

MABB Newsletter

In A Different Vein



PRESIDENT'S MESSAGE



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Greetings members,

2021 was a year to remember. In April, the Education Committee provided a virtual session: Help! I've Been Assigned to Blood Bank! The panelist did a great job answering questions and giving helpful tips for reducing anxiety when you feel like blood bank has evolved faster than you can keep up with the changes.

For the 67th Annual Meeting, Planning Committee members worked very hard to provide the best educational experience at minimal cost. Our virtual conference included a new option for a lunchtime intermission where attendees could chat with vendors in breakout rooms. Attendees could see new product brochures and get questions answered about new products, services and equipment.

I would like to give a special thank you to all the committee members for their continued efforts in improving our local organization. Just as in previous conferences, the speakers from across the nation were engaging and insightful.

We are always looking for fresh ideas and new members. If you are interested and want to share your talents, please contact any board member or committee member. This organization has a long history of mentorship which will help you grow your

leadership skills. I can attest to the rewarding relationships I have gained through networking in our local association. I look forward to seeing you at our next Annual Meeting which will be held on September 21 and 22, 2022.

Sheri Hugan, 2021 MABB President

Our Annual Meeting Planning Committee members are working hard to provide another great educational experience. Plan on joining us September 21st and 22nd at Schoolcraft College's VisTaTech Center for our first live meeting since 2019. This will also be a great opportunity to see all the new products, services, and equipment that will enhance your blood bank.

Dr. Barry Siegfried, 2022 MABB President

Summary of the 2021 MABB Annual Meeting

In accordance with the MABB mission statement, the 67th Annual Meeting program consisted of many diverse topics with a linked theme of promoting the highest standard of patient care for our respective patient populations. The meeting was held on the 22nd and 23rd of September 2021, and it was an online meeting through Zoom.

The 1st day of the meeting began with an introduction and welcome by Sheri Hugan, the 2021 President of MABB. Sheri introduced our Kay Beattie Award recipient Mary A. Lieb. Mary is a technical and quality consultant and currently serves as Interim Quality Director and Technical Consultant at the Blood Bank of Hawaii. She is well known for her expertise in blood bank quality and for her ability to teach her skills to others. She began her career by earning a Bachelor of Science degree in Medical Technology from Indiana University of Pennsylvania and proceeded to achieve Specialty Certification in Blood Banking from the American Society of Clinical Pathology, Quality Auditor Certification from the American Society of Quality, and Green Belt Certification in Lean / Six Sigma Methodologies. She acts as an AABB assessor and College of American Pathologists inspector. In her lecture, Mary reviewed the history of quality and compliance for transfusion services and blood centers, discussed the evolution of the blood banking industry and how quality has impacted leadership, and how the COVID-19 pandemic has impacted our roles for leadership and training in the future.

The meeting progressed with a lecture on bacterial contamination of platelets presented by Dr. Ryan Metcalf from the University of Utah and ARUP Laboratories. Then Amy Dixon, Vice President of People and Culture at EEI Global, Inc, Rochester Hills, MI, talked about how ambiguity impacts individuals and teams, and what tools and techniques are available to deal with uncertainty and ambiguity. CAR-T cells structure, function, and indications, and how to recognize the role of transfusion medicine services in the care of patients receiving CAR-T cell therapy were discussed by Dr. Suzanne Thibodeaux from Washington University School of Medicine in St Louis, St Louis, MO.

Dr. Craig Fletcher from Beaumont Health gave a lecture on the potential consequences and benefits of incompatible blood component transfusions. The afternoon concluded with the Clinical Case Studies session which was organized and moderated by Dr. Chisa Yamada, and it included three presentations given by Drs. Thomas Herb (University of Michigan), Oluwayomi Oyedeji (Henry Ford Hospital), and David Nai (University of Michigan).

The 2nd day of the meeting started with a talk on autoimmune hemolytic anemia by Dr. Anne Eder from the Office of Blood Research and Review, Center for Biologics Evaluation and Research of the Food and Drug Administration. Blood group antigens and their impact on transfusion medicine were presented by Dr. Geoff Daniels who is the former Head of Reference Services at the International Blood Group Reference Laboratory, Bristol, UK. Dr. Walter Kelley from the American Red Cross gave a talk on the appropriateness of apheresis for treating illness using evidence-based guidelines, mechanics and pathophysiology of apheresis, and replacement fluid options and potential adverse events of apheresis.

