

In collaboration with the



# 2ND WORKSHOP OF THE WBMT

Salvador - Bahia - Brazil



# **Establishing / expanding a transplant center**

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- ✓ **What do we need to get started ?**
- ✓ **Starting HCT programs. A perspective from the front lines:**
- ✓ **México**
- ✓ **Chile**
- ✓ **Brazil**



# Transplants in Latin America, 1998-2004

	Number of Teams	Number of Patients	
		Registered	Reported
Argentina	10	517	947
Brazil	11	272	1,432
Mexico	4	136	231
Uruguay	4	—	705
Other*	4	27	141



# Centers participating in the CIBMTR 2011



In México we are  
grafting less than  
10% of patients who  
need a graft

A photograph of a cemetery with numerous white headstones arranged in long, low rows on a grassy hillside. The headstones are simple vertical markers. In the background, there are large, mature trees with green and yellow leaves. The sky is clear and blue.

90%

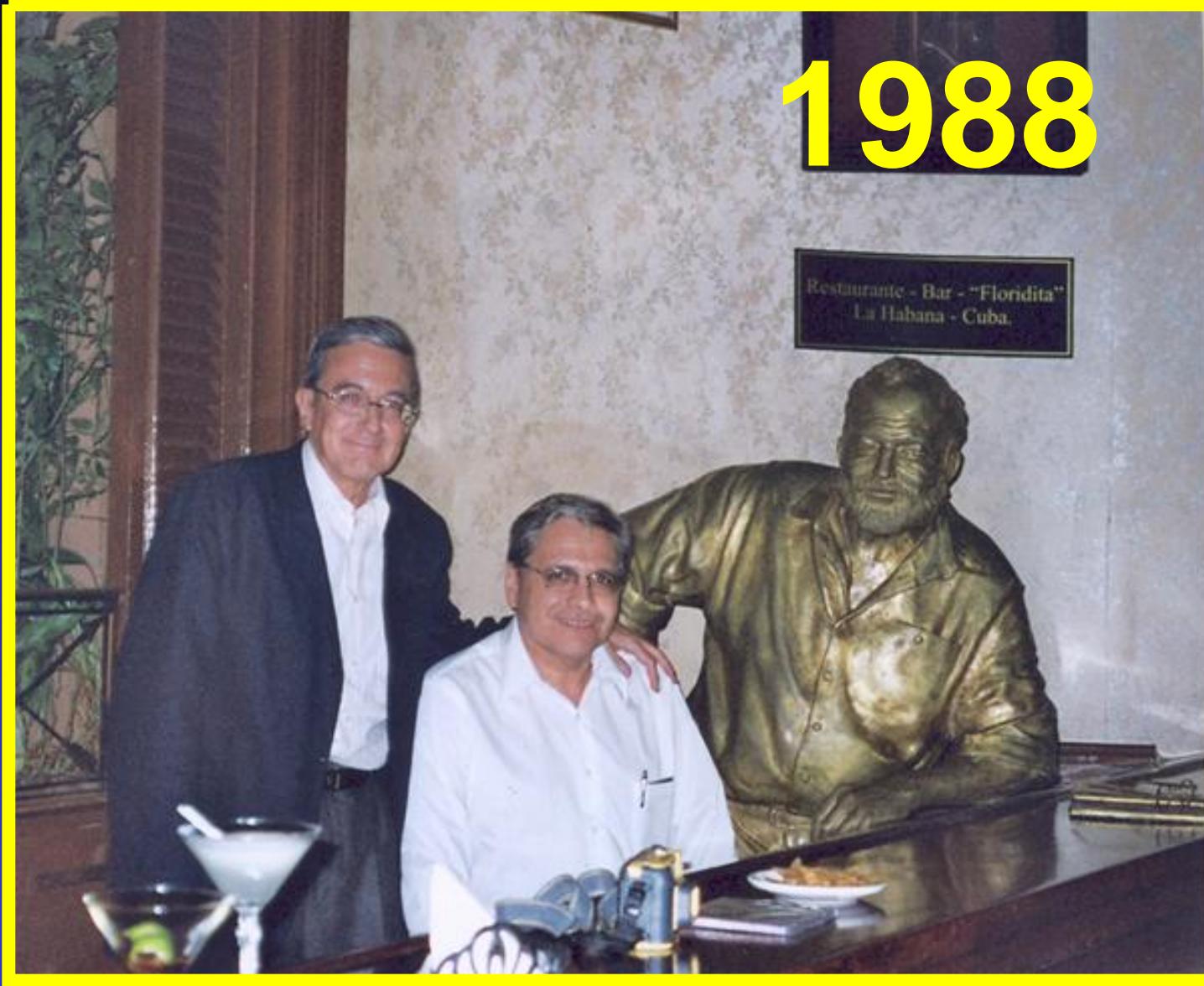
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# The SCT problem in México:

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- ✓ SCT is an expensive procedure
- ✓ SCT needs special units in hospitals
- ✓ SCT needs highly trained physicians

# 1988



# SCT in México

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- ✓ Adapt models from developed countries
- ✓ Develop own methods



**...as long as we are a reflection of  
foreign schools**

**....as long as we only follow,  
and not always closely,  
the world's scientific movement**

**....as long as our authors are not read  
abroad,**

**....this country will not exist  
in the world of the learned**

**Ignacio Chávez**  
**Mexican physician**

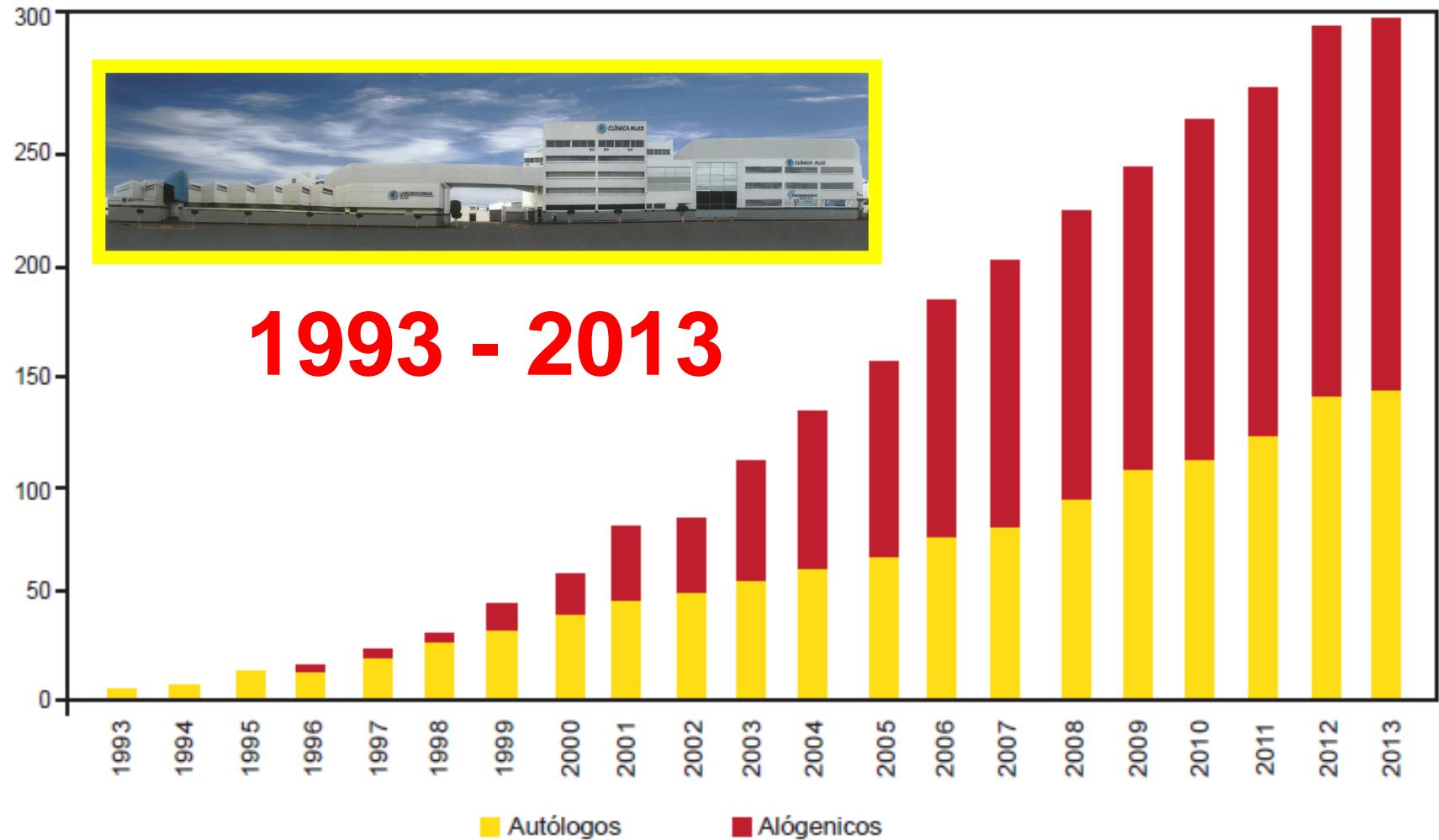




Public



Private



# **Autografts**

# 1993



# Simplified autografts

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- ✓ Outpatient conduction
- ✓ Non-frozen PBSC
- ✓ Short chemotherapy preparative courses (HD-MFL)
- ✓ Apheresis to obtain  $1-6 \times 10^6/\text{Kg}$  CD34 cells
- ✓ Oral antibiotics and antimycotics
- ✓ G-CSF

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## **Results of an Autologous non-cryopreserved, Unmanipulated Peripheral Blood Hematopoietic Stem Cell Transplant Program: A single Institution, 10-year experience.**

