

Welcome to the

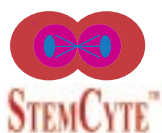


The 3rd Annual
International
Umbilical Cord Blood
Transplantation
Symposium
Los Angeles,
California
June 3-4, 2005

**Hilton Hotel at
Los Angeles International Airport
5711 West Century Blvd.
Los Angeles, CA 90045 USA**

June 3rd
8:00 a.m. - 4:30 p.m.

June 4th
8:00 a.m. - 5:00 p.m.



Presented by the
California Blood Bank Society

Supported by unrestricted educational grants from StemCyte, the National Marrow Donor Program, and the Health Resources and Services Administration (HRSA)*



*The 3rd Annual International Umbilical Cord Blood Bank Transplantation Symposium was partially financially supported by a contract between the Health Resources and Services Administration, U.S. Department and Health and Human Services, and the California Blood Bank Society. Any opinions, findings, conclusions or recommendations expressed or presented at this conference are those of the presenters and do not necessarily reflect the views of the U.S. Government.

EDUCATIONAL OBJECTIVES

At the conclusion of this symposium, attendees should be able to:

- * Describe patient selection and outcomes for pediatric and adult patients undergoing unrelated cord blood transplantation versus transplantation from other stem cell sources.
- * Identify the factors that affect outcomes, including cord blood unit selection and HLA matching criteria, conditioning regimens, and supportive care strategies.
- * Discuss the potential role of cord blood transplantation based on new research developments.
- * Discuss critical issues in cord blood banking.

TARGET AUDIENCE

This program is designed for physicians, nurses and laboratory personnel involved or interested in cord blood transplantation.

CONTINUING EDUCATION



Physicians

The CBBS is accredited by the Institute for Medical Quality and the California Medical Association to provide continuing medical education for physicians. The CBBS takes responsibility for the content, quality and scientific integrity of this CME activity.

The CBBS designates this educational activity for a maximum of 14.0 hours of Category 1 credit toward the California Medical Association's Certification in Continuing Medical Education and the AMA Physician's Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Registered Nurses

Provider approved by the California Board of Registered Nursing provider number 01351 for up to 14.0 contact hours of continuing education.

Medical Technologists/Clinical Laboratory Scientists

This program is approved by the California Laboratory Field Services for up to 14.0 contact hours of continuing education (provider number 0034).

Foreign Physicians and unlicensed attendees

A Certificate of Attendance will be provided for each day of documented attendance.

For information about California Blood Bank Society membership, please contact the CBBS Central Office at (520) 749-6908 or cbbs@att.net.

EXHIBITS

Our Exhibitors and Sponsors are valued participants of the Symposium. We are grateful for their participation, and encourage all attendees to visit the exhibits during the designated hours. Exhibit hours are:

Friday June 3, 2005
7:00 - 8:00 AM
10:00 - 10:30 AM
Noon - 1:00 PM
2:00 - 2:15 PM

Saturday June 4, 2005
7:00 - 8:00 AM
10:00 - 10:20 AM
Noon - 1:00 PM
3:00 - 3:20 PM

**THE THIRD ANNUAL
INTERNATIONAL CORD BLOOD TRANSPLANTATION
SYMPOSIUM
SCIENTIFIC PROGRAM**

Thursday, June 2, 2005

6:00 - 8:00 P.M. A Complimentary Wine and Cheese Reception for all Attendees and Exhibitors.
(The registration desk will be open.)

Friday June 3, 2005

7:00 - 8:00 A.M. BREAKFAST (provided) Exhibits Open
(On site registration available.)

8:00 - 8:10 A.M. Welcome and Acknowledgements.

Session I. 8:10 A.M. - NOON Umbilical Cord Blood Transplantation of Adults - Current Results and Future Directions.

Chairpersons: John Wagner, M.D. and Frederick Appelbaum, M.D.

- (1) 8:10 - 8:40 A.M. A comparison of unrelated marrow vs. unrelated cord blood transplants in adults. Eliane Gluckman, M.D., Hospital Saint-Louis, Paris, France.
- (2) 8:40 - 9:00 A.M. Cord blood transplants for adults - The New York Blood Center experience. Pablo Rubinstein, M.D., New York Blood Center, New York, NY.
- (3) 9:00 - 9:20 A.M. Cord blood transplants for adults using myeloablative conditioning. Satoshi Takahashi, M.D., University of Tokyo, Tokyo, Japan.
- (4) 9:20 - 9:40 A.M. . Non-myeloablative cord blood transplantation in adults. John Wagner, M.D., University of Minnesota, Minneapolis, MN.
- (5) 9:40 - 10:00 A.M. Comparison of adult allogeneic umbilical cord blood transplantation between myeloablative and non-myeloablative conditioning regimens. Haruko Tashiro, M.D., Teikyo University, Tokyo, Japan.

