



In a Different Vein

A NEWSLETTER OF THE
**MICHIGAN
ASSOCIATION
OF
BLOOD BANKS**

Vol. XXIV, No. 4

Fall, 2001

President's Message *by Sharon Cisco, MT(ASCP)SBB*

Challenges and Successes

Our world was forever altered by the events of September 11th. Each of us will always view some activity with a bit of hesitation for fear that the horror of the World Trade Center should happen to us, to our family, to our friends. Yet this tragedy has brought us all together in a ground swell of patriotism and selflessness, only remembered by those who experienced WWII. The decision to go forward with the MABB Annual Meeting was more than an attempt to bring normalcy to a tumultuous time. It was a defiant act to show our strength in the face of adversity. Linda Cardine, our President-Elect, took on the challenge with a positive and optimistic attitude that would pull everyone together and make this event a success. While many of our members were needed at our blood banks to handle the unknown, the rest came and helped to make the Annual Meeting a success

A special thank you to Mary Jo Drew for putting on her tennis shoes and digging in. Dr. Drew hung posters, moved furniture and was a general go-for whatever needed doing. Dr. Drew also stepped in to do a presentation when Dr. Klein could not get a flight to Detroit. Thank you also to Dr. Rob Davenport, John Judd, Suzanne Butch, Jan Hamilton, and Pat Fedoronko for stepping up to the challenge of giving an excellent presentation with only a one-day notice. Also impressive was Ann Steiner's presentation of the Kay Beattie Lecture. Ann used the slides from Marilyn Moulds, our originally scheduled speaker, and did a fabulous job. Thank you also to the other Board and Committee members who worked so hard and contributed so much to the success of the Annual Meeting, especially Michelle Tuson and Dr. Martha Higgins.

Thank you also to Abbott Labs, American Red Cross/National Testing Labs, American Red Cross/SE Michigan Region, Arlington Scientific, Baxter Healthcare, BioLogics, Bryan Biologicals FFF Enterprises, GAMBRO, Helmer Labs, Kendro, MSA Marketing/Jewett, Inc., Ortho Diagnostics, Pall Medical, Ryan Diagnostics, Terumo Medical, and ThermoGenesis, who supported the MABB Annual Meeting by hosting a booth. A special thank you goes out to the Michigan Community Blood Center and the American Red Cross for sponsoring speakers. Fellowship and camaraderie was deeply felt as we experienced the realization of what had



Sharon Cisco

happened. Thank you to all that attended for not letting a terrorist act stop the MABB from moving forward.

Welcome to our new members, who joined since the last edition of our newsletter (listed on page 9). I had the enjoyable experience of talking to some of them at our Annual Meeting. It was so good for me to hear their positive comments about attending their first MABB event and experience their enthusiasm.

Congratulations to the new 2002 Officers who will take over management of the MABB on January 1st. They are:

President:

Linda Cardine MT(ASCP)SBB

President-elect:

Michelle Tuson MT(ASCP)SBB

Secretary/Treasurer:

Pat Fedoronko MT(ASCP)SBB

At-large Members:

Mary Jo Drew, MD, MHSA

Peggy Stoe MT(ASCP)SBB, CQA, ASQ

Bruce Newman, MD

Margaret Wilde MT(ASCP)SBB

We are very lucky to have such a strong and dedicated group of leaders to carry our organization through the next challenging year.

Thank You to everyone this year who renewed their dues, attended an event or participated by contributing your knowledge or talent. The purpose of the Michigan Association of Blood Banks is to offer educational opportunity. Thank you for making this happen this year. I will always be so proud of having had the opportunity to serve you as president.

**MICHIGAN ASSOCIATION
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

2000 - 2001 MABB OFFICERS

PRESIDENT

Sharon Cisco, MT(ASCP)SBB

PRESIDENT-ELECT

Linda Cardine, MT(ASCP)SBB

PAST PRESIDENT

Sharron Zimmerman, MT(ASCP)SBB

INTERIM SECRETARY/TREASURER

Patricia Fedoronko, MT(ASCP)SBB

MEMBERS-AT-LARGE

MaryJo Drew, MD, MHSA
Peggy Stoe, MT(ASCP)SBB, CQA, ASQ
Michelle Tuson, BS, MT(ASCP)SBB
Margaret Wilde, MT(ASCP)SBB

The Annual Meeting Rap Session Wrap-up

On the very day following the disaster in New York City when people were questioning their future and purpose, the topic of the Rap Session seemed even more appropriate.