A discussion on leadership, understanding of leadership responsibilities, and the best route to attain leadership was given by Salika Devine, Billie Ketelsen, and Krystal Johnson. Dr. James Stubbs from Mayo Clinic at Rochester gave a lecture on the current status and vulnerability of platelet supply in the United States, and current status of safety utilizing paid donors in the plasma industry. Finally, a session on Serologic Case Studies was presented by Loretta Dickinson (Michigan Medicine), Dr. Kevin Ginnebaugh (Henry Ford Hospital), and Alyse Gschwender (American Red Cross).

Thank you, 2021 Annual Meeting Vendors !



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2021 MABB Fall RAP Session

On December 8th, 2021, the MABB Education Committee hosted a Virtual RAP Session entitled "**Addressing Shortages of Both Blood Products and Personnel**". The RAP session featured a diverse panel to discuss the impact of these shortages on blood banks as well as strategies employed by various institutions to manage them. To give perspective on blood shortages as well as recruitment and retention of laboratory personnel, the panel featured the following representatives: Terry Downs, MT (ASCP), SBB, from Michigan Medicine, Teresa Lovins, MT (ASCP), from Beaumont Health - Troy, and Frank Morden, MBA, MLS (ASCP), from Henry Ford West Bloomfield Hospital. Mariane Wolfe, MS, MLS (ASCP), the MLS Assistant Program Director for Michigan State University, also joined the panel to offer perspective on the efforts of laboratory education programs to address personnel shortages. There was much robust and productive discussion between panelists and the attendees on these critical issues faced by many laboratories across the country.

Keep an eye out for more educational offerings by the MABB!

Angela Wholehan, MLS (ASCP)^{CM}, SBB^{CM}

Education Committee Chair and President-Elect, MABB

Teaching Specialist

Biomedical Laboratory Diagnostics Program

Michigan State University

MABB Members - List of Publications

Published papers

Khatri SS, Curtis BR, **Yamada C**. A case of platelet transfusion refractoriness due to anti-CD36 and successful treatment outcome. *Immunohematology* 2019; 35(4): 139-144.

Thomasson RR, Yazer MH, Gorham JD, Dunbar NM, and MTP Use Study Investigators (**Yamada C**). International Assessment of Massive Transfusion Protocol Contents and Indications for Activation. *Transfusion* 2019; 59(5): 1637-1643.

Taylor AS, Cooling L, **Yamada C**. ABO associated antibody mediated rejection following A2B to B renal transplantation and successful treatment with therapeutic plasma exchange. *Transfusion* 2019; 59(5): 1883-1885.

Shih AW, Cohn CS, Delaney M, Fontaine MJ, Martin I, Dunbar NM, and the SCARED Study Investigators (**Yamada C**) on behalf of the Biomedical Excellence for Safer Transfusion (BEST) Collaborative. The BEST Criteria Improve Sensitivity for Detecting Positive Cultures in Residual Blood Components Cultured in Suspected Septic Transfusion Reactions. *Transfusion* 2019; 59(7): 2292-2300.

Otrock ZK, Eby CS, Burnham CD. Human ehrlichiosis at a tertiary-care academic medical center: Clinical associations and outcomes of transplant patients and patients with hemophagocytic lymphohistiocytosis. *Blood Cells, Molecules & Diseases* 2019; 77: 17-22.

Ipe TS, Ravel J, Fernando L, Gokhale A, Jacquot C, Johnson AD, Kim H, Monis GF, Mo Y, Morgan SM, Sanford K, Pagano MB, Pham HP, Sanford K, Echmidt A, Schwartz J, Waldman A, Webb J, Winters JL, Winters S, Wu Y, **Yamada C**, Wong E: Therapeutic Plasma Exchange for Neuromyelitis Optica Spectrum Disorder: A Multicenter Retrospective Study by the ASFA Neurologic Diseases Subcommittee. *Journal of Clinical Apheresis* 2020; 35(1): 25-32.