10:00 - 10:20 COFFEE BREAK Exhibits Open

Umbilical Cord Blood Transplantation of Adults - Current Results and Future Directions. (continued).

- (6) 10:20 - 10:40 A.M. Cord blood transplants for indolent lymphoid malignancies in adults. Juliet Barker, M.D., University of Minnesota, Minneapolis, MN.
- (7) 10:40 - 11:10 A.M. Double cord blood transplants. John Wagner, M.D., University of Minnesota, Minneapolis, MN.
- (8) 11:10 - 11:30 A.M. Unrelated single cord blood transplants supported by co-infusion of a low number of mobilized peripheral blood highly purified CD34+ cells from a third party donor after low toxicity myeloablative conditioning. Manuel N. Fernandez, M.D., Hospital Puerta de Hierro, Madrid, Spain.

11:30 - Noon Panel Discussion with Questions/Comments from Audience: Cord Blood Transplantation in Adults.

Moderators: John Wagner and Frederick Appelbaum

Noon - 1:00 P.M. LUNCH (provided) Exhibits Open

Session II. 1:00 - 2:00 P.M. Infectious Disease Complications and Immune Reconstitution after Cord Blood Transplantation.

Chairperson: Richard Champlin, M.D.

- (1) 1:00 - 1:20 P.M. Infectious complications following unrelated cord blood transplantation. Jo-Anne van Burik, M.D., University of Minnesota, Minneapolis, MN.

- (2) 1:20 - 1:40 P.M. Incidence and risk factors of early severe infections after unrelated cord blood transplantation. Mary Laughlin, M.D., Case Western Reserve University, Cleveland, OH.
- (3) 1:40 - 2:00 P.M. Immune reconstitution after umbilical cord blood transplantation. Nelson Chao, M.D., Duke University, Durham, NC.

2:00 - 2:15 P.M. COFFEE BREAK

Exhibits Open

Session III. 2:15 - 4:00 P.M. Approaches to Augment the Efficacy of Umbilical Cord Blood Transplants.

Chairpersons: Hal Broxmeyer, Ph.D. and Larry Lasky, M.D.

- (1) 2:15 - 2:35 P.M. T-Regulatory cells Bruce Blazar, M.D., University of Minnesota, Minneapolis, MN.
- (2) 2:35 - 2:55 P.M. Transplantation of cord blood expanded ex vivo. Elizabeth J. Shpall, M.D. MD Anderson Cancer Center, Houston, TX.
- (3) 2:55 - 3:15 P.M. Hematopoietic recovery after unrelated umbilical cord blood allogeneic transplantation in adults treated with in vivo stem cell factor and filgrastim administration. Mary Laughlin, M.D., Case Western Reserve University, Cleveland, OH.
- (4) 3:15- 3:35 P.M. An algorithm for selection of stem cell products for hematopoietic cell transplantation with comments about choosing the best umbilical cord blood unit. Juliet Barker, M.D., University of Minnesota, Minneapolis, MN.
- (5) 3:35- 4:00 P.M. Augmentation of homing of cord blood stem cells. Hal Broxmeyer, Ph.D., Indiana University School of Medicine, Indianapolis, IN.

4:00 - 4:30 P.M. Panel Discussion with Questions/Comments from Audience: Methods to Augment the Efficacy of Cord Blood Transplantation.

Moderators: Hal Broxmeyer and Larry Lasky

4:30 P.M. Adjourn

Saturday June 4, 2005

7:00 - 8:00 A.M. BREAKFAST (provided) Exhibits Open

Session IV. 8:00 - 10:00 A.M. Collection, Processing, Banking, Thawing and Administration of Cord Blood Units - Quality Issues.

Chairpersons: Jeffrey McCullough, M.D. and Dennis Confer, M.D.