Barbara Mannor, MT(ASCP) from McLaren Regional Medical Center in Flint presented the workshop: "Why am I in the Blood Bank — Caring for Ourselves and Our Patients".

The participants introduced themselves with a brief description of where they worked and their position or work experience. The diversity was evident; hospitals, blood centers, physicians, directors, senior techs and brand new graduate techs were represented.

Everyone completed a set of paper exercises to determine their job satisfaction. The results pointed to the major factor in job satisfaction: having control or authority to perform their job. Participants from all levels of work experience felt they did not have as much control or authority over their job as they would like in order to complete their job well. Their primary goal was to offer the best care for patients.

Barbara explained that the different age groups working together in the field require different resources and environment for satisfaction. The more senior employees, who have been accustomed to doing things the same way for a long time, possess more patience in working with the system. New graduates, in contrast, need to have all the information at their disposal and require fast results to keep them happy. All of these attributes are beneficial and managers need to recognize individual needs and talents of employees.

The Rap session was an opportunity to exchange ideas, network and just realize that our colleagues have the same issues.



Meet the Board



Margaret Wilde

Margaret Wilde is a recent addition to the MABB Board of Directors as Member-at-Large. Following is her history.

I was born and raised in SE Michigan, residing in Roseville for the first 18 years of life. I attended Michigan State University for 4 years, calling East Lansing my home. After earning my BS in Medical Technology, I left Michigan to complete a one-year

internship at Wadsworth VA Hospital in Los Angeles, California. I became licensed in the state of California, as well as achieving my ASCP registration as an MT.

Upon return to Michigan, I worked at St. John Hospital in Detroit for 2 years and Hutzel Hospital downtown for another 2 years. At that time, I relocated to Wilmington, North Carolina for 4 years. While there, I worked in a small county hospital (25 beds!) for a year, before hooking up with the American Red Cross Wilmington Subchapter of the Carolinas Region. Up to that time, I had worked as a generalist, but now began my career in the Blood Bank. Once again, I returned to my roots

in Michigan, and began work at SEMARC for over a year as a senior technologist on the afternoon shift. A subsequent move out to Northern Oakland County made more local employment desirable, so I returned to a hospital setting at St. Joseph Mercy Hospital in Oakland. I started as a microbiology tech, but at the first opportunity returned to my true love of blood banking. It was my honest intent to remain there, after so much job jumping during my career. As luck (?) would have it, a new opportunity arose at DMC University Labs as a Group Leader at Harper Hospital. This job has been challenging and rewarding, albeit a pretty long commute from my home in Oxford. I'm still grappling with the idea of moving yet again!

I joined the MABB while a fledgling Blood Banker under Elaine Crouter. I've since earned my SBB and MS in Hospital Administration from CMU. I have served on various committees during my tenure and am a strong supporter of continuing education.

When not blood banking or commuting, I have been known to dabble in basket weaving, bicycling, rollerblading, gourmet dining (not cooking, mind you!) and wine-tasting. I enjoy traveling and made my first trip to France in 2000. I am also the proud momma of two cats, Clawed and Monet.



Peggy Stoe

Having joined the MABB Executive Board in 2001, Peggy Stoe is now entering the second year of her term as member-at-large. Following is her biographical summary.

Peggy Stoe graduated from Marquette University, Milwaukee Wisconsin where I obtained a BS degree in Medical Technology. I was married in 1969, and worked as a Medical Technologist since 1970. My first hospital experience was with Providence Hospital Southfield, Michigan. During my working career at Providence I achieved SBB certification. In 1990 I accepted a Blood Bank supervisory position at the University of Michigan Hospitals where I developed an interest in streamlining processes, mapping information, quality auditing and database development. In 1996 I became certified as a quality auditor by the American Society for Quality CQA (ASQ).

My greatest accomplishment: 32 years of marriage and 5 adult children.