Antar AI, **Otrock ZK**, Jabbour E, Mohty M, Bazarbachi A. FLT3 inhibitors in acute myeloid leukemia: ten frequently asked questions. *Leukemia*. 2020; 34(3): 682-696.

Onwubiko I, Kasperek G, Laforest RA, Philip SG, Kuriakose P, **Otrock ZK**. Predictors of response and outcome of patients with acquired haemophilia A. *Haemophilia*. 2020; 26(5): e244-e246.

MABB Members - List of Publications (cont'd)

Rodgers SA, Suneja A, Yoshida A, Abouljoud MS, **Otrock ZK**. Paradoxical embolic strokes in a liver transplant recipient with atrial septal defect undergoing therapeutic plasma exchange. *Journal of Clinical Apheresis* 2021; 36(1): 206-210.

Antar AI, **Otrock ZK**, Abou Dalle I, El-Cheikh J, Bazarbachi A. Pharmacologic Therapies to Prevent Relapse of Acute Myeloid Leukemia After Allogeneic Hematopoietic Stem Cell Transplantation. *Frontiers in oncology*. 2020; 10: 596134.

Vijayanarayanan A, Omosule AJ, Saad H, Dabak V, **Otrock ZK**. Acute splenic sequestration crisis in Hemoglobin SC disease: Efficiency of red cell exchange. *Cureus* 2020; 12(12): e12224.

Siegfried B, McCullough J. COVID-19 convalescent plasma experience in the US. *Ann Blood* 2021; 6: 38. Available from: <https://aob.amegroups.com/article/view/6552/html>

Yamada C, Edelson M, Lee A, Saifee NH, Bahar B, Delaney M. Transfusion Associated Hyperkalemia in Pediatric Population: Prevalence, Risk Factors, Survival, Infusion Rate and RBC unit Features. *Transfusion* 2021; 61(4): 1093-1101.

Dunbar NM, Delaney M, Murphy MF, Pagano MB, Saifee NH, Seheult J, Yazer M, Kaufman RM and the WBIT Study Investigators (**Yamada C**) on behalf of the BEST collaborative: Emergency departments are higher-risk locations for wrong blood in tube errors. *Transfusion* 2021; 61(9): 2601-2610.

Martin IW, Cohn CS, Delaney M, Fontaine MJ, Shih AW, Dunbar NM and the SCARED Study Investigators (**Yamada C**) on behalf of the Biomedical Excellence for Safer Transfusion (BEST) Collaborative: Limitations of Current Practices in Detection of Bacterially Contaminated Blood Products Associated with Suspected Septic Transfusion reactions. *Transfusion* 2021; 61(8): 2414-2420.

Yamada C, Hofmann J, Witt V, Gupta GK, Jeffrey L Winters, the ASFA COVID-19 Taskforce: The Report from ASFA COVID-19 Taskforce: Considerations and Prioritization on Apheresis Procedures during the SARS-CoV-2 Coronavirus Disease (COVID-19) Pandemic. *Journal of Clinical Apheresis* 2021; 36(6): 878-881.

MABB Members - List of Publications (cont'd)

Abou Shaar R, Eby CS, van Dorp S, de Witte T, **Otrock ZK**. Increasing ferritin predicts early death in adult hemophagocytic lymphohistiocytosis. *International Journal of Laboratory Hematology* 2021; 43(5): 1024-1031.

Arora K, Rodgers S, Alkhatib Y, Onwubiko IN, Padmanabhan A, **Otrock ZK**. P-selectin expression assay in a repeatedly serotonin-release assay-negative patient with heparin-induced thrombocytopenia. *Blood Coagulation and Fibrinolysis*. 2021; 32(7): 522-525.

Oyededeji O, Sheqwara J, Onwubiko I, Lopez-Plaza I, Nagai S, **Otrock ZK**. Thrombocytapheresis for acquired von Willebrand syndrome in a patient with essential thrombocythemia and recent multivisceral transplantation. *Transfusion*. 2021; 61(11): 3277-3280.

Yuan S, **Otrock ZK**. Platelet Transfusion: An Update on Indications and Guidelines. *Clinics in Laboratory Medicine*. 2021; 41(4): 621-634.

