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Egyptian Experience In Bone Marrow Transplantation

B7693

Essay

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By

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Abstract

Bone Marrow Transplantation (BMT) is considered the treatment of choice for many haematological and nonhaematological disorders. Now, peripheral blood stem cell transplantation (PBSCT) has acquired satisfaction to the extent that it has replaced bone marrow transplantation as PBSCT is undoubtedly capable of restoring short term haematopoiesis when reinforced after myelo-ablative chemotherapy faster than BMT. Many centers in Egypt have started their experience in stem cell transplantation and have achieved a recognized progress.

Keywords: Bone Marrow Transplantation, Peripheral Blood Stem Cell Transplantation.

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Arabic Summary

List of Abbreviations

AA	: Aplastic Anaemia
ABMT	: Autologous Bone Marrow Transplantation
AGVHD	: Acute Graft Versus Host Disease
ALL	: Acute Lymphoblastic Leukaemia
AML	: Acute Myeloid Leukaemia
ANC	: Absolute Neutrophil Count
ATG	: Anti Thymocyte Globulin
BM	: Bone Marrow
BMT	: Bone Marrow Transplantation
BTM	: Beta Thalassaemia Major
BU	: Busulfan
BU-C	: Busulfan-Cyclophosphamide
CB	: Cord Blood
CHS	: Chediak Hegashi Syndrome
CML	: Chronic Myeloid Leukaemia
CMV	: Cytomegalo Virus
CMV-IP	: Cytomegalo Virus Associated Interstitial Pneumonitis
CR	: Complete Remission
CRI	: First Complete Remission
CR2	: Second Complete Remission
CSA	: Cyclosporine A
CSF	: Colony-Stimulating Factors
CY	: Cyclophosphamide
DFS	: Disease-Free Survival
DMB	: Di Methyl Busulphan
DMSO	: Di Methyl Sulfoxide
DLI	: Donor Lymphocytic Infusion
EBMTR	: European Bone Marrow Transplantation Registry
FISH	: Fluorescence In Situ Hybridization
G-CSF	: Granulocyte Colony Stimulating Factor
GM-CSF	: Granulocyte Colony Stimulating Factor
GIT	: Gastro-Intestinal Tract
GVHD	: Graft-Versus Host Disease
GVL	: Graft Versus Leukaemia
GVM	: Graft Versus Myeloma
HBSS	: Hank's Balanced Salt Solution
HCV	: Hepatitis C Virus
HIV	: Human Immunodeficiency Virus
HLA	: Human Leucocytic Antigen
HFT BI	: Hyper Fractionated Total Body Irradiation
HSC	: Hemopoietic Stem Cell
HSV	: Herpes Simplex Virus
IFN	: Interferon
IG	: Immunoglobulin
IL-2	: Interleukin 2
IP	: Interstitial Pneumonitis
IS	: Immunosuppressive Therapy
LFS	: Leukaemia Free Survival

List of Abbreviations (Continued)

MbA	: Monoclonal Antibodies
MCL	: Mantle Cell Lymphoma
MDS	: Myelodysplastic Syndrome
MHC	: Major Histocompatibility Complex
MM	: Multiple Myeloma
MNCs	: Mono-Nuclear Cells
MTX	: Methotrexate
MUD	: Matched Unrelated Donor
NCD	: Nucleated Cell Dose
NCI	: National Cancer Institute
PBSC	: Peripheral Blood Stem Cell
PBSCT	: Peripheral Blood Stem Cell Transplantation
PBHP	: Peripheral Blood Hematopoietic Progenitor Cells
PCR	: Polymerase Chain Reaction
PECAM-1	: Platelet Endothelial Adhesion
RAEB	: Refractory Anaemia with Excess Blast
RAEB/T	: Refractory Anaemia with Excess Blast in Transformation
RI	: Relapse Incidence
RT-PCR	: Retrotranscripts Polymerase Chain Reaction
SA	: Spontaneous Apoptosis
SAA	: Severe Aplastic Anaemia
SCT	: Stem Cell Transplantation
SCID	: Severe Combined Immuno-Deficiency
STBI	: Single Fraction Total Body Irradiation
TBI	: Total Body Irradiation
TLI	: Total Lymphoid Irradiation
TNC	: Total Nucleated Cell Count
TNF	: Tumour Necrosis Factor
TPN	: Total Parenteral Nutrition
TRM	: Transplant Related Mortality
VOD	: Veno-Occlusive Disease
VS	: Versus
VSAA	: Very Severe Aplastic Anaemia
VZV	: Varicella Zoster Virus
WAS	: Wiskott-Aldrich Syndrome