



In a Different Vein

A NEWSLETTER OF THE
MICHIGAN
ASSOCIATION
OF
BLOOD BANKS

Vol. XXI, No. 3
Summer, 2002

President's Message

Make new friends, but keep the old.
One is silver and the other gold.

Friends are a treasure; their worth immeasurable. During the hustle and bustle of every day life, it's good to take a moment to appreciate our friends. Fortunately, the MABB has been well blessed. When you are planning the annual meeting, you realize just how many friends we depend upon for the success of our meeting.

Our Corporate members and Exhibitors are great. Year after year they support our meeting. They set up displays. They bring the newest and best products for us to touch and view. They provide information on new technologies. They give us little treats and presents. They enrich our meeting with their presence.

How would we have a meeting without Speakers? We invite experts from near and far. They enlighten and entertain us. Sometimes they challenge our preconceived notions and well founded truths. Other times they comfort and console us by sharing their triumphs and frustrations. Monies are provided to us from our speaker sponsors. All that they ask in return is that we take a moment to remember a friend's contributions to the blood banking community.

It takes a planning committee to coordinate all of the events. Many people work long hours behind the scenes to make sure our needs are met. From the food to the handouts to making sure that name badges are available, every detail needs someone to provide service. Committee members become great friends.

Why would you have a meeting if no one attended? It takes our members to make the meeting a success. So I am urging you to make the time to come and renew your friendships within the MABB. See a new side of some of your old antibody



*Linda Cardine
MABB President*

friends. Share advice, commiserate about mutual problems and enjoy the companionship of your colleagues. In this high tech world there is still nothing like face to face conversations. Friendships need tending. They require time. Like a garden they must be nourished. When you get your brochure, please don't toss it aside. Sign up early and call a friend and invite them to join you. And while you are there, give Michelle Tuson a hug for her hard work and thank our many friends. You'll be glad you came. You'll go home a little richer.

Make sure when attending the annual meeting to visit with our wonderful Exhibitors during the breaks and after lunch.

2002 MABB Exhibitors

American Red Cross/NTL
American Red Cross/SE MI Region
Arlington Scientific
Baxter Healthcare
Bio-Logics Products, Inc.
Bryan Biologicals
Charter Medical, Ltd.
Gambro BCT
Helmer Labs
Hemophilia Resources of America
Jewett/Sorvall
Novo Nordisk Pharmaceuticals
Ortho Clinical Diagnostics Systems
Terumo Medical
ThermoGenesys
Timemed Labeling Systems

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OF BLOOD BANKS**

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In a Different Vein is a quarterly publication of the Michigan Association of Blood Banks.

Please feel free to submit any articles, announcements, advertisements, or case studies to *In a Different Vein*. Items of a personal note regarding colleagues are also welcome.

Send articles to editors:
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Crittenton Hospital Blood Bank
1101 W. University Drive • Rochester, MI 48307
(248) 652-5275

-or-

Ann Steiner

Ortho-Clinical Diagnostics
1 (800) 322-6374 Ext. 4103

2001 - 2002 MABB OFFICERS

PRESIDENT

Linda Cardine, MT(ASCP)SBB

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PAST PRESIDENT

Sharon Cisco, MT(ASCP)SBB

SECRETARY/TREASURER

Patricia Fedoronko, MT(ASCP)SBB

MEMBERS-AT-LARGE

MaryJo Drew, MD, MHSA

Bruce Newman, MD

Peggy Stoe, MT(ASCP)SBB, CQA, ASQ

Margaret Wilde, MT(ASCP)SBB

"STRESS" ANTIBODIES:
HOW TO COPE WHEN
EVERYTHING IS POSITIVE

**MABB SPRING WORKSHOP
2002**

*Warm
Autoantibodies*



*Antibodies to
High Incidence*

The Spring Workshop "How to Cope When Everything is Positive" was a great success with the new 1-day format. Lectures were held in the morning and the wet workshop in the afternoon. This gave participants the opportunity to attend a half-day or whole day conference. The morning session opened with an informative talk on the clinical side of warm auto-immune hemolytic anemia by Dr. Paul Adams from Genesys Medical Center. Jan Hamilton from Detroit Red Cross did a wonderful job with high-frequency antibodies. Another discussion concerned hypertransfusion protocols for sickle cell and thalassemia patients. We had a good turnout for the afternoon wet workshop on alloantibodies underneath a warm-autoantibody. This turned out to be a good challenge for a procedure that is not routine.

