

orrespondence

Autotransplantations Without Cryopreservation

TO THE EDITOR:

The article by Majolino et al¹ describes an autotransplantation program that has been started in Iraq and that could be used as an example by which to start similar programs in other developing countries. Developing a facility to freeze and store hematopoietic cells-blood or bone marrow—is complex and expensive and requires substantial expertise. We studied whether hematopoietic cells could be stored at 4°C in a multicenter analysis of 359 participants from México, Colombia, and Argentina, with plasma cell myeloma (n = 216) and lymphomas (n = 143).² Blood cells were mobilized with filgrastim and collected after a median of two aphereses. Apheresis products were stored at 4°C for a median of 3 d. The median number of mononuclear cells was 31 × 10E+6/kg. median number of CD34-positive cells was 3.6 × 10E+6/kg, and median viability after collection

was 90% after storage. All except one evaluable participant recovered bone marrow function, and there was no late bone marrow failure. Median interval to neutrophils $> 0.5 \times E+9/L$ was 13 d, and to platelets $> 20 \times 10E+9/L$ was 16 d. There was no correlation between the number of storage days at 4°C and viability after storage. nor rates of recovery of neutrophils or platelets. Others have reported similar data.3 Blood cells that were collected for autotransplantation can be stored at 4°C for 6 d, and storing hematopoietic cells at 4°C could expand autotransplantations to centers in developing countries where more complex technical skills and equipment are lacking and/or cost may be an issue. It could also reduce complexity and cost at centers that presently freeze cells for an autotransplantation.

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REFERENCES

- Majolino I, Mohammed D, Hassan D, et al: Initial results of peripheral-blood stem-cell mobilization, collection, cryopreservation, and engraftment after autologous transplantation confirm that the capacity-building approach offers good chances of success in critical contexts: A Kurdish-Italian cooperative project at the Hiwa Cancer Hospital, Sulaymaniyah. J Glob Oncol, 2017
- 2. Kardduss-Urueta A, Gale RP, Gutiérrez-Aguirre CH, et al: Freezing the graft is not necessary for autotransplants for plasma cell myelomas and lymphoma. Bone Marrow Transplant, 2018
- 3. Gale RP, Ruiz-Arguelles GJ: The big freeze may be over. A contracting universe for cryopreservation? Bone Marrow Transplant XXXX [epub ahead of print on XXXX]