

**March 14-15, 2012**

Plasma Transfusion:  
Current Status and Future Directions

The Bernard Fantus, MD  
Symposium

*Honoring the 75<sup>th</sup> anniversary of the  
establishment of the first U.S. hospital blood  
bank at Cook County Hospital*

Dinner, March 14, 2012:  
John H. Stroger, Jr. Hospital of Cook County  
1901 West Harrison St.  
Chicago, IL 60612

Symposium, March 15, 2012:  
Oak Brook Hills Marriott  
3500 Midwest Road,  
Oak Brook, IL 60523

Sponsored by:  
**The John H. Stroger, Jr. Hospital of Cook County & the Illinois Association of Blood Banks**



Photo courtesy of Mrs. Muriel Fantus Fulton

# Plasma Transfusion: Current Status and Future Directions

## Dr. Bernard Fantus

Dr. Bernard Fantus was born in Budapest on September 1, 1874. He attended the Real-Gymnasium in Vienna prior to immigrating to the United States. He received his Doctor of Medicine degree from the University of Illinois at Chicago College of Medicine in 1899. He was appointed a professor of Pharmacology and Therapeutics at the University of Illinois at Chicago from 1903 to 1924. From 1924 to 1932 he was an Associate Professor of Medicine at Rush Medical College. Stimulated by the reports of Russian physicians, he became interested in investigating the possibility of preserving blood from live donors. On March 15, 1937, he established the "Blood Preservation Laboratory" on the third floor of the main hospital building. He coined the idea and the phrase "blood bank" because it signified the saving of blood in a "bank" from which "withdrawals" could be made. This laboratory became an asset in the treatment of surgical and medical emergencies at Cook County hospital; in 1936 there were 649 blood transfusions; after establishment of the Blood Bank there were 1354 transfusions the following year. The phrase "Blood Bank" entered popular and medical usage after World War II.

### References

Ramsey G, Schmidt PJ. Transfusion Medicine in Chicago, Before and After the "Blood Bank". *Transfusion Medicine Reviews* 2009;24(4):310-321.

Telischi M. Evolution of Cook County Hospital Blood Bank. *Transfusion* 1974;14(6):623-628.

## John H. Stroger Hospital of Cook County

The Cook County Health & Hospitals System (CCHHS) oversees a comprehensive, integrated system of healthcare throughout Chicago and suburban Cook County through its hospitals, ambulatory and community health network clinics, public health department, correctional healthcare facility, and outpatient infectious disease center. The CCHHS (formerly known as the Cook County Bureau of Health Services) is comprised of: John H. Stroger Jr. Hospital (named for the first African-American president of the Cook County, Illinois Board of Commissioners), Provident Hospital, Oak Forest Hospital, Cook County Department of Public Health, Cermak Health Services, the Ruth Rothstein CORE Center and the 16 Ambulatory and Community Health Network (ACHN) clinics. CCHHS services are available to the more than five million residents of Cook County, regardless of their economic status or ability to pay. More than 500,000 patients receive care each year from the CCHHS. The scope of healthcare services provided includes prenatal care, communicable diseases, geriatric medicine, and environmental health. The System is a leader in innovative health programs that target those diseases and conditions that disproportionately impact the populations that it serves. Those illnesses include asthma, diabetes, HIV/AIDS, trauma, cancer, and high risk pregnant women and their newborns. The CCHHS hospitals are recognized as leading teaching centers. They are home to a wide array of residency and fellowship programs. The physicians at CCHHS hospitals have been pioneers in the use of important medical and surgical techniques, with noted advances in the treatment of trauma and burn victims. At CCHHS facilities resident and attending physicians work together to meet the needs of the area's multi-ethnic population.

# Plasma Transfusion: Current Status and Future Directions

In the past 25 years, there has not been a national scientific conference in the US dedicated to reviewing science behind the clinical use of plasma. The National Institute of Health conducted a consensus symposium in 1984 regarding indications and risks of fresh frozen plasma because at that time it was felt that the use of plasma was increasing without solid scientific justification or recognition of the risks of such therapy. Unfortunately, the same is true today.

Inappropriate plasma transfusions are still occurring despite the fact that between the year 2000 and 2011 (as of March 4<sup>th</sup>), a total of 476 articles were published in the scientific literature that we identified by a query of the PubMed database using the terms “Plasma” [Major] and “Transfusion”. Thus, there is significant amount of published information, but this information has not ensured that plasma is transfused appropriately.

There is a need to have all the relevant clinical information about plasma transfusion concisely synthesized and then published in a single collective document so that it can be readily identified and accessed. To accomplish this, we plan to hold this symposium. Additionally, we plan to publish the conference proceedings as a supplement in the journal TRANSFUSION.

## **Generously Supported Through Educational Grants from:**

Abbott Laboratories, Inc	Fenwal, Inc.
American Red Cross Blood Services	Heartland Blood Center
Baxter International, Inc	LifeSource / Institute for Transfusion Medicine
Blood Centers of America	Mississippi Valley Blood Center
Blood Systems, Inc.	Roche Diagnostics Corporation

## **Program Objectives**

Upon completion of this activity, participants should be able to:

- 1) Describe the properties of plasma components and current clinical utilization of plasma transfusions in therapeutic apheresis, reversal of drug-induced coagulopathy, treatment of severe hemorrhage and in invasive procedures
- 2) Discuss point-of-care testing issues which impact plasma transfusion
- 3) Cite adverse effects which can occur as a result of plasma transfusion
- 4) Employ knowledge gained regarding plasma transfusions to improve patient care

## **Target Audience**

This activity has been designed to meet the educational needs of physicians, trainees, nurses, and laboratory technical staff involved in transfusion medicine.

