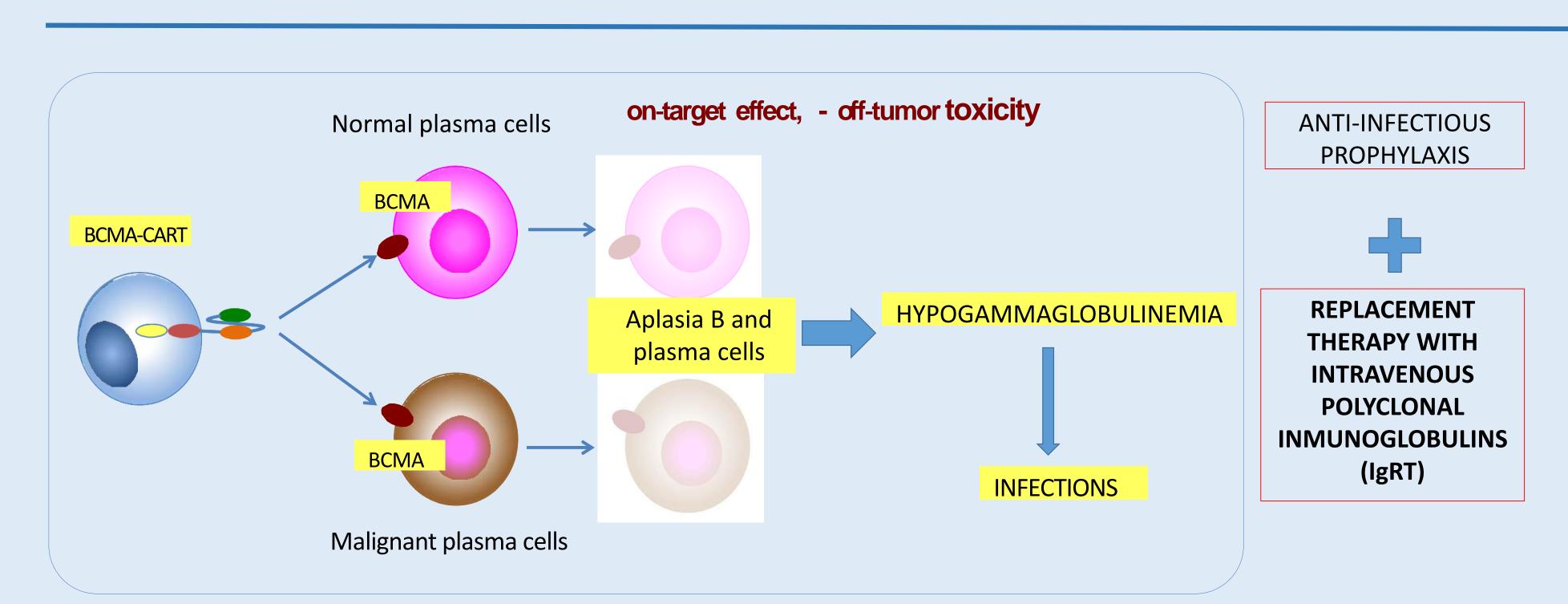
DESCRIPTION OF INMMUNOGLOBULIN REPLACEMENT THERAPY IN MULTIPLE MYELOMA PATIENTS WITH ANTI-BCMA CART Clínica Universidad M. GIRALDEZ, E. MATEO, C. GARCIA PASTOR, A. URRUTIA, M. SERRANO, E. MOLINS eahp=



Background and importance:

The treatment of Multiple Myeloma (MM) with anti-BCMA CAR-T leads to a deficit and dysfunctionality of normal plasma cells that manifests as hypogammaglobulinemia and an increase in infections risk.



