

**DoNoHarm: The Coalition of Americans for Research Ethics**  
**CURRENT APPLICATIONS OF ADULT STEM CELLS**  
**FOR HUMAN PATIENTS (*not a complete listing*)**  
**(sample references)**

**ADULT STEM CELLS--HEMATOPOIETIC REPLACEMENT**

**CANCERS**

**BRAIN TUMORS—medulloblastoma and glioma**

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**RETINOBLASTOMA**

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**OVARIAN CANCER**

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Schilder, RJ and Shea, TC; “Multiple cycles of high-dose chemotherapy for ovarian cancer”; *Semin. Oncol.* 25, 349-355; June 1998

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Waldmann V *et al.*; “Transient complete remission of metastasized merkel cell carcinoma by high-dose polychemotherapy and autologous peripheral blood stem cell transplantation”; *Br. J. Dermatol.* 143, 837-839; Oct 2000

**TESTICULAR CANCER**

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Koizumi M *et al.*; "Successful treatment of intravascular malignant lymphomatosis with high-dose chemotherapy and autologous peripheral blood stem cell transplantation"; Bone Marrow Transplant 27, 1101-1103; May 2001

### **ACUTE LYMPHOBLASTIC LEUKEMIA**

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Marco F *et al.*; "High Survival Rate in Infant Acute Leukemia Treated With Early High-Dose Chemotherapy and Stem-Cell Support"; J Clin Oncol 18, 3256-3261; Sept. 15 2000

### **ACUTE MYELOGENOUS LEUKEMIA**

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Gorin NC *et al.*; "Feasibility and recent improvement of autologous stem cell transplantation for acute myelocytic leukaemia in patients over 60 years of age: importance of the source of stem cells"; Br. J. Haematol. 110, 887-893; Sept 2000

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### **CHRONIC MYELOGENOUS LEUKEMIA**

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### **JUVENILE MYELOMONOCYTIC LEUKEMIA**

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Lindahl J *et al.*; "High-dose chemotherapy and APSCT as a potential cure for relapsing hemolyzing AILD"; Leuk Res 25(3), 267-270; March 2001

### **MULTIPLE MYELOMA**

Laughlin MJ *et al.*; "Hematopoietic engraftment and survival in adult recipients of umbilical-cord blood from unrelated donors", New England Journal of Medicine 344, 1815-1822; June 14, 2001

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Bensinger WI *et al.*; "Transplantation of bone marrow as compared with peripheral-blood cells from HLA-identical relatives in patients with hematologic cancers"; New England Journal of Medicine 344, 175-181; Jan 18 2001

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- Paquette, RL *et al.*, “Ex vivo expanded unselected peripheral blood: progenitor cells reduce posttransplantation neutropenia, thrombocytopenia, and anemia in patients with breast cancer”, *Blood* 96, 2385-2390; October, 2000.
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- Josting, A; “Treatment of Primary Progressive Hodgkin’s and Aggressive Non-Hodgkin’s Lymphoma: Is There a Chance for Cure?”; *J Clin Oncol* 18, 332-339; 2000

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### **SOFT TISSUE SARCOMA**

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## **ADULT STEM CELLS—IMMUNE SYSTEM REPLACEMENT**

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#### **MULTIPLE SCLEROSIS**

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#### **CROHN’S DISEASE**

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### **SJOGREN’S SYNDROME**

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### **MYASTHENIA**

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### **AUTOIMMUNE CYTOPENIA**

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Seifert B *et al.*, Complete rfeission of alopecia universalis after allogeneic hematopoietic stem cell transplantation, *Blood* 105, 426-427, 1 January 2005

## **IMMUNODEFICIENCIES**

### **X-LINKED LYMPHOPROLIFERATIVE SYNDROME and**

### **X-LINKED HYPERIMMUNOGLOBULIN M SYNDROME**

Banked unrelated umbilical cord blood was used to reconstitute the immune system in 2 brothers with X-linked lymphoproliferative syndrome and 1 boy with X-linked hyperimmunoglobulin-M syndrome. Two years after transplantation, all 3 patients have normal immune systems. These reports support the wider use of banked partially matched cord blood for transplantation in primary immunodeficiencies.

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### **SICKLE CELL ANEMIA**

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### **FANCONI'S ANEMIA**

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### **DIAMOND BLACKFAN ANEMIA**

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### **PRIMARY AMYLOIDOSIS**

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**DoNoHarm: The Coalition of Americans for Research Ethics**  
**ADULT STEM CELLS—REPLACEMENT OF SOLID TISSUES**

**OTHER METABOLIC DISORDERS**

**OSTEOGENESIS IMPERFECTA**

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**OCULAR**

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## **WOUNDS & INJURIES**

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## **NEURAL DEGENERATIVE DISEASES & INJURIES**

## **STROKE**

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See also July 14, 2004 Senate testimony by Dr. Michel Lévesque:

[http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit\\_id=3670](http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit_id=3670)

and Mr. Dennis Turner:

[http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit\\_id=3676](http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit_id=3676)

## **SPINAL CORD INJURY**

See July 14, 2004 Senate testimony by Dr. Jean Peduzzi-Nelson:

[http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit\\_id=3671](http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit_id=3671)

and a more extensive testimony at:

<http://www.stemcellresearch.org/testimony/peduzzi-nelson.htm>

and Ms. Laura Dominguez:

[http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit\\_id=3673](http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit_id=3673)

and Ms. Susan Fajt:

[http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit\\_id=3674](http://commerce.senate.gov/hearings/testimony.cfm?id=1268&wit_id=3674)