MMUNOTHERAPY

THE FACTS | CELL THERAPY

A therapeutic approach where cells are used to treat cancer. One popular form of cell therapy is the use of CAR T cells.



MECHANISM OF ACTION -

An immunotherapy approach called adoptive cell transfer (ACT)

WHERE...



a patient's T cells



Chimeric Antigen Receptor T-cell. The engineering of a patient's T cells to treat their cancers.

are modified in a laboratory



so they attack cancer cells



TILS

(tumor infiltrating lymphocytes: immune cells found in cancers)



CARs* (called CAR T-cell therapy) the one that has advanced the furthest in clinical development

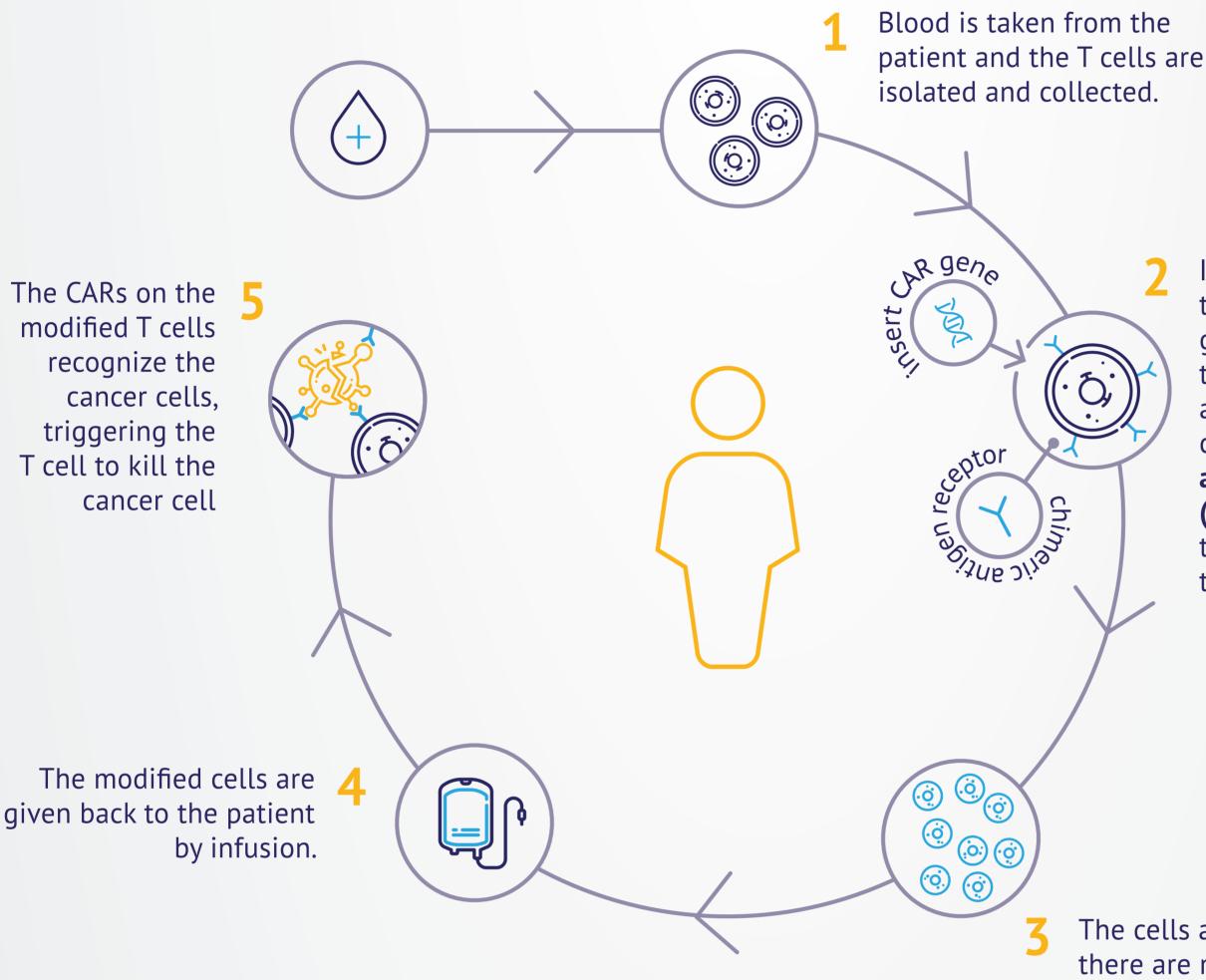
TYPES OF CELLS

HOW IT



CAR T-cell therapy is being studied in the treatment of some types of cancer.

WORKS -



In a laboratory setting, the T cells are genetically modified to carry the gene for a special receptor called a chimeric antigen receptor (CAR), that allows the T cells to bind to the cancer cells.

The cells are multiplied until there are millions of these new disease-attacking cells



PAST

was restricted to small clinical trials, largely in patients with advanced blood cancers.

Treatment up until just recently



NOW

The treatments have captured the attention of researchers and the public with remarkable responses in some patients for whom all other treatments had stopped working.

HOW IS IT

IN CANADA -



approved by Health Canada.

To date, only **one** [1] CAR-T cell therapy has been

INDICATIONS -WHAT CANCERS -

Blood cancers



Acute Lymphoblastic Leukemia (ALL) (paediatric only)



Advanced Lymphomas (DLBCL) Chronic Lymphocytic Leukemia*



Multiple Myeloma*

*While CAR-T cell therapy is available to blood cancers like ALL and DLBCL, it continues to broaden to other indications based on new clinical trials.

COMMON SIDE EFFECTS -



HIGH FEVER



FATIGUE



HYPOTENSION



RENAL TOXICITY



PULMONARY



CYTOKINE RELEASE



EDEMA



SYNDROME



BRAIN TOXICITY



LOW WHITE BLOOD

CELL COUNT



LOW RED BLOOD CELL COUNT



Treatments and results may vary by individual. Please discuss with your healthcare team to see if immunotherapy is right for you.