

International Conference:

Innovation in Translational Science and Surgical and Intensive Care Research

Special Symposium:

Research and Medical Care in Ukraine at the Time of War and Peace

31 March 2025 – 03 April 2025

Cliff Lodge, Snowbird, Utah



This conference is proudly sponsored by the Autonomous Reanimation and Evacuation Research Institute, a program of record of The Geneva Foundation, a 501(c)3 non-profit research support organization.

The program will cover a wide array of topics in surgical intensive care, point of injury- and prehospital life-saving interventions, development of portable, wearable critical care capabilities for out-of-hospital medicine, extracorporeal life support, eCPR, anticoagulation, and all aspects of trauma care.

A special focus will be given at the conference to the current medical care in Ukraine and war zones around the world with invited speakers representing each country's military and civilian medical services.

We aim to foster innovative discussions to improve point of injury mortality, reduce preventable deaths, improve care for single and multiorgan failure, and improve point of need medical devices and capabilities.

The conference is focused on improving warfighter outcomes, from the bedside to the bench and back again.

We welcome all in the various roles to provide equipment, methods, and care to the most severely injured. We especially welcome those with paradigm-shifting ideas.



Monday, March 31, 2025

Welcome to Snowbird! We are glad you are here!

All sessions will take place in Room Primrose B with audience participation, no parallel sessions

All breaks will take place in Room Primrose A

07:00	08:00	Continental Breakfast
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8:00	10:00	War-Related Injuries in Ukraine: TBI management	
		<i>Moderators: COL Konstjantyn Gumeniuk, MD and Andriy Batchinsky MD</i>	
8:00	8:20	Conference opening, introductions, goals of the special symposium and round table meeting of international experts "What keeps me up at night..."	<i>Andriy Batchinsky MD, Director AREVA, Professor of Surgery and Medicine USU, Conference Chair</i>
8:20	8:40	Lessons Learned from 11 Years of Experience Managing of Severe Combat Neurotrauma at the Mechnikov Hospital in Dnipro, Ukraine.	<i>Andrii Sirko, MD, Professor, President of the Ukrainian Neurosurgical Association (virtual presentation from Dnipro, Ukraine)</i>
8:40	9:00	TBI Management the US Neurosurgeons Perspective: Do we need a doctrinal Change for TBI management in LSCO?	<i>Rocco Armonda, MD, Neurosurgeon, Washington, DC</i>
9:00	9:20	Data that Changes Medical Practice: A Trauma Surgeons Perspective on TBI management?	<i>John Holcomb, MD, Professor of Surgery, Univ of Alabama, Birmingham</i>
9:20	9:55	Round Table Discussion: 1) Priorities for TBI management during LSCO 2) Priorities for research in TBI management	<i>All faculty and audience discussion</i>

9:55	10:00	Coffee Break
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10:00	12:00	War-related injuries: Data Collection in the DoD Trauma Registry and in Ukraine	
		<i>Moderators: Serhij Dubrov MD and John Holcomb MD</i>	
10:00	10:20	OEF/OIF: How the DoDTR Changed Practice	<i>Jennifer Gurney, MD</i>
10:20	10:40	OEF/OIF: The DoD Trauma Registry	<i>Jonathon Stallings, PhD</i>
10:40	11:00	Minimum Essential Data Set for a Database	<i>Ian Stewart MD, USU</i>
11:00	11:20	Nuts and Bolts of a New AREVA Database on War Related Injuries in Ukraine: Progress Report from an Ongoing MTEC Grant	<i>Oleksandr Topachevskiy and Andriy Batchinsky MD</i>
11:20	11:40	Data collection in the military and civilian hospitals in L'viv	<i>Speaker from L'viv, Ukraine</i>
11:20	11:55	Round Table Discussion: 1) Doctrinal change in Ukraine on creation of military medical database in MOD and MOH 2) Data collection challenges and successes	<i>All faculty and audience discussion</i>

12:00	16:00	Networking Break, Exhibitor displays
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15:00	16:00	Après Ski: Vendor Exhibit Area
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16:00	19:00	Innovation in Translational Research and Science	
		<i>Moderators: Lawrence Renna PhD, Monica Embers PhD</i>	

16:00	16:20	Biosensors for Combat Injury Management	<i>Conor Evans, PhD, Wellman Institute, Harvard Med School</i>
16:20	16:40	Ex-vivo Removal of Potassium: A Promising Adjunct to save lives on the battlefield?	<i>George Harea, PhD candidate, AREVA, San Antonio, Tx</i>
16:40	17:00	Microfluidic oxygenators: a new generation ECLS technology	<i>Jeffrey Borenstein, PhD, Draper Labs, Boston, MA</i>
17:00	17:20	Blood testing for multiple infections: state of science in the era of immunodepression	<i>Jason Bachewich, MD, Canada</i>
17:20	17:40	Limb compartment syndrome and limb ischemia: what's in the diagnostic pipeline?	<i>Olivier Bataille, Canada</i>
17:40	18:00	Coffee Break: Vendor Exhibit Area	<i>Break</i>
18:00	19:00	The Unanswered Global Infection Disaster of Our Time: Lyme Disease and Tick-Borne Infections: History, Diagnosis, Research, Innovation	<i>Monica Embers, PhD, National Primate Center, Tulane University, New Orleans, LA</i>

