

### Mayo Clinic Minute: What is chimeric antigen receptor-T cell therapy?

	<p>Chimeric antigen receptor-T cell therapy, also known as CAR-T cell therapy, is a personalized treatment giving hope to patients diagnosed with various lymphomas.</p>
<p><b>Madiha Iqbal, M.B.B.S., M.D.</b> <b>Hematology/Oncology</b> <b>Mayo Clinic</b></p>	<p>"Lymphoma in plain terms is essentially a cancer of your immune system."</p>
	<p>Dr. Madiha Iqbal, a Mayo Clinic hematologist and oncologist, says patients who are newly diagnosed with lymphoma are offered a combination of chemotherapy and antibody-based treatments.</p> <p>But for those patients who do not respond to two or more lines of such treatments, CAR-T cell therapy may be an option.</p>
	<p>"Prior to the advent of CAR-T cell therapy, patients who had failed two lines of chemotherapy had a very poor survival of around six months."</p>
	<p>Receiving CAR-T cell therapy can take a few weeks as a patient's T cells, which normally help fight off infections, are collected and genetically engineered to target lymphoma.</p> <p>After a low-dose chemotherapy, the modified cells are infused back into the patient which can then attack and destroy the lymphoma.</p>
	<p>"Patients who had a very poor prognosis can now potentially be cured of their disease."</p>
	<p>For the Mayo Clinic News Network, I'm Alex Osiadacz.</p>