

CAR-HRSMM

HR Smoldering Multiple Myeloma, CAR-HiRiSMM

Cilta-Cel en HR-SMM

Number of patients = 20 pts

Endpoints

- Primary:
 - To assess the both short-term and long-term **safety and tolerability** of cilta-cel in high risk SMM
 - Proportion of patients with undetectable **MRD rate at 6 months, 12 months,** and thereafter every 12 months **up to 5 years** after cilta-cel administration
- Secondary:
 - Analyse the **overall response rates** as well the different response categories: VGPR, PR, CR and sCR.
 - Assess **mass spectrometry** quantification of M-protein to be correlated with the conventional responses as well as MRD testing.
 - Evaluate the immunogenicity of cilta-cel

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High risk SMM defined as having 1 of the following 3 criteria:

1. **High risk per "20-2-20" criteria defined as presence of any 2 of the following:**

- a) Serum M spike > 2 gm/dL
- b) Involved to uninvolved FLC ratio > 20
- c) Bone marrow plasma cell % > 20%

OR

2. **Total score of ³⁹ using the following scoring system**

- FLC Ratio
 - >10-25 = 2
 - >25-40 = 3
 - >40 = 5
- Serum M Protein (g/dL)
 - >1.5-3 = 3
 - >3 = 4
- BMPC%
 - >15-20 = 2
 - >20-30 = 3
 - >30-40 = 5
 - >40 = 6
- fluorescence in situ hybridization (FISH) abnormality (t(4,14), t(14,16), 1q gain, or del13q = 2

OR

3. **Presence of $\geq 95\%$ of BMPC with an aberrant phenotype** within the BMPC compartment and reduction of at least 25% below the lower normal limit for ≥ 1 uninvolved immunoglobulin isotype. (Only IgG; IgA and IgM will be considered)

Inclusion
Criteria

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Inclusion Criteria

- ECOG ≤ 1
- Have an estimated glomerular filtration rate (eGFR) ≥ 40 mL/min during the screening period.
- Laboratory values obtained < 21 days prior to registration:
 - Total bilirubin ≤ 2.0 mg/dL
 - Aspartate transaminase (AST) ≤ 3 x upper limit of normal (ULN)
 - Alanine transaminase (ALT) ≤ 3 x upper limit of normal (ULN)
 - Hemoglobin ≥ 8.0 g/dL (≥ 5 mmol/L) (without prior red blood cell [RBC] transfusion within 7 days before the laboratory test; recombinant human erythropoietin use is permitted).
 - Neutrophils $\geq 1.0 \times 10^9/L$ (prior growth factor support is permitted but must be without support in the 7 days prior to the laboratory test)
 - Platelets $\geq 75 \times 10^9/L$ (must be without transfusion support in the 7 days prior to the laboratory test)
 - Lymphocyte count $\geq 0.3 \times 10^9/L$

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List of participating sites	Location
Clínica Universidad de Navarra	Pamplona/Madrid
Hospital Universitario de Salamanca	Salamanca
Hospital Universitario 12 de octubre	Madrid
Hospital Clinic de Barcelona	Barcelona
Hospital German Trias i Pujol	Badalona-Barcelona
Hospital Virgen del Rocío	Sevilla
Complejo Hospitalario Universitario de Santiago	Santiago de Compostela
Back up site	
Hospital Universitario Marqués de Valdecilla	Santander