2001 Annual Meeting



2001 President Sharon Cisco and
2002 President-Elect Michelle Tuson



MaryJo Drew, MD



Linda Cardine and Pat Fedoronko



Founder's Award recipient
Martha Higgins, MD



2002 President Linda Cardine, Dr. Martha Higgins, Dr. Rob Davenport,
Dr. Dorothy Halperin, and Secretary-Treasurer Pat Fedoronko



Jon Judd with
Linda Cardine



Dr. Yvette Miller and Dr. Tim Mervak



Jan Deters and Kathy Warnes



Laura Cooling, MD



*Angelo D'Anna of the American Red Cross
with MABB member Suzanne Butch*



Med Tech students from DMC Laboratories



*Special Service Award Recipient
Vija Miske*

The MABB would like to thank all the vendors for their time and hard work in bringing the latest equipment and technology to our attention at the 47th Annual Meeting. Bio-Logics Products, FFF Enterprises, Gambro BCT, Helmer Labs, Terumo Corp., and ThermoGenesis Corp. representatives were unable to be present at the meeting due to airport closures. Any exhibits that were shipped before the meeting were set up so that the distribution material was made available to all attendees. We hope that these vendors will be able to join us next year.

We thank the vendors who were able to exhibit at the meeting for their cooperation during a very difficult time. The exhibits were very well attended and the participants present had the opportunity to meet with the representatives and see their product lines. Their knowledge and expertise in their respective areas was much appreciated. We have listed the phone numbers of all of the exhibitors below for your reference:

Linda Barar	Abbott Diagnostics	800/2431202 ext. 245-7621
Angelo D'Anna	American Red Cross	313/494-2816
Bill Koning	Arlington Scientific, Inc.	616/381-8113
Tim Neldrett	Amer Red Cross/NTL	313/494-2706
Richard Gamble	Baxter Healthcare	847/940-5782
Scott McDermott	Bio-Logics Products, Inc.	801/561-9208
Laurie Schmidt	Bryan Biologicals	313/886-7404
Natalie Shelton	FFF Enterprises, Inc.	810/264-9705
Joseph Roig	Gambro/BCT	847/420-3986
Aaron Stout	Helmer Labs	317/773-9073
Kim Wilkins-Moug	Kendro Laboratory Products	800/522-7746 (3) (3214)
Richard Myers	MSA Marketing/Jewett Mfg.	810/227-4226
Ed DeRose	Ortho Clinical Diagnostics Sys	800/373-3008
Jerry Ragozine	Pall Medical	800/288-8377 x367
Jim Cole	Ryan Diagnostics, Inc.	800/352-3252
Rick Clark	Terumo Corp.	800/283-7866 x4714
Joan Thommen	ThermoGenesis Corp.	916/858-5100



*Jerry Ragozine
Pall Medical*



*Richard Gamble
Baxter/Fenwal Division*



*Vince Majewski, Ann Steiner, Ed DeRose and Brent Mondry
of Ortho Clinical Diagnostics*

Happy Holidays

Ortho-Clinical Diagnostics



Laurie Schmidt
Bryan Biologicals/Immucor

*Wishing you a
peaceful
Holiday Season!
Bryan Biologicals/
Immucor*



Richard Myers and
Bob McMahon from
MSA Marketing/Jewett Mfg.



Linda Barar
Abbott Diagnostics



Natalie Shelton
FFF Enterprises



Jim Cole
Ryan Diagnostics



Susan Reid and Kim Wilkins-Moug
Kendro Laboratory Products



Tim Neldrett
American Red Cross/NTL



Bill Koning
Arlington Scientific, Inc.

MABB Executive Committee Meeting

11 September 2001, DoubleTree Hotel, Romulus, MI

The President, Sharon Cisco, called the meeting to order at 1530. In attendance were Linda Cardine, Bruce Newman, Margaret Wilde, and Michelle Tuson.

The primary focus of the Executive Committee meeting was to determine whether or not to proceed with the MABB Annual Meeting to be held September 12 – 13, 2001, in light of the terrorist attack at the World Trade Center that occurred this morning. The Committee decided to proceed as planned. Several

speakers are unable to get flights to Detroit, as all flights through the United States have been grounded. Linda Cardine is contacting several MABB members and asking them to step in for Dr. Klein, Marilyn Moulds, and Sharon O'Callaghan.