- A. 8:00 - 8:20 A.M. Standardization of cord blood banking procedures in the NMDP network. Joanne Kurtzberg, M.D., Duke University, Durham, NC.
- B. 8:20 - 8:40 A.M. Issues in the quality of umbilical cord blood stem cells for transplantation. Jeffrey McCullough, M.D., University of Minnesota, Minneapolis, MN.
- C. 8:40 - 9:30 A.M. Quality control of progenitor cell assays.
 - (1) 8:40 - 8:55 A.M. A comparison of pre- and post-cryopreservation CD34+ counts from cord blood units. Rafael Bornstein, M.D., Madrid Cord Blood Bank, Madrid, Spain.
 - (2) 8:55 - 9:15 A.M. Standardization of CFU Assays. Emer Clarke, Ph.D., StemCell Technologies, Vancouver, BC, Canada.
 - (3) 9:15- 9:30 A.M. Post-thaw characterization of progenitor cell viability in cord blood products. Michael Creer, M.D., St. Louis Cord Blood Bank, St. Louis, MO.

9:30 - 10:00 A.M. Panel Discussion with questions and comments from Audience. Quality Issues Regarding Cord Blood Units.

Moderators: Jeffrey McCullough and Dennis Confer

10:00 - 10:20 A.M. COFFEE BREAK

Exhibits Open

Session V. 10:20 A.M. - Noon. Transplantation of Children/Genetic Disorders.

Chairpersons: Joanne Kurtzberg, M.D. and Tang-Her Jaing, M.D.

- (1) 10:20 - 10:50 A.M. Cord blood transplantation for children with genetic disorders - data from the COBLT study. Joanne Kurtzberg, M.D., Duke University, Durham, NC.
- (2) 10:50 - 11:15 A.M. Unrelated cord blood transplantation for childhood hematologic malignancies. Eliane Gluckman, M.D., Hospital Saint-Louis, Paris, France.
- (3) 11:15 - 11:30 A.M. Unrelated cord blood transplantation for transfusion-dependent thalassemia in young children. Tang-Her Jaing, M.D., Chang Gung Children's Hospital, Taoyuan, Taiwan.
- (4) 11:30 - 11:45 A.M. Outcomes of unrelated cord blood transplants and allogeneic-related hematopoietic stem cell transplants in children with high-risk acute lymphocytic leukemia. David A. Jacobsohn, M.D., Northwestern University, Chicago, IL.
- (5) 11:45- Noon Total body irradiation, fludarabine, melphalan and allogeneic hematopoietic stem cell transplantation for advanced pediatric hematologic malignancies. Demetrios Petropoulos, M.D., MD Anderson Cancer Center, Houston, TX.

Noon - 1:00 P.M. LUNCH (provided) Exhibits Open

Session VI. 1:00 - 3:00 P.M. Multipotent Stem Cells and Regenerative Medicine.

Chairpersons: Catherine Verfaillie, M.D. and Joanne Kurtzberg, M.D.

- (1) 1:00 - 1:30 P.M. Culture of multipotent adult progenitor cells (MAPCs). Catherine Verfaillie, M.D., University of Minnesota, Minneapolis, MN.
- (2) 1:30 - 2:00 P.M. The biology of mesenchymal cells and their clinical application. Darwin Prockop, M.D., Tulane University, New Orleans, LA.
- (3) 2:00 - 2:20 P.M. Wharton's jelly stem cells: isolation, extraction and preliminary characterization. Curtis Cetrulo, M.D., Tufts University School of Medicine, Boston, MA.
- (4) 2:20 - 2:40 P.M. The fetal sheep model for assessing the full differentiative potential of human stem cells. Esmail D. Zanjani, Ph.D., University of Nevada, Reno, NV.

2:40 - 3:00 P.M. Panel Discussion with Questions/Comments from the audience: Multipotent Stem Cells and Regenerative Medicine.

Moderators: Catherine Verfaillie and Joanne Kurtzberg

3:00 - 3:20 P.M. COFFEE BREAK Exhibits Open

Session VII. 3:20 - 5:00 P.M. Accreditation Issues and the Report from the Institute of Medicine.

Chairperson: Richard Champlin, M.D.

- (1) 3:20 - 3:40 P.M. The FACT/NETCORD Accreditation Program. Phyllis Warkentin, M.D., University of Nebraska Medical Center, Omaha, NE.
- (2) 3:40 - 4:00 P.M. AABB Standards and Accreditation - 2005. James McMannis, Ph.D., MD Anderson Cancer Center, Houston, TX.
- (3) 4:00 - 4:30 P.M. The Institute of Medicine Report. Richard Champlin, M.D., MD Anderson Cancer Center, Houston, TX.

