

Curriculum Vitae

Last Updated: 02/22/2024

PERSONAL DATA

Name: Joseph E. Tonna, M.S., M.D.
Birth Place: Santa Rosa, CA
Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
2017 - 2020	M.S.	University of Utah (Biostatistics/Clinical Research) Salt Lake City, UT
2013 - 2014	Fellow	University of Washington (Critical Care) Seattle, WA
2011 - 2013	Resident	Stanford University (Emergency Medicine) Stanford, CA
2010 - 2011	Intern	Stanford University (Emergency Medicine) Stanford, CA
2006 - 2010	M.D.	University of California, San Francisco (Medicine) San Francisco, CA
2001 - 2005	B.A.	University of Chicago (Biological Sciences with General Honors) Chicago, IL

BOARD CERTIFICATIONS

08/14/2016 - 12/31/2026 American Board of Anesthesiology (Sub: Critical Care Medicine), Certified
05/13/2014 - 12/31/2024 American Board of Emergency Medicine (Emergency Medicine), Certified

CURRENT LICENSES/CERTIFICATIONS

2010 - 2026 Advanced Trauma Life Support
2008 - 2024 Advanced Cardiac Life Support

UNIVERSITY OF UTAH ACADEMIC HISTORY

Surgery (Cardiothoracic Surgery), 12/16/2019 - Present

07/01/2021 - Present Associate Professor
12/16/2019 - 06/30/2021 Assistant Professor

Surgery (Cardiothoracic Surgery), 04/01/2016 - 12/15/2019

04/01/2016 - 12/15/2019 Assistant Professor (Clinical)

Emergency Medicine, 09/01/2022 - Present

09/01/2022 - Present Adjunct Associate Professor

Surgery (General Surgery), 08/21/2014 - 03/31/2016

08/21/2014 - 03/31/2016 Assistant Professor (Clinical)

PROFESSIONAL EXPERIENCE

Full-Time Positions

2021 - Present Associate Professor with Award of Tenure, University of Utah, Salt Lake City, UT
2014 - 2021 Assistant Professor, University of Utah, Salt Lake City, UT

Editorial Experience

2022 Guest Editor, Special Edition on Cardiogenic Shock, *Journal of Clinical Medicine (JCM)*.
2015 - 2017 Editor for ACEP Critical Care Section Newsletter
2013 - 2015 Associate Editor for ACEP Critical Care Section Newsletter

Reviewer Experience

Journal of the American Heart Association (ad hoc)
Reviewer for *Annals of Emergency Medicine* (ad hoc)
Reviewer for Annals of the American Thoracic Society (ad hoc)
Reviewer for British Medical Journal Case Reports (ad hoc)
Reviewer for *Circulation*(ad hoc)
Reviewer for *Circulation: Cardiovascular Quality and Outcomes* (ad hoc)
Reviewer for *Critical Care* (ad hoc)
Reviewer for *Critical Care Medicine* (3-5/yr)
Reviewer for *Intensive Care Medicine* (ad hoc)
Reviewer for JAMA Cardiology (ad hoc)
Reviewer for *Journal of Critical Care* (ad hoc)
Reviewer for *Journal of Pediatric Intensive Care* (ad hoc)
Reviewer for Journal of Surgical Research (ad hoc)
Reviewer for *Lancet Respiratory* (ad hoc)
Reviewer for *Nature Medicine* (ad hoc)
Reviewer for *PLOS One* (ad hoc)
Reviewer for *Resuscitation* (7-15/yr)
Reviewer for *Scientific Reports* (ad hoc)
Reviewer for *Western Journal of Emergency Medicine* (ad hoc)

SCHOLASTIC HONORS

2020 - Present Fellow of Critical Care Medicine (FCCM), American College of Critical Care Medicine
2017 - Present Fellow, American College of Emergency Physicians (FACEP)
2017 - 2019 Faculty Innovation-Research and Entrepreneurship (FIRE) Scholar
2016 - 2018 Vice President's Clinical and Translational Research Scholar (VPCAT)
2014 - Present Fellow, American Academy of Emergency Medicine (FAAEM)
2012 - 2013 Johnson & Johnson Global Health Scholar
2009 - 2010 Blood Scholarship, University of California, San Francisco

2009	“Most Innovative Research Project”, CAL/ACEP Scientific Assembly Research Forum, University of California, San Francisco
2007	Taussig Scholarship, University of California, San Francisco
2006	Dean’s Scholarship, University of California, San Francisco
2005	Mary Jean Mulvaney Scholar-Athlete Award (Senior Athlete with the Highest GPA), University of Chicago
2003 - 2005	University Athletic Association (UAA) All-Academic Recognition, University of Chicago
2003 - 2004	Berkman Scholarship in the Biological Sciences, University of Chicago
2001 - 2005	Dean’s List, University of Chicago

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2022 - Present	Board Member, Institutional Review Board, University of Utah
2018 - Present	Medical Director, Cardiovascular ICU/Cardiothoracic Critical Care; Member of CVICU Governance Committee
2017 - Present	Section Head, Cardiothoracic Critical Care, Division of Cardiothoracic Surgery
2015 - Present	Associate Director, ECMO Services, University of Utah
2014 - 2017	Resident Education Director, Surgical Intensive Care Unit, University of Utah

Professional Organization & Scientific Activities

2023 - Present	Chair, Extracorporeal Life Support Organization, Registry Committee
2022 - Present	Steering Committee, Extracorporeal Life Support Organization
2022	Chair-Elect, Extracorporeal Life Support Organization, Registry Committee
2021 - 2022	Outgoing Chair, Extracorporeal Life Support Organization, Scientific Oversight Committee (SOC), Registry Committee
2019 - 2021	Chair, Extracorporeal Life Support Organization, Scientific Oversight Committee (SOC), Extracorporeal Life Support Organization (ELSO)
2019	Chair-Elect, Extracorporeal Life Support Organization, Scientific Oversight Committee (SOC), Registry, Extracorporeal Life Support Organization (ELSO)
2017 - Present	Committee Member, Extracorporeal Life Support Organization, Registry Scholarly Oversight Committee (SOC)
2017 - Present	Member, Society of Critical Care Medicine, DISCOVERY Network
2016 - Present	Member, Society of Critical Care Medicine, Research Section
2015 - 2017	Leadership Council, Society of Critical Care Medicine, Emergency Medicine Section
2014 - Present	Member, Society of Critical Care Medicine, Emergency Medicine Section
2012 - 2013	Member, Emergency Medicine Residents' Association, Critical Care Committee
2012 - Present	Member, American College of Emergency Medicine, Critical Care Committee

Grant Review Committee/Study Section

2019 - Present	Center for Clinical and Translational Science (CCTS) Grant Reviewer (ad hoc)
2017	National Science Foundation Scientific Review Panel (ad hoc)

Symposium/Meeting Chair/Coordinator

2024	Utah Cardiac Recovery Symposium/Chairperson, University of Utah Health Sciences Center, Salt Lake City, Utah
2020	Utah Cardiac Recovery Symposium/Chairperson, University of Utah Health Sciences Center, Salt Lake City, Utah
2019	Utah Cardiac Recovery Symposium/Chairperson, University of Utah Health Sciences Center, Salt Lake City, Utah
2018	Utah Cardiac Recovery Symposium/Chairperson, University of Utah Health Sciences Center, Salt Lake City, UT
2017	Utah Cardiac Recovery Symposium/Chairperson, University of Utah Health Sciences Center, Salt Lake City, Utah
2016	Utah Cardiac Recovery Symposium/Chairperson, University of Utah Health Sciences Center, Salt Lake City, Utah

PROFESSIONAL COMMUNITY ACTIVITIES

2014 - 2018	Physician Member, Department of Health and Human Services, Disaster Medical Assistance Team (DMAT) UT-1
2013	Teaching Physician, John F. Kennedy Medical Center, Johnson & Johnson Global Health Scholar, Monrovia, Liberia, International Health Scholar exchange program
2012	Medical Team Volunteer, Disaster Medical Assistance Team, NATO Summit 2012 DMAT Deployment, Chicago, IL
2012 - 2014	Member, Department of Health and Human Services, Disaster Medical Assistance Team (DMAT) CA-6
2010	Site Medical Leader, Alameda County Sheriff's Office, Urban Shield, International Law Enforcement SWAT Team Competition, Oakland, CA
2008	Medical Team Volunteer, California Emergency Medical Services Authority, Golden Guardian, CALMAT, March Air Reserve Base, CA
2008 - 2014	Member, State of California, California Medical Assistance Team (CAL-MAT)
2008 - 2011	Medical Team Volunteer, Alameda County Sheriff's Office, Urban Shield, International Law Enforcement SWAT Team Competition, Oakland, CA
2008 - 2009	Volunteer, San Francisco Department of Public Health

UNIVERSITY COMMUNITY ACTIVITIES

University of Utah Health

2017 - 2020	Member, University of Utah Hospitals and Clinics, Interdisciplinary Committee (IDC), CVICU
2015	Member & Liaison, Trauma Review Committee, SICU Liaison
2015 - 2021	Member & Liaison, Critical Care Committee, Emergency Medicine Liaison
2015 - 2018	Member & Liaison, Physician Advisory Council, SICU/CVICU Liaison
2015	Resident Scheduler, Surgical Intensive Care Unit
2015	Member & Representative, University of Utah Hospitals and Clinics, Price Tag Project (Precision Diagnostics--Radiology), Surgical ICU and Emergency Medicine Project Goal: To implement a comprehensive, effective, measurable method to implement appropriate use of medical imaging

2015 - Present Member & Informatics Liaison, Surgical Intensive Care Unit, Information Technology Services (ITS)

2015 - 2016 Physician Lead, Surgical Intensive Care Unit, Early Mobilization Project

2014 - 2015 Educational Director, Surgical Intensive Care Unit

2014 - 2015 Physician Champion, University of Utah Hospitals and Clinics, Catheter Associated Urinary Tract Infection (CAUTI) Improvement Collaborative. Collaborative through the University Hospital Consortium to help start a performance project to reduce CAUTIs

2014 - 2015 Member, Surgical Intensive Care Unit, Interdisciplinary Committee (IDC)

Department Level

2014 - 2018 Member, Surgery, Graduate Education Committee, General Surgery, School of Medicine

Division Level

2018 - Present Member, Cardiothoracic Surgery, Clinical Competency Committee, Thoracic Surgery

SERVICE AT PREVIOUS INSTITUTIONS

2013 - 2014 Member, University of Washington, "OR to ICU Handoff" Improvement/Safety Committee

2013 - 2014 Member, University of Washington, ICU Delirium Prevention Research Committee

2010 - 2011 Chair, Stanford University School of Medicine, Kaiser Emergency Medicine Residency Applicant Socials

2008 - 2009 Co-Developer, University of California, San Francisco, Envenomation Protocols for California Academy of Sciences Venomous Animals, Co-developed protocols with Matthew R. Lewin, MD, PhD

2007 - 2010 Member, University of California, San Francisco, Emergency Medicine Interest Group (EMIG)

2007 - 2010 Chapter Head, University of California, San Francisco, Wilderness Medical Society (WMS)

2007 - 2010 President, University of California, San Francisco, Wilderness Medicine Student Interest Group (WMSIG)