We hoped those of you who attended enjoyed the day and we will continue to bring challenging workshops each spring dedicated to enhancing our jobs as Medical Technologists. We also hope those of you who were not able to make it will try in the future.

Thank you to Ortho Clinical Diagnostics Systems and Bryan Biologicals for your continued support. It is because of your help that these workshops continue to be the success they are. Thank you to MSU and the staff for the facility and extraordinary help in the solving of any last minute glitches.

by: Michelle Horan-Bensette

Michigan Association of Blood Banks Board of Directors Meeting

June 11, 2002

Attendance: Linda Cardine, Michelle Tuson, Sharon Cisco, Dr. Bruce Newman, Margaret Wilde, Margaret Stoe, Patricia Fedoronko and Dr. Mary Jo Drew.

- I. Meeting was called to Order at 3:22 pm
- II. Review of Minutes: Motion was made and approved to accept the minutes of the previous meeting.
- III. Financial Report: motion was made and approved to accept the financial report as presented.
- IV. Committee Reports
 - A. Education:
 1. Blood Utilization Workshop held at Hutzel Hospital was very successful: 66 people attended.
 2. MCBC would like to have the Blood Utilization Lecture given in their area, with local speakers presenting the same material.
 3. American Red Cross would like to present another workshop on neonatal transfusion in the fall.
 - B. Spring Workshop at Michigan State University was successful: 23 attended.
 - C. Membership: Regular rotation of the Committee Chair was discussed. We would like to see members from areas outside Detroit also sit on this committee. Membership recruitment was discussed.
 - D. Newsletter: discussion to expand topics in the newsletter were discussed:
 1. Puzzles
 2. Case Studies
 3. Photos of staff from other hospitals
 4. Photos of hospital supervisors
 5. Facts about different hospitals
 6. Blood center issues relevant to hospitals
- V. Annual Meeting
 - A. Agenda was discussed
 - B. Speakers have been selected
 - C. Vendors have been selected
 - D. Marketing techniques were discussed: send Post Cards to membership as reminder that the Annual Meeting will be held at the Double Tree Hotel, Romulus, MI on September 11 & 12, 2002.
- VI. Old Business
 - A. Emeritus Members: guidelines were discussed. Sharon Cisco will review the By-Laws concerning Emeritus Members
 - B. A Committee for our 50th Anniversary was discussed.
- VII. New Business – None
- VIII. Items from the Floor – None
- IX. Adjournment – meeting adjourned at 5:15 p.m.

Summer, 2002

Wanted: Poster Submissions

Share your experiences, traumas, and yes, even life lessons in transfusion medicine! Submit a poster presentation for the fall meeting, to be held September 11-12, at the DoubleTree Hotel in Romulus, MI.

Any technical, serological, administrative, or educational topic is welcome. A brief, written abstract, or summary, of the presentation, including the authors, purpose, materials & methods, results, & conclusions, should be submitted to Dr. Mary Jo Drew by August 30, 2002, at the following address:

Mary Jo Drew, MD, MHSA
Division Head, Transfusion Medicine
Henry Ford Hospital Blood Bank
2799 W. Grand Blvd.
Detroit, MI 48202
313-916-1573
mdrew1@hfs.org

Poster displays can be generated by computer graphics, color printed PowerPoint or other graphics presentations attached to a poster board, or by other means. Photos, charts & graphs make for a more interesting and dynamic presentation that will grab your audience's interest. Keep observations brief and summarize findings. Poster display size is generally limited to approximately 3' x 5', so keep this in mind when designing the poster layout.