4:30 - 5:00 P.M. Panel Discussion with Questions/Comments from the audience: Comments on Accreditation Issues and the Institute of Medicine Report.

Moderator: Richard Champlin

5:00 P.M. Adjourn.

FACULTY

Dr. John Wagner, M.D., University of Minnesota, Minneapolis, MN
Dr. Richard Champlin, M.D., MD Anderson Cancer Center, Houston TX
Frederick Appelbaum, M.D., Fred Hutchinson Cancer Research Center, Seattle, Washington
Juliet Barker, M.D., University of Minnesota, Minneapolis, MN
Bruce Blazar, M.D., University of Minnesota, Minneapolis, MN
Rafael Bornstein, M.D., Madrid Cord Blood Bank, Madrid, Spain
Hal Broxmeyer, Ph.D., Indiana University School of Medicine, Indianapolis, IN
Jo-Anne van Burik, M.D., University of Minnesota, MN
Curtis Cetrulo, M.D., Tufts University School of Medicine, Boston, MA
Nelson Chao, M.D., Duke University Medical Center, Durham, NC
Emer Clarke, Ph.D., StemCell Technologies, Vancouver, BC, Canada.
Dennis Confer, M.D., National Marrow Donor Program, Minneapolis, MN
Michael Creer, M.D., St. Louis Cord Blood Bank, St. Louis, MO
Manuel N. Fernandez, M.D., Hospital Puerta de Hierro, Madrid, Spain
Eliane Gluckman, M.D., Hospital Saint-Louis, Paris, France
David A. Jacobsohn, M.D., Northwestern University, Chicago, IL
Tang-Her Jaing, M.D., Chang Gang Children's Hospital, Taiwan University, Taoyuan, Taiwan
Joanne Kurtzberg, M.D., Duke University Medical Center, Durham, NC
Larry Lasky, M.D., Ohio State University, Columbus, OH
Mary Laughlin, M.D., Case Western Reserve University, Cleveland, OH
Jeffrey McCullough, M.D., University of Minnesota, Minneapolis, MN
James McMannis, Ph.D., MD Anderson Cancer Center, Houston, TX
Demetrios Petropoulos, M.D., MD Anderson Cancer Center, Houston, TX
Darwin Prockop, M.D., Tulane University, New Orleans, LA
Pablo Rubinstein, M.D., New York Blood Center, New York, NY
Elizabeth Shpall, M.D., MD Anderson Cancer Center, Houston, TX
Haruko Tashiro, M.D., Teikyo University, Tokyo, Japan
Satoshi Takahashi, M.D., University of Tokyo, Japan
Catherine Verfaillie, M.D., University of Minnesota, Minneapolis, MN
Phyllis Warkentin, M.D., University of Nebraska, Omaha, NE
Esmail D. Zanjani, Ph.D., University of Nevada, Reno, NV

The members of the Program Committee for the 2005 Symposium are:

John Wagner, M.D., University of Minnesota, Minneapolis, Minnesota
Richard Champlin, M.D., MD Anderson Cancer Center, Houston, Texas
Frederick Appelbaum, M.D., Fred Hutchinson Cancer Research Center, Seattle, Washington
Stephen J. Forman, M.D., City of Hope National Medical Center, Duarte, California
Eliane Gluckman, M.D., Hospital Saint-Louis, Paris, France
Christopher Gresens, M.D., Blood Source, Sacramento, California
Joanne Kurtzberg, M.D., Duke University, Durham, North Carolina
Thomas Lane, M.D., University of California, San Diego, California
Elizabeth Shpall, M.D., MD Anderson Cancer Center, Houston, Texas
Satoshi Takahashi, M.D., University of Tokyo, Japan
Kenneth Weinberg, M.D., Children's Hospital of Los Angeles, Los Angeles, California

Subcommittee on Cord Blood Banking:

Michael Creer, M.D., St. Louis Cord Blood Bank
Jeffrey McCullough, M.D., American Red Cross - North Central Blood Services Cord Blood Program
Lawrence Petz, M.D., StemCyte International Cord Blood Center

Don't forget to visit the Cord Blood Forum at:

www. CordBloodForum.org

The Cord Blood Forum website provides an up to date Annotated Bibliography of published information about umbilical cord blood transplantation in multiple categories.

Also available on the Forum are Interactive Forums for Medical Professionals, Patients and Donors; Lists of Upcoming Conferences, Cord Blood Transplant Centers and Cord Blood Banks; Links to other sites; and Comments about Current Cord Blood Forum Issues.