2007 Member, University of California, San Francisco, Accepted Students Weekend Planning Committee

2006 - 2008 Medical Student Volunteer, University of California, San Francisco, UCSF Homeless Clinic (Tenderloin neighborhood, San Francisco)

2006 - 2007 Co-President, University of California, San Francisco, Emergency Medicine Interest Group (EMIG)

2004 - 2005 Team Representative & Secretary, University of Chicago, 'Order of the C' (Varsity athletic society)

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Academy of Emergency Medicine

American College of Emergency Physicians
American Heart Association
American Thoracic Society
Society of Critical Care Medicine
Society of Thoracic Surgeons

FUNDING

Active Grants

02/09/24 - 01/31/29 1R01HL168510-01A1 Physiology of Unloading VA ECMO Trial
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$496,307 Total Costs: \$658,132
National Heart, Lung, and Blood Institute
Role: Principal Investigator

06/15/18 - 04/30/24 1K23HL141596-01
Optimizing Selection and Management of Cardiac Arrest Patients Treated with ECMO
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$175,104 Total Costs: \$189,000
National Heart Lung & Blood Institute
Role: Principal Investigator

Past Grants

01/01/19 - 12/31/19 Silent ICU
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$30,000 Total Costs: \$30,000
University of Utah Hospital Foundation
Role: Principal Investigator

09/27/17 - 10/31/19 A Multicenter, Randomized, Double-blind, Parallelgroup, Clinical Study of S-649266 Compared with Meropenem for the Treatment of Hospital-acquired Bacterial Pneumonia, Ventilator-associated Bacterial Pneumonia, or Healthcare-associated Bacterial Pneumonia Caused by Gram-negative Pathogens
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$32,340 Total Costs: \$42,341
Shionogi Usa Inc
Role: Site Principal Investigator

07/01/17 - 06/30/18 Erdc Silent Alarm
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$5,000 Total Costs: \$5,000
Educational Resource Development Council
Role: Principal Investigator

03/01/17 - 02/28/20 Imagine Perfect Care--Project Sleep
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$60,000 Total Costs: \$60,000
University of Utah Hospitals & Clinics
Role: Principal Investigator

- 10/30/15 - 10/29/16 Innovation Core Grant--ICU Sleep Monitor
Principal Investigator(s): Joseph E. Tonna
Direct Costs: \$3,000 Total Costs: \$3,000
National Science Foundation Innovation Corps
Role: Principal Investigator
- 09/15/15 - 09/14/18 Granular Modeling--Simulating the Transmission of Healthcare Associated Infections in Hospitals and Control Strategies (RFTOP #2015-006)
Direct Costs: \$2,000,000 Total Costs: \$2,000,000
Centers for Disease Control and Prevention
Role: Co-Investigator
- 01/01/09 - 12/31/09 Emergency Medicine Interest Group (EMIG) Education Grant
Direct Costs: \$500 Total Costs: \$500
Society for Academic Emergency Medicine
Role: Project Coordinator
- 05/01/07 - 08/30/07 Dean's Summer Research Grant
Principal Investigator(s): Matthew Lewin
University of California, San Francisco
Role: Researcher
- 01/01/07 - 12/31/07 Emergency Medicine Interest Group (EMIG) Education Grant
Direct Costs: \$500 Total Costs: \$500
Society for Academic Emergency Medicine
Role: Project Coordinator
- 05/01/06 - 08/31/06 Dean's Summer Research Grant
Principal Investigator(s): Mark Rollins
University of California, San Francisco
Role: Researcher

CLINICAL STUDIES

- 2018 - 2019 Incidence of Diarrhea Using High and Low Osmolality Enteral Tube Feeding in Critically Ill Surgical Patients (NCT03487744)[Co-Investigator]
- 2017 - 2018 VOLUME/CHASER: Observation of VariatiOn in fLUids adMinistEred and CHaracterizAtion of vaSopressor REquirements in shock [Site-PI]
- 2017 - 2018 Sleep/Wake Protocol Implementation to Improve Sleep Quality and Reduce Delirium in a Surgical and Cardiovascular Intensive Care Unit (NCT03313115) [Principal Investigator]
- 2017 - 2021 Project Sleep I: Validation of Tessa to Gold Standard Formal Polysomnography (NCT03322371)
[Principal Investigator]
- 2017 - 2018 Severe ARDS: Generating Evidence (SAGE)(NCT03021824) [Site PI]
- 2016 - Present Principal Investigator for Extracorporeal Resuscitation Outcomes Database/Extracorporeal Resuscitation Consortium. Multi-center Observational study of Extracorporeal Cardiopulmonary Resuscitation in US and Canada. Currently 8 centers.
- 2015 - 2018 SHEPherD: Granular Modeling Simulating the Transmission of Healthcare Associated Infections in Hospitals and Control Strategies. [Co-Investigator]

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Course and Curriculum Development

- 2014 - 2015 Surgical Intensive Care Unit Lecture Series
- 2008 - 2009 Course Coordinator, Wilderness Medicine, University of California, San Francisco
- 2007 Course Developer, Radiologic Imaging in the Emergency Department, UCSF School of Medicine
This course was created with Dr. Breiman to teach radiologic interpretation skills and cases relevant to practice in an Emergency Department to medical and nursing students and clinicians
- 2007 Course Developer, An Introduction to the Primary Assessment and Managing Life-Threatening Injuries, UCSF School of Medicine
Co-Developed a Patient Assessment/CPR/First Aid course that was integrated into the 1st year medical student curriculum in Fall of 2007. Course added in 2008 as permanent addition to medical student curriculum

Course Lectures

- 2015 Lecturer, Surgery Clerkship - SICU issues, University of Utah, Surgery, Lecture on SICU topics for Medical Students
- 2015 Lecturer, Surgery Clerkship- SICU Issues, University of Utah, Lecture on SICU topics for Medical Students
- 2014 Lecturer, Surgery Clerkship - SICU issues, University of Utah, Surgery, Lecture on SICU topics for Medical Students
- 2014 Lecturer, SURG 7020: Surgery Clerkship, 16 students, University of Utah, Surgery
- 2013 Lecturer, Intern Procedures Course: Thoracic & Abdominal Ultrasound, University of Washington
- 2009 Lecturer, Wilderness Medicine Course, University of California, San Francisco, "Backcountry Trauma"
- 2009 Lecturer, Musculoskeletal Examination Course, UCSF School of Medicine
- 2009 Lecturer, Comprehensive Physical Examination Course, UCSF School of Medicine
- 2008 - 2009 Lecturer, Wilderness Medicine Course, University of California, San Francisco, "Splinting, Wound Care and Wilderness Medicine Skills," Lecture and Skills Session
- 2007 - 2009 Teaching Assistant, Advanced Emergency Department Procedures, UCSF School of Medicine, Instructed students to perform central and intraosseous lines, saphenous cut-downs, chest tube placements, lateral ocular canthotomies, cricothyrotomies, and needle decompressions on un-embalmed cadavers
- 2004 - 2005 Teaching Assistant, Biochemistry Course, University of Chicago
- 2003 - 2004 Writing Instructor, Core Biology, University of Chicago

Clinical Teaching

- 2018 - Present Cardiovascular ICU Lecture Series
- 2015 - 2017 ICU Lecture Series, Surgical/Cardiovascular ICU

Laboratory Teaching

- 2004 Teaching Assistant, Program for Research in the Biological Sciences (RIBS), University of Chicago

Small Group Teaching

- 2019 Instructor, "LVADs: be not Afraid" (Introduction to the management of patients with left ventricular assist devices (VADs) for the Emergency Physician), American Academy of Emergency Medicine (AAEM) Scientific Assembly
- 2011 Leader/Instructor, Practice of Emergency Medicine Small Group, Stanford Physician Assistant Class
- 2007 - 2009 Small Group Instructor, An Introduction to the Primary Assessment and Managing Life-Threatening Injuries, UCSF School of Medicine

Mentoring/Advising

Faculty

- 2020 - 2022 Advisor/Mentor, Christopher Kelly, University of Utah, Faculty Research Mentor
Trainee's Current Career Activities: Assistant Professor, University of Utah Health Student, Masters of Science in Clinical Investigation, University of Utah

Fellow

- 2022 - Present Advisor/Mentor, Laura DiChiaccio, University of Utah
- 2021 - Present Advisor/Mentor, Nicholas Levin, University of Utah, Research and Career Faculty Mentor/Advisor
Trainee's Current Career Activities: Critical Care Fellow, Stanford University

Resident

- 2022 - Present Advisor/Mentor, Joe Heiler, University of Utah
- 2022 - Present Advisor/Mentor, Jessica Smith, University of Utah
- 2018 - 2021 Advisor/Mentor, Nicholas Levin, University of Utah, Research/Career Faculty Mentor
- 2015 - 2020 Advisor/Mentor, Milos Buhavacs, University of Utah
Trainee's Current Career Activities: Assistant Professor of Surgery, University of Texas
- 2014 - 2019 Advisor/Mentor, Jennwood Chen, University of Utah
Trainee's Current Career Activities: Assistant Professor of Surgery, University of Utah Health

PhD/Doctorate

- 2017 - 2019 Content Advisor & PhD Committee, Thomas Reese, University of Utah

Masters

- 2017 - 2018 Content Advisor & Masters Committee, Sarah Beesley, University of Utah
- 2017 Masters Research Advisor, Hailey Ingebretsen, University of Utah
Trainee's Current Career Activities: Statistician for Red Scientific

Medical Student

2019 - 2021 Advisor/Mentor, Krista Stephens, University of Utah
Trainee's Current Career Activities: Resident in Emergency Medicine, University of New Mexico

2017 Advisor/Mentor, Kirstie Jarrett, University of Utah

2016 Advisor/Mentor, Corey Wolf, University of Utah, Mentored Corey Wolf through research in Venovenous ECMO database creation, data management, data extraction and analysis.
Trainee's Current Career Activities: Medical Student at University of Buffalo

2011 - 2012 Mentor, Stanford University, School of Medicine, Emergency Medicine Interest Group (EMIG)

Undergraduate

2016 - 2017 Advisor/Mentor, Tyson Lambert, University of Utah

2016 - 2017 Advisor/Mentor, Devin Davis, University of Utah
Trainee's Current Career Activities: Physician Assistant School

2016 - 2017 Advisor/Mentor, Brian Kasavana, University of Utah

2015 - 2017 Advisor/Mentor, Emilie Ungricht, University of Utah

2015 - 2016 Advisor/Mentor, Dillon Lawler, University of Utah

2015 - 2016 Advisor/Mentor, Hannah Louise Mika, University of Utah

2015 - 2016 Advisor/Mentor, Christian Brown, University of Utah

2015 - 2017 Advisor/Mentor, Taylor Burton JD, University of Utah

2015 - 2016 Advisor/Mentor, Wade Mather, University of Utah, Poster Title " Extracorporeal Cardiopulmonary Resuscitation for Cardiac Arrest - Predicting Survival"
 Presented - University of Utah Conference of Undergraduate Research - February 19, 2016
 Presented - University of Utah Undergraduate Research Symposium - April 12, 2016
Trainee's Current Career Activities:

2015 - 2016 Advisor/Mentor, Avani Latchireddi, University of Utah, Poster & Abstract Presentation- Title " Improvement of Care In The Surgical Intensive Care Unit Through Family Feedback"
 Presented - University of Utah Conference of Undergraduate Research - February 19, 2016
 Presented - University of Utah Undergraduate Research Symposium - April 12, 2016
Trainee's Current Career Activities: Masters in Pharmacology, University of Maryland