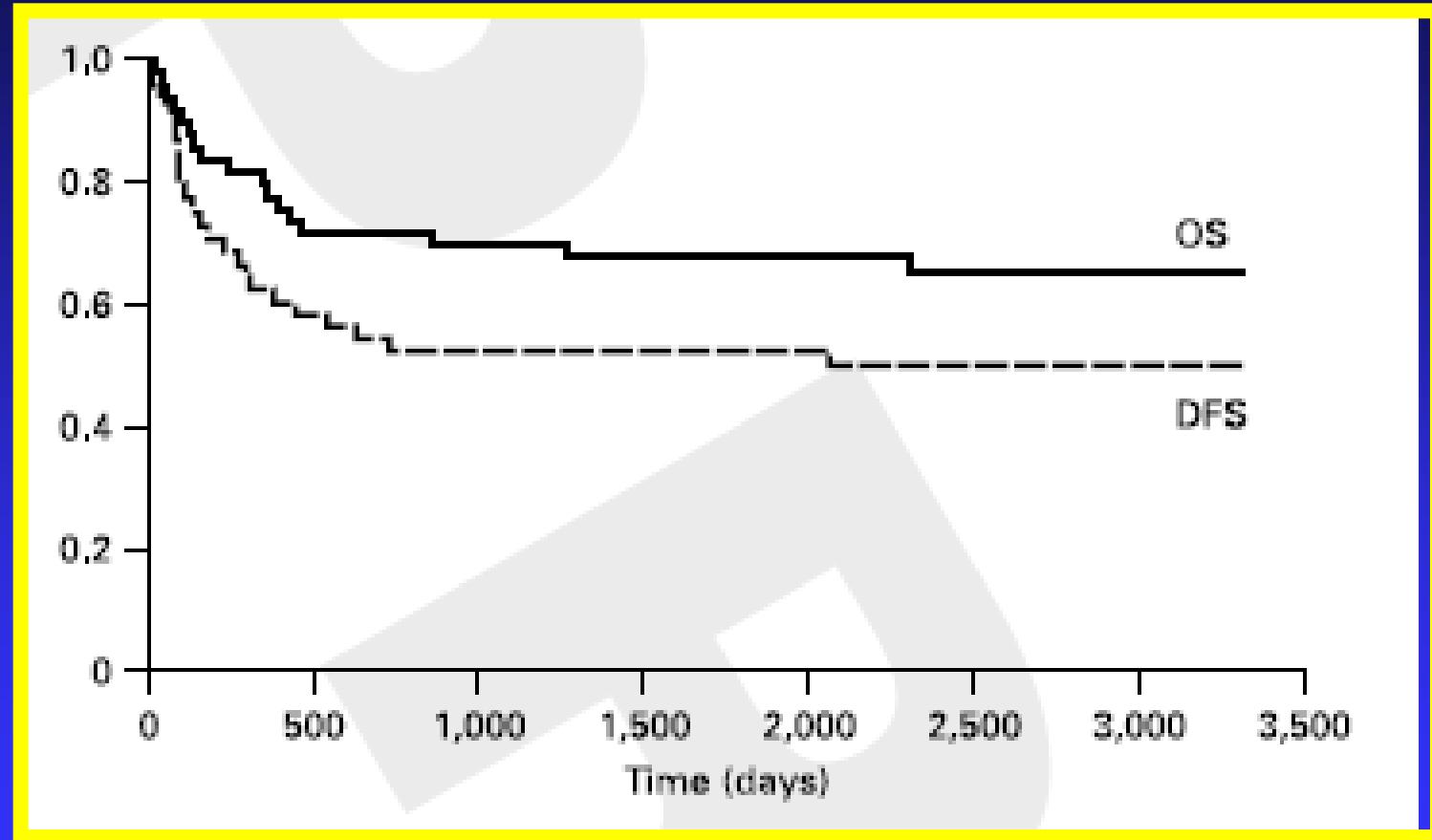
GJ. Ruiz-Argüelles<sup>a,b</sup> JD. Gómez-Rangel<sup>a,b</sup> GJ. Ruiz-Delgado<sup>c</sup>  
A. Ruiz-Argüelles<sup>b</sup> B. Pérez-Romano<sup>b</sup> L. Rivadeneyra<sup>b</sup>

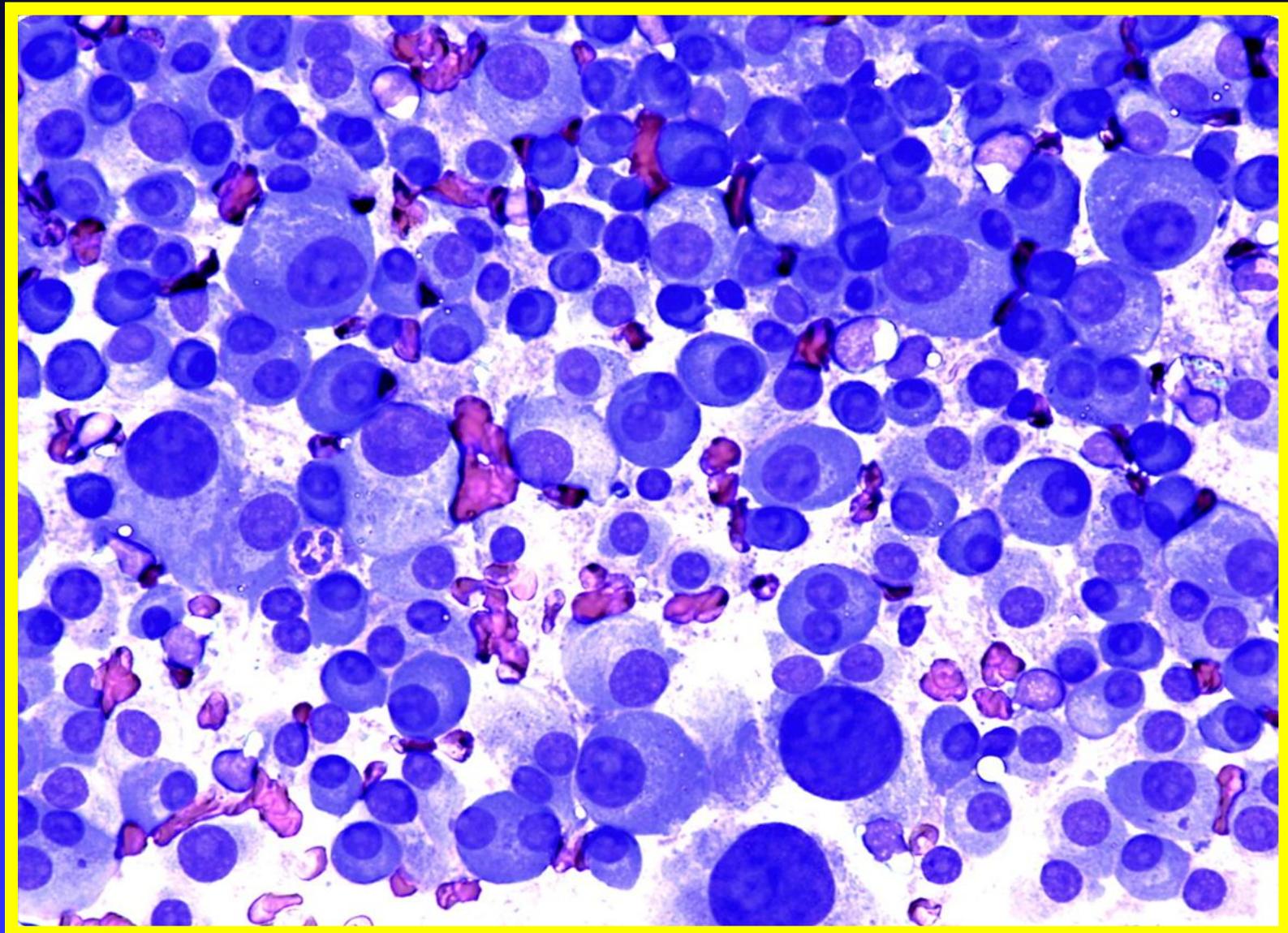
<sup>a</sup>Centro de Hematología y Medicina Interna de Puebla, México.

<sup>b</sup>Laboratorios Clínicos de Puebla, México.

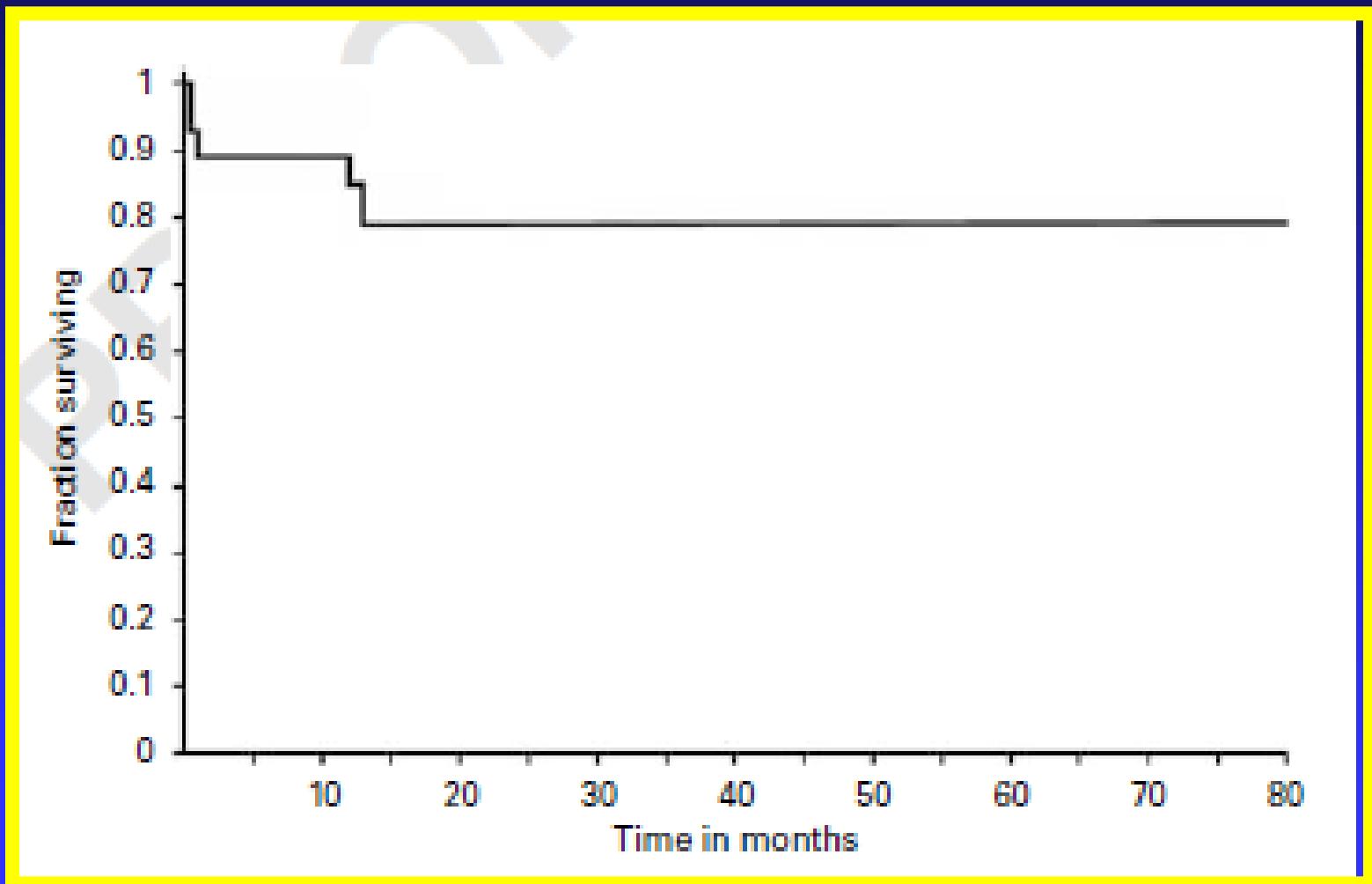
<sup>c</sup>Instituto Nacional de Ciencias Médicas y de la Nutrición Salvador Zubirán, México City, México.

