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Psychosocial aspects of hematopoietic stem cell transplantation

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Psychological Considerations in Hematopoietic Stem Cell ...

<https://pubmed.ncbi.nlm.nih.gov/31072626>

Background: In recent decades, advances in transplantation medicine, and improved posttransplant care have reduced morbidity and mortality from hematopoietic stem cell transplantations (HSCTs). However, patients undergoing HSCT report a high prevalence of psychological distress, which can negatively impact recovery, function, and health outcomes, including mortality and higher risk of graft ...

Cited by: 12Author: Hermioni L. Amonoo, Hermioni L. Amonoo...Publish Year: 2019

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[https://onlinelibrary.wiley.com/doi/10.1002/\(SICI\)1099-1611\(199901/02\)8:1<55::AID...](https://onlinelibrary.wiley.com/doi/10.1002/(SICI)1099-1611(199901/02)8:1<55::AID...)

Psychosocial aspects of haematopoietic stem cell donation for allogeneic transplantation: how family donors cope with this experience Nathalie Munzenberger INSERM, Research Unit No. 379 Epidemiology and Social Sciences Applied to Medical Innovation*, Institut Paoli-Calmettes, 232 bd Sainte Marguerite, 13273 Marseille Cedex 9, France

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The psychological impact after hematopoietic stem cell transplantation (HSCT) can be immense. HSCT is an intense and distinctive experience for patients and families and has the potential to cause **prolonged psychological distress** unlike other experiences with oncology patients. 1, 2 The Institute of Medicine report identified that meeting psychosocial health needs of the patients and family is the current exception rather than the common occurrence in this current health ...

Author: Liz Cooke, Robin Gemmell, Kate Kravits, Marcia Grant

Cited by: 75

Publish Year: 2009

Psychological Issues of Stem Cell Transplant - ScienceDirect

F www.sciencedirect.com/science/article/pii/S0749208109000278

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https://pubmed.ncbi.nlm.nih.gov/10202783

Peripheral blood stem cell (PBSC) allogeneic transplantation is an innovative medical procedure which has many advantages in comparison with bone marrow (BM) transplantation, but it involves administering haematopoietic growth factors (HGFs) to donors, the long-term physiological effects of which have not yet been established.

Cited by: 23

Author: Nathalie Munzenberger, Cécile Fortanier, G...

Publish Year: 1999

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https://onlinelibrary.wiley.com/doi/10.1002/(SICI)...

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Author: Nathalie Munzenberger, Cécile Fortanier, G...

Publish Year: 1999

Physical and psychosocial aspects of adolescent and young ...

https://pubmed.ncbi.nlm.nih.gov/28424902

Purpose: Allogeneic hematopoietic stem-cell transplantation (alloHSCT) is physically and psychosocially demanding. Among transplant recipients, adolescent and young adults (AYA) represent a special group, as disease occurs early in life, resulting in the prospect ...

Cited by: 12

Author: Kristin Pulewka, Daniel Wolff, Philipp T. Her...

Publish Year: 2017

Psychosocial factors and hematopoietic stem cell ...

https://www.sciencedirect.com/science/article/pii/S0306453013002333

Nov 01, 2013 Summary. While psychosocial factors are known to affect cancer progression via biobehavioral pathways in many patient populations, these relationships remain largely unexplored in hematopoietic stem cell transplant (HCT) patients. The purpose of this paper is to critically review the literature regarding psychosocial and endocrine/immune aspects of HCT, with an emphasis on exploring pathways that may mediate the associations between psychosocial factors ...

Cited by: 26

Author: Jennifer M. Knight, Jeffrey M. Lyness, Olla ...

Publish Year: 2013

Quality of life, social challenges, and psychosocial ...

https://pubmed.ncbi.nlm.nih.gov/22221790

Quality of life, social challenges, and psychosocial support for long-term survivors after allogeneic hematopoietic stem-cell transplantation. Over the last two decades quality of life (QoL) and the social challenges of allogeneic hematopoietic stem cell transplant (allo-HSCT) survivors have been emerging as subjects of extensive research and are now considered as very important aspects in the ...

Cited by: 33

Author: Maxim Norkin, Jack W. Hsu, John R. Winga...

Publish Year: 2012

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Stem Cell Transplantation

Medical Procedure

Involves replacement of damaged or diseased blood forming cells (stem cells) with healthy stem cells.

Type of procedure: Minimally invasive

Recovery time: Can take several weeks

Duration: About 20-30 minutes

Hospital stay: Typically a few days

May treat

See all (10+)

Aplastic Anemia

Extremely rare

A rare disease condition in which the bone marrow does not produce ...

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Sickle Cell Anemia

Rare

An inherited blood disorder where red blood cells become sickle/crescent ...

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What to expect before procedure

- Before the procedure, the healthcare provider performs a physical exam and takes a medical history.
- Several tests are performed to assess general health condition and what type of stem cells should be transplanted.
- In case of cancer patients, chemo and radiation therapy might be given before the procedure as part of the conditioning process.
- The procedure may require a hospital stay of several days, so prepare in advance for the same and make sure to get the necessary personal belongings.

What to expect during procedure

- The stem cells for transplantation may be taken from the patient's own body, a matched donor, or cord blood.
- For autologous transplant, a process called apheresis is performed. Growth factors are injected to stimulate production of stem cells that reach circulating blood. Blood is drawn through a vein and is processed to obtain stem cells for transplantation.
- For allogeneic transplant, stem cells from a donor or stored umbilical cord may be used. When cells are sourced from the donor, they are obtained from the blood through leukapheresis or harvested from the bone marrow of the hip bone.
- The stem cells hence obtained are infused into the recipient through a tube placed in a vein.

What to expect after procedure

- The duration of hospital stay after the procedure depends on several factors, and is mainly recommended to minimize risk of infection (the ability to fight off infections is compromised after the procedure).
- Vitals and blood count is monitored throughout the stay.
- Medicines are given to prevent infections and complications such as graft versus host disease.
- Blood transfusion and intravenous feeding is done as necessary.

Risks and Complications

Common side effects may include flu-like symptoms, nausea, altered taste in the mouth, drop in blood pressure, pain, or hives.

Complications depend on age, stage and type of disease, type of transplantation, overall health and other factors.

- Graft versus host disease: A condition in which the transplanted cells identify the recipient cells as foreign and attack them
- Graft failure: the transplanted cells fail to function by producing new cells
 - Infection
 - Internal bleeding
 - Damage to vital organs
 - Delayed growth in children
 - Early menopause
 - Cataracts
 - Gastrointestinal symptoms such as diarrhea, nausea, and vomiting

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Psychosocial aspects of hematopoietic stem cell transplantation

Janicsák H *et al.* Psychosocial aspects of HSCT

Henrietta Janicsák, Gabor S Ungvari, Gábor Gazdag

Abstract

Hematopoietic stem cell transplantation (HSCT) has become a conventional and potentially curative treatment for various hematological diseases. As more sophisticated procedures have been developed and mortality rates have decreased, attention has shifted to the psychosocial challenges associated with transplantation. The psychosocial difficulties accompanying transplantation are addressed in the context of both quality of life (QOL) and psychopathological research. Among the psychiatric

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Author: Jennifer M. Knight, Jeffrey M. Lyness, Olle Jane Z. Sahler, Jane L. Liesveld, Jan A. Moynihan

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What is the psychosocial impact of organ donation? ▾

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What kind of stem cells are used in HSCT? ▾

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