Aim and objectives:

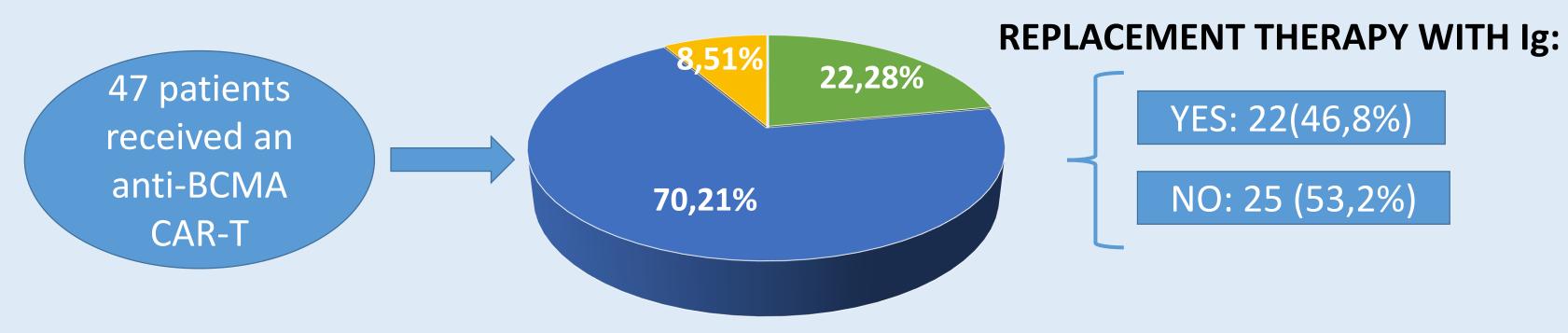
Describe the use of Immunoglobulins (IgG) in patients with hypogammaglobulinemia who have received anti-BCMA CAR-T therapy (ide-cel, cilta-cel, ARI0002) for the treatment of MM in a clinical trial or as compassionate use.

Materials and methods:

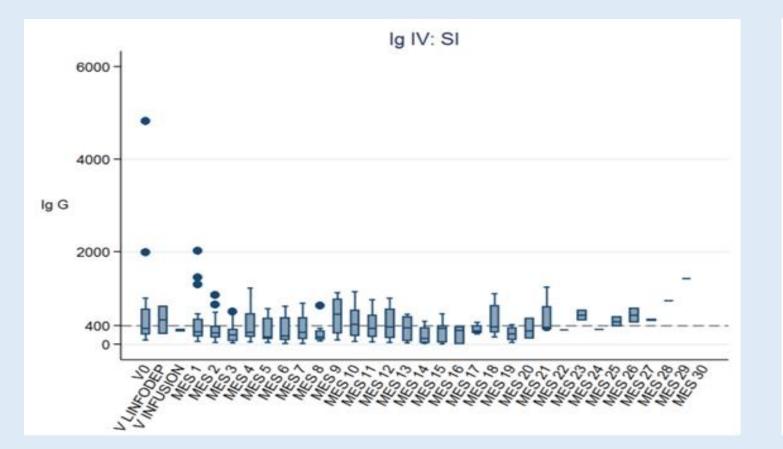
- Single-center
- Observational, retrospective
- An institutional review board (IRB) approved the study.

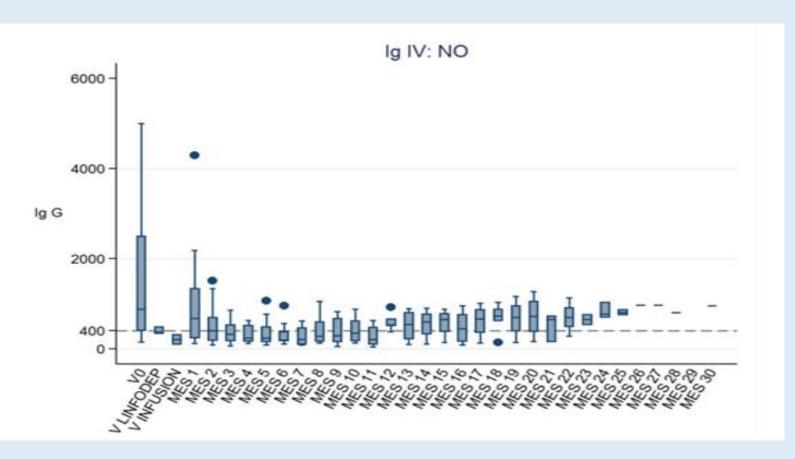
*Hypogammaglobulinemia -> IgG levels < 400 mg/dL, or any IgG level along with infectious events that require treatment with immunoglobulins.