MABB 48TH ANNUAL MEETING

Wednesday ~ September 11th ~ Agenda

- 7:30 Registration and Continental Breakfast ~ *Muffin Mania*
Courtesy of Terumo Medical Corp.
- 8:30 **Flow Charts for Antibody Identification ~ Marilyn K. Moulds, MT(ASCP)SBB**
Tired of headaches and double vision from squinting at antibody panel anagrams? Go with the flow! Marilyn Moulds will show you an easier way to decipher those pesky antibodies using flow charting techniques.
- 9:15 **Where Have All the Lectins Gone? Reflections on 40 years in blood group serology ~ W. John Judd, FIBMS, MIBiol**
The seedy past of immunohematology has at last been stemmed. While you may go nuts over past practices, you will find that the daily grind of pestle and mortar has been replaced by chemicals, columns, clones and codons. But wait, new fruits and fungi abound!
- 10:00 Refreshments and Exhibits
- 10:45 **Pathogen Inactivation: Peyton Metzel, PhD**
Dr. Metzel will present the latest developments in the showdown against transfusion-transmitted viruses.
Dr. Metzel's lecture is sponsored by Baxter Healthcare Corp.
- 11:30 **Transfusion Practice Case Studies ~ Coordinated by Bruce Newman, MD MaryJo Drew, MD Martha Higgins, MD Sherwin Imlay, MD**
- 12:30 **LUNCH AND EXHIBITS ~ *Classic Club Sandwich***
(Vegetarian available upon request with registration)
- 1:30 **MABB Business Meeting**
- 2:00 **Reserve Response in National Crises ~ A. Bradley Eisenbrey, MD, PhD**
Dr. Eisenbrey will share the lessons that the military and the Armed Services Blood Program have learned from 9/11 about managing blood needs during national emergencies.
- 2:45 ***2001 Kay Beattie Lecture: Monoclonal Reagents ~ Performance Characteristics and Pitfalls ~ Marilyn K. Moulds, MT(ASCP)SBB**
Dolly the sheep wasn't the first breakthrough in the field of cloning! Find out about the pleasures and possible pitfalls of working with monoclonal blood bank reagents.
- 3:30 **Refreshments and Exhibits**
"Sundae's Fun Day" ~ Build your own sundae!
- 4:15 ***2002 Kay Beattie Lecture: Life as an Rh Antigen ~ Connie Westhoff, MT(ASCP)SBB, PhD**
Dr. Westhoff will reveal where these antigens originated (with some pretty low-life) and where they might be going.
***Both the 2001 and 2002 Kay Beattie Lectures are sponsored by Michigan Community Blood Centers**
- 5:00 **Adjourn**

Thursday ~ September 12th ~ Agenda

- 7:30 Registration and Continental Breakfast ~ *Bagel Blitz*
- 8:30 **New Therapeutic Products for the Management of Coagulopathies ~ Alvin Schmaier, MD**
Recent advances in pharmacologic therapies in hemostasis/thrombosis that affect transfusion management. Dr. Schmaier gives us clues as to what surgeons are doing to both cause bleeding and to stop it cold!
- 9:15 **HIPAA and You! ~ Edward B. Goldman, JD**
The new Health Insurance Privacy and Portability & Accountability Act encourages simplification through the use of electronic medical records and billing systems. Find out how the act affects your work in the blood bank and what hospitals are doing to comply.
- 10:00 Refreshments and Exhibits
- 10:45 **Blood Group Antigens ~ Why Do We Have Them? ~ Connie Westhoff, MT(ASCP)SBB, PhD**
Convinced that blood group antigens exist simply to bedevil us? Dr. Westhoff will present information that some of these troublemakers actually have important functions!
- 11:30 **Serology Case Studies**
Coordinated by Robertson Davenport, MD
Case studies that we have caused us lost sleep and gray hairs.
Robertson Davenport, MD
Gary Pawlak, MT(ASCP)SBB
Karen Koval, MT(ASCP)
- 12:30 **LUNCH AND EXHIBITS ~ *Chicken Caesar Salad***
(Vegetarian available upon request with registration)
- 1:30 **Grace Neitzer Memorial Lecture: Recent Advances in Cord Blood Stem Cell Transplantation ~ Linda Issitt, MT(ASCP)SBB**
Who can cord blood stem cells help? Who does the cord blood belong to? What about testing of donors? Linda Issitt will present the wide variety of medical and ethical issues raised by this promising new treatment.
The Grace Neitzer Memorial lecture is sponsored by Ortho Clinical Diagnostics Systems, Inc.
- 2:15 **Computer Assisted Education in Transfusion Medicine: Design and Implementation ~ Marion Petrides, MD**
New tools to deliver continuing education with video and interactive web-based or free standing computers. Dr. Petrides will be available Thursday evening for additional questions and help.
- 3:00 **Refreshments and Exhibits ~ "Just Desserts"**
- 3:45 **Risky Business! ~ Roberston Davenport, MT**
With all the improvements in blood transfusion safety, why does transfusion still have such a high "dread factor"? Dr. Davenport will present some intriguing demographic variables influencing fear of transfusion, and ways to better present transfusion information to patients.
- 4:30 **Adjourn**