# Autologous





# Autografts in myeloma



# 2009

Bone Marrow Transplantation (2009) 00, 1–5  
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[www.nature.com/bmt](http://www.nature.com/bmt)



## ORIGINAL ARTICLE

### A simplified method for stem cell autografting in multiple myeloma: a single institution experience

A López-Otero<sup>1</sup>, GJ Ruiz-Delgado<sup>1,2</sup> and GJ Ruiz-Argüelles<sup>1,2</sup>

<sup>1</sup>*Centro de Hematología y Medicina Interna de Puebla, Puebla, Mexico* and <sup>2</sup>*Laboratorios Clínicos de Puebla, Puebla, Mexico*

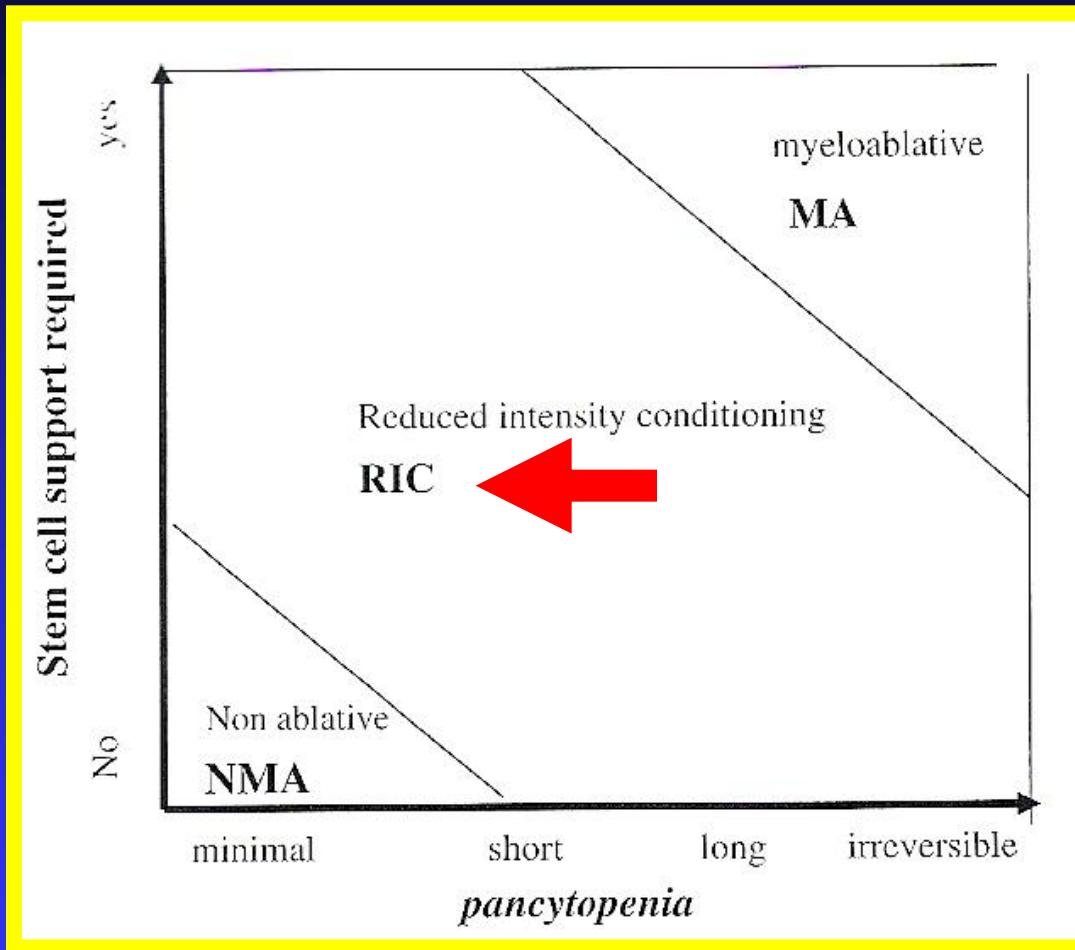
# Autografts in México:

10 000 USD

(60 000 USD in USA)

# **Allografts**





**BBMT 2009; 15:1628**

# 2000

Bone Marrow Transplantation, (2000) 25, 131-133  
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[www.nature.com/bmt](http://www.nature.com/bmt)

## Hematopoietic stem cell allografts using a non-myeloablative conditioning regimen can be safely performed on an outpatient basis: report of four cases

D Gómez-Almaguer<sup>1</sup>, GJ Ruiz-Argüelles<sup>2,3</sup>, A Ruiz-Argüelles<sup>3</sup>, O González-Llano<sup>1</sup>, OE Cantú<sup>1</sup> and NE Hernández<sup>1</sup>

<sup>1</sup>Hospital Universitario de Monterrey; <sup>2</sup>Centro de Hematología y Medicina Interna de Puebla; and <sup>3</sup>Laboratorios Clínicos de Puebla, Puebla, Mexico

# The Mexican method:

---

- ✓ Affordable drugs (BU, Cy, FLU)
- ✓ Outpatient conduction
- ✓ Limited apheresis ( $1-6 \times 10^6/\text{Kg}$  CD34 cells)
- ✓ Limited transfusions
- ✓ No ganciclovir
- ✓ No IV Ig
- ✓ No growth factors

# The Mexican method:

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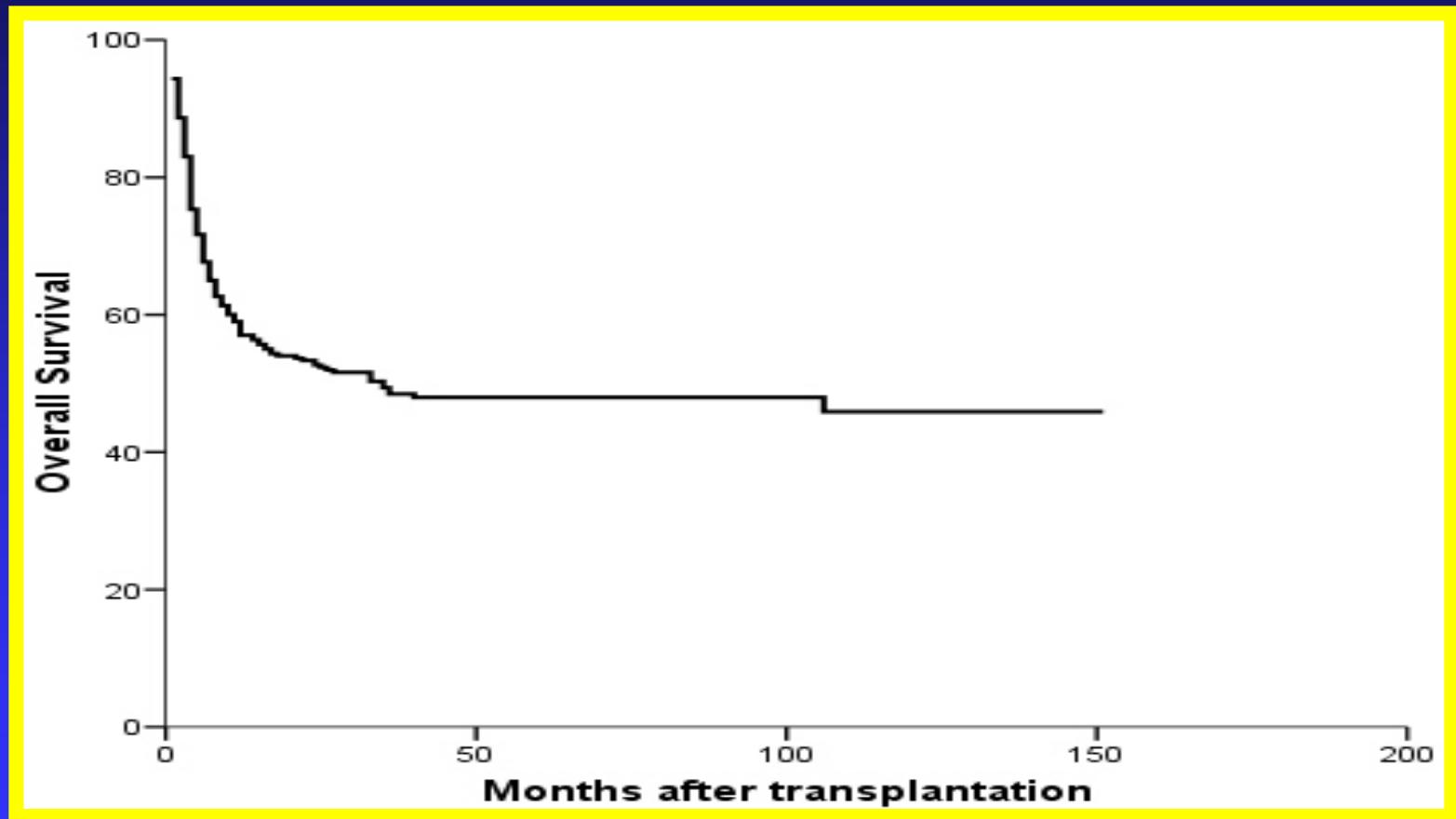
- ✓ BSF: 4 mg/Kg, days -6, -5
- ✓ Cy: 350 mg/m<sup>2</sup>, days -4, -3, -2
- ✓ FLU: 30 mg/m<sup>2</sup>, days -4, -3, -2
- ✓ CyA: 5 mg/Kg, days –1 to +180
- ✓ MTX: 5 mg/m<sup>2</sup> days +1, +3, +5, +11

