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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 53325

Manuscript Type: CASE REPORT

CLAG-M chemotherapy followed by umbilical cord blood stem cell transplantation for primary refractory acute myeloid leukaemia child: A case report

Huang J^{et al.} UCB stem cell transplantation for AML child

Jie Huang, Xiao-Yun Yang, Liu-Cheng Rong, Yao Xue, Jun Zhu, Yong-Jun Fang

Abstract

BACKGROUND

The prognosis of paediatric primary refractory/relapsed acute myeloid leukaemia (R/R AML) remains poor. Intensive therapy is typically used as salvage treatment for those with R/R AML. No data are currently available about the use of the CLAG-M protocol as salvage therapy in paediatric patients with R/R AML.



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Types of Stem Cell and Bone Marrow Transplants

<https://www.cancer.org/treatment/treatments-and...> ▾

Autologous Stem Cell Trans...

Tandem (Double autologous) ...

Allogeneic



In this type of transplant, the first step is to remove or harvest your own stem cells. Your stem cells are removed from either your bone marrow or your blood, and then frozen. (You can learn more about this process at What's It Like to Donate Stem Cells?) After you get high doses of chemo and/or radiation as your myeloablative therapy, the stem cells are thawed and given back to you. Benefits of autologous stem cell transplant: One advantage of autologous stem cell transplant is that you're getting your own cells b...

[See more on cancer.org](#)

Allogeneic Hematopoietic Cell Transplantation in First ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3712759>

Smith AR, Baker KS, Defor TE, Verneris MR, Wagner JE, Macmillan ML. Hematopoietic cell transplantation for children with acute lymphoblastic leukemia in second complete remission: similar outcomes in recipients of unrelated marrow and umbilical cord blood versus marrow from HLA matched sibling donors. Biol Blood Marrow Transplant. 2009; 15:1086 ...

Cited by: 24

Author: Michael J. Burke, John E. Wagner, Qing ...

Publish Year: 2013

Central Nervous System Complications in Children Receiving ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5430164>

May 15, 2017 · Acute GvHD, hypomagnesemia, the administration of fludarabine during conditioning and the use of umbilical cord blood stem cells are other factors associated with an increased risk of PRES in transplanted children . Clinical features of PRES in children have been delineated in several studies.

Cited by: 3

Author: Duccio Maria Cordelli, Riccardo Masetti, ...

Publish Year: 2017

PEOPLE ALSO ASK

Can stem cells be transplanted in adults with leukemia?



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OUTCOME OF TRANSPLANTATION FOR ACUTE ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3707801>

Meissner B, Borkhardt A, Dilloo D, Fuchs D, Friedrich W, Handgretinger R, et al. Relapse, not regimen-related toxicity, was the major cause of treatment failure in 11 children with Down syndrome undergoing haematopoietic **stem cell transplantation** for **acute leukaemia**. Bone Marrow Transplant. 2007 Nov; 40 ...

Cited by: 21 Author: Johann K. Hitzler, Wensheng He, [John](#) Doyl...
Publish Year: 2013

Umbilical Cord Blood Transplantation Supported by Third ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3618995>

Eapen M, Klein JP, Sanz GF, et al. Effect of donor-recipient HLA matching at HLA A, B, C, and DRB1 on outcomes after **umbilical-cord blood transplantation** for **leukaemia** and myelodysplastic syndrome: a retrospective analysis. Lancet Oncol. 2011; 12:1214–1221. [PMC free article]

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Publish Year: 2013

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- Can stem cells be transplanted in adults with leukemia? ▾
- Can acute myeloid leukemia (AML) be cured? ▾
- What are stem cells in autologous transplants? ▾
- Can stem cell transplantation cure cancer? ▾

Feedback

Acute myeloid leukemia: 2019 update on risk-stratification ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/ajh.25214>

The **cell** surface antigen CD33 is commonly expressed on the AML **cell** surface (including possibly in some cases AML "**stem** cells") 63 as well as on normal **myeloid** cells but not on other normal cells, with the exception of sinusoidal cells in the liver. GO consists of an ...

Cited by: 72 Author: Elihu H. Estey
Publish Year: 2018

Hematopoietic Stem Cell Transplantation for Primary ...

<https://www.sciencedirect.com/science/article/pii/B9780124055469000583>

Jan 01, 2014 · For most pediatric patients the **stem cell** dose in a single unit is sufficient, but the use of double units in **cord blood** transplant has demonstrated similar survival to matched related or unrelated hematopoietic **stem** cells in adult patients. 39 The introduction of reduced intensity conditioning regimens led to more rapid reconstitution with ...

Author: Andrew R. Gennery Publish Year: 2014

Sirolimus for Refractory Autoimmune Hemolytic Anemia after ...

<https://www.sciencedirect.com/science/article/pii/S088779631500098X>

Jan 01, 2016 · Autoimmune hemolytic anemia (AIHA) following allogeneic hematopoietic **stem cell transplantation** (HCT) is reported to occur at a frequency of 3% to 5% , , and it is much more frequent than in the general population (0.001%) , , .Post-HCT AIHA is thought to be caused by autoantibodies produced by the donor’s immune system against antigens on red **blood** cells (RBCs) of donor origin.

Cited by: 16 Author: Jeong A Park, Hyun-Hee Lee, Hyun-Seop K...
Publish Year: 2016

Allo-SCT using BU, CY and melphalan for children with AML ...

<https://www.nature.com/articles/bmt2012204>

Oct 29, 2012 · The role of matched sibling donor allogeneic **stem cell transplantation** in pediatric high-risk **acute myeloid** leukemia: results from the AML-BFM 98 study. Haematologica 2012; 97 : 21–29.

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Umbilical Cord Blood Transplantation Supported by Third ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3618995>

Eapen M, Klein JP, Sanz GF, et al. Effect of donor-recipient HLA matching at HLA A, B, C, and DRB1 on outcomes after **umbilical-cord blood transplantation** for **leukaemia** and myelodysplastic syndrome: a retrospective analysis. *Lancet Oncol.* 2011; 12:1214–1221. [PMC free article]

Cited by: 31

Author: Koen Van Besien, Hongtao Liu, Nitin Jain...

Publish Year: 2013

Outcomes after related and unrelated umbilical cord blood ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3012777>

Nov 11, 2010 · **Umbilical cord blood** is an alternative source of **stem** cells for allogeneic **transplantation**. Design and Methods This multicenter, retrospective study is based on data reported to the Eurocord Registry about patients with hereditary bone marrow failure syndrome who underwent **umbilical cord blood transplantation**.

Cited by: 80

Author: Renata Bizzetto, Carmen Bonfim, Vander...

Publish Year: 2011

Hematopoietic Stem-cell Transplantation Using Umbilical ...

https://www.researchgate.net/publication/10586250_Hematopoietic_Stem-cell...

In the recent years, **umbilical cord blood** (UCB) has emerged as an alternative source of hematopoietic progenitors (CD34+) for allogeneic **stem cell transplantation**, mainly in patients lacking an ...

Acute myeloid leukemia: 2019 update on risk-stratification ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/ajh.25214>

The **cell** surface antigen CD33 is commonly expressed on the AML **cell** surface (including possibly in some cases AML "**stem** cells") 63 as well as on normal **myeloid** cells but not on other normal cells, with the exception of sinusoidal cells in the liver. GO consists of an ...

Cited by: 72

Author: Elihu H. Estey

Publish Year: 2018

The inferiority of G-PB to rhG-CSF-mobilized blood and ...