

2024 RDCR Symposium

October 6-9, 2024 Miami, Florida

DRAFT AGENDA

(will be final as of OCT 1, 2024)

SUNDAY

1800 Welcoming Reception Opening Remarks

"Affecting Change Against Headwinds"

General (Ret) USA Stan McChrystal Chairman and CEO McChrystal Group

USA

MONDAY

0745-0750 THOR Symposium Introduction

Geir Strandenes, MD

Anesthetist and Senior Advisor

Norwegian Coordination Center for Blood Preparedness Department of Immunology and Transfusion Medicine

Haukeland University Hospital

Norway

Philip Spinella, MD

Professor of Surgery

Professor of Critical Care Medicine

Co-Director, Trauma and Transfusion Medicine Research Center Associate Medical Director, Center for Military Medicine Research

University of Pittsburgh

USA

0750-0805 THOR Symposium Opening Remarks

"Health Care System Resilience and Future Directions"

Major General Dr. Paul Friedrichs

US Joint Staff Surgeon Pentagon, Arlington, VA



0805-0835 Preparation for World Wide Conflict

COL Jennifer Gurney, MD Chief, Joint Trauma System

USA

SESSION 1: PREHOSPITAL LESSONS LEARNED

Moderator: Geir Strandenes, MD

0835-0855 Ukraine Prehospital Lessons Learned (What Works and Doesn't)

Therapies/Devices/Training

John Quinn, EMT-P, MD, MPH, PhD

Prague Center for Global Health Institute of Hygiene and Epidemiology

First Faculty of Medicine Charles University

UK

0855-0915 Israel Prehospital Lessons Learned (What Works and Doesn't) Therapies, Devices,

Training)

BG Prof. Elon Glassberg Israeli Defense Forces

Israel

0915-0935 South Texas Prehospital Lessons Learned PPH and GI Bleeding (What Works and

Doesn't) Therapies, Devices, Training)

Lt. William Bullock EMT-P, MPA

San Antonio Fire, Blood Program Team Lead

South Texas Blood & Tissue, Specialized Program Coordinator

USA

0935-0950 **Discussion**

0950-1035 How to Support Provider Resilience

Leader of Session: Mary J. Edwards, M.D., FACS, FAAP

Panelists:

Mary J. Edwards, M.D., FACS, FAAP

Pediatric Trauma Medical Director

Chief of Pediatric Surgery and Surgeon in Chief Bernard and Millie Duker Children's Hospital

Albany, NY

COL, USA (RET)



Bellal Joseph, MD FACS
Professor of Surgery Chief of Trauma
EGS Critical Care & Burns Chief of General Surgery
Vice Chair of Research Department of Surgery
The University of Arizona
USA

BG Prof. Elon Glassberg Israeli Defense Forces Israel

Col Thomas Woolley, MD FRCA RAMC Consultant Anaesthetist British Army UK

1035-1050 **Break**

SESSION 2: PREHOSPITAL BLOOD USE AND STANDARDS

Moderator: Mark Yazer, MD and John Holcomb

1050-1105 Survey of Prehospital Blood Use in the US

Randall Schaefer, DNP, RN, ACNS-BC, CEN

CEO, Schaefer Consulting

USA

1105-1120 AABB Prehospital Transfusion Standards

Audra Taylor, MD

Vice President of Blood Operations South Texas Blood & Tissue

USA

1120-1135 Prehospital Reimbursement of Blood Products

Jon R. Krohmer, MD, FACEP, FAEMS

EMSMD LLC / Velico / Prehospital Blood Coalition

USA

1135-1150 The Barriers to Prehospital Blood use in Brazil

Daíse Esswein Müller

Coordenadora Médica SAMU Aeromédico SC

Brazil

1150-1200 **Discussion**



1200-1400 **Lunch / Break**

SESSION 3: INDUSTRY WORKSHOPS

Moderator: Philip Spinella, MD

1400-1430 Overview of Quantra® QStat® in the management of TIC

Todd Allen

Clinical Development Director

HemoSonics, LLC

USA

SESSION 4: BLOOD PRODUCTS AND EMERGENCY PREPAREDNESS

Moderators: Eilat Shinar and Jennifer Gurney

1430-1450 The Requirements for Blood in Civilian MCE/Large Scale War

Jeremy W. Cannon, MD, SM, FACS

Trauma, Surgical Critical Care & Emergency Surgery

University of Pennsylvania

USA

1450-1505 Civilian Walking Blood Banks as Part of a National Blood Preparedness Plan

Geir Strandenes, MD

Anesthetist and Senior Advisor

Norwegian Coordination Center for Blood Preparedness Department of Immunology and Transfusion Medicine

