

# CAR T-cell Clinical Research Trials Available for Multiple Myeloma, Non-Hodgkin's Lymphoma, Small Lymphocytic Lymphoma and Chronic Lymphocytic Leukemia

Disease	Trial Number	Name of Trial	Drug & NCT Identifier
CLL/Small Lymphocytic Lymphoma	NSH1226	An Open-Label, Phase 1 Safety and Phase 2 Randomized Study of JCAR017 in Subjects with Relapsed or Refractory Chronic Lymphocytic Leukemia or Small Lymphocytic Lymphoma <b>Inclusion Criteria</b> <ul style="list-style-type: none"> <li>• Age ≥ 18</li> <li>• ECOG PS ≤ 1</li> <li>• CLL with clinically measurable disease</li> <li>• SLL with clinically measurable disease</li> </ul> <b>Exclusion Criteria</b> <ul style="list-style-type: none"> <li>• Known active CNS disease</li> <li>• History of another primary malignancy &lt;2 yrs</li> <li>• Richter's transformation</li> </ul>	JCAR017 NCT03331198
	NSH1216	A Phase 3, Multicenter, Randomized, Open-Label Study to Compare the Efficacy and Safety of bb2121 versus Standard Triplet Regimens in Subjects with Relapsed and Refractory Multiple Myeloma (rrMM) (KarMMa-3) <b>Inclusion Criteria</b> <ul style="list-style-type: none"> <li>• Age ≥ 18</li> <li>• ECOG PS 0 or 1</li> <li>• Received 2 - 4 prior MM regimens</li> <li>• Received prior treatment with daratumumab, a proteasome inhibitor and an immunomodulatory compound containing regimen for at least 2 consecutive cycles</li> <li>• Refractory to the last treatment regimen</li> <li>• Achieved at least a minimal response to at least 1 prior treatment regimen</li> <li>• Has received and failed Bruton tyrosine kinase inhibitor (BTKi) treatment or is ineligible for BTKi treatment.</li> </ul> <b>Exclusion Criteria</b> <ul style="list-style-type: none"> <li>• Active or history of plasma cell leukemia, WM, POEMS syndrome, or amyloidosis</li> <li>• COPD with FEV1 50% of predicted normal</li> <li>• Therapy-based therapeutic for cancer, investigational cellular therapy for cancer, or BCMA targeted therapy</li> <li>• Received an autologous stem cell transplant within 12 wks prior to randomization</li> </ul>	bb2121 NCT03651128
Multiple Myeloma	NSH1170	A Phase 1, Multicenter, Open-Label Study of JCAR017, CD19-Targeted Chimeric Antigen Receptor (CAR) T-Cells, in Relapsed and Refractory (R/R) B-Cell Non-Hodgkin Lymphoma <b>Inclusion Criteria</b> <ul style="list-style-type: none"> <li>• Age ≥ 18 years</li> <li>• ECOG PS between 0 and 1</li> <li>• Relapsed or refractory B-cell NHL or Mantle Cell Lymphoma (MCL)</li> <li>• Previous treatment of at least 2 lines of therapy or 1 line in MCL or after auto HSCT</li> <li>• Archived tumor biopsy tissue available from the last relapse and corresponding pathology report available for disease confirmation, and willing to undergo pre- and post-treatment biopsy if at least one tumor-involved site is deemed accessible at time of screening</li> </ul> <b>Exclusion Criteria</b> <ul style="list-style-type: none"> <li>• CNS only involvement with malignancy-secondary CNS involvement are allowed on study</li> <li>• Active acute or chronic GVHD</li> <li>• Prior malignancy &lt;2 yrs</li> <li>• Active hepatitis B, hepatitis C, or HIV</li> </ul>	JCAR017 NCT02631044
	NSH1207	A Global Randomized, Multicenter Phase 3 Trial to Compare the Efficacy and Safety of JCAR017 to Standard of Care in Adult Subjects with High-Risk, Transplant-Eligible Relapsed or Refractory Aggressive B-Cell Non-Hodgkin Lymphomas (TRANSFORM) <b>Inclusion Criteria</b> <ul style="list-style-type: none"> <li>• Age ≥18 and ≤ 75 at time of consent</li> <li>• ECOG PS ≤ 1</li> <li>• Relapsed or refractory B-cell NHL</li> <li>• Refractory (SD,PD,PR, or CR with relapse before 3 months) or relapsed (CR with relapse on or after 3 months) within 12 months from CD20 antibody and anthracycline containing first line therapy</li> <li>• Must have PET positive lesion(s) at screening</li> <li>• Enough tumor material must be available for confirmatory by central pathology</li> <li>• Secondary CNS involvement is acceptable</li> </ul> <b>Exclusion Criteria</b> <ul style="list-style-type: none"> <li>• Not eligible for HSCT</li> <li>• Previous CD-19 targeted therapy</li> <li>• Planned allo HSCT</li> <li>• Prior malignancy resolved &lt; 2yrs</li> <li>• Treatment with prior gene therapy</li> <li>• History/active hepatitis B, hepatitis C or HIV</li> </ul>	JCAR017 NCT03575351
NHL	NSH1230	A Phase 2 Study of Lisocabtagene Maraleucel (JCAR017) as Second-Line Therapy in Adult Patients with Aggressive B-Cell NHL <b>Inclusion Criteria</b> <ul style="list-style-type: none"> <li>• Age ≥ 18</li> <li>• ECOG PS 0-2</li> <li>• Diagnosis: <ul style="list-style-type: none"> <li>- DLBCL NOS or transformed from follicular lymphoma</li> <li>- High grade B-Cell lymphoma with MYC and BCL and/or BCL6 rearrangements with DLBCL histology (double/triple hit lymphoma [DHL/THL])</li> <li>- Follicular lymphoma Grade 3B</li> </ul> </li> <li>• Previous treatment must include single line of chemoimmunotherapy containing an anthracycline and a CD20 targeted agent</li> <li>• Subjects must be deemed ineligible for both high-dose chemotherapy and HSCT while also having adequate organ function for CAR T-cell treatment</li> </ul> <b>Exclusion Criteria</b> <ul style="list-style-type: none"> <li>• Subjects with central nervous system (CNS)-only involvement by malignancy (subjects with secondary CNS involvement are allowed on study)</li> <li>• Previous CD-19 targeted therapy and/or prior HSCT</li> </ul>	JCAR017 NCT03483103