# **405 allografts:**

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- ✓ 13 days to > 500 granulocytes**
- ✓ 12 days to > 20 000 platelets**
- ✓ Acute GVHD: 21%**
- ✓ Chronic GVHD: 17%**
- ✓ 100-day mortality: 17%**
- ✓ 150 months OS: 48%**
- ✓ Median OS: 1350 days**

# 405 allografts



# **RIC allografting using the Mexican method:**

**20 000 USD**

**(300 000 USD in FHCC)**

**(500 000 USD in MDACC)**

2005

## Allografting

# The early referral for reduced-intensity stem cell transplantation in patients with Ph1 (+) chronic myelogenous leukemia in chronic phase in the imatinib era: results of the Latin American Cooperative Oncohematology Group (LACOHG) prospective, multicenter study

GJ Ruiz-Argüelles<sup>1,2</sup>, D Gómez-Almaguer<sup>3</sup>, A Morales-Toquero<sup>1</sup>, CH Gutiérrez-Aguirre<sup>3</sup>, J Vela-Ojeda<sup>4</sup>, MA García-Ruiz-Esparza<sup>4</sup>, C Manzano<sup>1</sup>, A Karduss<sup>5</sup>, A Sumoza<sup>6</sup>, C de-Souza<sup>7</sup>, E Miranda<sup>7</sup> and S Giralt<sup>8</sup>

<sup>1</sup>Centro de Hematología y Medicina Interna de Puebla, Puebla, México; <sup>2</sup>Laboratorios Clínicos de Puebla, Puebla, México; <sup>3</sup>Hospital Universitario de Monterrey, Monterrey, México; <sup>4</sup>Centro Médico La Raza, Instituto Mexicano del Seguro Social, México City, México; <sup>5</sup>Instituto de Cancerología, Clínica Las Américas, Medellín, Colombia; <sup>6</sup>Universidad de Carabobo, Valencia, Venezuela; <sup>7</sup>Universidad de Campinas, São Paulo, Brazil; and <sup>8</sup>MD Anderson Cancer Center, Houston, TX, USA



## ORIGINAL ARTICLE

## Therapeutic choices in patients with Ph-positive CML living in México in the tyrosine kinase inhibitor era: SCT or TKIs?

GJ Ruiz-Argüelles<sup>1,2</sup>, LC Tarin-Arzaga<sup>3</sup>, ML Gonzalez-Carrillo<sup>2</sup>, KI Gutierrez-Riveroll<sup>1</sup>, R Rangel-Malo<sup>1,2</sup>, CH Gutiérrez-Aguirre<sup>3</sup>, OG Cantú-Rodríguez<sup>3</sup>, D Gómez-Almaguer<sup>3</sup> and S Giralt<sup>4</sup>

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**2004**

*Leukemia & Lymphoma*, 2004; 45:1191



# **Allogeneic Hematopoietic Stem Cell Transplantation with Non-Myeloablative Conditioning in Patients with Acute Myelogenous Leukemia Eligible for Conventional Allografting: A Prospective Study**

GUILLERMO J. RUIZ-ARGÜELLES<sup>a,b,\*</sup>, DAVID GÓMEZ-ALMAGUER<sup>c</sup>, JOSE DAVID-GOMEZ-RANGEL<sup>a</sup>, JORGE VELA-OJEDA<sup>d</sup>, OLGA G. CANTÚ-RODRÍGUEZ<sup>c</sup>, JOSÉ C. JAIME-PÉREZ<sup>c</sup>, OSCAR GONZÁLEZ-LLANO<sup>c</sup>, and JOSÉ L. HERRERA-GARZA<sup>c</sup>

<sup>a</sup>*Centro de Hematología y Medicina Interna de Puebla;* <sup>b</sup>*Laboratorios Clínicos de Puebla;* <sup>c</sup>*Hospital Universitario de Monterrey, Universidad Autónoma de Nuevo León;* <sup>d</sup>*Centro Médico la Raza, Instituto Mexicano del Seguro Social, México City*

**2007**

*Hematology*, 2007; 12:193

**informa**  
healthcare

**Non-myeloablative hematopoietic stem cell transplantation is of limited value in advanced or refractory acute myeloblastic leukemia.  
The Mexican experience\***

C. H. GUTIERREZ-AGUIRRE<sup>1</sup>, O. G. CANTÚ-RODRÍGUEZ<sup>1</sup>, O. GONZALEZ- LLANO<sup>1</sup>,  
R. SALAZAR-RIOJAS<sup>1</sup>, O. MARTINEZ-GONZÁLEZ<sup>1</sup>, J. C. JAIME-PÉREZ<sup>1</sup>,  
A. MORALES-TOQUERO<sup>2</sup>, L. C. TARÍN-ARZAGA<sup>1</sup>, G. J. RUIZ-ARGÜELLES<sup>2</sup>, &  
D. GÓMEZ-ALMAGUER<sup>1</sup>

<sup>1</sup>Servicio de Hematología del Hospital Universitario “Dr. José E. González”. Universidad Autónoma de Nuevo León, Monterrey, NL, México, and <sup>2</sup>Centro de Hematología y Medicina Interna de Puebla, Puebla, México

# 2007

Bone Marrow Transplantation (2007) 00, 1–5  
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[www.nature.com/bmt](http://www.nature.com/bmt)

## ORIGINAL ARTICLE

### Non-myeloablative stem cell transplantation in patients with relapsed acute lymphoblastic leukemia: results of a multicenter study

CH Gutierrez-Aguirre<sup>1</sup>, D Gomez-Almaguer<sup>1</sup>, OG Cantu-Rodríguez<sup>1</sup>, O Gonzalez-Llano<sup>1</sup>, JC Jaime-Perez<sup>1</sup>, S Herena-Perez<sup>2</sup>, CA Manzano<sup>2</sup>, R Estrada-Gomez<sup>3</sup>, ML Gonzalez-Carrillo<sup>3</sup> and GJ Ruiz-Argüelles<sup>2,3</sup>

<sup>1</sup>Servicio de Hematología del Hospital Universitario de Monterrey, Monterrey, México; <sup>2</sup>Centro de Hematología y Medicina Interna de Puebla, Puebla, México and <sup>3</sup>Laboratorios Clínicos de Puebla, Puebla, México

**2003**

Biol Blood Marrow Transplant 2003;9:157-61



## **Reduced-Intensity Stem Cell Transplantation in Children and Adolescents: The Mexican Experience**

*David Gómez Almaguer<sup>1</sup>, Guillermo J. Ruiz-Argüelles<sup>2,3</sup>, Luz del Carmen Tarín-Arzaga<sup>1</sup>, Oscar González-Llano<sup>1</sup>, José Carlos Jaime-Pérez<sup>1</sup>, Briceida López-Martínez<sup>2,3</sup>, Olga G. Cantú-Rodríguez<sup>1</sup>, José Luis Herrera-Garza MD<sup>1</sup>*

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**2006**

American Journal of Hematology 81:157–161 (2006)

# Allografting in Patients With Severe, Refractory Aplastic Anemia Using Peripheral Blood Stem Cells and a Fludarabine-Based Conditioning Regimen: The Mexican Experience

David Gómez-Almaguer,<sup>1</sup> Jorge Vela-Ojeda,<sup>2</sup> José C. Jaime-Pérez,<sup>1</sup> César H. Gutiérrez-Aguirre,<sup>1</sup> Olga G. Cantú-Rodríguez,<sup>1</sup> Pedro Sobrevilla-Calvo,<sup>3</sup> Silvia Rivas-Vera,<sup>3</sup> J. David Gómez-Rangel,<sup>4</sup> and Guillermo J. Ruiz-Argüelles<sup>4\*</sup>

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<sup>2</sup>Centro Médico La Raza, Instituto Mexicano del Seguro Social, México City, Mexico

<sup>3</sup>Instituto Nacional de Cancerología, México City, Mexico

<sup>4</sup>Centro de Hematología y Medicina Interna de Puebla, Puebla, Mexico



**2003**

Archives of Medical Research (2003) 34: 242-245

**ORIGINAL ARTICLE**

**Successful Allogeneic Stem Cell Transplantation With  
Nonmyeloablative Conditioning in Patients With Relapsed Hodgkin's  
Disease Following Autologous Stem Cell Transplantation**

Guillermo J. Ruiz-Argüelles<sup>a,b</sup>, Briceida López-Martínez<sup>b</sup> and Benjamín López-Ariza<sup>a</sup>

<sup>a</sup>*Centro de Hematología y Medicina Interna de Puebla, <sup>b</sup>Laboratorios Clínicos de Puebla.*

**2010**

**Ann Hematol 2010; May 21**

**ORIGINAL ARTICLE**

## **Outpatient reduced-intensity allogeneic stem cell transplantation for patients with refractory or relapsed lymphomas compared with autologous stem cell transplantation using a simplified method**

**Cesar Homero Gutiérrez-Aguirre • Guillermo Ruiz-Argüelles •  
Olga Graciela Cantú-Rodríguez • Oscar González-Llano • José Carlos Jaime-Pérez •  
Fernando García-Rodríguez • Avril López-Otero • José Luis Herrera-Garza •  
David Gómez-Almaguer**

# In pursuit of the graft-versus-myeloma effect: A single institution experience

**Evelyn Gisella Galo-Hooker<sup>1</sup>, Guillermo José Ruiz-Delgado<sup>1,2,3</sup>,  
Gabriela Zamora-Ortiz<sup>1,4</sup>, Sara Velazquez-Sanchez-de-Cima<sup>1,3</sup>,  
Guillermo José Ruiz-Arguelles<sup>1,2,3,4</sup>**

<sup>1</sup>Centro de Hematología y Medicina Interna, Clinica Ruiz, Puebla, Mexico, <sup>2</sup>Laboratorios Clínicos de Puebla, Clinica Ruiz, Puebla, Mexico, <sup>3</sup>Universidad Popular Autónoma del Estado de Puebla, Mexico, <sup>4</sup>Universidad de las Américas Puebla, Mexico