No minutes, old business or new business was reviewed at this time. The meeting adjourned shortly thereafter.

Respectfully submitted,

Linda Cardine
President-Elect

MABB Business Meeting

12 September 2001, DoubleTree Hotel, Romulus, MI

The President, Sharon Cisco, called the meeting to order at 1335.

Minutes: Minutes from the previous Business meeting (14 September 2000) reviewed. Minutes were approved as presented.

Financial Report: The year-to-date Financial Report for the association was summarized by Pat Fedoronko, Interim Secretary/Treasurer. Income as of 1 August 2001 was \$17,613.41; Expenses were \$9,315.07. There are still outstanding bills for Spring Workshop and Annual Meeting. Assets as of 31 August 2001 are \$10,963.67 in the Comerica checking account and \$19,912.11 in the Dreyfus account, totaling \$30,875.78. Current membership number is 268. Motion was made by Suzanne Butch to approve the financial report as presented; seconded by MaryJo Drew.

Election: The following slate of nominated officers was presented to the membership – Michelle Tuson as President-Elect; Patricia Fedoronko as Secretary/Treasurer; Bruce Newman MD as Member-at-Large and Peggy Stoe as Member-at-Large. Both Member-at-Large terms are for two years. Motion was made by John Judd and seconded by Ann Steiner to approve the slate of officers as presented.

Committee Reports –

Education Committee: Mary Jo Drew presented the Education Committee activity report. The **RAP Session** will be a dinner meeting on September 12th along with the Annual Meeting. The topic is "Staffing in the new millennium – how to recruit, retain, and revitalize employees," to be presented by Barbara Mannor. There was a RAP Session earlier in the year with a speaker from the FDA, which was very well received. Dr. Drew was presented with a framed Outstanding Service Award for her service to the MABB on the Education Committee.

Annual Meeting: Linda Cardine offered sincere thanks to the speakers who stepped in at the last minute for the planned presenters who were unable to fly to Detroit. MaryJo Drew, W. John Judd, Suzanne Butch and Ann Steiner were recognized for their dedication in filling in at the last minute so that the Annual Meeting could proceed as planned. Linda was presented with an Outstanding Service Award for her service to the MABB on the Program Planning Committee.

Site Coordination: Dr. Martha Higgins and Michelle Tuson were presented with Outstanding Service Awards for their many years of work as Site Coordinators for the Annual Meeting and for their years of dedicated service in other areas to the MABB.

Membership Committee: Jan Keersmaekers and Melissa Kristofice were recognized for their efforts in creating the new brochure for Membership Renewal to the association. Committee Recognition Awards will be presented to both Jan and Melissa at a later date, as they were not present.

Newsletter Committee: Mary DePouw and Ann Steiner were both commended for their outstanding work on the MABB quarterly newsletter, "In a Different Vein".

MABB Web Site: The new MABB Web Site was presented to the membership by MABB Executive Administrator, Janet Silvestri. Janet navigated the site for the membership. The MABB site contains a variety of pages, including: a welcome by President Sharon Cisco; a listing of new members; brochures for current MABB workshops and seminars; the current "Vein"; archived newsletters; committee chair information and a link to contact the administrative office. The site is still in the development phase and will be revised accordingly.

Sheikh Saeed Award: The Sheikh Saeed Award was presented to Angela Sohn of Providence Hospital. Angela received a check in the amount of \$200 to defray the costs of attending the annual meeting.

Special Service Award: A Special Service Award was presented by Sharon Cisco to Vija Miske of Hurley Medical Center. Vija was recognized for her 25+ years of dedicated service to the organization.

Founder's Award: The Founder's Award was presented to Dr. Martha Higgins, honoring her service and dedication to the association.

Installing of the Past President: Linda Cardine formally installed Sharon Cisco as Past President of the MABB and presented her with the President's Award for 2001.