Dunbar NM, Kaufman RM, and WBIT study investigators (**Yamada C**): Factors associated with wrong blood in tube errors - an international case series. *The BEST Collaborative Study*. *Transfusion* 2022; 62(1): 44-50.

Uzuni A, El-Bashir J, Galusca D, Yeddula S, Nagai S, Yoshida A, Abouljoud MS, **Otrock ZK**. Transfusion requirements and alloimmunization to red blood cell antigens in orthotopic liver transplantation. *Vox Sanguinis*. 2022; 117(3): 408-414.

Vijayanarayanan A, Wlosinski L, El-Bashir J, Galusca D, Nagai S, Yoshida A, Abouljoud MS, **Otrock ZK**. Lack of alloimmunization to the D antigen in D-negative orthotopic liver transplant recipients receiving D-positive red blood cells perioperatively. *Vox Sanguinis*. 2022 Apr 8. Online ahead of print

Abou Shaar R, Perry KD, **Otrock ZK**. Hemophagocytosis on ascitic fluid cytology: Diagnosis of HLH. *Diagnostic Cytopathology*. 2022; 50(8): 414-416.

MABB Members - List of Publications (cont'd)

Textbooks

Arthur Bradley Eisenbrey, III, MD, PhD. HLA from Benchtop to Bedside. Academic Press, San Diego, CA, 2021

Book chapters

Chisa Yamada: Apheresis Support for Kidney Diseases in the United States: ASFA Guidelines. 腎と透析: 血液浄化療法 Sep 2019 (Kidney and Dialysis: Blood purification treatments 2019), Koike J, Kobayashi S, **Yamada C**, et al. Tokyo Igakusha, Japan, 2019. 1, 453-462

Otrock ZK, Eby CS. Zoonotic bacterial infections triggering cytokine storm syndrome. In: Cytokine storm syndrome. Randy Q. Cron, Edward M. Behrens (editors). Springer, Switzerland 2019: 319-330

Zaher K. Otrock. Coagulation. Hereditary bleeding disorders. Hereditary bleeding disorders – general. In: Pathology Outlines. May 2022. URL:
<https://www.pathologyoutlines.com/topic/coagulationhereditarybleedinggeneral.html>

Meeting abstracts

Ipe T, Gokhale A, Monis G, Fernando L, Jacquot C, Kim H, Mo Y, Johnson A, Sanford K, Schmidt AE, Schwartz J, Pham H, Morgan SM, Webb J, Winters JL, Wu Y, **Yamada C**, Peterson L, Pagano MB, Raval JS, Wong E.: Relationship of aquaporin-4 antibody with presenting sequelae in neuromyelitis optica spectrum disorder patients. The ASFA annual meeting 2019, Portland, OR, Journal of Clinical Apheresis, 34, 2, O2, 2019.

S. A. Rodgers, M. S. Abouljoud, **Z. K. Otrock.** Paradoxical embolic strokes in a liver transplant patient with atrial septal defect undergoing therapeutic plasma exchange. American Society for Apheresis 40th Annual Meeting, Portland, Oregon, May 14-18. Journal of Clinical Apheresis 2019 Apr; 34(2): 159. Poster # 88.

Taneja K, Rodgers S, Alkhatib Y, Onwubiko I, Padmanabhan A, **Otrock Z.** P-selectin Expression Assay in a Repeatedly SRA-Negative Patient with Heparin-Induced Thrombocytopenia. College of American Pathologists (CAP) Annual Meeting, Orlando, Florida, September 21-25, 2019. Archives of Pathology and Laboratory Medicine 2019; e221. Poster # 154

MABB Members - List of Publications (cont'd)

Ajna Uzuni, Shunji Nagai, Atsushi Yoshida, Marwan Abouljoud, **Zaher K. Oetrock**. Transfusion Requirements and Immuno-hematologic Complications in Orthotopic Liver Transplantation. AABB 2019 Annual Meeting, San Antonio, Texas, October 19-22, 2019. *Transfusion* 2019; 59(S3): 218A. Poster presentation # P-TS-75

Dunbar NM, Kaufman RM, Selogie E and the WBIT study investigators (**Yamada C**). Emergency departments are higher-risk locations for wrong blood in tube errors, AABB 2020 Virtual Annual Meeting, Virtual, *Transfusion*, 60, 55, 232A, 2020.