2014 - 2016 Advisor/Mentor, Madison Webb, University of Utah, Research Mentor

Graduate Student Committees

2022 - Present PhD Committee/Mentor/Advisor, Margaret Carlson, University of Utah

2021 - 2022 Faculty Mentor, Christopher Kelly, University of Utah

2019 - 2021 Content Expert, Lexi Almborg, University of Utah
2017 - 2018 Member, Sarah Beesley, University of Utah
2017 - 2019 Content Expert, Thomas Reese, University of Utah
2016 - 2017 Content Expert, Anna Dalton, University of Utah

Didactic Lectures

2020 "Introduction to Shock and Initial Management", Lecture for Emergency Medicine Interns
2016 Surgery Resident Didactic "Advanced Ventilator Management", University of Utah
2016 Ventilator Management for the Emergency Physicians
2013 - 2014 Morning Didactic Lectures for Surgical & Medical ICU Residents, University of Washington (5x yearly)

Internal Teaching Experience

2023 *Indications for ECMO*; School of Perfusion, University of Utah Health, Salt Lake City, UT, USA
2023 *Indications for ECMO*; Department of Internal Medicine, Resident Noon Conference, University of Utah Health, Salt Lake City, UT, USA
2022 Cardiogenic Shock; Lecture for Pulmonary Critical Care Medicine Fellows
2019 *Ventilator Management for the Emergency Physician*. Lecture for Emergency Medicine Resident Intern Orientation, 12 Resident Interns
2019 Diagnosis and Management of Aortic Dissection in the Emergency Department
2017 Ventilator Management for the Emergency Physicians
2015 General Surgery Resident Didactic "Transfusion During Surgery", University of Utah
2015 "ARDS, Basics and Beyond" Wednesday Morning Surgical Resident Didactic Lecture
2013 Hyperoxia and TBI, Surgical Critical Care Conference Lecture, ICU faculty, fellows, residents and students, University of Washington Medical Center
2012 Metabolic & Endocrine Emergencies. Residency Senior Lecture, Stanford/Kaiser Emergency Medicine Residency Conference, Stanford, CA

Additional Teaching Contribution

2015 "Prone Positioning" Nurse Education Course, Surgical ICU

Continuing Education

CE Courses Taught

2022 "Optimizing Extracorporeal Cardiopulmonary Resuscitation Success; Evidence and Practicalities from the Experts." Medscape CME/CNE Roundtable activity in Extracorporeal CPR with Karl Kern MD, Zachary Shinar MD and Joseph Tonna MD MS

PEER-REVIEWED JOURNAL ARTICLES

1. Scott EJ, Young S, Ratcliffe SJ, Wang XQ, Mehaffey JH, Sharma A, Rycus P, **Tonna J**, Yarboro L, Bryner B, Collins M, Teman NR (2024). Veno-Arterial Extracorporeal Life Support Use in Acute

- Pulmonary Embolism Shows Favorable Outcomes.(Epub ahead of print). *Ann Thorac Surg*.
2. Jentzer JC, Drakos SG, Selzman CH, Owyang C, Teran F, **Tonna JE** (2024). Timing of Initiation of Extracorporeal Membrane Oxygenation Support and Outcomes Among Patients With Cardiogenic Shock. *J Am Heart Assoc*, 13(3), e032288.
 3. **Tonna JE**, Boonstra PS, MacLaren G, Paden M, Brodie D, Anders M, Hoskote A, Ramanathan K, Hyslop R, Fanning JJ, Rycus P, Stead C, Barrett NA, Mueller T, Gómez RD, Malhotra Kapoor P, Fraser JF, Bartlett RH, Alexander PMA, Barbaro RP, Extracorporeal Life Support Organization (ELSO) Member Centers Group (2024). Extracorporeal Life Support Organization Registry International Report 2022: 100,000 Survivors. *ASAIO J*, 70(2), 131-143.
 4. **Tonna JE**, Cho SM (2024). Extracorporeal Cardiopulmonary Resuscitation.(Epub ahead of print). *Crit Care Med*.
 5. O'Neil ER, Guner Y, Anders MM, Priest J, Friedman ML, Raman L, Di Nardo M, Alexander P, **Tonna JE**, Rycus P, Thiagarajan RR, Barbaro R, Sandhu HS (2024). Pediatric Highlights From the Extracorporeal Life Support Organization Registry: 2017-2022. *ASAIO J*, 70(1), 8-13.
 6. **Tonna JE**, Pierce J, Brintz BJ, Bardsley T, Hatton N, Lewis G, Phillips JD, Skidmore CR, Selzman CH (2023). A randomized, double-blinded, placebo-controlled clinical trial of sterile filtered human amniotic fluid for treatment of COVID-19. *BMC Infect Dis*, 23(1), 864.
 7. Brandorff M, Owyang CG, **Tonna JE** (2023). Extracorporeal membrane oxygenation for cardiac arrest: what, when, why, and how.(Epub ahead of print) *Expert Rev Respir Med*, 1-15.
 8. Joye R, Cousin VL, Wacker J, Hoskote A, Gebistorf F, **Tonna JE**, Rycus PT, Thiagarajan RR, Polito A (2023). Death by Neurologic Criteria in Children Undergoing Extracorporeal Cardiopulmonary Resuscitation: Retrospective Extracorporeal Life Support Organization Registry Study, 2017-2021.(Epub ahead of print). *Pediatr Crit Care Med*.
 9. Rali AS, Abbasi A, Alexander PMA, Anders MM, Arachchillage DJ, Barbaro RP, Fox AD, Friedman ML, Malfertheiner MV, Ramanathan K, Riera J, Rycus P, Schellongowski P, Shekar K, **Tonna JE**, Zaaqoq AM, ELSO Scientific Oversight Committee (2023). Adult Highlights From the Extracorporeal Life Support Organization Registry: 2017-2022.(Epub ahead of print). *ASAIO J*.
 10. Simons J, Di Mauro M, Mariani S, Ravoux J, van der Horst ICC, Driessen RGH, Sels JW, Delnoij T, Brodie D, Abrams D, Mueller T, Taccone FS, Belliato M, Broman ML, Malfertheiner MV, Boeken U, Fraser J, Wiedemann D, Belohlavek J, Barrett NA, **Tonna JE**, Pappalardo F, Barbaro RP, Ramanathan K, MacLaren G, van Mook WNKA, Mees B, Lorusso R (2023). Bilateral Femoral Cannulation Is Associated With Reduced Severe Limb Ischemia-Related Complications Compared With Unilateral Femoral Cannulation in Adult Peripheral Venoarterial Extracorporeal Membrane Oxygenation: Results From the Extracorporeal Life Support Registry.(Epub ahead of print). *Crit Care Med*.
 11. Wang L, Li C, Hao X, Rycus P, **Tonna JE**, Alexander P, Fan E, Wang H, Yang F, Hou X (2023). Percutaneous cannulation is associated with lower rate of severe neurological complication in femoro-femoral ECPR: results from the Extracorporeal Life Support Organization Registry. *Ann Intensive Care*, 13(1), 77.
 12. Glotzbach JP, Hanson HA, **Tonna JE**, Horns JJ, Allen CM, Presson AP, Griffin CL, Zak M, Sharma V, Tristani-Firouzi M, Selzman CH (2023). Familial Associations of Prevalence and Cause-Specific Mortality for Thoracic Aortic Disease and Bicuspid Aortic Valve in a Large-Population Database. *Circulation*, 148(8).
 13. Rali AS, Garry JD, Dieter RA, Schlendorf KH, Bacchetta MD, Zalawadiya SK, Mishra K, Trahanas J, Frischhertz BP, Lindenfeld J, Olson TL, Cedars AM, Anders MM, **Tonna JE**, Dolgner SJ, Alvis BD, Menachem JN (2023). Extracorporeal Life Support for Cardiogenic Shock in Adult Congenital Heart Disease-An ELSO Registry Analysis.(Epub ahead of print). *ASAIO J*.

14. Nunez JI, Grandin EW, Reyes-Castro T, Sabe M, Quintero P, Motiwala S, Fleming LM, Sriwattanakomen R, Ho JE, Kennedy K, **Tonna JE**, Garan AR (2023). Outcomes With Peripheral Venous Arterial Extracorporeal Membrane Oxygenation for Suspected Acute Myocarditis: 10-Year Experience From the Extracorporeal Life Support Organization Registry. *Circ Heart Fail*, 16(7), e010152.
15. Glotzbach JP, Hanson HA, **Tonna JE**, Horns JJ, McCarty Allen C, Presson AP, Griffin CL, Zak M, Sharma V, Tristani-Firouzi M, Selzman CH (2023). Familial Associations of Prevalence and Cause-Specific Mortality for Thoracic Aortic Disease and Bicuspid Aortic Valve in a Large-Population Database. *Circulation*, 148(8), 637-647.
16. **Tonna JE**, Bailey M, Abrams D, Brodie D, Hodgson CL (2023). Predictors of early mobilization in patients requiring VV ECMO for greater than 7 days: An international cohort study.(Epub ahead of print) *Heart Lung*, 62, 57-63.
17. Grunau B, Singh G, Bělohávek J, Yannopoulos D, **Tonna JE**, Hutin A, Nagpal D, Cournoyer A, van Diepen S (2023). A Second Chance for Survival: Clinical Trial Evidence, Eligibility, and Barriers to Implementation of ECPR for Out-of-Hospital Cardiac Arrest. *Can J Cardiol*, 39(4), 381-384.
18. Joram N, Rozé JC, **Tonna JE**, Rycus P, Beqiri E, Pezzato S, Moscatelli A, Robba C, Liet JM, Bourgoin P, Czosnyka M, Léger PL, Rambaud J, Smielewski P, Chenouard A (2023). Association Between Early Change in Arterial Carbon Dioxide Tension and Outcomes in Neonates Treated by Extracorporeal Membrane Oxygenation. *ASAIO J*, 69(4), 411-416.
19. Jentzer JC, Miller PE, Alviar C, Yalamuri S, Bohman JK, **Tonna JE** (2023). Exposure to Arterial Hyperoxia During Extracorporeal Membrane Oxygenator Support and Mortality in Patients With Cardiogenic Shock. *Circ Heart Fail*, 16(4), e010328.
20. Acharya D, Manandhar-Shrestha N, Leacche M, Rajapreyar I, William P, Kazui T, Hooker R, **Tonna J**, Jovinge S, Loyaga-Rendon R (2023). Extracorporeal membrane oxygenation as a bridge to advanced heart failure therapies.(Epub ahead of print). *J Heart Lung Transplant*.
21. Ciullo AL, Knecht R, Levin NM, Mitchell N, **Tonna JE** (2023). Direct Connection to the ECMO Circuit versus a Hemodialysis Catheter Is Associated with Improved Urea Nitrogen Ultrafiltration during Continuous Renal Replacement Therapy for Patients on Extracorporeal Membrane Oxygenation. *J Clin Med*, 12(4).
22. Ciullo AL, Wall N, Taleb I, Koliopoulou A, Stoddard K, Drakos SG, Welt FG, Goodwin M, Van Dyk N, Kagawa H, McKellar SH, Selzman CH, **Tonna JE** (2022). Effect of Portable, In-Hospital Extracorporeal Membrane Oxygenation on Clinical Outcomes. *J Clin Med*, 11(22).
23. Shou BL, Ong CS, Premraj L, Brown P, **Tonna JE**, Dalton HJ, Kim BS, Keller SP, Whitman GJR, Cho SM (2022). Arterial oxygen and carbon dioxide tension and acute brain injury in extracorporeal cardiopulmonary resuscitation patients: Analysis of the extracorporeal life support organization registry.(Epub ahead of print). *J Heart Lung Transplant*.
24. Thiesset HF, Newman M, **Tonna JE**, Merrill RM (2022). Outcomes of patients with COVID-19 in the setting of chronic opioid use disorder. *J Opioid Manag*, 18(6), 523-528.
25. **Tonna JE** (2022). Patients receiving ECMO are special, but still only need a haemoglobin concentration of 7g/dL.(Epub ahead of print). *Lancet Respir Med*.
26. Perez NP, Witt EE, Masiakos PT, Layman I, **Tonna JE**, Ortega G, Qureshi FG (2022). Associations of cephalad drainage in neonatal veno-venous ECMO - A mixed-effects, propensity score adjusted retrospective analysis of 20 years of ELSO data.(Epub ahead of print). *J Pediatr Surg*.
27. Jentzer JC, Baran DA, Bohman JK, van Diepen S, Radosevich M, Yalamuri S, Rycus P, Drakos SG, **Tonna JE** (2022). Cardiogenic shock severity and mortality in patients receiving venous arterial