Results:

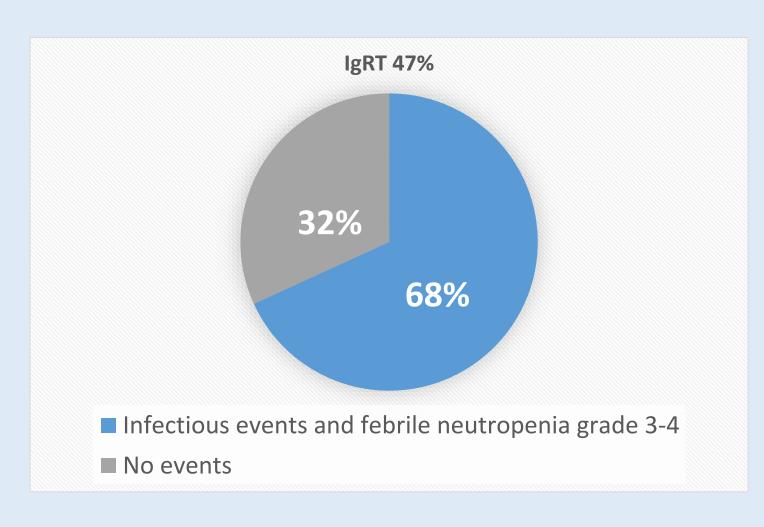


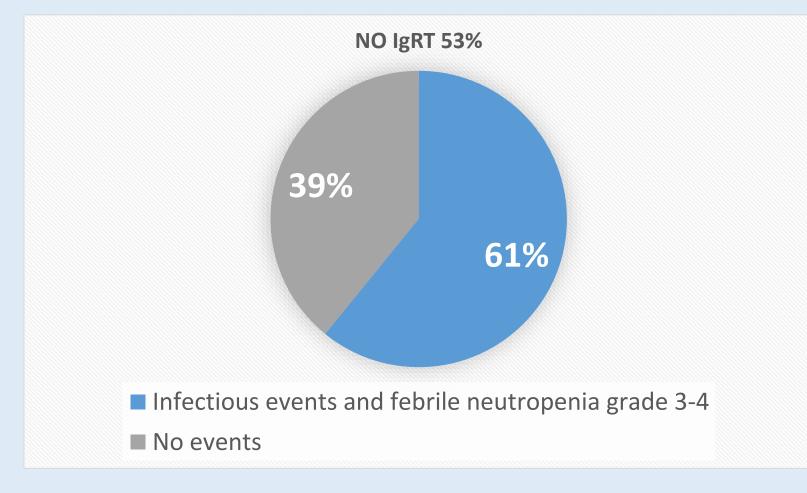
Changes in IgG levels after CAR-T infusión in patients who have (right) and have NOT (left) recibed IgRT:





Rate of infectious events and febrile neutropenia grade 3-4:





- ☐ Plasma IgG levels decreased progressively over time (median nadir month 7= 208 mg/ dL (range 100-465) presenting a recovery around the eighth month postinfusión
- ☐ In the patients who receibed IgRT, the median time until the start of treatment was 123 days (range: 69 to 799)
- ☐ The rate of infectious events and febrile neutropenia grade 3-4 was 68.18% (15/22) in patients who received IgRT and 56% (14/25) in patients who did not receive IgRT (p=0.391)

Conclusion and relevance:

- ☐ These results reveal a period of hypogammaglobulinemia after anti-BCMA CAR T-cell therapy.
- ☐ The role and when to begin IgRT needs further exploration, as in this study has **not** improved the rate of grade 3-4 infectious events in patients who received it.