Adjournment: 1403

Membership Update

by Jan Keersmaekers, MT(ASCP)SBB

I am pleased to welcome all of our newly joining members to the association:

ELIZABETH AUGER MT(ASCP)
HENRY FORD HOSPITAL

CLYDE M BAKKILA MT(ASCP)
DMC UNIV LABS

KAREN BURKEYBYLE MT(ASCP)
PROVIDENCE HOSPITAL

SHARON CAMPBELL MT(ASCP)SBB
METROPOLITAN HOSPITAL

DARLENE COX MT(ASCP)
ST. JOS. MERCY HOSP/ANN ARBOR

DOROTHY DIEFENBACH MT(ASCP)
INGHAM REGIONAL MEDICAL CTR.

JAMES FIEDOR MT(ASCP)
DMC/HARPER HOSPITAL

JENNIFER GESSNER MT(ASCP)
PROVIDENCE HOSPITAL/HCL

ROSEMARIE HAMILTON MT(ASCP)
WM. BEAUMONT HOSP/ROYAL OAK

STEVEN HEATHMAN MT(ASCP)
PROVIDENCE HOSPITAL

ANGELA KACZOR MT(ASCP)
PROVIDENCE HOSPITAL

RORY LIEBROCK MT(ASCP)
PROVIDENCE HOSPITAL

ROSEANNE S MORCHE MS, MT(ASCP)
ST. JOHN HOSPITAL

LINETTE MOULTANE MLT
COVENANT HEALTHCARE/BLOOD BANK

MARY LEE PLAYFORD LAB MANAGER
HILLSDALE COMM HLTH CTR

JILL RAFOS MT(ASCP)
COVENANT MEDICAL CENTER

DENISE M ROSS MT(ASCP)
LAPEER REGIONAL HOSPITAL/BLOOD BANK

DOUGLAS SAGE MT(ASCP)
HURLEY MEDICAL CENTER

RICK SANDERS MT(ASCP)
DMC/HARPER HOSPITAL

SUELLEN SCHOBERT MLT(AMT)
COVENANT HEALTHCARE/BLOOD BANK

BROOKE SMITH MT(ASCP)
ST. JOSEPH MERCY HOSPITAL/ANN ARBOR

ANGELA SOHN MT(ASCP)
PROVIDENCE HOSPITAL

BONNIE TORRES MT(ASCP)
SAGINAW VA

SARAH TURNER MT(ASCP)
WM. BEAUMONT HOSPITAL/ROYAL OAK

MAGDALINA WIGNAN MT(ASCP)CSMLS
PROVIDENCE HOSPITAL

WEIHONG ZHANG MT(ASCP)
PROVIDENCE HOSPITAL

Look for the MABB Membership Renewal mailing, which will arrive in mid-December.



Platelet Membrane Glycoproteins: Functional and Clinical Importance

By William Frickē, MD
Rochester General Hospital

Platelets contain several different types of membrane glycoproteins including ABO blood group antigens, human leucocyte antigens (HLA), and platelet specific antigens. This review will focus on the last group, which includes a series of glycoproteins (Gps) first identified by bands on electrophoresis gels. They are often referred to by Roman numeral (the band number) plus a letter that denotes a sub-band in a larger band. Hence GPIb is the second sub-band (b) of the first major band (I). Antigens on some of these Gps have also been identified serologically using antisera from patients who have made allo- or autoantibodies to platelets and have been named by the investigators. This has led to confusion regarding the nomenclature for platelet antigens and recently a new system, the HPA system, has been introduced that includes alloantigens for which polymorphisms are established. (See table below.)

The platelet Gps serve several purposes in platelet function as shown. These include binding von Willebrand factor (vWF), collagen, and fibrinogen. Binding vWF and collagen in the subendothelium is the first step in hemostasis and leads to adhesion of platelets to a denuded vascular surface with subsequent platelet activation, aggregation, and release of granule contents. Fibrinogen serves as a bridge between aggregating platelets and is one of the last steps in primary hemostasis.

Glycoprotein IB

GPIb occurs in a complex with two other glycoproteins, GPIX and GPV. The major function of GPIb is to bind von Willebrand factor that is exposed following disruption of vascular endothelial cells. Loss of vWF binding capability is most commonly due to mutations in GPIb or GPIX, although full expression of the complex requires the synthesis of all three components. This disorder, called Bernard-Soulier syndrome, results in skin and mucous membrane bleeding and thrombocytopenia. Ristocetin-induced platelet aggregation is abnormal, but aggregation to other agonists is normal.