- extracorporeal membrane oxygenator support. *Eur Heart J Acute Cardiovasc Care*, 11(12), 891-903.
28. Greenwood JC, Talebi FM, Jang DH, Spelde AE, **Tonna JE**, Gutsche JT, Horak J, Acker MA, Kilbaugh TJ, Shofer FS, Augoustides JGT, Bakker J, Brenner JS, Muzykantov VR, Abella BS (2022). Topical nitroglycerin to detect reversible microcirculatory dysfunction in patients with circulatory shock after cardiovascular surgery: an observational study. *Sci Rep*, 12(1), 15257.
 29. Carlson JM, Etchill E, Whitman G, Kim BS, Choi CW, **Tonna JE**, Geocadin R, Cho SM (2022). Early withdrawal of life sustaining therapy in extracorporeal cardiopulmonary resuscitation (ECPR): Results from the Extracorporeal Life Support Organization registry. *Resuscitation*, 179, 71-77.
 30. Nakashima T, Ogata S, Noguchi T, Nishimura K, Hsu CH, Sefa N, Haas NL, Bělohávek J, Pellegrino V, **Tonna JE**, Haft J, Neumar RW (2022). Association of intentional cooling, achieved temperature and hypothermia duration with in-hospital mortality in patients treated with extracorporeal cardiopulmonary resuscitation: An analysis of the ELSO registry. *Resuscitation*, 177, 43-51.
 31. **Tonna JE**, Selzman CH, Bartos JA, Presson AP, Ou Z, Jo Y, Becker L, Youngquist ST, Thiagarajan RR, Johnson MA, Rycus P, Keenan HT (2022). The Association of Modifiable Postresuscitation Management and Annual Case Volume With Survival After Extracorporeal Cardiopulmonary Resuscitation. *Crit Care Explor*, 4(7), e0733.
 32. **Tonna JE**, Keenan HT, Weir C (2022). A qualitative analysis of physician decision making in the use of extracorporeal cardiopulmonary resuscitation for refractory cardiac arrest. *Resusc Plus*, 11, 100278.
 33. Swol J, **Tonna JE**, Lorusso R (2022). A new stick in the bunch of reporting guidelines. *Artif Organs*, 46, 1725-1726.
 34. Willers A, Swol J, van Kuijk SMJ, Buscher H, McQuilten Z, Ten Cate H, Rycus PT, McKellar S, Lorusso R, **Tonna JE** (2022). HEROES V-A-HEMORrhagic cOmplications in veno-arterial Extracorporeal life Support-Development and internal validation of a multivariable prediction model in adult patients. *Artif Organs*, 46, 2266-2283.
 35. Rali AS, Ranka S, Butcher A, Shah Z, **Tonna JE**, Anders MM, Brinkley MD, Siddiqi H, Punnoose L, Wigger M, Sacks SB, Pedrotty D, Ooi H, Bacchetta MD, Hoffman J, McMaster W, Balsara K, Shah AS, Menachem JN, Schlendorf KH, Lindenfeld J, Zalawadiya SK (2022). Early Blood Pressure Variables Associated With Improved Outcomes in VA-ECLS: The ELSO Registry Analysis. *JACC Heart Fail*, 10(6), 397-403.
 36. Steurer MA, **Tonna JE**, Coyan GN, Burki S, Sciortino CM, Oishi PE (2022). On-Hours Compared to Off-Hours Pediatric Extracorporeal Life Support Initiation in the United States Between 2009 and 2018-An Analysis of the Extracorporeal Life Support Organization Registry. *Crit Care Explor*, 4(5), e0698.
 37. Gannon WD, Stokes JW, Gong W, Lindsell CJ, **Tonna JE**, Bacchetta M, Rice TW, Semler MW, Casey JD (2022). Predicting Mortality for Patients Eligible for Extracorporeal Membrane Oxygenation for COVID-19. *Am J Respir Crit Care Med*, 206, 628-632.
 38. Grandin EW, Nunez JI, Willar B, Kennedy K, Rycus P, **Tonna JE**, Kapur NK, Shaefi S, Garan AR (2022). Mechanical Left Ventricular Unloading in Patients Undergoing Venoarterial Extracorporeal Membrane Oxygenation. *J Am Coll Cardiol*, 79(13), 1239-1250.
 39. **Tonna JE**, Selzman CH, Bartos JA, Presson AP, Ou Z, Jo Y, Becker LB, Youngquist ST, Thiagarajan RR, Austin Johnson M, Cho SM, Rycus P, Keenan HT (2022). The association of modifiable mechanical ventilation settings, blood gas changes and survival on extracorporeal membrane oxygenation for cardiac arrest. *Resuscitation*, 174, 53-61.

40. **Tonna JE**, Selzman CH, Girotra S, Presson AP, Thiagarajan RR, Becker LB, Zhang C, Rycus P, Keenan HT, American Heart Association Get With the Guidelines–Resuscitation Investigators. (2022). Resuscitation Using ECPR During In-Hospital Cardiac Arrest (RESCUE-IHCA) Mortality Prediction Score and External Validation. *JACC Cardiovasc Interv*, 15(3), 237-247.
41. Bjornstad EC, Cutter G, Guru P, Menon S, Aldana I, House S, M Tofil N, St Hill CA, Tarabichi Y, Banner-Goodspeed VM, Christie AB, Mohan SK, Sanghavi D, Mosier JM, Vadgaonkar G, Walkey AJ, Kashyap R, Kumar VK, Bansal V, Boman K, Sharma M, Bogojevic M, Deo N, Retford L, Gajic O, Gist KM; SCCM Discovery VIRUS Investigators Group [including **Tonna JE**]. (2022). SARS-CoV-2 infection increases risk of acute kidney injury in a bimodal age distribution. *BMC Nephrol*, 23(1), 63.
42. Owyang CG, Donnat C, Brodie D, Gershengorn HB, Hua M, Qadir N, **Tonna JE** (2022). Similarities in extracorporeal membrane oxygenation management across intensive care unit types in the United States: An analysis of the Extracorporeal Life Support Organization Registry. *Artif Organs*, 46, 1369-1381.
43. Willers A, Swol J, Buscher H, McQuilten Z, van Kuijk SMJ, Ten Cate H, Rycus PT, McKellar S, Lorusso R, **Tonna JE** (2022). Longitudinal Trends in Bleeding Complications on Extracorporeal Life Support Over the Past Two Decades-Extracorporeal Life Support Organization Registry Analysis. *Crit Care Med*, 50, e569-e580.
44. Wang L, Yang F, Zhang S, Li C, Du Z, Rycus P, **Tonna JE**, Alexander P, Lorusso R, Fan E, Ogino M, Brodie D, Combes A, Chen YS, Qiu H, Peng Z, Fraser JF, Shao J, Jia M, Wang H, Hou X (2022). Percutaneous versus surgical cannulation for femoro-femoral VA-ECMO in patients with cardiogenic shock: Results from the Extracorporeal Life Support Organization Registry. *J Heart Lung Transplant*, 41, 470-481.
45. Hill Stoecklein H, Pugh A, Austin Johnson M, **Tonna JE**, Stroud M, Drakos S, Youngquist ST (2021). Paramedic Rhythm Interpretation Misclassification is Associated with Poor Survival from Out-of-Hospital Cardiac Arrest. *Resuscitation*, 171, 33-40.
46. Willers A, Swol J, van Kuijk SMJ, Buscher H, McQuilten Z, Ten Cate H, Rycus PT, McKellar S, Lorusso R, **Tonna JE** (2021). HEROES V-V-HEmorRhagic cOmplications in Venovenous Extracorporeal life Support-Development and internal validation of multivariable prediction model in adult patients. *Artif Organs*, 46, 932-952.
47. O'Neil ER, Lin H, Li M, Shekerdemian L, **Tonna JE**, Barbaro RP, Abella JR, Rycus P, MacLaren G, Anders MM, Alexander PMA (2021). Extracorporeal Membrane Oxygenation Support for Influenza A: Retrospective Review of the Extracorporeal Life Support Organization Registry Comparing H1N1 With Other Subtypes. *Crit Care Explor*, 3(12), e0598.
48. Mastoris I, **Tonna JE**, Hu J, Sauer AJ, Haglund NA, Rycus P, Wang Y, Wallisch WJ, Abicht TO, Danter MR, Tedford RJ, Fang JC, Shah Z (2021). Use of Extracorporeal Membrane Oxygenation as Bridge to Replacement Therapies in Cardiogenic Shock: Insights From the Extracorporeal Life Support Organization. *Circ Heart Fail*, 15, CIRCHEARTFAILURE121008777.
49. **Tonna JE**, Peltan ID, Brown SM, Grissom CK, Presson AP, Herrick JS, Vasques F, Keenan HT (2021). Positive End-Expiratory Pressure and Respiratory Rate Modify the Association of Mechanical Power and Driving Pressure With Mortality Among Patients With Acute Respiratory Distress Syndrome. *Crit Care Explor*, 3(12), e0583.
50. Denson JL, Gillet AS, Zu Y, Brown M, Pham T, Yoshida Y, Mauvais-Jarvis F, Douglas IS, Moore M, Tea K, Wetherbie A, Stevens R, Lefante J, Shaffer JG, Armaignac DL, Belden KA, Kaufman M, Heavner SF, Danesh VC, Cheruku SR, St Hill CA, Boman K, Deo N, Bansal V, Kumar VK, Walkey AJ, Kashyap R; Society of Critical Care Medicine Discovery Viral Infection and Respiratory Illness Universal Study (VIRUS): COVID-19 Registry Investigator Group [including **Tonna JE**]. (2021). Metabolic Syndrome and Acute Respiratory Distress Syndrome in Hospitalized

Patients With COVID-19. *JAMA Netw Open*, 4(12), e2140568.

