

Accepted Manuscript

An Overview of Hematopoietic Stem Cell Transplantation

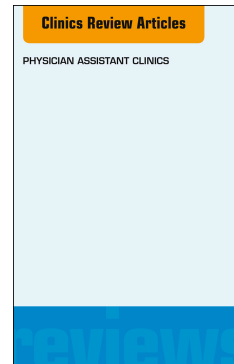
Carolyn M. Canonica, MMSc, PA-C

PII: S2405-7991(16)30019-6

DOI: [10.1016/j.cpha.2016.03.006](https://doi.org/10.1016/j.cpha.2016.03.006)

Reference: CPHA 33

To appear in: *Physician Assistant Clinics*



Please cite this article as: C.M. Canonica, An Overview of Hematopoietic Stem Cell Transplantation, *Physician Assistant Clinics* (2016), doi: 10.1016/j.cpha.2016.03.006.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

An Overview of Hematopoietic Stem Cell Transplantation

Carolyn M. Canonica, MMSc, PA-C
Adult Bone Marrow Transplant Service
Department of Medicine
Memorial Sloan Kettering Cancer Center
1275 York Ave.
New York, NY 10065
canonicc@mskcc.org

Contact Information:
475 Main Street, Apt 16P
New York, NY 10044
(516) 524-1539
carolyn.canonica@gmail.com

Disclosure Statement:

The author has nothing to disclose.

Key Words:

Bone Marrow Transplantation (BMT), Hematopoietic Stem Cell Transplantation (HSCT), Peripheral Blood Stem Cell Transplantation (PBSCT), Autologous Transplant, Allogeneic Transplant, Complications of Transplant

Key Points:

- Outline the stem cell transplantation process, from stem cell collection and pre-transplant conditioning through post-transplant care, with a strong focus on post-transplant complications
- Describe variables of stem cell transplant, including conditioning regimen, donor type, stem cell source, stem cell product manipulation, and immunosuppressant regimen
- Introduce common medications used as prophylaxis and treatment in stem cell transplant patients during periods of neutropenia
- Discuss new areas of research in the stem cell transplant field

Synopsis:

This article provides an introduction to the field of hematopoietic stem cell transplantation and is aimed at healthcare providers working both within and outside the Oncology realm. I outline the stem cell transplantation process, spanning from pre-transplant stem cell collection, through stem cell infusion and subsequent neutropenic period, to engraftment and the post-transplant clinical course. As the stem cell transplantation process varies based on a myriad of patient-specific factors, I also discuss key transplant variables, including type of donor, stem cell source and product manipulation, infection and immunosuppressant prophylactic regimens, and risk for post-transplant complications. This article concludes with a discussion of transplant complications and ongoing advancements in the field.

Download English Version:

<https://daneshyari.com/en/article/3817588>

Download Persian Version:

<https://daneshyari.com/article/3817588>

[Daneshyari.com](https://daneshyari.com)