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Flashback 1997: Collection of hematopoietic progenitor cells by peripheral blood apheresis after stimulation with G-CSF

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Summary

Two videos were produced in 1997 as educational material for patients and blood donor volunteers who considered undergoing hematopoietic progenitor cell (HPC) collection by peripheral blood apheresis. The 6 minute videos featured the discussion between a patient and a physician, also using animations for explanation, in English and in Spanish. The HPC collection by peripheral blood apheresis after stimulation with granulocyte colony-stimulating factor (G-CSF), a rather novel procedure at the time, has become a widely used procedure today. Our legacy videos exemplify how little has changed in the basic information over 20 years, thus documenting the consistency and implying the safety of this well-established high-end transfusion medicine procedure. HPC collections by peripheral blood apheresis enable transplantations that often prove life-saving. These legacy videos may still be used for patient and blood donor education today.

Legacy Videos in Transfusion Medicine

Legacy videos were mentioned as one feature of Transfusion Clips, when a section for videos was inaugurated in 2012.¹ Here we present the first example of this kind: Video Clip S1 features the English version and Video Clip S2 the Spanish version (available as supporting information in the online version of this publication). Examples for patient or donor interaction with a physician were recorded at a blood collection facility, state-of-the-art for 1997 (a transcript for the English and Spanish versions of the video is provided in Appendix S1, available as supporting information in the online version of this publication).

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Authorship contribution: WAF coordinated and wrote the manuscript. KMB was the Executive Producer of the 1997 videos and monitored the formatting for online presentation. HGK supervised the SBB student's video project and was the physician in the English video version. All authors reviewed and edited the manuscript.

Web Resource

NIH Clinical Center, Specialist in Blood Bank Technology Program (<http://clinicalcenter.nih.gov/dtm/research/sbb.html>)

Supporting Information

Additional Supporting Information may be found in the online version of this article at the publisher's website:

Video Clip S1. Peripheral blood stem cell collection procedure. English version.

Video Clip S2. Procedimiento de recaudación de células madre del flujo sanguíneo periférico. Spanish version.

Appendix S1. Audio transcripts in English and Spanish versions.

The outreach using this video material was limited in 1997 by its video cassette format, the only commonly available route for dissemination at the time. One cause for legacy videos is the documentation of an aspect relevant to transfusion medicine in a historical context.

HPC collection by peripheral blood apheresis in 1997 versus 2017

The publication of these videos as Transfusion Clips today enables a wider dissemination and allows us to compare the approaches with the benefit of 20 years' worth of hindsight. In fact, surprisingly little has changed in the information for donors since: the videos were based on the applicable Standards, Recommendations and publications^{2,3} in 1997. Fast forward 20 years, and we find these guidelines for donor information essentially unchanged. Reports on donor experience, which published in the interim,^{4,5} imply only minor adjustments in patient and donor information, if any. These observations should be reassuring to the blood donors of HPC products by peripheral blood apheresis and as well as reaffirm patient safety, since the approach seems to have stood the test of time. We conclude that the videos may still be instructive for, among others, junior transfusion medicine specialists and health care providers who are not routinely involved in HPC apheresis and be used as a resource in patient and blood donor education today.

Supplementary Material

Refer to Web version on PubMed Central for supplementary material.

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