Haukeland University Hospital

Norway

1505-1520 Walking Blood Bank Implementation US planning

Donald Jenkins, MD FACS

Vice Chair for Quality, Department of Surgery Associate Deputy Director, Military Health Institute

UT Health San Antonio

USA

1520-1535 Coke Bottles and 3D Printed Caps for Blood Containers

Martin Rognhaug

Norwegian Armed Forces

Norway



1535-1555 Panel Discussion

Panel: Speakers joined by:

Pampee P. Young, M.D., Ph.D. Chief Medical Officer Biomedical Services American Red Cross National Headquarters USA

Prof Denese Marks Research Program Leader Australian Red Cross Australia

Kenneth Bertram, MD PhD Biogenerator USA

1555-1610 **Break**

SESSION 5: REBOA PRO/CON DEBATE

Moderators: Bellal Joseph, MD and Bryan A. Cotton, MD MPH

1610-1625 **Con**

Martin A. Schreiber, MD FACS FCCM

COL, MC, USAR

Adjunct Professor of Surgery

Uniformed Services University of the Health Sciences

USA

1625-1640 **Pro**

Andrew Beckett, CD MD FRCSC FACS

Royal Canadian Medical Service

Canada

1640-1650 **Discussion**



SESSION 6: COLD WEATHER RESUSCITATION

Moderators: Tom Woolley, MD & Vik Bebarta, MD

1650-1710 Vascular Biology of Cold Injury

Andrew P. Cap, MD, PhD Colonel, U.S. Army, Retired Professor of Medicine Uniformed Services University

USA

1710-1730 Pharmaceuticals for Improved Flow in Cold Injury

Rachel Nygaard, PhD

Associate Prof, University of Minnesota

Research Director, Hennepin County Medical Center

USA

1730-1740 **Discussion**

SESSION 7: PREHOSPITAL CASE PRESENTATIONS

Moderator: COL Jennifer Gurney, MD

1740-1830 **Panelists:**

BG Prof. Elon Glassberg Israeli Defense Forces

Israel

Prof Dr. Marc Maegele

Department of Traumatology and Orthopedic Surgery

Cologne-Merheim Medical Center (CMMC)

Germany

1830 -1930 Reception Hour/Poster Session/Trainee Awards Ceremony

1930 **Dinner**

Opening Remarks:

Dr. Lester Martinez-Lopez

Assistant Secretary of Defense for Health Affairs



TUESDAY

SESSION 8: THOR, SOMA and Co-TCCC Updates

Moderator: Travis M. Polk MD, FACS, Commander, MC, USN

0745-0800 Introduction of THOR Working Groups

Philip Spinella, MD Professor of Surgery

Professor of Critical Care Medicine

Co-Director, Trauma and Transfusion Medicine Research Center Associate Medical Director, Center for Military Medicine Research

University of Pittsburgh

USA

0800-0820 Special Operations Medical Association Update (15)

Dr. Christi Verchinin SOMA Board of Directors

AFSOC Special Operations Surgical Team (SOST)

USA

0820-0840 Tactical Combat Casualty Care Committee Update (15)

Harold Montgomery
TCCC Joint Program Manager
Vice Chair, Committee on TCCC
Defense Health Agency J-3/5-7

USA

SESSION 9: RESUSCITATION AND WOMEN

Moderator: Lucy Zumwinkle Kornblith, MD, FACS

0840-0905 LTOWB Data Review

Christine M. Leeper, MD

Assistant Professor Department of Surgery

University of Pittsburgh

USA

0905-0930 Effect of Sex on Hemostasis and Quality of Blood Products

Julia Coleman, MD MPH

Assistant Professor

Department of Surgery, Division of Trauma, Critical Care, Burn

The Ohio State University



0930-1000 Evidence Based Guidelines for Emergency Transfusion in Females of Childbearing

Potential: Mitigating the Risks of Hemolytic Disease of the Fetus and Newborn

Molly Sherwood Director of Research Allo Hope Foundation

USA

1000-1020 Ethics of Rh Exposure to Rh Negative Females of Childbearing Potential

Jay Malone, MD PHD

Associate Professor of Pediatric Critical Care Medicine Medical Director of Ethics, St. Louis Children's Hospital

USA

1020-1035 **Discussion**

1035-1050 **Break**

SESSION 10: CLINICAL TRIAL DATA UPDATE

Moderator: Phil Spinella, MD

1050-1110 Cryostat-2 PROCOAG Trial Results

Prof Dr. Marc Maegele

Department of Traumatology and Orthopedic Surgery

Cologne-Merheim Medical Center (CMMC)

Institute for Research in Operative Medicine (IFOM)

