Immune monitoring of PNK-007, an allogeneic, off the shelf NK cell in a Phase I study of acute myeloid leukemia

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INTRODUCTION

Background
• Natural Killer (NK) cells are innate immune cells which play an important role in host immune surveillance against pathogenic infection and cell transformation. Multiple studies adaptively translating NK cells in clinical settings have demonstrated the potential of NK cells to induce remissions for hematological indications with a consistent safety profile.
• Celularity has developed a GMP procedure for generating Placenta-derived intermediate Natural Killer cells (PNK-007) from placenta/umbilical cord blood CD34+ cells. This technology platform enables the scalable commercial production of a uniform allogeneic NK cell therapy.
• PNK-007 shows cytotoxic activity against various cancer cell lines and is being evaluated for the treatment of relapsed/refractory AML patients in a Phase I study. Here, we provide translational data monitoring PNK-007 in vivo persistence and phenotypic characterization for patients enrolled in the multicenter CCT-PNK-001-AML study in the context of immune profiling and disease state.

PNK-007 manufacturing process overview

RESULTS

CONCLUSIONS

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