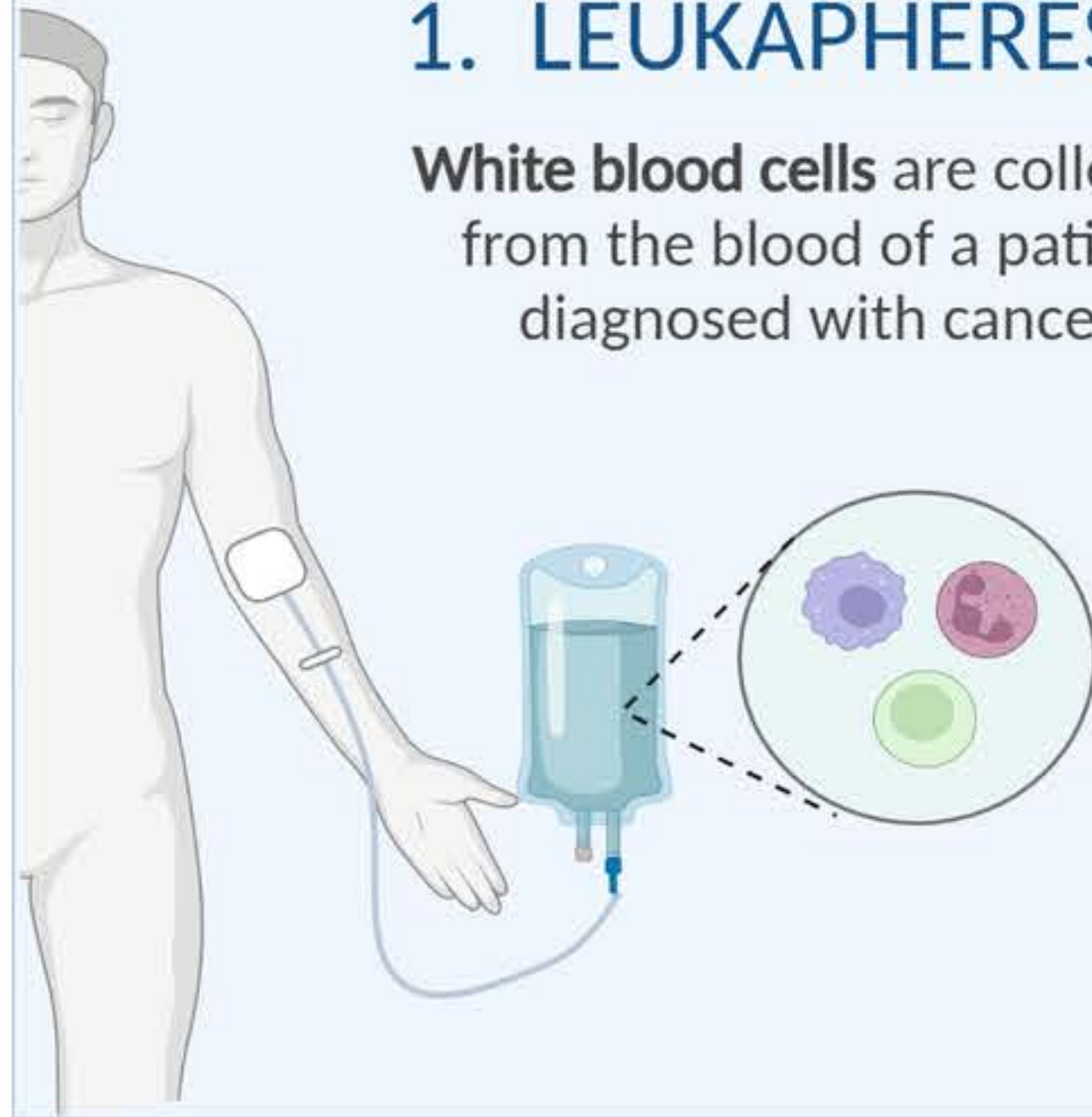


CAR-T cells: a secret weapon in the fight against cancer

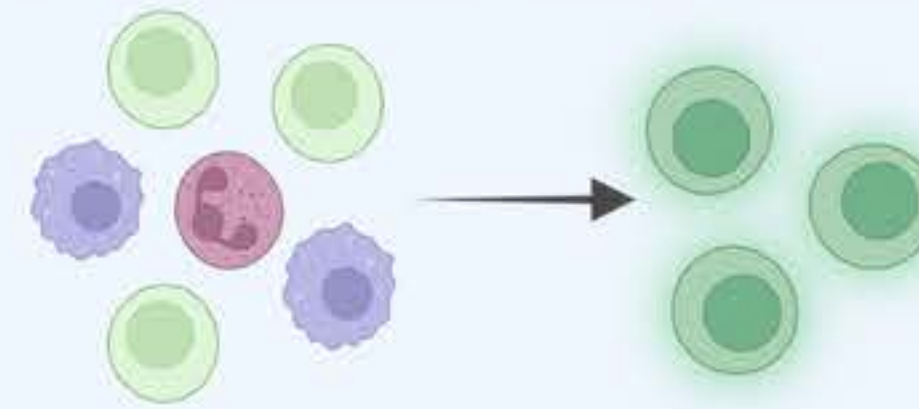
1. LEUKAPHERESIS

White blood cells are collected from the blood of a patient diagnosed with cancer.