# 2005

Bone Marrow Transplantation (2005) 00, 1–6  
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[www.nature.com/bmt](http://www.nature.com/bmt)



## Bloodless (transfusion-free) hematopoietic stem cell transplants: the Mexican experience

GJ Ruiz-Argüelles<sup>1,2</sup>, A Morales-Toquero<sup>1</sup>, B Lopez-Martinez<sup>1,2</sup>, L-del-C Tarin-Arzaga<sup>3</sup> and C Manzano<sup>4</sup>

<sup>1</sup>*Centro de Hematología y Medicina Interna de Puebla, Puebla, PUE, Mexico;* <sup>2</sup>*Laboratorios Clínicos de Puebla, Puebla, PUE, Mexico;* <sup>3</sup>*Hospital Universitario de Monterrey, Monterrey, Mexico;* <sup>4</sup>*Benemérita Universidad Autónoma de Puebla, Puebla, PUE, Mexico*

*ORIGINAL ARTICLE*

**A single apheresis procedure in the donor may be enough to complete an allograft using the "Mexican Method" of non-ablative allografting**

Guillermo J. Ruiz-Delgado<sup>1,2</sup>, Karla I. Gutiérrez-Riveroll<sup>1</sup>, César H. Gutiérrez-Aguirre<sup>3</sup>, David Gómez-Almaguer<sup>3</sup>, Renee Eyzaguirre-Zapata<sup>1</sup>, Manuel Priesca-Marin<sup>4</sup>, Martha L. González-Carrillo<sup>2</sup>, Guillermo J. Ruiz-Argüelles<sup>1,2</sup>

<sup>1</sup>Centro de Hematología y Medicina Interna de Puebla; <sup>2</sup>Laboratorios Clínicos de Puebla; <sup>3</sup>Hospital Universitario de Nuevo León; <sup>4</sup>Servicios Integrales de Medicina Transfusional y Hemaféresis de Puebla, Mexico.

# Outpatient allografting:

2000

Bone Marrow Transplantation, (2000) 25, 131-133  
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[www.nature.com/bmt](http://www.nature.com/bmt)

Hematopoietic stem cell allografts using a non-myeloablative conditioning regimen can be safely performed on an outpatient basis: report of four cases **4 cases**

D Gómez-Almaguer<sup>1</sup>, GJ Ruiz-Argüelles<sup>2,3</sup>, A Ruiz-Argüelles<sup>3</sup>, O González-Llano<sup>1</sup>, OE Cantú<sup>1</sup> and NE Hernández<sup>1</sup>

<sup>1</sup>Hospital Universitario de Monterrey; <sup>2</sup>Centro de Hematología y Medicina Interna de Puebla; and <sup>3</sup>Laboratorios Clínicos de Puebla, Puebla, Mexico

# Outpatient allografting:

2007

Bone Marrow Transplantation (2007) 40, 119–123  
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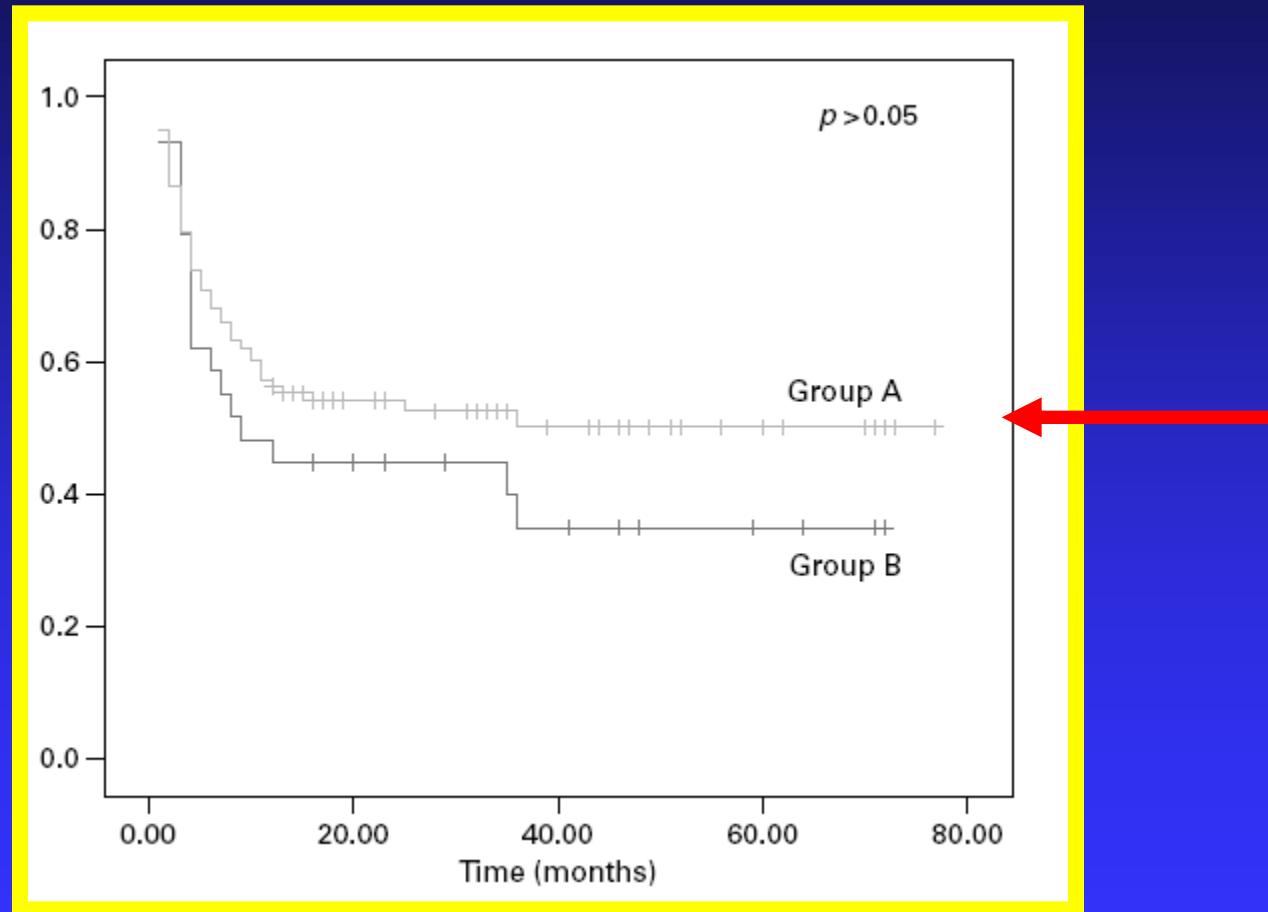
## ORIGINAL ARTICLE

### Outpatient allografting using non-myeloablative conditioning: the Mexican experience **132 cases**

OG Cantú-Rodríguez<sup>1</sup>, JC Jaime-Pérez<sup>1</sup>, CH Gutiérrez-Aguirre<sup>1</sup>, O González-Llano<sup>1</sup>,  
C Mancías-Guerra<sup>1</sup>, LC Tarín-Arzaga<sup>1</sup>, GJ Ruiz-Delgado<sup>1</sup>, CC Sandoval-Villa<sup>1</sup>, J Marfil-Rivera<sup>1</sup>,  
A Morales-Toquero<sup>2</sup>, GJ Ruiz-Argüelles<sup>2</sup> and D Gómez-Almaguer<sup>1</sup>

<sup>1</sup>Servicio de Hematología, Hospital Universitario ‘Dr José Eleuterio González’, Universidad Autónoma de Nuevo León, Nuevo León, México and <sup>2</sup>Centro de Hematología y Medicina Interna de Puebla, Puebla, México

# Outpatient allografting:



# GVHD



- ✓ 301 allografts, PBSC, RIC,  
outpatient conduction
- ✓ Acute GVHD: 21%
- ✓ Chronic GVHD: 17%
- ✓ GVHD mortality: 11%

2011

European Journal of Haematology

ORIGINAL ARTICLE

## **Low incidence and severity of graft-versus-host disease after outpatient allogeneic peripheral blood stem cell transplantation employing a reduced-intensity conditioning**

Olga G. Cantú-Rodríguez<sup>1</sup>, César H. Gutiérrez-Aguirre<sup>1</sup>, José C. Jaime-Pérez<sup>1</sup>, Oscar R. Treviño-Montemayor<sup>1</sup>, Sylvia A. Martínez-Cabriales<sup>1</sup>, Alvaro Gómez-Peña<sup>1</sup>, Avril López-Otero<sup>2</sup>, Guillermo J. Ruiz-Delgado<sup>2,3</sup>, Oscar González-Llano<sup>1</sup>, María C. Mancías-Guerra<sup>1</sup>, Luz D.C. Tarín-Arzaga<sup>1</sup>, Laura N. Rodríguez-Romo<sup>1</sup>, Guillermo J. Ruiz-Argüelles<sup>2,3</sup>, David Gómez-Almaguer<sup>1</sup>

# **GVHD in the Mexican method**

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**RIC**

**Outpatient**

**PBSC**

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**GVHD**

# HemOnc Today 2012, Aug 25

## Editorial

He

### Allografting on outpatient basis can decrease GVHD prevalence, severity

by Guillermo J. Ruiz-Argüelles, MD, FACP, FCRP (Glasg); and David Gómez-Almaguer, MD

Allogeneic hematopoietic stem cell transplantation is an effective and potentially curative treatment for a variety of hematological diseases.

Reduced-intensity conditioning (RIC) has been developed to decrease regimen-related toxicity of allogeneic hematopoietic stem cell transplantation (allo-SCT) and to induce host-versus-graft transplantation tolerance with rapid engraftment of donor stem cells, subsequently diminishing graft-versus-host disease (GVHD).

RIC is appropriate for the elderly and other high-risk patients who are otherwise ineligible to receive conventional allografts.

GVHD is still a major cause of morbidity and mortality after allo-SCT. The disease is a complication that may considerably limit the benefit of transplan-



Guillermo J.  
Ruiz-Argüelles



David  
Gómez-Almaguer

have resulted in the simplification of performing allografts.

The use of RIC regimens for allografting by our group and others has resulted in a substantial reduction in cost, and because the cost of grafting peripheral blood stem cells is lower than the cost of allografting using bone marrow-derived stem cells, we elected to use peripheral blood stem cells and implement it as an outpatient procedure.