Yamada C, Jucha D, Gotsis E, Chen Y, Cooling L. Frequent Adverse Events with Current Apheresis Port, AABB Annual Meeting 2020, Virtual meeting, *Transfusion*, 60, 55, 208A, 2020.

Yamada C, Lee A, Saifee NH, Delaney M, Edelson M. Transfusion Associated Hyperkalemia in Pediatric Population: Prevalence, Risk Factors, Survival, Infusion Rates and RBC Unit Features, AABB Annual Meeting 2020, Virtual meeting, *Transfusion*, 60, 55, 255A, 2020.

Cooling L, Phillips T, Hoffmann S, Davis K, **Yamada C**, Davenport R. The BCL-2 Inhibitor Venetoclax Is Associated with Mobilization Failures, AABB Annual meeting 2020, Virtual meeting, *Transfusion*, 2020.

Cooling L, Phillips T, Davenport R, Hofmann S, **Yamada C**. THE BCL-2 INHIBITOR VENOTOCLAX IS ASSOCIATED WITH POOR STEM CELL MOBILIZATION AND COLLECTION FAILURES, ASFA virtual meeting 2020, *Journal of Clinical Apheresis*, 2020.

Maria Andrievskaya, **Zaher Oetrock**, Jacqueline Pflaum-Carlson. Non-immune and Immune Hemolysis in a Patient with Extracorporeal Membrane Oxygenation. Society of Critical Care Medicine, 49th Critical Care Congress, Orlando, Florida, February 16-19, 2020. *Critical Care Medicine* 2020; 48(11):489. Abstract # 1020. Oral presentation

Harshita Mehrotra, **Zaher K. Oetrock**. Clinical and Laboratory Characteristics of Patients with Cold Agglutinin Disease. AABB 2020 Annual Meeting, virtual, October 3-5, 2020. *Transfusion* 2020; 60(S5): 133A. Poster presentation # P-HC-2

MABB Members - List of Publications (cont'd)

Mohamed Alhamar, Ajna Uzuni, Sirisha Yeddula, Shunji Nagai, Marwan S. Abouljoud, **Zaher K. Otrrock**. Predictors of Intraoperative Blood Product Transfusion Requirements in Orthotopic Liver Transplantation. AABB 2020 Annual Meeting, virtual, October 3-5, 2020. *Transfusion* 2020; 60(S5): 247A. Poster presentation # P-TS-36

Rand Abou Shaar, Romy Selzer, **Zaher K. Otrrock**. Red Blood Cell Alloimmunization in Hyper-inflammatory States: A Study on Hemophagocytic Lymphohistiocytosis. AABB 2020 Annual Meeting, virtual, October 3-5, 2020. *Transfusion* 2020; 60(S5): 249A. Poster presentation # P-TS-39

Aula Ramo, Harshita Mehrotra, Ifeoma Onwubiko, Jawad Sheqwara, **Zaher K. Otrrock**. Correlation between ABO Blood Groups and Disease Severity and Mortality in Hospitalized COVID-19 Patients. 62nd Annual Meeting and Exposition of the American Society of Hematology (ASH), Atlanta, Georgia, December 5-8, 2020. *Blood* 2020; 136(S1): 43-44. Oral presentation

Moussa Z, Davenport RD, **Yamada C**. IS IRON SUPPLEMENTATION BENEFICIAL FOR PATIENTS WITH SICKLE CELL DISEASE? ASFA virtual meeting 2021, Virtual, *Journal of Clinical Apheresis*, 2021.

Raval JS, Park Y, Garrett E, Ipe TS, srivaths PR, Handrickson JE, **Yamada C**, Sanford K, Jacquot C, Webb J, Onwuemene OA, Lopez-Plaza I, Patriquin C, Pham P, Perumbeti A, Gokhale A, Li M, Sarode R, Wu Y, Hofmann J, Winters JL, Szczepiorkowski ZM, Wong E, Kiss JE. The First Report of the American Society for Apheresis Thrombotic Thrombocytopenic Purpura Multi-Institutional Registry: 2019-2020, ASFA virtual meeting 2021, Virtual, *Journal of Clinical Apheresis*, 2021.