Tuesday, April 1, 2025

07:30	08:00	Continental Breakfast	
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8:00	10:00	Lessons Learned from the War in Ukraine: Unified Medical Space	
		<i>Moderators: Serhii Dubrov, MD and Andriy Batchinsky MD</i>	
8:00	8:20	The Unified Medical Space: A New Paradigm in Large Scale Combat Operations. Perspective from the Ukraine Ministries of Defense and Health	<i>Serhii Dubrov, MD, Deputy Minister of Health of Ukraine</i>
8:20	8:40	Cardiac Trauma and Transplantation During the War in Ukraine	<i>Professor Borys Todurov MD, Kyiv</i>
8:40	9:00	Patient movement between military and civilian hospitals in Ukraine	<i>Dr. Tymchuk, Dnipro</i>
9:00	9:20	Manned and Unmanned Evacuation of injured in Ukraine	<i>COL Konstjantyn Gumeniuk, MD, PhD, Kyiv</i>
9:20	9:55	Bilingual Round Table Discussion with synchronous translation (when needed): 1) Priorities for patient movement in UMS 2) What should we prepare for in LSCO evacuations?	<i>All faculty and audience discussion</i>

9:55	10:00	Coffee Break	
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10:00	12:00	War-related injuries: Tourniquets and Tourniquet Management	
		<i>Moderators: Andriy Rusnak, MD and Roman Hayda, MD</i>	
10:00	10:20	How I manage Tourniquet Syndrome at level 1-2 Facilities in Ukraine	<i>Andriy Rusnak, MD</i>
10:20	10:40	How I manage Consequences of Tourniquet Syndrome at a Level IV-V facility in Ukraine	<i>Andriy Buchok, MD</i>
10:40	11:00	Extremity trauma in Ukraine: the US Orthopedic Surgeon's perspective	<i>Roman Hayda, MD</i>
11:00	11:20	TBD	<i>Speaker from Ukraine</i>
11:20	12:00	Round Table Discussion with synchronous translation (when needed): 1) Priorities for Tourniquet management during LSCO	<i>All faculty and audience discussion</i>

		2) Priorities for research in Tourniquets	
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12:00	16:00	Networking Break	
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15:00	16:00	Après Ski: Vendor Exhibit Area	
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16:00	19:00	Coagulation Insights Amidst Post-Trauma Coagulopathy and Advanced Management Interventions	
		<i>Moderators: Teryn Roberts, PhD, San Antonio, Texas and Serhii Sudakevych MD, PhD, Kyiv, Ukraine</i>	
16:00	16:20	Extracorporeal Organ Support for Trauma: Coagulation Implications and Management	<i>Elizabeth K. Powell, MD</i>
16:20	16:40	Plasma Exchange for Trauma Induced Coagulopathy	<i>Jay S. Raval, M.D., University of Vermont Medical Center</i>
16:40	17:00	Post-Traumatic Endotheliopathy: Advice for Combat Care Providers Today and 10 Years from Now	<i>Shibani Pati MD, PhD</i>
17:00	17:20	Anticoagulation Management During All Forms of ECLS at the Central Heart Institute of the Ministry of Health of Ukraine	<i>Dr. Sudakevych, MD, PhD</i>
17:20	17:40	Talk selected from abstracts	<i>TBD</i>
17:40	18:00	Coffee Break: Vendor Exhibit Area	<i>Break</i>
18:00	19:00	Dr. Robert deLemos Memorial Lecture <i>History of Bob deLemos and How to Make your ICU better</i> <i>Gala Dinner (sign up at registration desk)</i>	<i>COL (r) Don Null, MD</i>

Wednesday, April 2, 2025

07:30	08:00	Continental Breakfast (Room Primrose A)	
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8:00	9:40	Military and Civilian Extracorporeal Life Support Around the World	
		<i>Moderators: Lars Broman, MD; John Marinaro, MD</i>	
8:00	8:20	Adult ECLS in the Enroute Care Environment: Overview and Practical Considerations of Managing ECMO Patients During Transport	<i>Valerie Sams, MD, Col U.S. Air Force, Director, CSTARS, Cincinnati, Ohio</i>
8:20	8:40	ECPR in New Mexico	<i>John Marinaro, MD</i>
8:40	9:00	ECMO Transports in Sweden: a Comprehensive Review of Experience	<i>Lars Broman, MD</i>
9:00	9:20	ECMO in Trauma: A Civilian and Military Perspective	<i>Jeremy Cannon, MD, Col U.S. Air Force</i>
9:20	9:55	Round Table Discussion with synchronous translation (when needed): 1) Use of portable ECLS for ECPR, ECMO and dialysis outside of hospitals during “stay and play” 2) Use of portable ECLS for ECPR, ECMO and dialysis outside of hospitals during “scoop and run”	<i>All faculty and audience discussion</i>