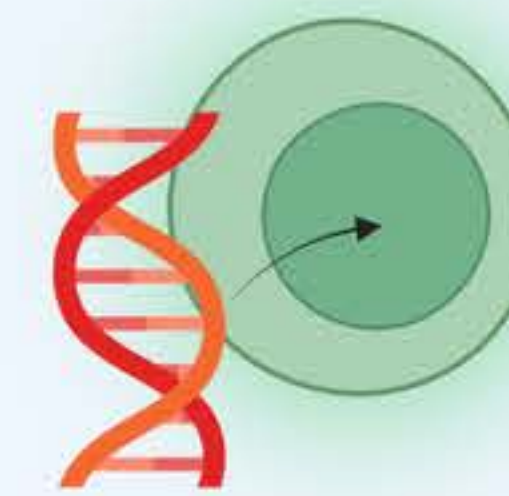


2. MANUFACTURING PROCESS

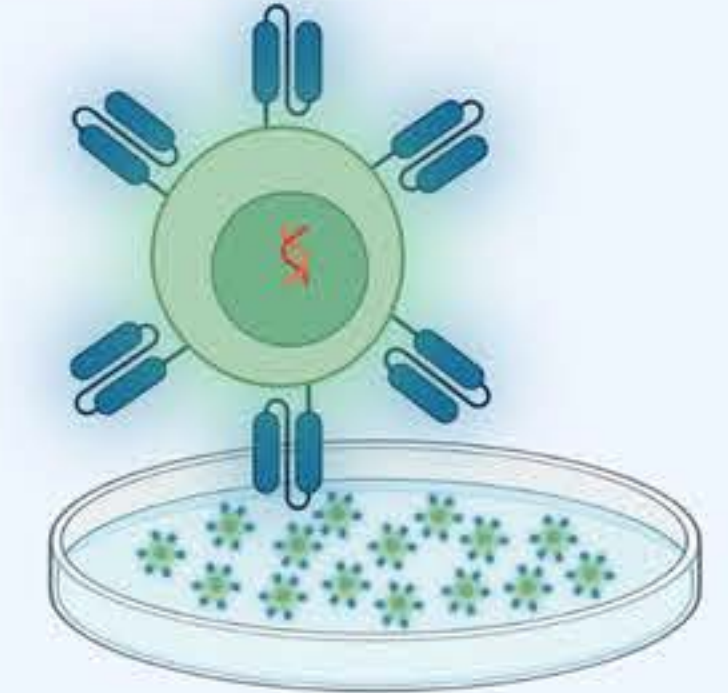
T-cell isolation & activation



CAR gene delivery



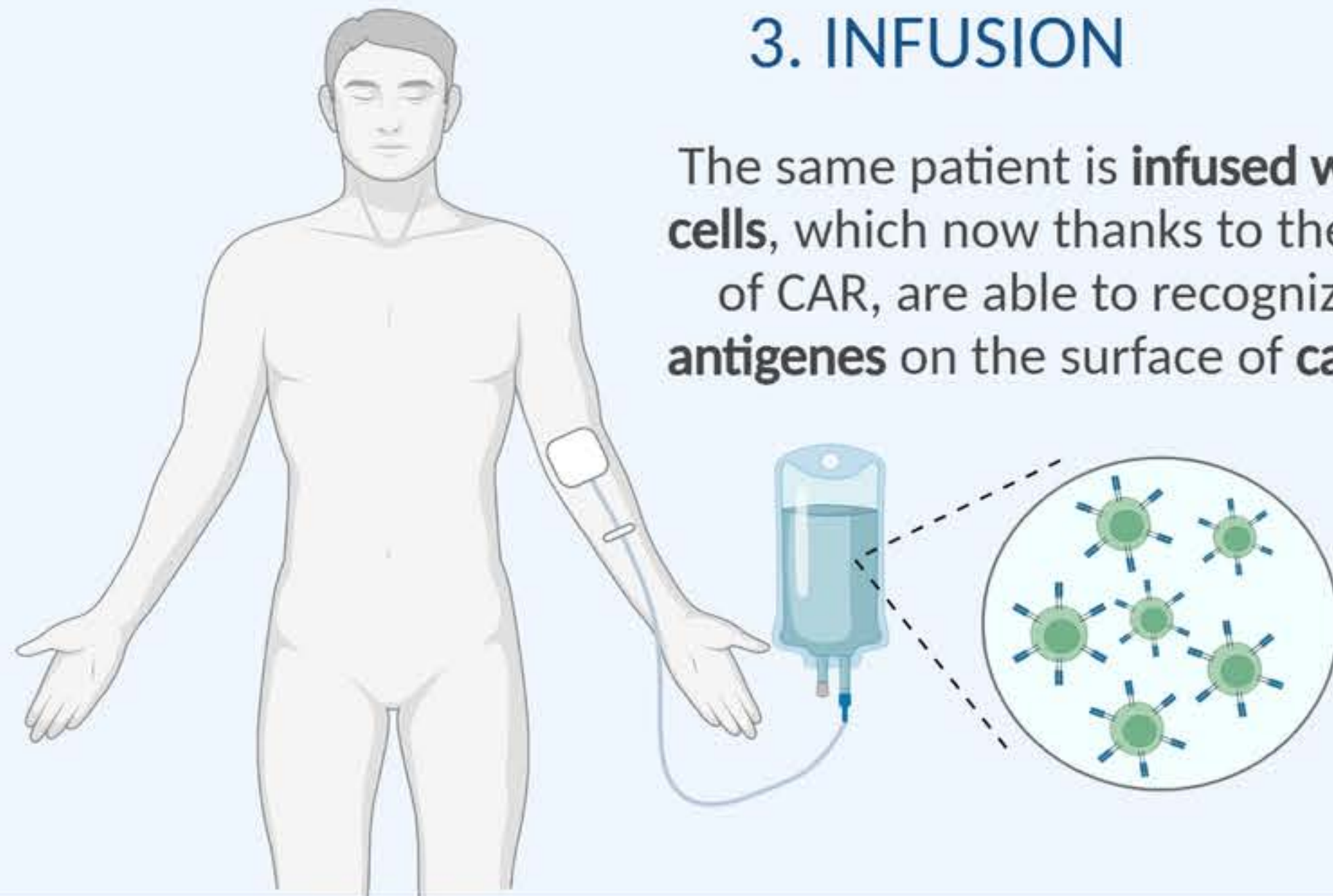
CAR-T cell expansion



T-cells are isolated from the collected white blood cells. Next, they undergo activation and start dividing. Then, **Chimeric Antigen Receptor (CAR)** gene is delivered to the T-cells via viral infection. Infected T-cells start producing CAR and become **CAR-T cells**.