A number of studies — both randomized and nonrandomized — have

incidence of acute GVHD. In Sweden, Svalin and colleagues studied the long-term follow-up of patients treated at home during the pancytopenic phase after myeloablative allogeneic stem cell transplantation and pointed out several advantages, including a reduced risk for acute GVHD. Seventeen percent of patients in the outpatient transplant group developed grade-2 to grade-4 acute GVHD vs. 44% in the inpatient transplant group, and 52% of patients in the outpatient transplant group developed chronic GVHD vs. 57% in the inpatient transplant group.

**Environmental factors seem to be critical in the development of GVHD and probably should receive more attention.**

# *HemOnc Today* 2012, Sept 10

## PERSPECTIVE



Harry S. Jacob

An editorial by Guillermo J. Ruiz-Arguelles, MD, FACP, FRCP(Glasg), in the Aug. 25 issue of HEMONC TODAY notes an astonishing reduction of graft-versus-host disease in Mexican bone marrow transplant patients who are not hospitalized but immediately sent home after their outpatient procedure! Re-entry into their familiar microbial environment, with reconstitution of colonic flora, may inhibit *C. difficile* overgrowth and its likely amplification of GVHD — a markedly different scenario than that experienced by transplant patients in microbe-deficient hospital rooms in “developed countries.”

— Harry S. Jacob, MD, FRCPath(Hon)

HEMONC TODAY Chief Medical Editor

Disclosure: Dr. Jacob reports no relevant financial disclosures.

# RIC using the “Mexican method”

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- ✓ RIC “cures” about the same proportion of patients
- ✓ RIC is not a simple way to allograft
- ✓ RIC needs strong laboratory support
- ✓ RIC does not require special units
- ✓ RIC can be conducted on an outpatient basis
- ✓ RIC is cheaper



2000

## Hematopoietic stem cell allografts using a non-myeloablative conditioning regimen can be safely performed on an outpatient basis: report of four cases

D Gómez-Almas  
and NE Hernández

Ruiz-Argüelles<sup>1</sup>, J M Sánchez-García<sup>1</sup>, A Flores<sup>3</sup>, O González-Lla

Cantú<sup>1</sup>

<sup>1</sup>Hospital Universitario de Puebla, Puebla, Mexico

<sup>2</sup>Centro de Hematología y Medicina Interna, Clinica Ruiz, Puebla; and <sup>3</sup>Laboratorios Clínicos de

In pursuit of the graft-versus-tumor effect:  
A single institution's experience

Evelyn Gisel Vello-Hooker<sup>1</sup>, César José Ruiz-Delgado<sup>1</sup>,  
Gabriela Zamora-Ortiz<sup>1,4</sup>, Sara Velazquez-Sánchez-de-Cima<sup>1,3</sup>,  
Guillermo José Ruiz-Arguelles<sup>1,2,3,4</sup>

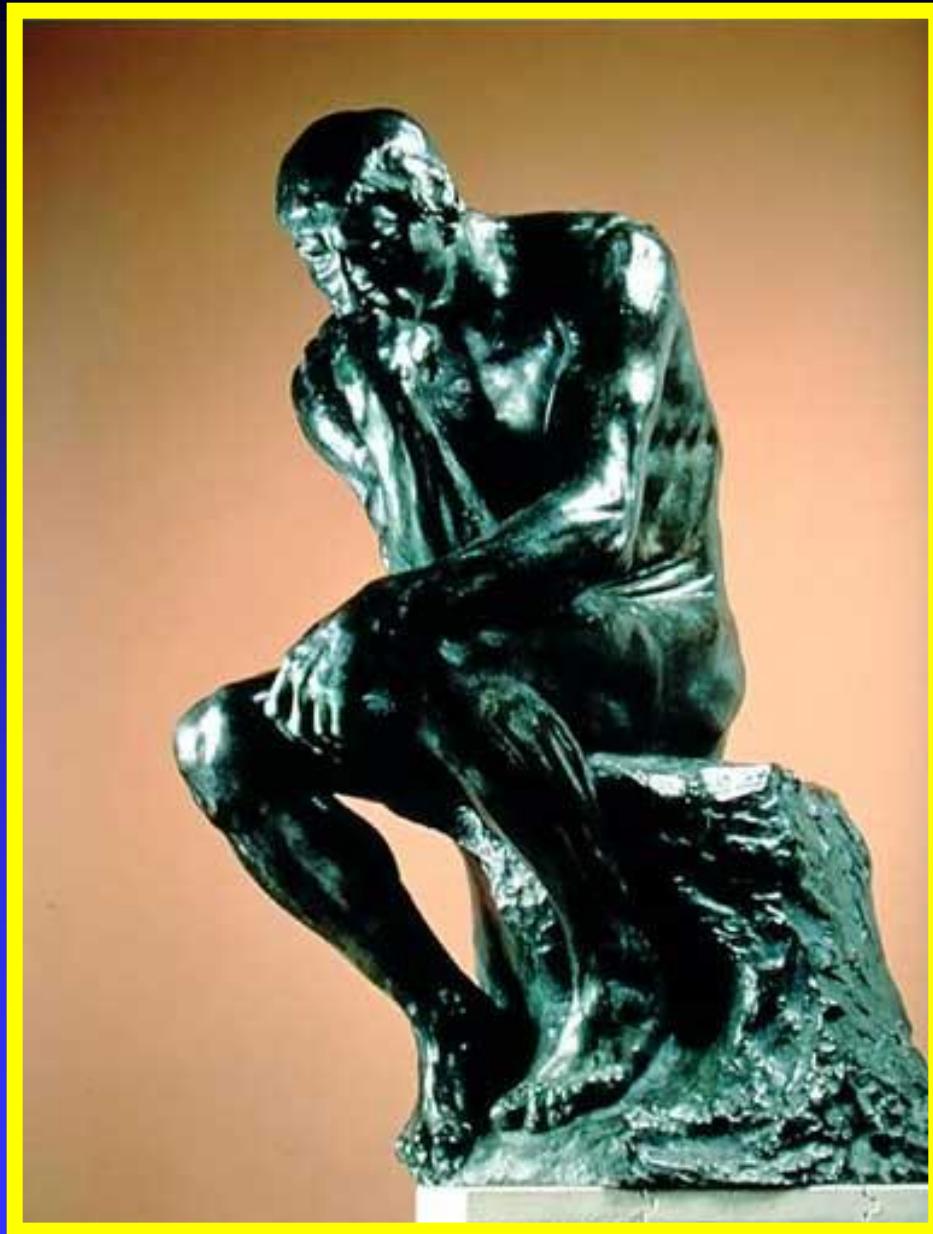
2013

<sup>1</sup>Centro de Hematología y Medicina Interna, Clinica Ruiz, Puebla, Mexico, <sup>2</sup>Laboratorios Clínicos de Puebla, Clinica Ruiz, Puebla, Mexico, <sup>3</sup>Universidad Popular Autónoma del Estado de Puebla, Mexico, <sup>4</sup>Universidad de las Américas Puebla, Mexico

# NST in México:

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- ✓ More patients allografted
- ✓ More patients cured
- ✓ More papers published
- ✓ Better physician education
- ✓ Better healthcare



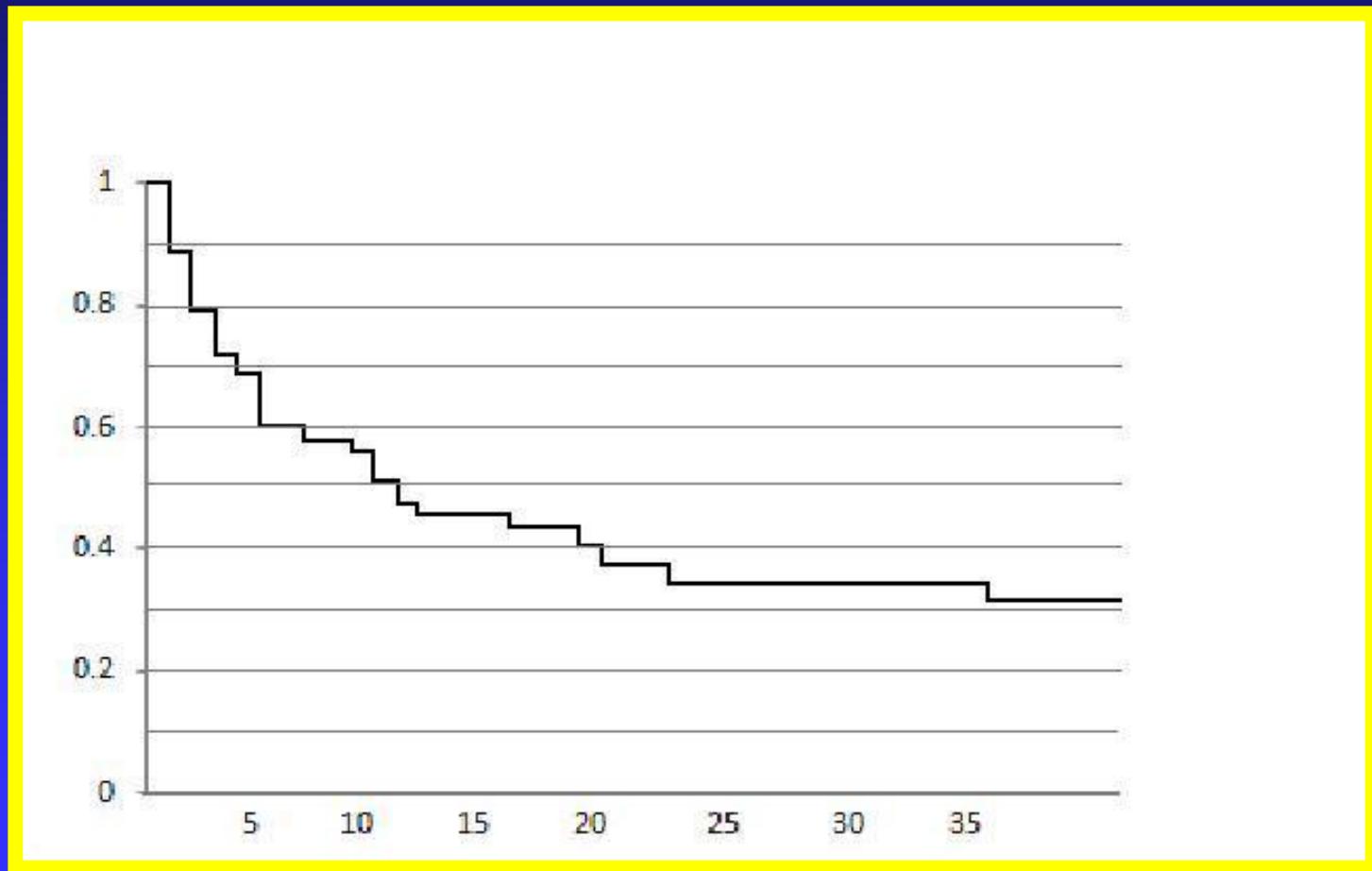


# Long-term results of placental blood allografting using reduced-intensity conditioning: multicenter experience in a developing country