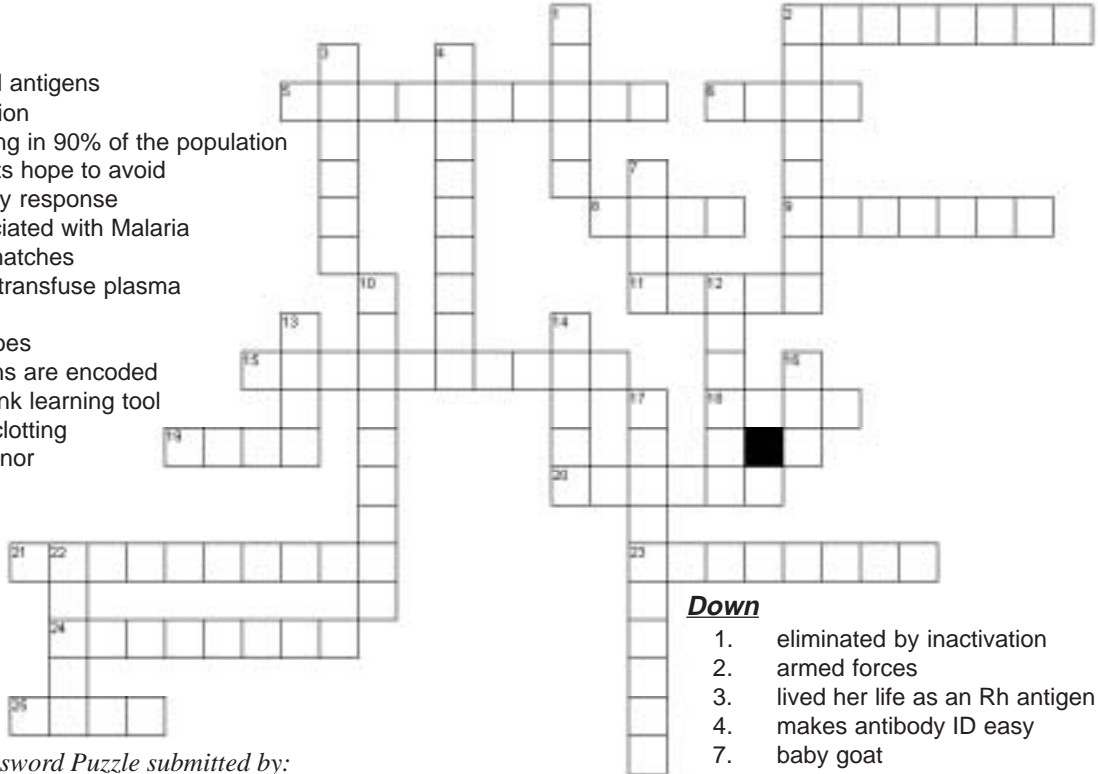
YOU, member and participant, are the reason for our annual program.

