

# CAR-T Chimeric Antigen Receptor T-Cell Therapy

Welcome to Our  
**HOSPITAL**

## 1 Leukapheresis

This is a process to extract T cells from your blood. T cells protect the body from infections and fight against cancer. When this is done you can go home and the T cells are frozen and sent for reprogramming in a laboratory. You can bring games, books or anything else for your stay. You can also bring a family member.

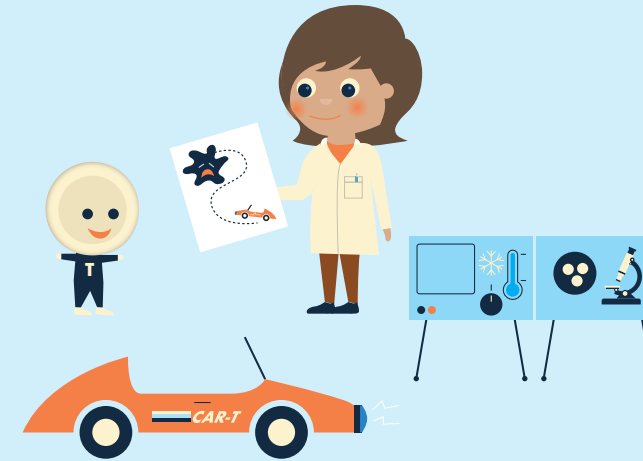


Hi, I'm a T cell. T cells are a type of white blood cells. We protect your body from infections and fight cancer.

## LAB

## 2 Reprogramming of Cells

In the laboratory scientists give the T cells special instructions so they can find and destroy the cancer cells. The T cells are mixed with a virus that inserts a new gene. The new gene contains the instructions to help the T cells recognise the cancer cells. Once the cells are reprogrammed, they are called CAR-T cells.



## 8 Time to Go Home!

The doctors and nurses at the hospital will look after you until you are well enough to go home. You'll come back for check ups and to remove your line.



## 7 Recognition of Cancer Cells

In your body, the CAR-T cells can now recognise, target and destroy the cancer cell much better than they could before. Tell the doctors or nurses how you feel and they will look after you. Can you see how the CAR-T cells are targeting the cancer cells?



## 6 Cell Infusion

The CAR-T cells are given through your central line just like any other transfusion.

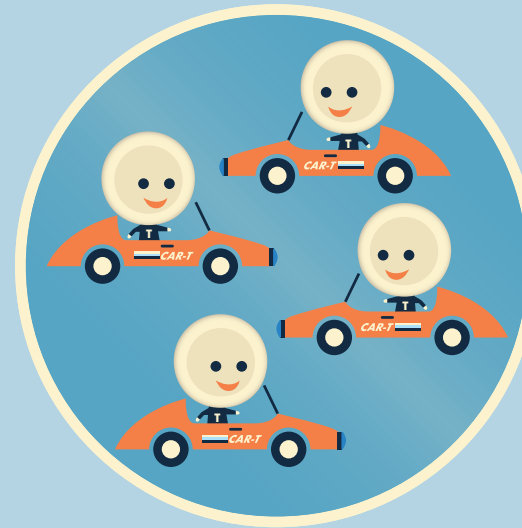
## 5 Lymphodepleting Chemotherapy

This treatment helps reduce the level of white blood cells in your body to allow the new CAR-T cells to take over.



## 3 Expansion

It is good to have many CAR-T cells fighting for you. To increase the number of CAR-T cells for treatment, they undergo a process called expansion. That means there will be more CAR-T cells targeting the cancer cells.



## 4 Quality Check

Before the CAR-T cells are released and sent back to you, thorough tests are performed to make sure that the process has been completed successfully. The CAR-T cells are now ready for their mission!