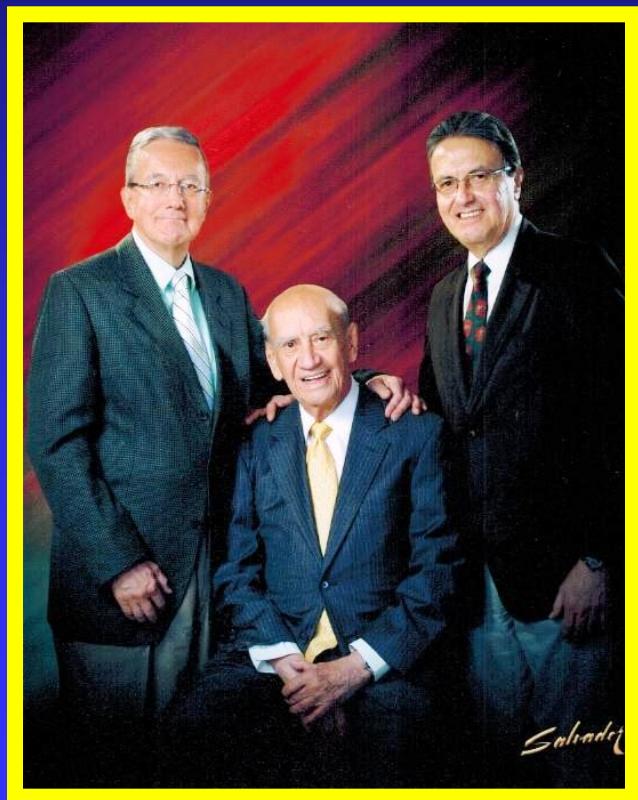
**Guillermo J. Ruiz-Delgado<sup>1,2</sup>, Consuelo Mancias-Guerra<sup>3</sup>, Julio Macias-Gallardo<sup>1</sup>, Oscar Gonzalez-Llano<sup>3</sup>, Ana Hernandez-Arizpe<sup>1</sup>, Laura Nelly Rodriguez-Romo<sup>3</sup>, Sylvia Aide Martinez-Cabriales<sup>3</sup>, David Gómez-Almaguer<sup>3</sup>, Guillermo J. Ruiz-Argüelles<sup>1,2</sup>**

<sup>1</sup>Centro de Hematología y Medicina Interna de Puebla, <sup>2</sup>Laboratorios Clínicos de Puebla, Clinica Ruiz, Puebla, Mexico, <sup>3</sup>Hospital Universitario, Universidad Autónoma de Nuevo León, Monterrey, Mexico

# 68 placental blood allografts



# Haploidentical allografts





VS



# Hematology 2013, *in the press*

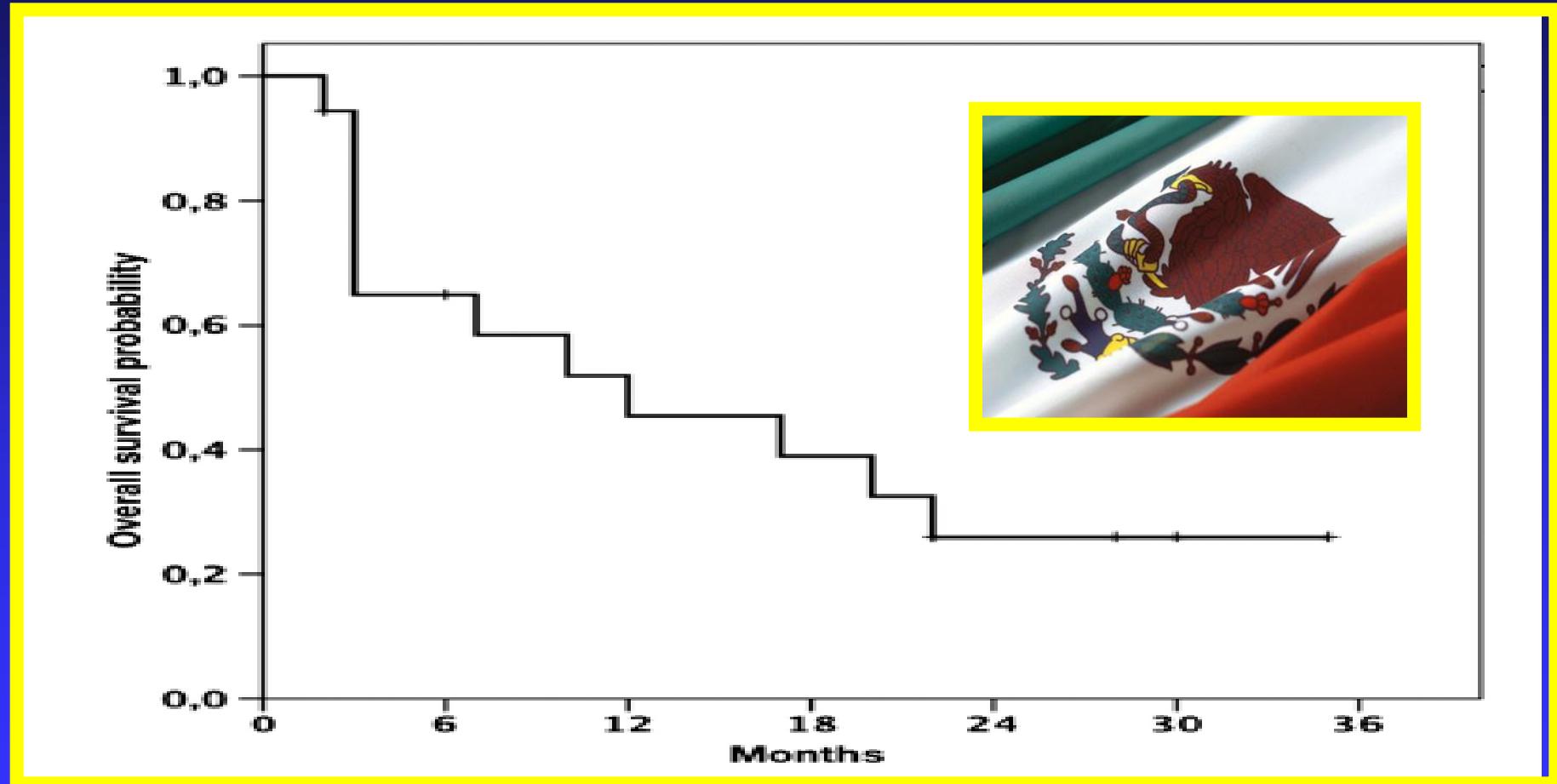


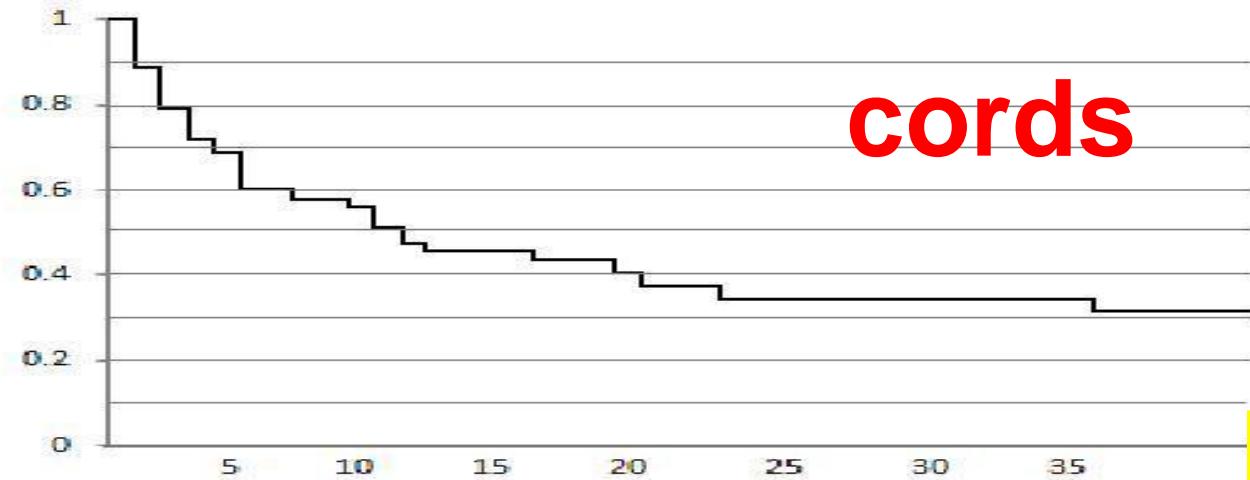
Original research paper

## Feasibility of an outpatient HLA haploidentical stem cell transplantation program in children using a reduced-intensity conditioning regimen and CD3–CD19 depletion