51. Qadir N, Bartz RR, Cooter ML, Hough CL, Lanspa MJ, Banner-Goodspeed VM, Chen JT, Giovanni S, Gomaa D, Sjoding MW, Hajizadeh N, Komisarow J, Duggal A, Khanna AK, Kashyap R, Khan A, Chang SY, **Tonna JE**, Anderson HL 3rd, Liebler JM, Mosier JM, Morris PE, Genthon A, Louh IK, Tidswell M, Stephens RS, Esper AM, Dries DJ, Martinez A, Schreyer KE, Bender W, Tiwari A, Guru PK, Hanna S, Gong MN, Park PK, Severe ARDS: Generating Evidence (SAGE) Study Investigators., Society of Critical Care Medicine's Discovery Network. (2021). Variation in Early Management Practices in Moderate-to-Severe ARDS in the United States: The Severe ARDS: Generating Evidence Study. *Chest*, 160(4), 1304-1315.
52. Reese TJ, Segall N, Del Fiore G, **Tonna JE**, Kawamoto K, Weir C, Wright MC (2021). Iterative heuristic design of temporal graphic displays with clinical domain experts. *J Clin Monit Comput*, 35(5), 1119-1131.
53. Gupta VS, Hayes D Jr, Hsu SC, **Tonna JE**, Rycus PT, Bridges BC, Diaban F, Bosma KJ, Bhatt JM, Sakla NM, Han JJ, Bermudez CA, Manetta F, Garcia EI, Harting MT (2021). Extracorporeal Life Support for Respiratory Failure in Patients With Electronic Cigarette or Vaping Product Use-Associated Lung Injury. *Crit Care Med*, 50, e173-e182.
54. Abrams D, MacLaren G, Lorusso R, Price S, Yannopoulos D, Vercaemst L, Bělohávek J, Taccone FS, Aissaoui N, Shekar K, Garan AR, Uriel N, **Tonna JE**, Jung JS, Takeda K, Chen YS, Slutsky AS, Combes A, Brodie D (2021). Extracorporeal cardiopulmonary resuscitation in adults: evidence and implications. *Intensive Care Med*, 48, 1-15.
55. **Tonna JE**, Dalton A, Presson AP, Zhang C, Colantuoni E, Lander K, Howard S, Beynon J, Kamdar BB (2021). The Effect of a Quality Improvement Intervention on Sleep and Delirium in Critically Ill Patients in a Surgical ICU. *Chest*, 160(3), 899-908.
56. Chenouard A, Liet JM, Maminirina P, Denis M, **Tonna J**, Rycus P, Joram N, Bourgoin P (2021). Neurological Outcome According to the Site of Cannulation in Septic Children Supported by Venoarterial Extracorporeal Membrane Oxygenation. *ASAIO J*, 67, 1349-1355.
57. **Tonna JE**, Abrams D, Brodie D, Greenwood JC, Rubio Mateo-Sidron JA, Usman A, Fan E (2021). Management of Adult Patients Supported with Venovenous Extracorporeal Membrane Oxygenation (VV ECMO): Guideline from the Extracorporeal Life Support Organization (ELSO). *ASAIO J*, 67(6), 601-610.
58. Pugh AE, Stoecklein HH, **Tonna JE**, Hoareau GL, Johnson MA, Youngquist ST (2021). Intramuscular adrenaline for out-of-hospital cardiac arrest is associated with faster drug delivery: A feasibility study. *Resusc Plus*, 7, 100142.
59. Beesley SJ, Sorensen J, Walkey AJ, **Tonna JE**, Lanspa MJ, Hirshberg E, Grissom CK, Horne BD, Burk R, Abraham TP, Paine R, Brown SM (2021). Long-Term Implications of Abnormal Left Ventricular Strain During Sepsis. *Crit Care Med*, 49(4), e444-e453.
60. Mang S, Kalenka A, Broman LM, Supady A, Swol J, Danziger G, Becker A, Hörsch SI, Mertke T, Kaiser R, Bracht H, Zotzmann V, Seiler F, Bals R, Taccone FS, Moerer O, Lorusso R, Bělohávek J, Muellenbach RM, Lepper PM; COVEC-Study Group. COVEC-Study Group: Nicholas Barrett, Daniel Duerschmied, Eddy Fan, Falk Fichtner, Hendrik Haake, Frank Langer, Haitham Mutlak, Markus Kredel, Thomas Müller, Alessandro Protti, Alexander Raddatz, Tobias Spangenberg, Dawid Staudacher, Holger Wehrfritz, Tobias Wengenmayer, Arne Westheider, Simon Dang Van, Cedric Daubin, Philippe Gaudard, Thomas Godet, Pierre-Grégoire Guinot, Loïc Le Guennec, Bruno Megarbane, Alain Mercat, Romain Sonnevile, Elie Zogheib, Tai Pham, Hadrien Winiszewski, Peter Schellongowski, Thomas Staudinger, Dominik Wiedemann, Corinna Velik-Salchner, Michael Joannidis, Marc Bodenstern, Heinrich Volker Groesdonk, Stefan Guth, Matthias Hecker, Faeg Husain-Syed, Christian Jung, L Christian Napp, Ruslan Natanov, Georg Trummer, Sascha Treskatsch, Henryk Welp, Leonello Avalli, Lorenzo Ball, Mirko Belliato, Manuela Bonizzoli,

- Emma Borrelli, Giacomo Cavallaro, Andrea Franci, Silvia Gramaticopolo, Mauro Panigada, Luigi Tritapepe, Salman Abdulaziz, David Bracco, Yiorgos Alexandros, Ari Joffe, A Dave Nagpal, Ying Sia, Georg Auzinger, Vasileios Zochios, Alejandro Garcia, Katja Gist, Dana Lustbader, Demetris Yannopoulos, R Scott Stephens, **Joseph Tonna**, Linda Paxton, Hitoshi Hirose, Bo Kim, Magnus Dalén, Martin Balik, David Janak, Luis Castillo, Alejandro Bruhn, Jorge Luis Alvarado Socarras, Taeyun Kim, Hyoung Soo Kim, Joung Hun Byun, Guilherme Mainardi, Pedro Mendes, Raphaël Giraud, Philip Fortuna, Tatsuma Fukuda, Jacinta Maas, Dariusz Maciejewski, Deblal Pandit, Yosv Psz, Peter Radsel, Gangfeng Yan (2021). Extracorporeal life support in COVID-19-related acute respiratory distress syndrome: A EuroELSO international survey. *Artif Organs*, 45(5), 495-505.
61. Marashly Q, Taleb I, Kyriakopoulos CP, Dranow E, Jones TL, Tandar A, Overton SD, **Tonna JE**, Stoddard K, Wever-Pinzon O, Kemeyou L, Koliopoulou AG, Shah KS, Nourian K, Richins TJ, Burnham TS, Welt FG, McKellar SH, Nativi-Nicolau J, Drakos SG (2021). Predicting mortality in cardiogenic shock secondary to ACS requiring short-term mechanical circulatory support: The ACS-MCS score. *Catheter Cardiovasc Interv*, 98(7), 1275-1284.
 62. Stephens K, Mitchell N, Overton S, **Tonna JE** (2021). On the Transition from Control Modes to Spontaneous Modes during ECMO. *J Clin Med*, 10(5).
 63. Domecq JP, Lal A, Sheldrick CR, Kumar VK, Boman K, Bolesta S, Bansal V, Harhay MO, Garcia MA, Kaufman M, Danesh V, Cheruku S, Banner-Goodspeed VM, Anderson HL 3rd, Milligan PS, Denson JL, St Hill CA, Dodd KW, Martin GS, Gajic O, Walkey AJ, Kashyap R; Society of Critical Care Medicine Discovery Viral Infection and Respiratory Illness Universal Study (VIRUS): COVID-19 Registry Investigator Group [including **Tonna JE**]. (2021). Outcomes of Patients With Coronavirus Disease 2019 Receiving Organ Support Therapies: The International Viral Infection and Respiratory Illness Universal Study Registry. *Crit Care Med*, 49(3), 437-448.
 64. Richardson ASC, **Tonna JE**, Nanjayya V, Nixon P, Abrams DC, Raman L, Bernard S, Finney SJ, Grunau B, Youngquist ST, McKellar SH, Shinar Z, Bartos JA, Becker LB, Yannopoulos D, B'elohlávek J, Lamhaut L, Pellegrino V (2021). Extracorporeal Cardiopulmonary Resuscitation in Adults. Interim Guideline Consensus Statement From the Extracorporeal Life Support Organization. *ASAIO J*, 67(3), 221-228.
 65. Hummel K, Ou Z, Latchireddi A, Presson AP, **Tonna J** (2021). Analyzing clinical and system drivers of satisfaction in the intensive care unit as a component of high quality care. *Heart Lung*, 50(2), 277-283.
 66. **Tonna JE**, Pierce J, Hatton N, Lewis G, Phillips JD, Messina A, Skidmore CR, Taylor K, Selzman CH (2021). Safety and feasibility of using acellular sterile filtered amniotic fluid as a treatment for patients with COVID-19: protocol for a randomised, double-blinded, placebo-controlled clinical trial. *BMJ Open*, 11(2), e045162.
 67. Almberg AK, Mitchell N, **Tonna JE** (2021). Observations of Acoustic Interruptions Versus Ambient Sound Levels With Perceived Sleep Quality During Critical Illness. *Crit Care Explor*, 3(2), e0342.
 68. Selzman CH, **Tonna JE**, Pierce J, Vargas C, Skidmore C, Lewis G, Hatton ND, Phillips JD (2021). A pilot trial of human amniotic fluid for the treatment of COVID-19. *BMC Res Notes*, 14(1), 32.
 69. Levin NM, Ciullo AL, Overton S, Mitchell N, Skidmore CR, **Tonna JE** (2021). Characteristics of Patients Managed without Positive Pressure Ventilation While on Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome. *J Clin Med*, 10(2).
 70. **Tonna JE**, Hanson HA, Cohan JN, McCrum ML, Horns JJ, Brooke BS, Das R, Kelly BC, Campbell AJ, Hotaling J (2020). Balancing revenue generation with capacity generation: case distribution, financial impact and hospital capacity changes from cancelling or resuming elective surgeries in the US during COVID-19. *BMC Health Serv Res*, 20(1), 1119.
 71. Levin N, Horton D, Sanford M, Horne B, Saseendran M, Graves K, White M, **Tonna JE** (2020).