9:55	10:00	Coffee Break: Vendor Exhibit Area	
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10:00	12:00	Innovation in Extracorporeal Life Support	
		<i>Moderators: Borys Todurov MD, PhD and Don Null, MD</i>	
10:00	10:20	Portable Battery-Operated Heparin Free Multimodal Extracorporeal Life Support for Point of Need Life Preservation During Large Scale Combat Operations	<i>Andriy Batchinsky, MD</i>
10:20	10:40	Potassium Removal <i>in-vivo</i> : How Would I do it on the Battlefield?	<i>Ian Stewart, MD, USU</i>
10:40	11:00	Thrombolysis in Injured on ECLS at the Central Heart Institute he Ministry of Health of Ukraine	<i>Ihor Kuzmych, MD</i>
11:00	11:20	Advancing Battlefield ECMO for Life and Limb Rescue: Translational Research Perspectives	<i>Patrick Walker MD, USU, Bethesda, MD</i>
11:20	11:40	The Medical Javelin: Use of the MOVES SLC in Ukraine	<i>Derek Watt, Canada</i>
11:40	12:00	Round Table Discussion with synchronous translation (when needed): 1) What innovation is needed in ECLS for war and peace time pandemics? 2) Integration of multifunctional technology: is there a solution today and es it look?	<i>All faculty and audience discussion</i>

12:00	16:00	Networking break	
13:00	16:00	Giant Slalom fun run (group pictures on the slopes) Weather permitting	Sign up at registration desk at conference
15:30	16:00	Après Ski: Vendor Exhibit Area	

16:00	19:00	Lessons Learned from Wars Around the World	
		<i>Moderators: Ivan Shychko, MD, Ukraine and Ian Stewart MD</i>	
16:00	16:20	TBD	<i>Speaker from Israel</i>
16:20	16:40	After the Shooting Stops: Long Term outcomes after GWOT	<i>Jeffrey Howard PhD, San Antonio Tx</i>
16:40	17:00	How I manage Drone-Based Injuries at a Level III-IV civilian hospital in Kyiv Ukraine	<i>Ivan Shychko, MD</i>
17:00	17:20	Infection and Antibiotic Resistance	<i>Paige Waterman MD, Chair of Medicine, USU</i>
17:20	17:55	Round Table Discussion with synchronous translation (when needed): 1) Infection challenge in Ukraine and Israel 2) What is the way forward with infection management?	<i>All faculty and audience discussion</i>
17:55	18:00	Coffee Break: Vendor Exhibit Area	<i>Break</i>
18:00	19:00	Dr. Forrest M. Bird Memorial Lecture <i>Informal Group Dinner and Live Music (stay tuned...)</i>	<i>Speaker TBD</i>

Thursday, April 3, 2025

07:30	08:00	Continental Breakfast (Room Primrose A)
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08:00	10:00	International Experts Roundtable <i>All faculty and attendee discussion</i> <i>Meeting Recommendations</i> <i>All faculty and audience discussion</i>
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9:40	10:00	Coffee Break: Vendor Exhibit Area
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10:00	12:00	Best Abstract Presentations and Medical Student Competition	
		<i>Moderators: Don Null MD, Ivan Slychko MD</i>	
10:00	10:20	TBD	<i>TBD</i>
10:20	10:40	TBD	<i>TBD</i>
10:40	11:00	TBD	<i>TBD</i>
11:00	11:20	TBD	<i>TBD</i>
11:20	11:40	TBD	<i>TBD</i>
11:40	12:00	TBD	<i>TBD</i>

Meeting adjourns

Closing words from Conference Chair

Thank you for attending!

See you in 2026 !

Financial support for this conference was provided, in part, through the Combat Casualty Research Program (CCCRP) via MTEC solicitation MTEC-24-01-MPAI-160 in accordance with the Congressional direction to establish medical partnering with the Ukraine specified in Sec 735 NDAA 2023 and Sec 721 NDAA 2024, and The Geneva Foundation.

The views and conclusions expressed during this conference are those of the author(s) and should not be interpreted as representing the official policies or endorsements, either expressed or implied, of the governments or any governmental body of Ukraine or The United States of America.

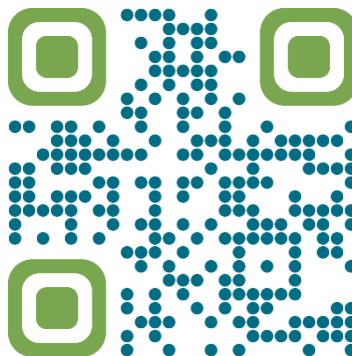
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