University Witten-Herdecke (UWH)

Germany

1110-1130 Cold Stored Platelet for Hemorrhagic Shock (CRISP) Trial Results

Jason Sperry, MD MPH

Professor of Surgery and Critical Care University of Pittsburgh Medical Center

USA

1130-1150 Cold Stored Platelet Trial for Traumatic Brain Injury (CRISP TBI) Results

Matthew D. Neal, MD FACS

Roberta G. Simmons Associate Professor of Surgery

University of Pittsburgh Medical Center

USA

1150-1200 **Discussion**

1200-1400 THOR Shirt distribution / Group Photo / Lunch / Break



SESSION 11: INDUSTRY WORKSHOPS

Moderator: Philip Spinella, MD

1400-1430 Optimizing Fibrinogen Replacement in Trauma with Pathogen Reduced

Cryoprecipitated Fibrinogen Complex

Cerus

Roman Dudaryk MD

Professor of Anesthesiology

Division of Trauma Anesthesia/Critical Care Medicine Director of Quality, Department of Anesthesiology University of Miami/Jackson Memorial Hospital

USA

SESSION 12: PREHOSPITAL USE OF TXA

Moderator: Bryan A. Cotton, MD MPH

1430-1440 Prehospital TXA for Severe Trauma (PATCH) Trial

John Holcomb, MD FACS

COL, USA (Ret)

Professor of Surgery, Department of Surgery

University of Alabama at Birmingham

USA

1440-1500 Efficacy and Safety of Autoinjector IM use of TXA

CDR Kellye Donovan

Acquisition and Logistics professional, Program Analyst EMS Team USMC Pharmacy SME at Marine Corps Systems Command

USA

1500-1520 Endothelial Effects of TXA

Joseph Rappold, MD FACS

Maine Medical Center/Tufts University

USA

1520-1540 Immune Effects of TXA

Matthew D. Neal, MD FACS

Roberta G. Simmons Associate Professor of Surgery

University of Pittsburgh Medical Center

USA

1540-1550 **Discussion**

1550-1610 **Break**



SESSION 13: ADAPTIVE TRIAL DESIGNS AND PRECISION RESUSCITATION MEDICINE

Moderator: Philip Spinella, MD

1610-1640 Innovative Trial Design to Support Research in Precision Resuscitation Medicine

Juliana Tolles, MD MHS

Associate Professor of Emergency Medicine, Harbor-UCLA Medical Center Medical and Statistical Scientist, Berry Consultants

USA

Kelley M. Kidwell Professor of Biostatistics University of Michigan

USA

1640-1720 Interactive Research Design Consultation (Feedback for 2 Proposed Trial Adaptive

Trial Designs)

Roger Lewis, MD PhD

Senior Medical Scientist, Berry Consultants

USA

SESSION 14: CHANGING PRACTICE

Moderator: Martin Schreiber, MD

1720-1740 Changing Practice Without RCTs: When to Pull the Trigger with New Therapies

Philip C. Spinella, MD Professor of Surgery

Professor of Critical Care Medicine

Co-Director, Trauma and Transfusion Medicine Research Center Associate Medical Director, Center for Military Medicine Research

University of Pittsburgh

USA

1740-1830 Panel Discussion

Australia: Prof Denese Marks

Research Program Leader Australian Red Cross

Australia

Israel: Prof. Eilat Shinar, MD

Magen David Adom

Israel



US: Evan M Bloch, MD, MS

Associate Professor of Pathology

Associate Division Director, Transfusion Medicine | Medical Director, Apheresis

Johns Hopkins University School of Medicine

USA

Europe: Prof Dr. Marc Maegele

Department of Traumatology and Orthopedic Surgery

Cologne-Merheim Medical Center (CMMC)

Institute for Research in Operative Medicine (IFOM)

University Witten-Herdecke (UWH)

Germany

1830-1930 Reception Hour/Poster Session

1930 Dinner



WEDNESDAY

0730-1200 Parallel Sessions: Science and Practical Care

PARALLEL SESSIONS: SCIENCE

SESSION 15A: WHAT'S GOING ON (PATHOPHYSIOLOGY -PART 1)

Moderated by Lucy Kornblith, MD

0730-0800 Oxygen Debt and Blood Failure

Kevin Ward, MD

Executive Director: Max Harry Weil Institute for Critical Care Research and Innovation

Professor: Departments of Emergency Medicine and Biomedical Engineering

University of Michigan

LT COL U.S. Army Reserves MC

USA

0800-0825 Innovative Approaches to Studying TIC to Achieve Precision Resuscitation, the