- Failure of vital sign normalization is more strongly associated than single measures with mortality and outcomes. *Am J Emerg Med*, 38(12), 2516-2523.
72. Nguyen ML, Gause E, Mills B, **Tonna JE**, Alvey H, Saczkowski R, Grunau B, Becker LB, Gaiieski DF, Youngquist S, Gunnerson K, England P, Hamilton J, Badulak J, Mandell SP, Bulger EM, Johnson NJ, Extracorporeal Resuscitation Consortium. (2020). Traumatic and hemorrhagic complications after extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest. *Resuscitation*, 157, 225-229.
 73. Barbaro RP, MacLaren G, Boonstra PS, Iwashyna TJ, Slutsky AS, Fan E, Bartlett RH, **Tonna JE**, Hyslop R, Fanning JJ, Rycus PT, Hyer SJ, Anders MM, Agerstrand CL, Hryniewicz K, Diaz R, Lorusso R, Combes A, Brodie D, Extracorporeal Life Support Organization. (2020). Extracorporeal membrane oxygenation support in COVID-19: an international cohort study of the Extracorporeal Life Support Organization registry. *Lancet*, 396(10257), 1071-1078.
 74. Youngquist ST, **Tonna JE**, Bartos JA, Johnson MA, Hoareau GL, Hutin A, Lamhaut L (2020). Current Work in Extracorporeal Cardiopulmonary Resuscitation. *Crit Care Clin*, 36(4), 723-735.
 75. Cho SM, Canner J, Chiarini G, Calligy K, Caturegli G, Rycus P, Barbaro RP, **Tonna J**, Lorusso R, Kilic A, Choi CW, Ziai W, Geocadin R, Whitman G (2020). Modifiable Risk Factors and Mortality From Ischemic and Hemorrhagic Strokes in Patients Receiving Venoarterial Extracorporeal Membrane Oxygenation: Results From the Extracorporeal Life Support Organization Registry. *Crit Care Med*, 48(10), e897-e905.
 76. Reese TJ, Del Fiol G, **Tonna JE**, Kawamoto K, Segall N, Weir C, Macpherson BC, Kukhareva P, Wright MC (2020). Impact of integrated graphical display on expert and novice diagnostic performance in critical care. *J Am Med Inform Assoc*, 27(8), 1287-1292.
 77. Roberts RJ, Miano TA, Hammond DA, Patel GP, Chen JT, Phillips KM, Lopez N, Kashani K, Qadir N, Cairns CB, Mathews K, Park P, Khan A, Gilmore JF, Brown ART, Tsuei B, Handzel M, Chang AL, Duggal A, Lanspa M, Herbert JT, Martinez A, **Tonna J**, Ammar MA, Nazer LH, Heavner M, Pender E, Chambers L, Kenes MT, Kaufman D, Downey A, Brown B, Chaykosky D, Wolff A, Smith M, Nault K, Gong MN, Sevransky JE, Lat I; Observation of VariatiOn in fLUids adMinistEred in shock-CHARacterizAtion of vaSoprEссор Requirements in Shock (VOLUME-CHASERS) Study Group and SCCM Discovery Network. (2020). Evaluation of Vasopressor Exposure and Mortality in Patients With Septic Shock. (epub ahead of print) . *Crit Care Med*.
 78. **Tonna JE** (2020). Postresuscitation Management and Survival After Cardiac Arrest-The Whole Package. *JAMA Netw Open*, 3(7), e2010921.
 79. Chen JT, Roberts R, Fazzari MJ, Kashani K, Qadir N, Cairns CB, Mathews K, Park P, Khan A, Gilmore JF, Brown ART, Tsuei B, Handzel M, Lee Chang A, Duggal A, Lanspa M, Herbert JT, Martinez A, **Tonna J**, Ammar MA, Hammond D, Nazer LH, Heavner M, Pender E, Chambers L, Kenes MT, Kaufman D, Downey A, Brown B, Chaykosky D, Wolff A, Smith M, Nault K, Sevransky J, Gong MN; VOLUME-CHASERS Study Group and Society for Critical Care Medicine Discovery Network. (2020). Variation in Fluid and Vasopressor Use in Shock With and Without Physiologic Assessment: A Multicenter Observational Study (epub ahead of print). *Crit Care Med*.
 80. Bento HA, Dummer D, Lohse BD, Noren C, **Tonna JE** (2020). Walking While Dialyzing: A Retrospective Observation of Early Mobility and Ambulation for Patients on Continuous Renal Replacement Therapy. *Crit Care Explor*, 2(6), e0131.
 81. **Tonna JE**, Selzman CH, Girotra S, Presson AP, Thiagarajan RR, Becker LB, Zhang C, Keenan HT, American Heart Association's Get With the Guidelines—Resuscitation Investigators. (2020). Patient and Institutional Characteristics Influence the Decision to Use Extracorporeal Cardiopulmonary Resuscitation for In-Hospital Cardiac Arrest. *J Am Heart Assoc*, 9(9), e015522.
 82. Pugh A, **Tonna J**, Youngquist S, Ryan JJ, Brant-Zawadzki G (2020). Emergency Department

Extracorporeal Membrane Oxygenation as a Rescue Therapy for Ventricular Tachycardia Electrical Storm: A Case Report. 1-4.

83. **Tonna JE**, McKellar SH, Selzman CH, Drakos S, Koliopoulou AG, Taleb I, Stoddard GJ, Stehlik J, Welt FGP, Fair JF 3rd, Stoddard K, Youngquist ST (2020). Exploratory analysis of myocardial function after extracorporeal cardiopulmonary resuscitation vs conventional cardiopulmonary resuscitation. *BMC Res Notes*, 13(1), 137.
84. Griffée MJ, Zimmerman JM, McKellar SH, **Tonna JE** (2020). Echocardiography-Guided Dual-Lumen Venovenous Extracorporeal Membrane Oxygenation Cannula Placement in the ICU-A Retrospective Review. *J Cardiothorac Vasc Anesth*, 34(3), 698-705.
85. Nichol G, Bartos J, **Tonna JE**, Ferrari M (2020). Intraoperative Temperature Management. *Ther Hypothermia Temp Manag*, 10(1), 6-10.
86. Fuller BM, Roberts BW, Mohr NM, Knight WA 4th, Adeoye O, Pappal RD, Marshall S, Alunday R, Dettmer M, Goyal M, Gibson C, Levine BJ, Gardner-Gray JM, Mosier J, Dargin J, Mackay F, Johnson NJ, Lokhandwala S, Hough CL, **Tonna JE**, Tsolinas R, Lin F, Qasim ZA, Harvey CE, Bassin B, Stephens RJ, Yan Y, Carpenter CR, Kollef MH, Avidan MS (2019). The ED-SED Study: A Multicenter, Prospective Cohort Study of Practice Patterns and Clinical Outcomes Associated With Emergency Department SEDation for Mechanically Ventilated Patients. *Crit Care Med*, 47(11), 1539-1548.
87. **Tonna JE**, Johnson J, Presson A, Zhang C, Noren C, Lohse B, Bento H, Barton RG, Nirula R, Mone M, Marcus R (2019). Short-Term Clinical and Quality Outcomes Have Inconsistent Changes From a Quality Improvement Initiative to Increase Access to Physical Therapy in the Cardiovascular and Surgical ICU. *Crit Care Explor*, 1(10), e0055.
88. Nasr VG, Raman L, Barbaro RP, Guner Y, **Tonna J**, Ramanathan K, Pappalardo F, Thiagarajan RR, Alexander PMA, ELSO Registry Scientific Oversight Committee. (2018). Highlights from the Extracorporeal Life Support Organization Registry: 2006-2017. *ASAIO J*, 65(6), 537-544.
89. Fair J 3rd, Mallin MP, Adler A, Ockerse P, Steenblik J, **Tonna J**, Youngquist ST (2019). Transesophageal Echocardiography During Cardiopulmonary Resuscitation Is Associated With Shorter Compression Pauses Compared With Transthoracic Echocardiography. *Ann Emerg Med*, 73(6), 610-616.
90. Metcalf RA, Calvaresi E, **Tonna JE**, Blaylock R, Pearson L (2019). Severe intravascular hemolysis following extracorporeal right ventricular assist device placement. *Transfusion*, 59(4), 1178-1179.
91. Johnson JK, Lohse B, Bento HA, Noren CS, Marcus RL, **Tonna JE** (2018). Improving Outcomes for Critically Ill Cardiovascular Patients Through Increased Physical Therapy Staffing. *Arch Phys Med Rehabil*, 100(2), 270-277.e1.
92. Martin LA, Kilpatrick JA, Al-Dulaimi R, Mone MC, **Tonna JE**, Barton RG, Brooke BS (2018). Predicting ICU readmission among surgical ICU patients: Development and validation of a clinical nomogram. *Surgery*, 165(2), 373-380.
93. Terry K, Lonardo N, **Tonna JE** (2019). Anticoagulation Levels and Bleeding After Emergency Department Extracorporeal Cardiopulmonary Resuscitation (DOI: 10.1007/s40138-019-00176-3). *Curr Emerg Hosp Med Rep*, (7), 1-5.
94. Bacon B, Silvertown N, Katz M, Heath E, Bull DA, Harig J, **Tonna JE** (2018). Local Anesthetic Systemic Toxicity Induced Cardiac Arrest After Topicalization for Transesophageal Echocardiography and Subsequent Treatment With Extracorporeal Cardiopulmonary Resuscitation. *J Cardiothorac Vasc Anesth*, 33(1), 162-165.
95. Glotzbach JP, Sharma V, **Tonna JE**, Pettit JC, McKellar SH, Eckhauser AW, Varghese TK Jr, Selzman CH (2018). Value-driven cardiac surgery: Achieving "perfect care" after coronary artery bypass grafting. *J Thorac Cardiovasc Surg*, 156(4), 1436-1448.e2.

96. Wall V, Fleming KI, **Tonna JE**, Nunez J, Lonardo N, Shipley RW, Nirula R, Pannucci CJ (2018). Anti-Factor Xa measurements in acute care surgery patients to examine enoxaparin dose. *Am J Surg*, 216(2), 222-229.
97. Reese T, Segall N, Nesbitt P, Del Fiol G, Waller R, Macpherson BC, **Tonna JE**, Wright MC (2018). Patient information organization in the intensive care setting: expert knowledge elicitation with card sorting methods. *J Am Med Inform Assoc*, 25(8), 1026-1035.
98. **Tonna JE**, Kawamoto K, Presson AP, Zhang C, Mone MC, Glasgow RE, Barton RG, Hoidal JR, Anzai Y (2018). Single intervention for a reduction in portable chest radiography (pCXR) in cardiovascular and surgical/trauma ICUs and associated outcomes. *J Crit Care*, 44, 18-23.
99. Kang TS, Ko BS, Drakos SG, Stehlik J, Bott SI, Koliopoulou A, **Tonna JE**, Bowen ME, Stoddard K, Selzman CH, McKellar SH (2018). Safety of long-distance transfers of patients on acute mechanical circulatory support. *J Surg Res*, 224, 18-22.
100. Griffee MJ, **Tonna JE**, McKellar SH, Zimmerman JM (2018). Echocardiographic Guidance and Troubleshooting for Venovenous Extracorporeal Membrane Oxygenation Using the Dual-Lumen Bicaval Cannula. *J Cardiothorac Vasc Anesth*, 32(1), 370-378.
101. Slack S, Stocklein H, **Tonna JE**, Younquist ST (12/2/2017). ECMO & ECPR: The new load & go destination for cardiac arrest? *JEMS*.
102. **Tonna JE**, Selzman CH, Mallin MP, Smith BR, Youngquist ST, Koliopoulou A, Welt F, Stoddard KD, Nirula R, Barton R, Fair JF 3rd, Fang JC, McKellar S (2017). Development and Implementation of a Comprehensive, Multidisciplinary Emergency Department Extracorporeal Membrane Oxygenation Program. *Ann Emerg Med*, 70(1), 32-40.
103. Reese TJ, Kawamoto K, Del Fiol G, Weir C, **Tonna J**, Segall N, Nesbitt P, Waller R, Borbolla D, Moretti E and Wright MC (06/21/17). Approaching the Design of an Information Display to Support Critical Care.
104. **Tonna JE**, DeBlieux PM (2017). Awake Laryngoscopy in the Emergency Department. *J Emerg Med*, 52(3), 324-331.
105. **Tonna JE**, Johnson NJ, Greenwood J, Gaieski DF, Shinar Z, Bellezo JM, Becker L, Shah AP, Youngquist ST, Mallin MP, Fair JF 3rd, Gunnerson KJ, Weng C, McKellar S, Extracorporeal Resuscitation Consortium (ERECT) Research Group. (2016). Practice characteristics of Emergency Department extracorporeal cardiopulmonary resuscitation (eCPR) programs in the United States: The current state of the art of Emergency Department extracorporeal membrane oxygenation (ED ECMO). *Resuscitation*, 107, 38-46.
106. Fair J, **Tonna J**, Ockerse P, Galovic B, Youngquist S, McKellar SH, Mallin M (2016). Emergency physician-performed transesophageal echocardiography for extracorporeal life support vascular cannula placement. *Am J Emerg Med*, 34(8), 1637-9.
107. **Tonna JE**, Lewin MR, Mensh B (2010). A case and review of noma. *PLoS Negl Trop Dis*, 4(12), e869.
108. **Tonna JE**, Balanoff AM, Lewin MR, Saandari N, Wintermark M (2010). Potentially low cost solution to extend use of early generation computed tomography. *West J Emerg Med*, 11(5), 463-9.
109. **Tonna J**, Palefsky JM, Rabban J, Campos GM, Theodore P, Ladabaum U (2010). Esophageal verrucous carcinoma arising from hyperkeratotic plaques associated with human papilloma virus type 51. *Dis Esophagus*, 23(5), E17-20.
110. **Tonna JE**, Lewin MR, Hahn IH, Platts-Mills TF, Norell MA (2009). A prospective, multi-year analysis of illness and injury during summer travel to arid environments. *Wilderness Environ Med*, 20(2), 107-12.