You may also wish to subscribe to our periodic newsletter. Please follow the instructions listed on the Cord Blood Forum Home Page, or send an e-mail to subscribe@cordbloodforum.org.

CordBloodForum.org

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The 3rd Annual International Umbilical Cord Blood Transplantation Symposium
Los Angeles, California
June 3-4, 2005
Final Program now available!

If you would like to be on the mailing list to receive updated information from the Cord Blood Forum, please enter your email address into the box below or [CLICK HERE](#).

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Interactive Forums

- Medical Professionals
- Patients
- Donors

Submit a question or comment

Medical Professionals: Send an e-mail to medical_network@cordbloodforum.org

Patients: Send an e-mail to patient_network@cordbloodforum.org

Donors: Send an e-mail to donor_network@cordbloodforum.org

Wishes Statement

Cord Blood Transplant Info

- Transplant Physicians
- Hema/Onc Physicians
- Transplant Coordinators
- Cord Blood Banks
- Patients
- Cord Blood Donors

Upcoming Conferences

Cord Blood Forum Issues

European Study Updates Results of Umbilical Cord Blood Transplants in Adults (CancerConsultants, 26 April 2005)

The Institute of Medicine provides strong encouragement for cord blood banking and transplantation in a report requested by the United States Congress

Press Release summarizing the Institute of Medicine Report (15-16 April 2005)

- Umbilical Cord Blood, USA Needs 100,000 Donations Over Next Few Years, IOM Report Says (Medical News Today)
- Report Calls for Umbilical Donations (GlobeandMail.com)

"Cord Blood is Feasible for Adult Patients." A summary of a presentation at the 2004 Annual Meeting of the American Society of Hematology by Dr. Henson Chao (Duke University) on transplantation of adults with umbilical cord blood units. [Click HERE](#).

Press Releases about Double Cord Blood Transplants:

- Are Two Umbilical Cord Blood Units Better Than One for Transplantation? (Cancer Consultants, 11 Feb 2005)
- Cord Blood from Two Donors Okay for Leukemia (Reuters Health, 4 Feb 2005)
- Cord Blood: An option for leukemia patients (Pregnancy and Baby, 19 March 2005)

For further details about the article in Blood about transplanting two-cord blood units, [click HERE](#).

Information on Umbilical Cord Blood Transplantation at the American Society of Hematology Meeting in San Diego, California, December 3-7, 2004.

- Review of the Symposium entitled *Cord Blood Transplantation: From Science to Practical Applications* which was presented on Friday, December 3, 2004. This symposium was jointly sponsored by the National Marrow Donor Program (NMDP) and the University of Minnesota. To review a summary of this Symposium [click HERE](#).
- Important new information about sickle cell anemia.

The newly posted information supplements the review of selected abstracts regarding cord blood transplantation that were

Annotated Bibliography

Simply click on any of the topics listed below to see an annotated bibliography of recent data pertinent to that topic, or click on the link above for a complete list of all topics. You may also search for any topic and/or author by clicking on the **SEARCH** link above to access our comprehensive site search feature.

Please note that a link to an online abstract or full text version of each article is provided, if publicly available. Individuals with subscriptions to the journal may have online access to full text articles with a member sign-in on the journal's website. ADP members have online access to all full text articles published in *Blood* (initial sign-in required).

- Recent Reviews
- Transplantation of Adults
- Multi-cord Transplants
- Reduced Intensity and Non-Myeloablative Transplants
 - Cord Blood Transplants
 - Marrow and PBSC Transplants
- Cell Dose
- Availability and Time Required to Obtain Cord Blood versus Bone Marrow
- Cord Blood Transplantation in Children
 - Malignant Disorders
 - Congenital Disorders
- Graft-Versus-Host-Disease (GVHD)
- HLA Matching
- Graft-Versus-Leukemia (GVL) Activity
- Survival
- Sickle Cell Disease and Thalassemia- Clinical Findings and Results of Transplantation
- Related Cord Blood Transplantation
- Immune Reconstitution
- Cord Blood Banking
 - Overview
 - Informed Consent
 - Strategies for Collection
 - Processing, Cryopreservation and Infusion
- Ex-vivo Expansion of Hematopoietic Progenitor Cells
- New Concepts in Cord Blood Transplantation
- Stem Cell Plasticity and Regenerative Medicine