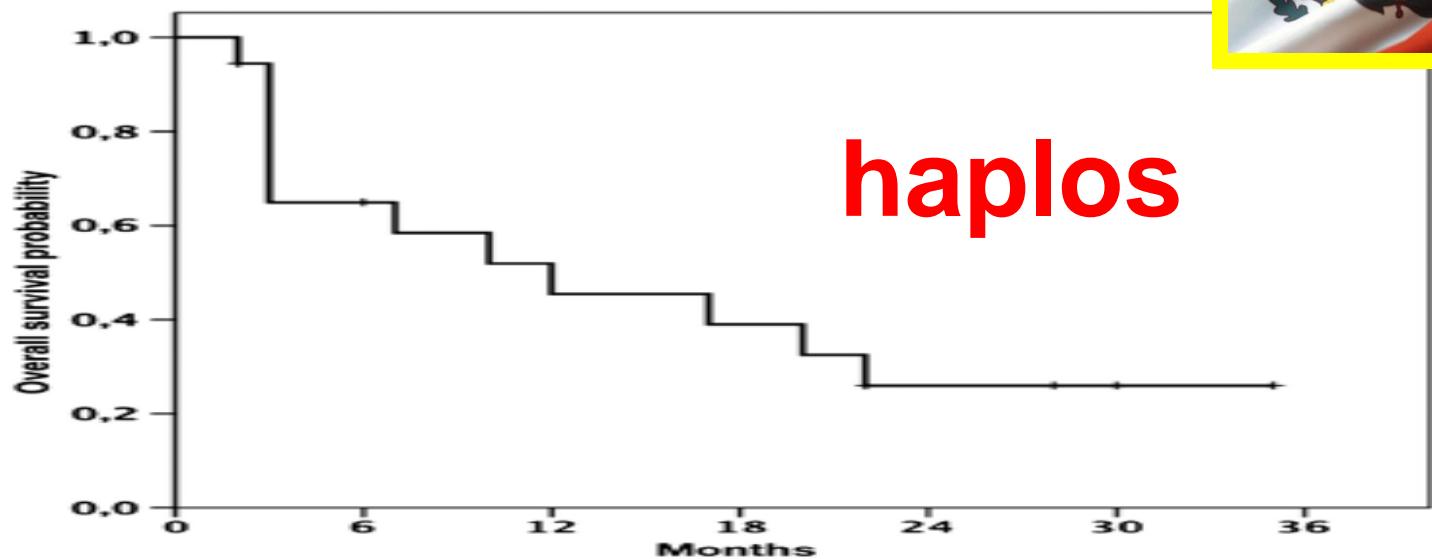
Oscar González-Llano, Laura Nelly Rodríguez-Romo, María del Consuelo Mancías-Guerra, Luz Tarín-Arzaga, José Carlos Jaime-Pérez, José Luis Herrera-Garza, Olga Graciela Cantú-Rodríguez, César Homero Gutiérrez-Aguirre, Ricardo Daniel García-Sepúlveda, Ana Yuritzen García-Marín, Laura Villarreal-Martínez, María del Rosario Salazar-Riojas, David Gómez-Almaguer

# 18 haploidentical allografts





cords

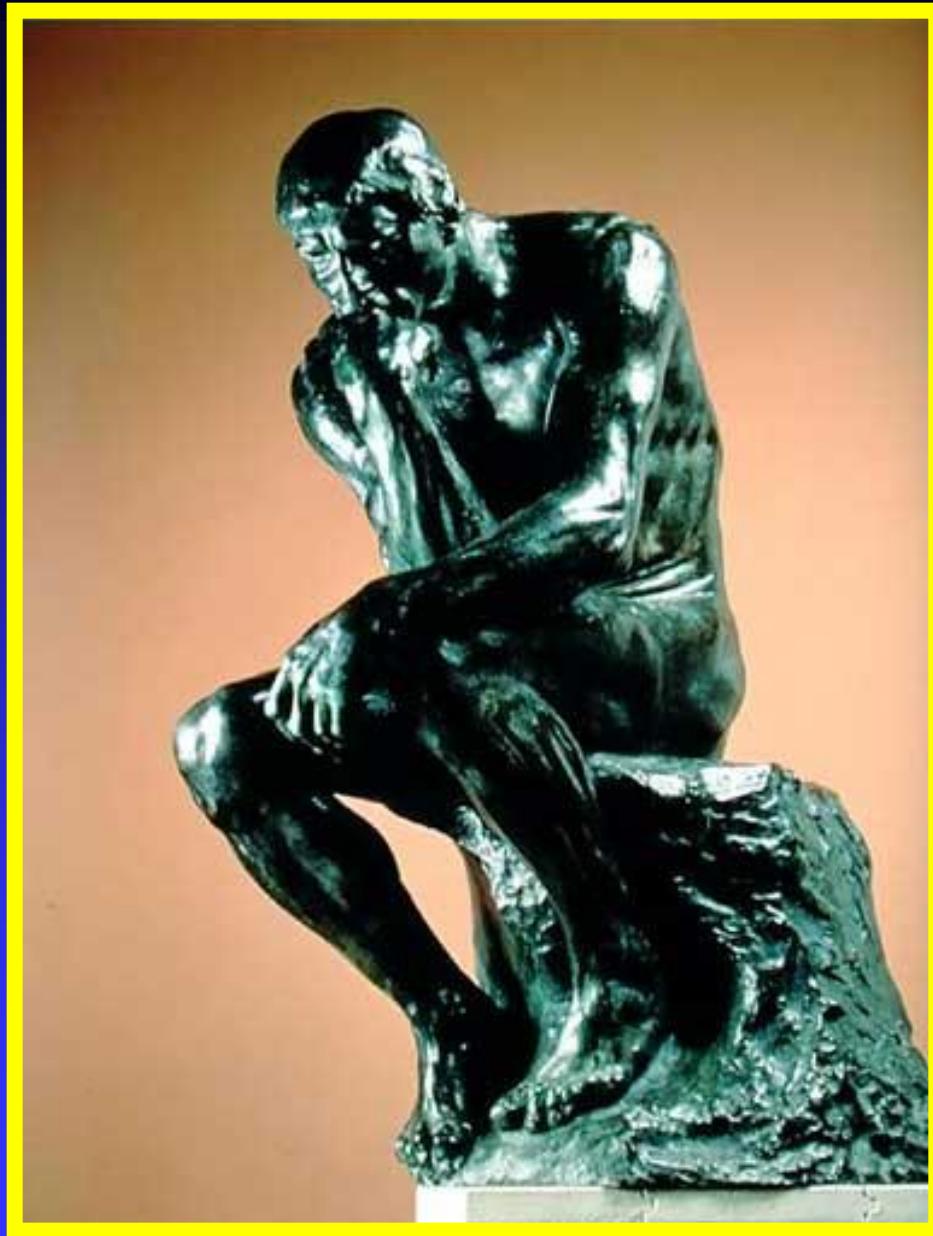


haplos

# Haplos versus cords

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- ✓ Similar long term results
- ✓ Haplos are cheaper (Cy)
- ✓ No cord blood banks
- ✓ More realistic in underprivileged circumstances





# Suggestions for SCT:

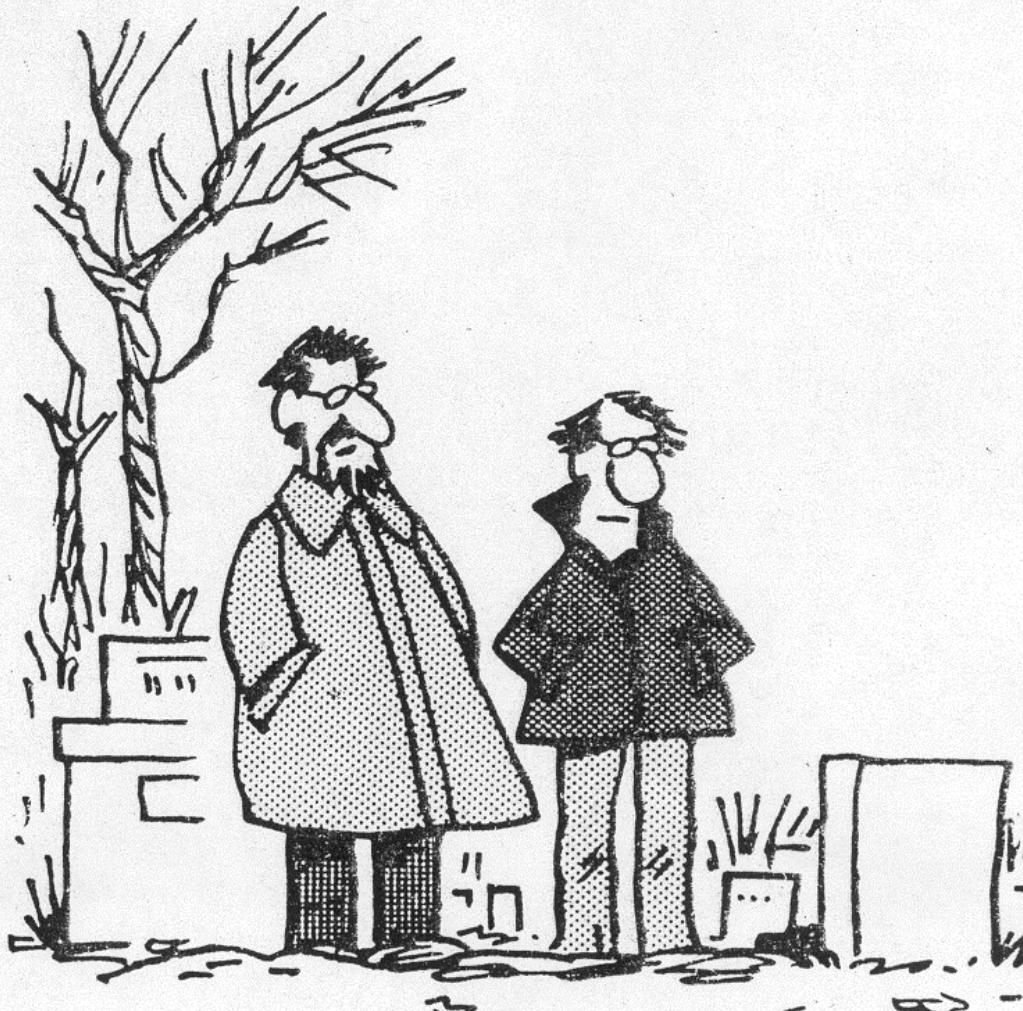
- ✓ Start with autos
- ✓ Graft initially “easy” cases
- ✓ Proceed with allografts
- ✓ Do not be a copycat
- ✓ Proceed with cords
- ✓ Proceed with haplos (CFM ?)
- ✓ Send data to registries



# Suggestions for SCT:

- ✓ Public and private
- ✓ Children and adults
- ✓ Strong laboratory support
- ✓ Strong blood bank support
- ✓ Outpatient or in-hospital
- ✓ Publish or perish





*Jim Berry*

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*"He didn't publish, so he perished."*

