RCCA New Jersey

CAR T-Cell Therapy Webpage Content

12/18/20

**Keyword:**

CAR T-Cell Therapy

**Target Web Page:**

<https://centraljerseyrcca.com/services/clinical-trials/>

**Title Tag** (40/60 characters**):**

CAR T-Cell Therapy | RCCA Central Jersey

**Meta Description Tag** (69/160 characters**):**

Learn about CAR T-Cell Therapy and how it’s used for cancer treatment.

CAR T-Cell Therapy at RCCA Central Jersey

*A breakthrough approach to cancer care*

At RCCA Central Jersey, we are rooted in providing the highest standard of personalized care for our patients while offering the latest in leading-edge cancer treatments. One of those breakthrough treatments is CAR T-cell therapy, for patients with blood cancers and disorders, providing hope to so many.

**What is CAR T-Cell Therapy?**

CAR T-cell therapy is an advanced immunotherapy that works with your own immune system cells to fight cancer within your body. T-cells are extracted from your blood through a standard blood draw then altered in a laboratory to add a chimeric antigen receptor (CAR). This specific gene works as a special receptor to bind to a precise protein on your cancer cells. From there, T-cells with CAR are grown and passed back into your bloodstream through infusion. Once in your body, the modified T-cells with CAR begin to kill the cancer.

**What types of cancer are treated with CAR T-Cell Therapy?**

Currently, the FDA has approved the following conditions for CAR-T cell therapy in adult patients:

* Non-Hodgkin lymphoma
* Diffuse large B-cell lymphoma (DLBCL)
* Primary mediastinal large B-cell lymphoma
* High grade B-cell lymphoma
* Transformed follicular lymphoma
* Mantle cell lymphoma

**What does treatment look like?**

CAR T-cell therapy is a 6-step process that begins with an evaluation.

**1.**     **Initial Evaluation:** This will include preliminary testing and screenings to determine if CAR T-cell therapy is appropriate for your specific diagnosis and care.

**2.**     **Blood Collection:** T-cells are extracted from your blood through a process that removes one (or more) components from the blood. In this case, the component will be T-cells. Once the T-cells are successfully isolated and extracted, the remaining blood is returned to your body. This process typically takes 2-3 hours and will require pre- and post-procedure steps.

**3.**     **Engineer and Modification:** Your extracted T-cells go through the genetic modification process to add in CAR. Once modified, they are grown in the lab until there are millions of modified CAR T-cells. Once there are enough T-cells for your infusion procedure, the cells are frozen until treatment.

**4.**     **Conditioning:** Before beginning CAR T-cell therapy, many patients go through a round of chemotherapy, known as conditioning. If required, this step will be included (or excluded) in your determined treatment plan during the evaluation stage.

**5.**     **Modified T-Cell Infusion:** This is a one-time infusion that may require hospitalization. Much like a standard blood transfusion, a T-cell infusion can take anywhere between 30 minutes to 2 hours.

**6.**    **Infusion Recovery**: Infusion recovery typically takes 2 to 3 months. The first 30 days is most critical in evaluating risk, complications, side effects and overall success rate. Regular follow up appointments will be a necessary part of the infusion recovery process until you are fully healed from the procedure.

**What are the side effects CAR T-Cell Therapy?**

There can be significant side effects as CAR T-cells acclimate to your body and work together with your immune system to combat cancer cells throughout your body. That’s why it’s critical you have our experienced team of physicians monitoring and navigating your care.

Some side effects may include:

·       Cytokine Release System (CRS)

·       Fever

·       Low blood pressure

·       Severe Headaches

·       Seizures

·       Loss of B Cells that can lead to a higher risk of infection

**Clinical Trials at RCCA Central Jersey for CAR-T Cell Therapy**

At RCCA-CJ, we innovate today to create the standardized cancer treatments of tomorrow. Through our advanced [clinical trials](https://centraljerseyrcca.com/services/clinical-trials/) and breakthrough therapies, we create new hope for patients who may be resistant to chemotherapy.

**Below are the CAR T-cell studies that RCCA Central Jersey participates in.** We are currently enrolling new patients. Contact our [clinical trials](https://centraljerseyrcca.com/services/clinical-trials/) department at 732-783-5183 to discuss CAR T-cell therapy clinical trial options and begin the process to determine your eligibility.

Phase | 2

Title  | A Safety Trial of Lisocabtagene Maraleucel (JCAR017) for Relapsed and Refractory (R/R) B-cell Non-Hodgkin Lymphoma (NHL) in the Outpatient Setting

URL

<https://clinicaltrials.gov/ct2/show/NCT03744676?term=NCT03744676&draw=2&rank=1>

**\*information should look like this  **