TACTIC 2.0 Frontier Mitchell Jay Cohen, MD

Professor, Department of Surgery

University of Colorado

USA

0825-0850 RBC Dysfunction from Traumatic Shock

Angelo D'Alessandro, PhD

Assistant Professor and Director of the Metabolomics Core

University of Colorado

USA

0850-0915 **RBC Thromboinflammation**

Michael Goodman, MD FACS

Professor of Surgery

Dario Rodriquez Jr. Chair of Trauma Research

Associate Program Director, General Surgery Residency

University of Cincinnati Department of Surgery

USA

0915-0925 Discussion



SESSION 15B: WHAT'S GOING ON (PATHOPHYSIOLOGY - PART 2)

Moderated by Denise Marks

0925-0945 Calcium Signaling and Clinical Implications for Treatment of Hypocalcemia in

Resuscitation

Kalev Freeman, MD

Associate Professor of Emergency Medicine and Pharmacology

University of Vermont

USA

0945-1005 Complement Responses to Transfusion and Relevance to ABO Compatibility

Michael Yaffe, MD PhD

Director, MIT Center for Precision Cancer Medicine; David H. Koch Professor in Science;

Professor of Biological Engineering; Intramural Faculty, Koch Institute

USA

1005-1025 Changes in Platelet RNA Architecture with Storage

Lucy Zumwinkle Kornblith, MD, FACS

Associate Professor of Surgery Trauma and Surgical Critical Care

San Francisco General Hospital

USA

1025-1035 **Discussion**

1035-1045 **Break**

SESSION 15C: I'LL TELL YOU WHAT'S GOING ON (ASSAY DEVELOPMENT)

Moderated by Susan Shea, PhD

1045-1055 Functional Hemostasis Monitoring is not Indicated for TIC

John Holcomb, MD FACS

COL, USA (Ret)

Professor of Surgery, Department of Surgery

University of Alabama at Birmingham

USA

1055-1115 Novel Flow Based Hemostasis Assays for TIC

Keith Neeves. PhD

Professor, Department of Bioengineering

Department of Pediatrics, Section of Hematology, Oncology, and BMT

University of Colorado Denver

USA

1115-1130 Modified Flow Based Assays for TIC

Nathan White, MD



Associate Professor, Department of Emergency Medicine Director, Resuscitation Engineering Science Unit (RESCU) University of Washington USA

1130-1150 OMICS Based Assays to Assess Blood Failure

Kirk Hansen, PhD

Professor, Structural Biology and Biochemistry

University of Colorado

USA

1150-1200 **Discussion**

1200-1400 **Lunch / Break**

SESSION 16: INDUSTRY WORKSHOPS

Moderator: Philip Spinella, MD

1400-1415 Physiologic Closed-Loop Control of Life Support – The Future of Combat Medicine

Joshua Lampe

Acting Vice President, Clinical and Scientific Affairs

Zoll

1415-1430 **Point of Injury Hemostasis**

Michael Weissman Clinical Education Manager

Celox Medical

SESSION 17: WE HAVE GOT TO FIND A WAY (PRECISION TRANSFUSION PRODUCT

DEVELOPMENT)

Moderated by Chrsitine M. Leeper, MD

1430-1450 **Hypoxic RBC**

Angelo D'Alessandro, PhD Assistant Professor and Director of the Metabolomics Core University of Colorado

USA

1450-1510 Dried Product Combinations/Engineered Dried Plasma/Engineered Dried Platelet Products



Martin A. Schreiber, MD FACS FCCM

COL, MC, USAR

Adjunct Professor of Surgery

Uniformed Services University of the Health Sciences

USA

1510-1530 **Genetically Engineered Transfusable Platelets**

Christian Kastrup, PhD Professor of Surgery

Versiti Blood Research Institute Medical College of Wisconsin

USA

1530-1550 Cold Stored and Frozen Platelets

Prof Denese Marks Research Program Leader Australian Red Cross

Australia

1550-1600 **Discussion**

SESSION 18: FUNDING PRIORITIES AND OPPORTUNITIES

Moderated by Don Jenkins

1600-1615 **FDA**

Carlos H.Villa MD PhD

Office of Blood Research and Review (OBRR)

FDA Center for Biologics Evaluation and Research (CBER)

USA

1615-1635 **US Department of Defense**

Travis M. Polk, MD, FACS, Commander, MC, USN

Chair, Joint Program Committee-6

Director, US Combat Casualty Care Research Program (CCCRP)

US Army Medical Research and Development Command (USAMRDC) Army Futures Command

(AFC) USA

1635-1650 **DARPA**

Jean-Paul Chretien, MD PhD Program Manager, DARPA

USA

1650-1700 Conference Summary

Geir Strandenes and Philip C. Spinella