*We need increased attendance and participation in order to continue to offer high quality seminars such as this in the future.
Please make room in your schedule to be a part of this educational opportunity.*

MABB Annual Meeting Trivia Puzzle

Across

- 2. site of red cell antigens
- 5. meeting location
- 6. antigen missing in 90% of the population
- 8. what recipients hope to avoid
- 9. elicits antibody response
- 11. antigen associated with Malaria
- 15. when blood matches
- 18. necessary to transfuse plasma
- 19. famous John
- 20. everyday heroes
- 21. where antigens are encoded
- 23. new blood bank learning tool
- 24. essential for clotting
- 25. cord blood donor



Down

- 1. eliminated by inactivation
- 2. armed forces
- 3. lived her life as an Rh antigen
- 4. makes antibody ID easy
- 7. baby goat
- 10. month of the MABB annual meeting
- 12. removes white cells
- 13. necessary for successful meeting
- 14. essential body fluid
- 16. famous for her baked beans
- 17. specific type of antiserum
- 22. new privacy legislation

Crossword Puzzle submitted by:
 MaryJo Drew, MD and
 Linda Cardine, MT(ASCP)SBB

If you have puzzles or other creative activities you would like to submit, please contact Janet Silvestri in the MABB Administrative Office.



MABB 2002 ANNUAL MEETING REGISTRATION FORM

Name _____

Credentials MT(ASCP) SBB MD
 (check all that apply) PhD Other _____

Institution _____

Home Work

Preferred Mailing Address _____

Telephone **Work**
 _____ **Home**

Type of Member _____ **Year Joined** _____
 (see letter code below)

MABB Membership Dues
 A = Individual Non-Physician \$30.00
 P = Individual Physician \$60.00
 I = Institution \$75.00

NOTE: If you are not currently an MABB Member and wish to join at this time, you may register at the member rate and pay your membership dues with this registration.

Check if you are applying for NEW membership along with your registration.

If you would like confirmation of registration, please indicate e-mail address: _____

PLEASE RETURN BOTH REGISTRATION FORM & FEE TO:

Michigan Association of Blood Banks
 P.O. Box 3605 • Center Line, MI 48015-0605

SCIENTIFIC SESSION (circle appropriate day)

Single Day	Wed	Thu	LUNCH IS INCLUDED IN FEE	
MABB Member *			\$ 75	\$ _____
Non-Member**			\$105	\$ _____
Med Tech Student			\$ 30	\$ _____

Both Days	LUNCH IS INCLUDED IN FEE	
MABB Member*	\$125	\$ _____
Non-Member**	\$180	\$ _____
Med Tech Student	\$ 60	\$ _____

Membership Dues \$ _____

TOTAL REMITTANCE \$ _____

* Each institutional member may send ONE non-member at the member rate. Others must be individual MABB members to qualify for member rate.

** Those non-members who apply for membership with this registration may register at the member rate and your membership will be valid through December 31, 2003.

PLEASE NOTE THAT VEGETARIAN LUNCHES ARE AVAILABLE.

Transfusion Related Acute Lung Injury (TRALI): The Great Imitator

This article is one in a series of reviews of topics presented at the 2002 combined annual meeting of the South Central Association of Blood Banks and the California Blood Bank Society, held in Las Vegas, Nevada, April 18-20, 2002.

Arthur Bracey, MD, Medical Director of Transfusion Medicine at St. Luke's Episcopal Hospital, Houston, Texas, and Patricia Kopko, MD, Associate Medical Director, BloodSource, Sacramento, California, presented talks on the TRALI syndrome and its effective work-up, respectively. Both talks provided insight into increasing clinician recognition of this underreported transfusion reaction, and provided a logical framework for investigation of reported cases of TRALI in hospitals.