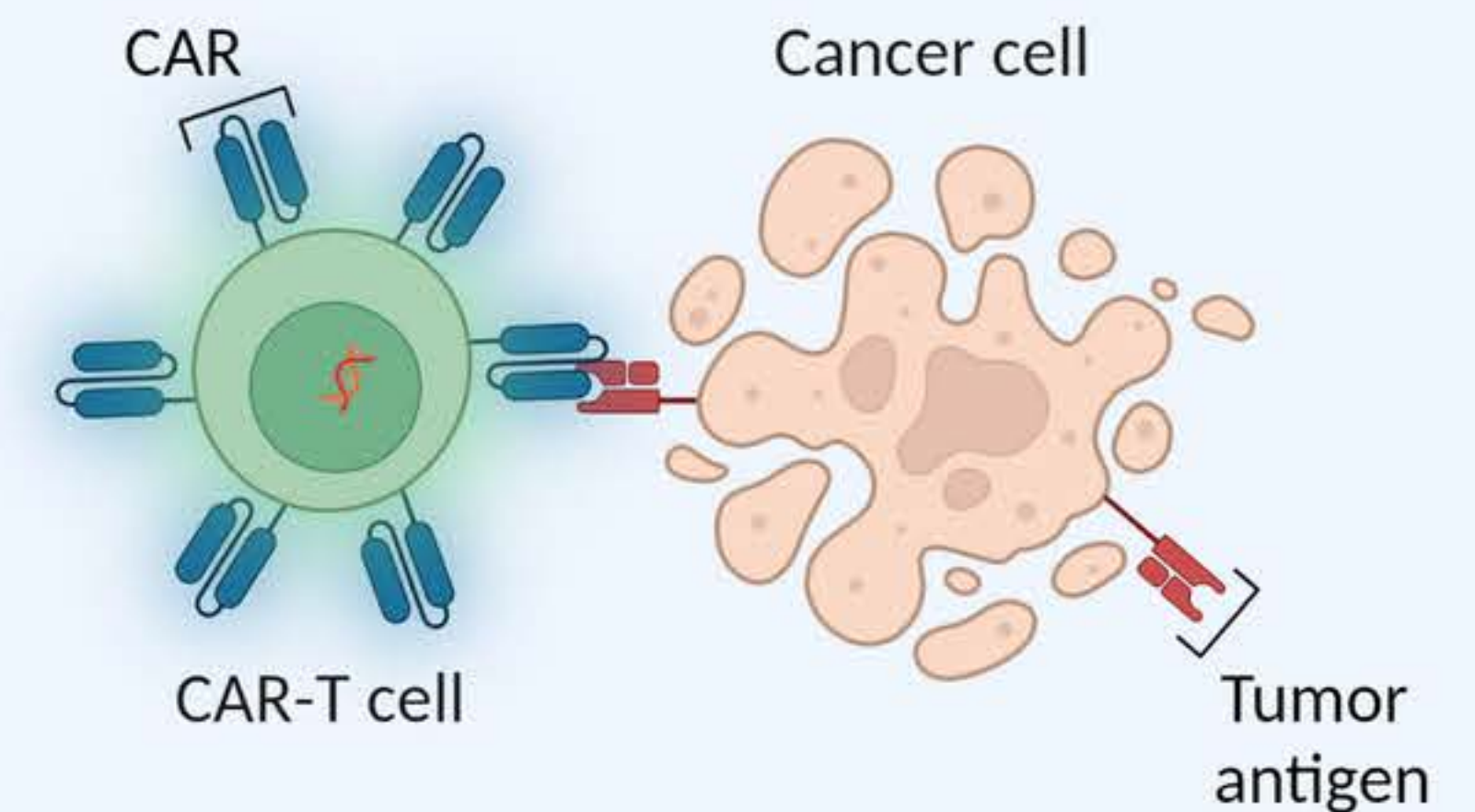
3. INFUSION

The same patient is **infused with CAR-T cells**, which now thanks to the presence of CAR, are able to recognize **tumor antigens** on the surface of **cancer cells**.



4. CANCER TARGETING

CAR-T cells recognize tumor cells what leads to the **death of cancer cells** and to therapeutic effect.



Death of cancer cells