Platelet-type von Willebrand disease is caused by at least one mutation of GPIb that increases von Willebrand factor binding to platelets. It is characterized by mucocutaneous bleeding, thrombocytopenia, and loss of high molecular weight vWF multimers from the plasma. Platelet aggregation is abnormal in that it occurs in response to concentrations of ristocetin too low to induce aggregation of normal platelets. It differs from type 2B von Willebrand disease in that the platelets are abnormal and not vWF.

Integrins are heterodimeric receptors that consist of an α and β chain in a noncovalent association that are present on a variety of cells, including platelets. The predominant platelet integrins are $\alpha_{IIb}\beta_3$ and $\alpha_2\beta_1$, also called GPIIb/IIIa and GPIa-IIa, respectively.

GPIIb/IIIa is a receptor for fibrinogen that is activated during platelet activation. The activated receptor binds fibrinogen which serves as a bridge between platelets in the forming platelet aggregate. GPIa-IIa are collagen receptors that bind subendothelial collagen, permitting adhesion and leading to platelet activation.

Qualitative and quantitative abnormalities of GPIIb/IIIa that result in decreased fibrinogen binding are seen in Glanzmann's thrombathenia. These patients have skin and mucous membrane bleeding. Platelet aggregation studies are abnormal in response to all standard agonists (thrombin, ADP, epinephrine, and collagen) because they all require fibrinogen binding. Ristocetin-induced aggregation is normal.

A few reports have described abnormalities of the collagen receptors GPIa-IIa in which there is mucocutaneous bleeding.

Immune Thrombocytopenia and Platelet Membrane Glycoproteins

The common forms of immune thrombocytopenia, so-called idiopathic thrombocytopenic purpura (ITP) neonatal alloimmune thrombocytopenia (NATP), and posttransfusion purpura (PTP), are most often caused by antibodies to the platelet Gps.

In ITP, the patient makes autoantibodies to platelet antigens, most often against epitopes on GPIIb/IIIa, but not uncommonly on GPIb-IX-V. In the truly idiopathic form the patient is otherwise healthy, but not infrequently there is associated disease such as lymphoma, other autoimmune disease, or infection. The diagnosis rests chiefly on excluding other causes of thrombocytopenia.

NATP is relatively rare disorder in which the mother forms antibodies against a paternal alloantigen on the fetus' platelets. The antibody can cross the placenta and cause severe thrombocytopenia, putting the fetus at risk for serious bleeding. The antibody is most commonly directed against HPA-1a, a high incidence platelet antigen present on GPIIb/IIIa. Treatment is with washed maternal platelets, which can be given in utero.

PTP occurs when a patient, usually a woman who has been pregnant or previously transfused, makes an antibody to a platelet antigen following a transfusion. For reasons that are not completely clear, the antibody also recognizes the patient's own platelet resulting in severe thrombocytopenia. Treatment is supportive. If bleeding occurs, platelets lacking the offending antigen can be given, HPA-1a is the most common target antigen.

Platelet Glyco-protein	Integrin Name	Associated Alloantigens*	Associated Disorder	Primary Ligand
Ib-IX-V	-	HPA-2a/2b	ITP, NATP	von Willebrand factor
IIb/IIIa	$\alpha_{IIb}\beta_3$	HPA-1a/1b HPA-3a/3b HPA-4a/4b	ITP, NATP, PTP	fibrinogen
Ia-IIa	$\alpha_2\beta_1$	HPA-5a/5b	NATP, PTP	collagen

*Representative examples of antigens found on the corresponding GP.

Platelet Membrane Glycoproteins: Functional and Clinical Importance

(continued from previous page)

It should be apparent that there are similarities between ITP and autoimmune hemolytic anemia, between NATP and hemolytic disease of the newborn, and between PTP and red cell alloantibody formation. In almost all cases the diagnosis of immune thrombocytopenia is made clinically. However, the diagnosis can sometimes be difficult to make which has created a demand for a reliable laboratory test.