Dr. Bracey summarized the clinical characteristics of TRALI, which include:

- New onset of hypoxia (decreased oxygen saturation) within 2 hours following transfusion of any blood component
- Opacification ("white-out") of chest X-ray
- Onset of fulminant pulmonary edema
- Absence of physiologic data indicating presence of left ventricular dysfunction/failure
- Presence of leukoagglutinating antibodies in serum of donor or recipient

The pathophysiology of TRALI remains under investigation. Proposed mechanisms include:

- Antibody-mediated interactions leading to injury of the pulmonary capillary bed (implicated antibodies include neutrophil-specific & HLA antibodies against Class 1 and 2 antigens). Antibodies most frequently identified in donor serum.
- Lipid-triggered priming of the respiratory burst in neutrophils localized to the pulmonary vascular endothelium, leading to capillary leakage of fluid into the alveoli of the lungs

The difficulty in diagnosing TRALI stems from several characteristics of the syndrome. TRALI is an uncommon transfusion reaction, with an estimated incidence of 0.02% or 1/5000 per unit transfused. It is easily confused clinically with other conditions such as volume overload or ARDS. The occurrence of TRALI is not predictable by any biological or demographic marker, and it often occurs in seriously ill patients who may already have underlying cardiopulmonary disease.

When presented with a possible case of TRALI, Dr. Kopko indicated that the transfusion medicine physician should discuss this possibility with the patient's attending physician. Type and timing of the reaction, as well as information

*By Mary Jo Drew, MD
Division Head of Transfusion Medicine
& Medical Director of the Blood Bank at Henry Ford Hospital*

gleaned from nursing notes during the implicated transfusion, can be most useful. If multiple blood components are implicated, start by notifying the blood center of components transfused within 2 hours of the reaction. The blood center can then begin its investigation with female donors, who are at higher risk of HLA Class 1 & 2 antibody formation due to pregnancy.

Donor testing, which takes place at the blood center, should include HLA Class I & II antibody testing. If this testing is positive, the results of these tests should be compared with testing of the recipient for his/her HLA type, which is done at the transfusing facility. A "match" for HLA antigen/antibody types between donor and recipient strongly suggests this donor's antibody was the cause of the reaction in the patient.

If donor HLA antibody testing is negative, the donor should be tested for granulocyte antibodies. In this case, these antibodies may be assumed to have caused the reaction in the patient, or patient granulocyte antigen typing may be performed.

If no HLA or granulocyte antibodies are detected in the donor, the recipient may be tested for HLA Class I & II antibodies, and if this testing is negative, for granulocyte antibodies. Dr. Kopko related that in 3 of the 12 cases of TRALI investigated by her blood center, patient HLA or granulocyte antibody was the probable cause of the reaction. Interestingly, in all 3 of these cases, the patient had received a non-leukocyte-reduced RBC prior to the reaction.

Dr. Kopko then reviewed a clinical look-back following a fatal case of TRALI reported to her blood center. The implicated donor was a female frequent plasma donor with 290 prior donations, who had an antibody to granulocyte 5b antigen. Interestingly, out of the 50 patients who had received blood components from this donor, only 7 of 15 reactions found on chart review had been reported to the hospital transfusion service, and 2 of 15 to the blood center. The full report of this investigation may be found in JAMA 2002;287:1968-71.

Dr. Kopko reminded the audience that the FDA requests reporting of all confirmed (by testing) cases of TRALI; with a fatality report for fatal cases, and a MedWatch report for non-fatal cases. In addition, FDA is encouraging look-back in the cases of donors who have donated multiple products, for evidence of reactions that may have been missed or misclassified at the time of their occurrence.

48th Annual Meeting
Sept. 11-12, 2002
See details inside!

MICHIGAN ASSOCIATION OF BLOOD BANKS
P.O. Box 3605 • Center Line, MI 48015-0605



Calendar of Events

September 11-12, 2002
MABB Forty-Eighth
Annual Meeting
DoubleTree Hotel • Romulus, MI

See Agenda & Registration Form Inside



BLOOD BANKER'S PRAYER:

*Grant me.....
The technical skills to detect all antibodies,
The ability to identify both significant
and insignificant antibodies,
And the wisdom to recognize the difference.*

*Jane Swanson, MT(ASCP)SBB
University of Minnesota (retired)*

Jane Swanson ran the Reference Laboratory at the University of Minnesota for many years. She was known for her work on LW, Gy^a and the McLeod phenotype in boys affected with chronic granulomatous disease. More relevant to this contribution, she was interested in the so-called "high-titer, low-avidity" (HTLA) antibodies, and antibodies to white cell antigens (HLA) that reacted with similar determinants on red cells.