## **Level of Instruction**

Intermediate

## Symposium Schedule

Wednesday, March 14, 2012

John H. Stroger, Jr. Hospital of Cook County  
1901 West Harrison St.  
Chicago, IL 60612

6:00PM-8:00PM          Dinner

**“Problem Seen, Problem Solved;  
Bernard Fantus and Blood, John Elliott and Plasma”**  
Paul Schmidt, MD

Thursday, March 15, 2012

Oak Brook Hills Marriott  
3500 Midwest Road,  
Oak Brook, IL 60523

8:00AM-8:10AM	Introduction Ram Kakaiya, MD
8:10AM-8:20AM	TRANSFUSION: Editor’s perspective Paul Ness, MD
8:20AM-8:30AM	NHLBI research initiatives in transfusion medicine Simone Glynn, MD
8:30AM-8:40AM	AABB contributions to plasma transfusion safety Darrell Triulzi, MD
8:40AM-9:30AM	Plasma components: Properties and use Richard Benjamin, MD, PhD
9:30AM-10:20AM	Plasma transfusion for bedside and operating room invasive procedures Simon Stanworth, MD
10:20AM-10:40AM	Break
10:40AM-11:30AM	Plasma transfusion for patients with severe hemorrhage: What is the evidence? Jeannie Callum, MD

## Plasma Transfusion: Current Status and Future Directions

11:30AM-12:20PM	Use of plasma and plasma products for therapeutic plasmapheresis Bruce McLeod, MD
12:20PM-2:00PM	Lunch
2:00PM-2:50PM	Plasma transfusion for reversal of drug-induced coagulopathy Walter Dzik, MD
2:50PM-3:10PM	Break
3:10PM-4:00PM	Use of point-of-care testing to guide plasma transfusion Lawrence Goodnough, MD
4:00PM-4:50PM	Adverse effects of plasma transfusion Girish Vyas, MD, PhD
4:50PM-5:15PM	Roundtable
5:15PM	Adjourn

## Symposium Speakers

Richard Benjamin, MD, PhD — American Red Cross, Chief Medical Officer

Jean Callum, MD — Sunnybrook Health Science Centre, Director Transfusion Medicine & Tissue Banks

Walter Dzik, MD — Massachusetts General Hospital, Co-Director, Blood Transfusion Service

Simone Glynn, MD — National Institutes of Health, Branch Chief, Transfusion Medicine and Cellular Therapeutics Branch, Division of Blood Diseases and Resources, National Heart, Lung and Blood Institute

Lawrence Goodnough, MD — Stanford University Medical Center, Director, Transfusion Service and Stanford University, Professor of Pathology and Medicine

Bruce McLeod, MD — Rush University Medical Center, Professor of Medicine and Pathology

Paul M. Ness, MD — Johns Hopkins Medical Institutions, Professor, Director of Transfusion Medicine

Paul Schmidt, MD — Florida Blood Services, Transfusion Medicine Academic Center

Simon Stanworth, MD — National Blood Service, United Kingdom, Consultant Hematologist

Darrell Triulzi, MD — Institute for Transfusion Medicine, Vice President and Medical Director

Girish Vyas, MD, PhD — University of California at San Francisco, Professor, Department of Laboratory Medicine

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**“Problem Seen, Problem Solved;**  
Bernard Fantus and Blood, John Elliott and Plasma”  
Paul Schmidt, MD

## Dinner Registration

Last name \_\_\_\_\_ First name: \_\_\_\_\_

Title: \_\_\_\_\_

Institution: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

City	State	Zip
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Business Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_

E-Mail address: \_\_\_\_\_

Can this email address be included in a list for ILABB notices and mailings?     YES     NO

Registration Fees:

Dinner: \$35

**Please note that dinner registration does NOT include the 3/15/12 symposium; please see next page for symposium registration**

MAIL REGISTRATION FORM AND CHECK (PAYABLE TO ILABB) TO:

Treasurer, ILABB  
Illinois Association of Blood Banks  
P.O. Box 2123  
Glenview, IL 60025

(Note: Credit Cards are NOT accepted)

Questions: email: [ilabbinfo@gmail.com](mailto:ilabbinfo@gmail.com)

Or contact Robyn Bruns, Lifesource Blood Center: 847-260-2744, [rbruns@itxm.org](mailto:rbruns@itxm.org)

Plasma Transfusion: Current Status and Future Directions

Symposium, March 15, 2012:  
Oak Brook Hills Marriott  
3500 Midwest Road,  
Oak Brook, IL 60523

Symposium Registration

Last name \_\_\_\_\_ First name: \_\_\_\_\_  
 Medical Technologist  Nurse  Physician  
 Other \_\_\_\_\_ Title: \_\_\_\_\_

Institution: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City State Zip

Business Phone: \_\_\_\_\_ Home Phone: \_\_\_\_\_

E-Mail address: \_\_\_\_\_

Can this email address be included in a list for ILABB notices and mailings?  YES  NO

Registration Fees:

- Technologist/Nurse \$90
- Physician \$100
- SBB Students, Pathology Residents and Transfusion Medicine Fellows: \$25 (advanced registration ONLY!)

Please note that symposium registration does NOT include the 3/14/12 dinner; please see previous page for dinner registration

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PARKING, CONTINENTAL BREAKFAST AND LUNCH ARE INCLUDED

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