Several such tests using a variety of formats have been developed. Included are tests for platelet associated immunoglobulin (Ig) (antibody on platelets), which parallels the direct antiglobulin test, and for plasma antiplatelet antibodies, which parallels the antibody screen. These tests generally have adequate sensitivity but lack specificity, making them of marginal clinical value. There are several reasons for this. First, there is a small amount of immunoglobulin nonspecifically associated with the outer platelet membrane that cannot be washed away because platelets are too fragile to withstand vigorous washing. This creates a potentially significant baseline level of platelet associated immunoglobulin that can overlap with pathologic levels. Second, platelets acquire Ig from plasma and store it in their alpha granules in amounts proportional to the plasma levels of Ig. Thus, platelet Ig can be increased in disorders associated with elevated plasma Ig but not necessarily due to immune thrombocytopenia. And, third, all of the assays require immobilized antigen or antigen-antibody complexes for detection. This creates a sensitivity problem since most assays only immobilize one antigen, which may or may not be the target antigen of an antibody. The clinical utility of these assays is limited to situations in which the diagnosis is truly problematic, although a positive test does not establish the diagnosis and a negative test does not exclude it. The most

useful assays are probably assays for the presence of PLA-1a and PLA-1b on platelets of patients with NATP, or PTP, since most patients with one of these disorders are HPA-1a negative and HPA-1b negative.

Summary

Platelet membrane glycoproteins are receptors for various ligands that mediate adhesion and aggregation. Their importance is illustrated by the bleeding disorders associated with abnormalities of them. However, many serve as target antigens in immune thrombocytopenia, including ITP, NATP, and PTP. These disorders are usually diagnosed clinically, but occasionally tests for antiplatelet antibodies or for presence or absence of the target antigen provide useful information.

Pertinent References

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George JN, Wookf SH, Raskob GE, et al. Idiopathic thrombocytopenic purpura: a practice guideline developed by explicit methods for the American Society of Hematology. Blood 1996;88:3.

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McMillan R. Clinical role of antiplatelet antibody assays. Semin Thromb Hemost 1995;21:37.

REPRINTED WITH PERMISSION FROM THE FALL 2001
BLOOD BANK ASSOCIATION OF NEW YORK NEWSLETTER

A few words from Michelle

by Michelle Tuson
MABB 2002 President-Elect

Announcing...a contest for the Top Ten Reasons that Blood Banking is FUN!

Please submit your ideas to the MABB Administrative Office as to why you think that blood banking is fun. An independent group will determine the ranking of all of the ideas submitted. We will then present the Top 10 at the next annual meeting set for September 11 and 12, 2002. We will have some fun prizes to go along with this, so send in your reasons today! I am sure that everyone that was at the planning meeting has a few ideas on this.

*I want to send out a big **THANK YOU** to everyone that attended the planning meeting at Pasquale's to bring their ideas for lectures and speakers for our next Annual Meeting. There were many great ideas discussed, and hopefully we can turn it into another successful educational program for the membership.*

2001 Cyberconference

The 2001 Northern Michigan Teleconference (affectionately known as the "Cyberconference") was a success with participants from all over the western, northern lower peninsula, Marquette and Houghton Hancock. The Education Committee will be planning future topics and speakers. Any suggestions should be sent to Dr. Mary Jo Drew at Henry Ford Hospital. No date has been set at this time, but will be announced as plans are set.

**The Michigan Association of Blood Banks
Offers.....**

The 2002 Blood Bank Lecture Series

Beginning March, 2002

A program consisting of 58 lectures and two one-day seminars designed for those preparing for the BB/SBB certification or seeking a comprehensive continuing education experience. If there is not sufficient interest the series will be postponed for another year. Send in your reservation today!!!

When? Mondays, 8:30am -12:30pm

Where? SEMRBC, Detroit: March-November 2002

Who? Individuals or Institutions

Fee? MABB Individual Members \$150
***MABB Institutional Members \$150 (first registrant)**
\$200 (additional registrants)
Nonmembers \$200

***Institutions may rotate attendance among their staff. To facilitate this, one lecture series pass will be issued for each registration fee paid.**

2002 MABB Lecture Series – Registration Form

NAME

INSTITUTION

MAILING ADDRESS (indicate if HOME or WORK)

Work Phone

Home Phone

Individual Member?

