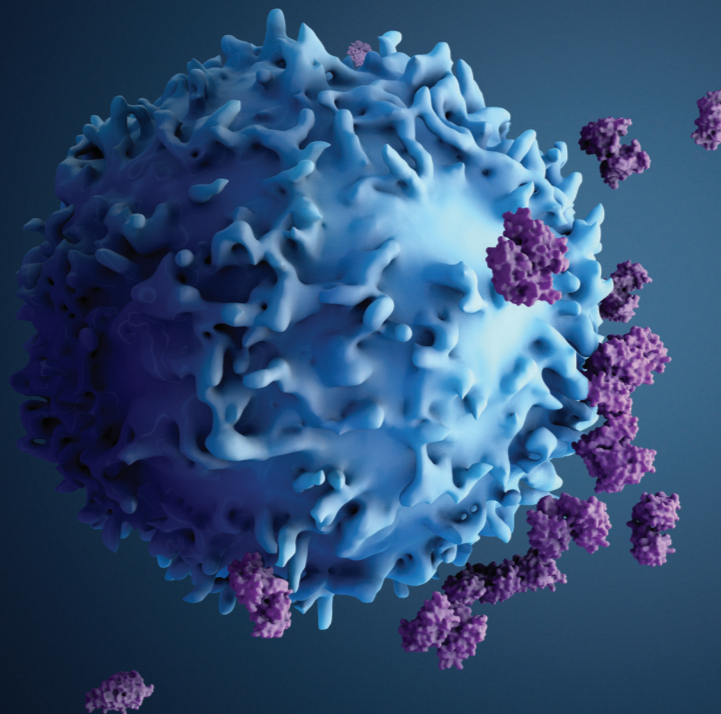
- Thousands of T-cells are taken from the patient and modified in a lab to produce special receptors on their surface that recognize and kill cancer cells.
- The modified cells are multiplied until there are millions and then infused back into the patient through an IV.
- The cells continue to multiply on their own in the patient's body. These cells will recognize and kill cancer cells and help guard against recurrence.

CAR-T is available at OHC for patients with certain aggressive blood cancers. As the first – and most experienced – adult cancer practice in the region to offer CAR-T, OHC researchers offer CAR-T clinical trials to evaluate an expanded use of the ground-breaking treatment, with the goal of making this life-changing treatment available for patients with other types of cancer including solid tumors. To learn more about CAR-T therapy, immunotherapy, or for a second opinion, please call OHC at 1-888-649-4800 or visit ohcare.com.

ABOUT OHC

At OHC, the search for new treatments is relentless, the drive to provide superior care runs deep and the fight against cancer is personal. Our independent, physician-led practice is recognized for going beyond clinical excellence, providing unrestricted personal support and genuine emotional caring in neighborhood locations throughout the region.

OHC has been fighting cancer on the front lines for more than 35 years. At its heart, our approach to cancer care is simple – we treat you like family and surround you with everything you need so you can focus on what matters most: beating cancer.



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1-888-649-4800 or visit ohcare.com.

IMMUNO- THERAPY

Cancer treatment that helps the body's own
immune system find and attack cancer cells



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WHAT IS IMMUNOTHERAPY?

Immunotherapy is a type of cancer treatment that helps the body's own immune system find and attack cancer cells. This can be done by either stimulating your immune system to work harder and smarter or by giving you immune system components, such as man-made immune system proteins.

HOW DOES IMMUNOTHERAPY WORK?

One reason that cancer cells thrive is because they can hide from your immune system. Immunotherapy prevents the cancer cells from hiding, so the immune system can do one of the following: stop or slow the growth of cancer cells, stop the cancer from spreading to other parts of the body, or destroy cancer cells.

There are different types of immunotherapy and each works in a different way.

- **Monoclonal antibodies:** These medications work by targeting something found on the surface of the cancer cell, "marking" that cell to be destroyed by the immune system. These medications may also work by blocking a "receptor" found on cells that is important to growth.
- **Cancer vaccines:** Like other vaccines we receive, cancer vaccines are comprised of cells that have been modified in the lab to direct an immune response. They primarily function either to prevent disease or to treat the cancer directly.
- **Adoptive T-cell transfer:** This therapy encourages the body's T-cells to fight cancer. There are two types of this treatment. The first removes T-cells directly from a patient's tumor, produces large quantities of these cells outside the body and then re-infuses them back to the patient. The second method also

removes T-cells from the patient, but the cells are then enhanced in the lab with new receptors. These receptors target specific antigens in the patient's cancer cells, stimulating the immune system.

- **Immune checkpoint inhibitors:** These medications block what we call receptors, which allow the cancer to grow. Once the receptors are blocked, the body's immune system T-cells go to work, naturally finding and killing cancer cells.

HOW IS IMMUNOTHERAPY GIVEN?

Immunotherapies may be given as a pill, into a vein (intravenously), or by injection, either under the skin or into a muscle. They may also be given directly into a body cavity to treat a specific site. For example, bladder cancer treatment can be administered into the bladder.

WHAT IS THE DIFFERENCE BETWEEN CHEMOTHERAPY AND IMMUNOTHERAPY?

Chemotherapy is a cancer treatment using drugs that kill cancer cells directly. Chemotherapy attacks all rapidly-dividing cells – not just cancer – that it can locate within the body, effectively targeting fast-growing tumors.

Immunotherapy is a cancer treatment that helps the body's own immune system fight cancer.

Immunotherapy enables immune system cells to recognize, target and eliminate cancer cells throughout the body.

WHO IS ELIGIBLE FOR IMMUNOTHERAPY?

With each new day, comes a new use for immunotherapy. OHC doctors are using immunotherapy to treat many types of cancers, and every day the list continues to grow. Ask your doctor if immunotherapy is now a treatment option for you.

IMMUNOTHERAPY AND CLINICAL TRIALS

A new era of immune-mediated treatments was ushered in with the approval of the first immunotherapy drug, Yervoy, in 2011 for malignant melanoma. Rapid advances in immunotherapy have led to promising and well-tolerated outcomes in patients with a variety of cancers. All of these advancements have been possible thanks to clinical trials.

OHC researchers have helped lead to the FDA approval of many of today's immunotherapy drugs. This has positioned OHC at the forefront of new treatments for use with more types of cancers. It also provides patients here in our region with early access to the newest, most promising treatments. If you are interested in participating in a clinical trial, or for more information, talk with your OHC care team or visit ohcare.com.

To learn more about immunotherapy or for a second opinion, please call OHC at 1-888-649-4800 or visit ohcare.com.