REVIEW ARTICLES

1. Ciullo AL, **Tonna JE** (2024). The state of emergency department extracorporeal cardiopulmonary resuscitation: Where are we now, and where are we going? [Review]. *J Am Coll Emerg Physicians Open*, 5, (1), e13101.
2. Tran A, Rochweg B, Fan E, Belohlavek J, Suverein MM, Poll MCGV, Lorusso R, Price S, Yannopoulos D, MacLaren G, Ramanathan K, Ling RR, Thiara S, **Tonna JE**, Shekar K, Hodgson CL, Scales DC, Sandroni C, Nolan JP, Slutsky AS, Combes A, Brodie D, Fernando SM (2023). Prognostic factors associated with favourable functional outcome among adult patients requiring extracorporeal cardiopulmonary resuscitation for out-of-hospital cardiac arrest: A systematic review and meta-analysis. [Review]. *Resuscitation*, 193, 110004.
3. Tehrani BN, Drakos S, Billia F, Batchelor WB, Luk A, Stelling K, **Tonna J**, Rosner C, Hanff T, Rao V, Brozzi NA, Baran DA (2022). The Multicenter Collaborative to Enhance Biologic Understanding, Quality and Outcomes in Cardiogenic Shock (VANQUISH Shock): Rationale and Design. [Review]. *Can J Cardiol*, 38, (8), 1286-1295.

BOOK CHAPTERS

1. Ryan Barbaro, Peta Alexander. Ravi Thiagarajan, Matthew Paden, **Joseph Tonna**, Matteo Di Nardo, Peter Rycus (2022). "The Registry of the Extracorporeal Life Support Organization." In Graeme MacLaren (Ed.), *Extracorporeal Life Support: The ELSO RedBook* (6th).
2. Silvia Mariani, Joseph E. Tonna, Hergen Buscher, Justin A. Fried, Kasia Hryniewicz, Roberto Lorusso (2022). "Initiating ECLS for Adult Cardiac Failure." In Graeme MacLaren (Ed.), *Extracorporeal Life Support: The ELSO Red Book* (6th).
3. **Tonna JE**, Lewin MR (2013). Wilderness Preparation, Equipment, and Medical Supplies. In Auerbach PA (Ed.), *Wilderness Medicine* (6th Ed., pp. 1820-44). Philadelphia, PA: Mosby/Elsevier.
4. **Tonna JE** (2013). TTP, HUS and DIC. In Shah K, Lee J, Medlej K and Weingart SD (Eds.), *Practical Emergency Resuscitation and Critical Care*. Cambridge University Press.
5. **Tonna JE**, Bohn HH, Lewin MR (2012). Methylene Blue Joint Injection. In Reichman EF (Ed.), *Emergency Medicine Procedures* (2nd Ed., pp. 517-22). New York, NY.

ADDITIONAL PUBLICATIONS

Commentary

1. Joseph E. Tonna, MD (12/17/2018). Confounding by Indication. [Commentary on: Nicolas Meneveau, et al; Outcomes after extracorporeal membrane oxygenation for the treatment of high-risk pulmonary embolism: a multicentre series of 52 cases, *European Heart Journal*, Volume 39, Issue 47, 14 December 2018, Pages 4196–4204, <https://doi.org/10.1093/eurheartj/ehy464>]. *Eur Heart J*.

Case Reports

1. Pugh A, **Tonna JE**, Youngquist S, Ryan JJ, Brant-Zawadzki G (2020). Emergency department extracorporeal membrane oxygenation as a rescue therapy for ventricular tachycardia electrical storm: a case report. *J Am Coll Emerg Physicians Open*, 1(4), 371-374.

Editorials

1. Haas NL, **Tonna JE** (2023). Age ain't nothing but a number. *Resuscitation*, 193, 110047.
2. **Tonna JE** (2023). How confidently can we prognosticate survival when starting ECPR? *Resuscitation*, 192, 109972.
3. Ciullo AL, **Tonna JE** (2022). ECPR may be the most effective intervention for refractory cardiac arrest-ever. *Resuscitation*, 179, 18-20.

4. **Tonna JE** (2022). Is Active Mobility the Most Underdelivered Care Component for Patients on Extracorporeal Membrane Oxygenation? *Ann Am Thorac Soc*, 19(1), 9-11.
5. **Tonna JE**, Barbaro RP, Rycus PT, Wall N, Raman L, Nasr VG, Paden ML, Thiagarajan RR, Dalton H, Conrad SA, Bartlett RH, Toomasian JM, Alexander PMA (2021). On the Academic Value of 30 Years of the Extracorporeal Life Support Organization Registry. *ASAIO J*, 67(1), 1-3.
6. **Tonna JE** (2020). Negative Studies Should Inform Our Research and Care: Engaging Family Members in the Care of the Critically Ill. *Crit Care Med*, 48(7), 1077-1079.
7. **Tonna JE**, Gattinoni L, Keenan HT (2019). Beyond Tidal Volume in Acute Respiratory Distress Syndrome: Semiautomated Screening and Novel Ventilator Concepts. *Ann Am Thorac Soc*, 16(10), 1238-1240.
8. Joseph E. Tonna (09/1202917). Critical Care in the Emergency Department: An Interview with Dr. Rade Vukmir. *ACEPNow*,

Letters

1. **Tonna JE**, Urner M, Keenan HT, Brodie D, Fan E (2023). The impact of dynamic driving pressure on mortality during veno-venous extracorporeal membrane oxygenation. [Letter to the editor]. *Intensive Care Med*.
2. Jentzer JC, Miller PE, **Tonna JE** (2023). Response by Jentzer et al to Letters Regarding Article, "Exposure to Arterial Hyperoxia During Extracorporeal Membrane Oxygenator Support and Mortality in Patients With Cardiogenic Shock". [Letter to the editor]. *Circ Heart Fail*, 16(7), e010732.
3. Mauri T, Spinelli E, Ibrahim Q, Rochweg B, Lorusso R, **Tonna JE**, Price S, MacLaren G, Pesenti A, Slutsky AS, Brodie D (2023). Impact of Drainage Cannula Size and Blood Flow Rate on the Outcome of Patients Receiving Venovenous Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome: An ELSO Registry Analysis. [Letter to the editor]. *Am J Respir Crit Care Med*, 208(1), 105-107.
4. Grandin EW, Nunez JI, Kapur NK, **Tonna J**, Garan AR (2022). Reply: Left Ventricular Mechanical Unloading During VA-ECMO: Not If, But Who and When? [Letter to the editor]. *J Am Coll Cardiol*, 80(18), e157-e159.
5. **Tonna JE**, Tan CS, Hryniewicz K, Barbaro RP, Brodie D, MacLaren G (2022). Outcomes after extracorporeal life support for COVID-19 myocarditis: an analysis of the Extracorporeal Life Support Organization Registry. [Letter to the editor]. *Crit Care*, 26(1), 235.
6. **Tonna JE**, Peltan I, Brown SM, Herrick JS, Keenan HT, University of Utah Mechanical Power Study Group. (2020). Mechanical power and driving pressure as predictors of mortality among patients with ARDS. [Letter to the editor]. *Intensive Care Med*, 46(10), 1941-1943.
7. Acharya D, Torabi M, Borgstrom M, Rajapreyar I, Lee K, Kern K, Rycus P, **Tonna JE**, Alexander P, Lotun K (2020). Extracorporeal Membrane Oxygenation in Myocardial Infarction Complicated by Cardiogenic Shock: Analysis of the ELSO Registry. [Letter to the editor]. *J Am Coll Cardiol*, 76(8), 1001-1002.
8. Taleb I, Koliopoulou AG, Tandar A, McKellar SH, **Tonna JE**, Nativi-Nicolau J, Alvarez Villela M, Welt F, Stehlik J, Gilbert EM, Wever-Pinzon O, Morshedzadeh JH, Dranow E, Selzman CH, Fang JC, Drakos SG (2019). Shock Team Approach in Refractory Cardiogenic Shock Requiring Short-Term Mechanical Circulatory Support: A Proof of Concept. [Letter to the editor]. *Circulation*, 140(1), 98-100.