Institutional Member

PASSES REQUESTED (1 FEE = 1 PASS) _____

Complete this form and mail check (payable to MABB) to:
Sharon Cisco, MT (ASCP) SBB
National Testing Laboratories
American Red Cross Blood Services
100 Eliot, Detroit, MI 48201
TEL: 313-465-8516 FAX: 313-465-8404

Vi Williams Scholarship

Ortho Clinical Diagnostics sponsors the Vi Williams Scholarship to assist with the cost of attending the Spring Workshop, to be held on Thursday, May 9, 2002. Applicants are eligible for a \$125 scholarship.

The Vi Williams Scholarship is in memory of Vi Williams, who died in 1983. She was the Chief Technologist at William Beaumont Hospital in Troy and was a very active member of MABB, especially the Education Committee. She is most remembered for her commitment to quality in education and medical technology.

The scholarship is available to any non-supervisory medical technologist working in the field of immunohematology. The applicant must be a member of MABB at the time of application. The applicant must explain in writing how they would benefit from attending the Spring Workshop. The award will be presented during the lecture session on May 9th.

Deadline April 5, 2002

Send completed application to:
Linda Cardine, MT(ASCP)SBB
Henry Ford Hospital/Blood Bank
2799 W. Grand Blvd.
Detroit, MI 48202

Name: _____

Address: _____

Blood Bank Affiliation: _____

Telephone Number: _____

How will I benefit from attending the Spring Workshop: (Use additional pages if necessary):

Emanuel Hackel Scholarship

The Michigan Association of Blood Banks sponsors the Emanuel Hackel Scholarship to defray the cost of attending the Spring Workshop, to be held Thursday, May 9, 2002. Applicants are eligible for a \$250 scholarship.

Dr. Hackel is professor emeritus at Michigan State University. He has been involved in the Spring Workshop for many years and he will once again be the moderator for the lecture session of the Spring Workshop in May. He has been a long time supporter of the MABB.

The scholarship is available to any medical technologist in the field of immunohematology, blood banking, or histocompatibility. An MABB member must nominate the recipient or an MABB member may nominate him/her self. To apply, the nominee must explain how they would benefit from attending the Spring Workshop. The MABB Board of Directors will select the recipient and the award will be presented at the lecture session on May 9th.

Deadline April 5, 2002

Send completed application to:
Linda Cardine, MT(ASCP)SBB
Henry Ford Hospital/Blood Bank
2799 W. Grand Blvd.
Detroit, MI 48202

Nominee Information

Name: _____

Address: _____

Blood Bank Affiliation: _____

Telephone Number: _____

How will the nominee benefit from attending the Spring Workshop? (Use additional pages if necessary)

Nominated by: _____

Address: _____

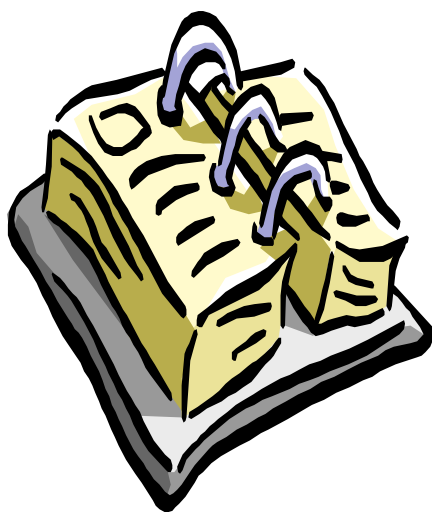
Telephone Number: _____

Stay tuned for details
2002 Spring Workshop
New One-Day Format

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



Calendar of Events



March, 2002

**SBB Lecture Series
Begins**

April 5, 2002

**Scholarship Nominations
for Spring Workshop Due**

May 9, 2002

**MABB Spring Workshop
NEW 1-DAY FORMAT**
Details to follow

Sept. 11-12, 2002

**MABB Forty-Eighth
Annual Meeting**