Oluwayomi Oyedeji, Jawad Sheqwara, Ifeoma Onwubiko, Ileana Lopez-Plaza, **Zaher K. Otrrock**. Thrombocytapheresis for acquired von Willebrand syndrome in a patient with essential thrombocythemia and recent multivisceral transplantation. American Society for Apheresis 42nd Annual Meeting (virtual), May 12-15, 2021. *Journal of Clinical Apheresis* 2021;36(2): 272-273. Poster #44

Kevin Ginnebaugh, Harshita Mehrotra, Sunny R K Singh, **Zaher K. Otrrock**. Infectious mononucleosis manifesting with cold-type autoimmune hemolytic anemia. International Society for Laboratory Hematology (ISLH) Annual Meeting, May 4-7, 2021. Abstract #229

MABB Members - List of Publications (cont'd)

Balanchivadze N, Willner C, Almadhoun K, **Otrock ZK**. Delayed hemolytic transfusion reaction identified with sickle cell crisis recurrence: A report of two cases. International Society for Laboratory Hematology (ISLH) Annual Meeting, May 4-7, 2021. Abstract #242

Oluwayomi Oyedeji, Rosarina A. Laforest, Samuel G. Philip, **Zaher K. Otrock**. Lupus anticoagulant and outcome of COVID-19 patients. International Society on Thrombosis and Haemostasis (ISTH) Congress, July 17-21, 2021. Res Pract Thromb Haemost. 2021;5 (Suppl 1). PB0284

Shereen Zia, Harshita Mehrotra, Oluwayomi Oyedeji, Sameer Chhetri Aryal, **Zaher K Otrock**. Clinical and Laboratory Profile of Covid-19 Patients with Available DAT. AABB 2021 Annual Meeting, virtual, October 17-19, 2021. Transfusion 2021; 61(S3): 126A-127A. Poster # P-IG-21

Harshita Mehrotra, Ajna Uzuni, Mohamed Alhamar, Sirisha Yedulla, Jaber El-Bashir, Dragos Galusca, Shunji Nagai, Atsushi Yoshida, Marwan Abouljoud, **Zaher K Otrock**. Intraoperative Blood Transfusion Predicts Postoperative Transfusion in Orthotopic Liver Transplantation. AABB 2021 Annual Meeting, virtual, October 17-19, 2021. Transfusion 2021; 61(S3): 188A-189A. Poster presentation # P-PB-7

Aroob Sweidan, Sowjanya Vuyyala, Peter Xie, Mohammad Alhyari, Vrushali S. Dabak, **Zaher K. Otrock**. Hyperhemolysis Syndrome in SCD Patient: Reminder of a Rare but Life-Threatening Complication of Blood Transfusion. 63rd ASH Annual Meeting, virtual, December 10-13, 2021. Blood 2021; 138 (S1): 4282. Online only

Srivaths PR, Monis G, Fernando L, Jacquot C, Hendrickson JE, Favel JS, Webb J, Davis K, Wong E, **Yamada C**. THE FIRST REPORT OF THE AMERICAN SOCIETY FOR APHERESIS FOCAL SEGMENTAL GLOMERULOSCLEROSIS MULTI-INSTITUTIONAL REGISTRY, ASFA 2022 Annual Meeting, Philadelphia, PA, Journal of Clinical Apheresis, 2022.

Felstein B, Ko J, **Siegfried B**, Davenport R, **Yamada C**. The effect of hematocrit of RBC unit on post-procedure hematocrit for automated RBC exchange. Journal of Clinical Apheresis 2022; 37: 151. Abstract no. P-8.

Zhengfan Xu, **Zaher K. Otrock**. GRAFT-VERSUS-HOST DISEASE AND HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS FOLLOWING LIVER TRANSPLANTATION. American Society for Apheresis 43rd Annual Meeting, May 4-6, 2022. Journal of Clinical Apheresis 2022;37(2): 171-172. Poster #33



68th MABB Annual Meeting
September 21 & 22, 2022

SEND ARTICLES TO EDITOR

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