Others

1. **Tonna JE**, Urner M, Keenan HT, Brodie D, Fan E, University of Utah Study Design and Biostatistics Center (SDBC) (2023). Publisher Correction: The impact of dynamic driving pressure on mortality during veno-venous extracorporeal membrane oxygenation. *Intensive Care Med* (49(10), p. 1278). United States.
2. Wang Z, Zhe S, Zimmerman J, Morrisey C, **Tonna JE**, Sharma V, Metcalf RA (2022). Development and validation of a machine learning method to predict intraoperative red blood cell transfusions in cardiothoracic surgery. *Sci Rep* (12(1), p. 1355). England.
3. Teran F, Perman SM, Mitchell OJL, Sawyer KN, Blewer AL, Rittenberger JC, Del Rios Rivera M, Horowitz JM, **Tonna JE**, Hsu CH, Kotini-Shah P, McGovern SK, Abella BS (2020). Highlights From the American Heart Association's 2019 Resuscitation Science Symposium. *J Am Heart Assoc* (9(10), p. e016153). England.
4. **Tonna JE**, Hanson HA, Cohan JN, McCrum ML, Horns JJ, Brooke BS, Das R, Kelly BC, Campbell AJ, Hotaling J (2020). Balancing revenue generation with capacity generation: Case distribution, financial impact and hospital capacity changes from cancelling or resuming elective surgeries in the US during COVID-19. *medRxiv* United States.
5. Penn Medicine TTM Academy Podcast (2019). **Tonna JE**, Teran F. Interview for Penn Medicine's Targeted Temperature Management (TTM) Academy Podcast. "Episode 11 - ECMO Implementation for Refractory Cardiac Arrest in the ED." Sep 20, 2019 (19 min). ..
6. Submitted by the SAEM RAMS Research Committee, Chris Counts, MD, chair (2019). Interview with Nick Levin, MD regarding "Changes in Patients' MEWS Scores While in the Emergency Department Predict Mortality, ICU Admission and Length of Stay". *SAEM Pulse* (34(5), p. 44). SAEM.
7. Reigstad K, Al-Dulaimi R, Mone M, **Tonna JE**, Barton RG, Kraiss LS, Brooke BS (02/07/2016). Predicting ICU Readmission Among Vascular Surgery Patient: Development of A Predictive Nomogram. (2016) Park City: Vascular Endovascular Surgical Society Winter Meeting.
8. **Tonna J**, Lipman GS. (2012). Heat Illness – online questions. ACSM's Sports Medicine: A Comprehensive Review. O'Connor F, Sallis R, Wilder R, St. Pierre P and Davis B (Eds.), *ACSM's Sports Medicine* (2012). Philadelphia, PA,: Williams Wilkins Publishers.
9. **Tonna JE**, Rapoport L, Swaminathan A (2014). Intubating the Hemodynamically Unstable Patient. *EM Resident Magazine*.
10. Lewin MR, **Tonna J** (2012). Does Routine Pelvic Examination in the Setting of Abdominal Pain Inform Decision-Making in the Emergency Department? Tintinalli JE (Ed.), *Tintinalli's Emergency Medicine Online Updates* (Available at <http://accessmedicine.mhmedical.com/updatesContent.aspx?bookid=543§ionid=41716231>). New York, NY: McGraw-Hill.
11. **Tonna J**, Lipman GS. (2012). Field Side Emergencies – online questions. In: ACSM's Sports Medicine: A Comprehensive Review (On-Line). O'Connor F, Sallis R, Wilder R, St. Pierre P and Davis B (Eds.), *ACSM's Sports Medicine* (2012). Philadelphia, PA: Williams Wilkins Publishers.
12. **Tonna J**, Lipman GS (2012). Mountain Medicine – online questions. In: ACSM's Sports Medicine: A Comprehensive Review. O'Connor F, Sallis R, Wilder R, St. Pierre P and Davis B (Eds.), *ACSM's Sports Medicine* (2012). Philadelphia, PA,: Williams Wilkins Publishers.
13. **Tonna J**, Lipman GS (2012). Cold Illness – online questions. In: ACSM's Sports Medicine: A Comprehensive Review. O'Connor F, Sallis R, Wilder R, St. Pierre P and Davis B (Eds.), *ACSM's Sports Medicine* (2012). Philadelphia, PA,: Williams Wilkins Publishers.
14. **Tonna J**, Lipman GS (2012). Dive Medicine – online questions. In: ACSM's Sports Medicine: A Comprehensive Review. O'Connor F, Sallis R, Wilder R, St. Pierre P and Davis B (Eds.), *ACSM's Sports Medicine* (2012). Philadelphia, PA,: Williams Wilkins Publishers.

15. **Tonna J**, Lewin MR (2011). The Natural History and Traditional Management of Appendicitis Revisited: Data Imply That a Correct Diagnosis is More Important Than an Early Diagnosis. Tintinalli JE (Ed.), *Tintinalli's Emergency Medicine Online Updates* (Available at <http://accessmedicine.mhmedical.com/updatesContent.aspx?bookid=543§ionid=41716070>). New York, NY: McGraw-Hill.
16. **Tonna J**, Long A (2010). Emergency Medicine: Advanced Life Support for Out-of-Hospital Respiratory Distress. Tintinalli JE (Ed.), *Tintinalli's Emergency Medicine Online Update* (Available at <http://accessmedicine.mhmedical.com/updatesContent.aspx?bookid=543&Sectionid=41715825>). New York, NY: McGraw-Hill.
17. **Tonna J**, Cizas A, Lewin MR (2010). Abdominal Compartment Syndrome: An Emergency Department Perspective. Tintinalli JE (Ed.), *Tintinalli's Emergency Medicine Online Updates* (Available at <http://accessmedicine.mhmedical.com/updatesContent.aspx?bookid=543&Sectionid=4171578>). New York, NY: McGraw-Hill.
18. **Tonna J** (2008). Emergency Medicine: Advanced Cardiac Life Support in Out of Hospital Cardiac Arrest. Tintinalli JE (Ed.), *Tintinalli's Emergency Medicine Online Updates* (Available at <http://accessmedicine.mhmedical.com/updatesContent.aspx?bookid=543§ionid=41715383>). New York, NY: McGraw-Hill.

Multimedia

1. EMA (05/01/2017). Interview. **Joseph Tonna**. Emergency Medicine: Reviews and Perspectives (EM:RAP) Emergency Medical Abstracts (EMA). "Practice Characteristics Of Emergency Department Extracorporeal Cardiopulmonary Resuscitation (eCPR) Programs In The United States: The Current Sate Of The Art Of Emergency Department Extracorporeal Membrane Oxygenation (ED ECMO). [Podcast], EM:RAP. Available: www.emrap.org.
2. **Joseph Tonna** (12/01/2016). Scientific Assembly Wrap-Up and the Coming Year --A call for authorship [Web], American College of Emergency Physicians. Available: https://www.acep.org/_Critical-Care-Section-MicroSite/Scientific-Assembly-Wrap-Up-and-the-Coming-Year---A-call-for-authorship/.
3. Tonna, JE (09/12/2016). Extracorporeal Cardiopulmonary Resuscitation in the Emergency Department [Web], American College of Emergency Physicians, Critical Care Section Newsletter. Available: https://www.acep.org/_Critical-Care-Section-MicroSite/Extracorporeal-Cardiopulmonary-Resuscitation-in-the-Emergency-Department/.
4. **Tonna J**, Youngquist S, McKellar S, Shinar Z (06/09/2016). The University of Utah EDECMO Experience and the ERECT Collaborative [Podcast], ED ECMO Podcast. Available: <http://edecmo.org/edecmo-28-utah/>.
5. Tonna, JE (2015). Scientific Assembly Wrap Up and Sepsis Panel Discussion [Web], American College of Emergency Physicians, Critical Care Section Newsletter.
6. **Tonna JE** (2015). Esmolol Reduces Mortality in Septic Shock: A discussion with the author [Web], American College of Emergency Physicians, Critical Care Section Newsletter. Available: <https://www.acep.org/content.aspx?id=100673>.
7. **Joseph Tonna**, Scott Weingart (05/18/2014). The Logistics of Proning for ARDS [Podcast], EMCrit. Available: <http://emcrit.org/podcasts/logistics-proning/>.
8. Tonna, JE (03/01/2014). Prone Positioning: An experience of actually doing it [Web], American College of Emergency Physicians, Critical Care Section Newsletter. Available: <https://www.acep.org/content.aspx?id=96603>.

9. **Tonna JE** (2014). Ehlers Danlos [Web], EBSCO PEMSoft. Available: <http://www.ebscohost.com/biomedical-libraries/pemsoft>.
10. **Tonna JE** (2014). Marfans Syndrome [Web], EBSCO PEMSoft. Available: <http://www.ebscohost.com/biomedical-libraries/pemsoft>.

PENDING PUBLICATIONS

Journal Articles

1. Domecq JP, Lal A, Sheldrick CR, Kumar VK, Boman K, Bolesta S, Bansal V, Harhay MO, Garcia MA, Kaufman M, Danesh V, Cheruku S, Banner-Goodspeed VM, Anderson HL 3rd, Milligan PS, Denson JL, St Hill CA, Dodd KW, Martin GS, Gajic O, Walkey AJ, Kashyap R; Society of Critical Care Medicine Discovery Viral Infection and Respiratory Illness Universal Study (VIRUS): COVID-19 Registry Investigator Group [including **Tonna JE**] (In Press). Outcomes of Patients With Coronavirus Disease 2019 Receiving Organ Support Therapies: The International Viral Infection and Respiratory Illness Universal Study Registry. *Crit Care Med*, 1(49), 3.

Abstracts

1. Qussay Marashly, MD; Iosif Taleb, MD; Elizabeth Dranow, PhD; Christos P. Kyriakopoulos, MD; Anwar Tandar, MD, Frederick G. Welt, MD, MSc; Tara Jones, MD, PharmD2; Joseph E. Tonna, MD, MS3, Sean D. Overton, MD3, Stephen H. McKellar, MD, MSc, Antigone G. Koliopoulou, MD, Line Kemeyou, MD, Kevin S. Shah, MD, Jose Nativi-Nicolau, MD, Stavros G. Drakos MD, PhD (In Press). Early Mortality Prediction in Acute Coronary Syndrome-Related Cardiogenic Shock Treated With Short-Term Mechanical Circulatory Support. ISHLT 41st Annual Meeting and Scientific Sessions, 2021 [Abstract].

RECENTLY PUBLISHED ABSTRACTS (LAST 3 YEARS)

1. Benjamin L Shou, Chin Siang Ong, Lavienraj Premraj, Patricia Brown, Joseph E. Tonna, Heidi J Dalton, Bo Soo Kim, Steven P Keller, Glenn JR Whitman, Sung-Min Cho (2022). Arterial Oxygen and Carbon Dioxide Tension and Acute Brain Injury in Extracorporeal Cardiopulmonary Resuscitation Patients: Analysis of the Extracorporeal Life Support Organization Registry; ESICM [Abstract]. *MedRxIV: DOI 10.1101/2022.03.10.22272203*.
2. Tang W, **Tonna JE**, Smith BK, Kraiss LW, Griffin CL, Sarfati MR, Brooke BS (2021). Arterial Duplex Ultrasound Criteria for Predicting Limb Ischemia and Amputation Among Patients Undergoing Femoral Cannulation for Extracorporeal Membrane Oxygenation [Abstract].

POSTER PRESENTATIONS

- 2022 An international cohort study to determine predictors of early mobilization in patients requiring ECMO for greater than 7 days; Extracorporeal Life Support Organization (ELSO) Annual Meeting, 2022, Boston, MA, USA
- 2019 Julian Macedo MD, **Joseph E Tonna MD**. Prolonged Ventilation Rates in Complex Cardiac Surgery Patients. 16th Annual Multidisciplinary Cardiovascular and Thoracic Critical Care Conference. Baltimore, MD. 09/26/2019 - 09/28/2019
- 2017 Davis D, Lambert T, **Tonna J**. *Family Satisfaction with Patient Care in the ICU*. Poster session presented at University of Utah Undergraduate Research Symposium, Salt Lake City. <https://doi.org/10.6084/m9.figshare.5216227.v1>.

- 2009 **Tonna JE**, Balanoff AM, Lewin MR. *Cross-Disciplinary Innovation: A Novel Method for Partitioning CT Scan Data to Characterize Acute Spinal Cord Injuries Using Techniques Developed in Field of Paleontology*. Poster session presented at Research Forum of the American College of Emergency Physicians, California Chapter (CAL/ACEP) Scientific Assembly, La Quinta, CA.
- 2009 **Tonna JE**, Balanoff AM, Lewin MR. *Cross-Disciplinary Innovation: A Novel Method for Partitioning CT Scan Data to Characterize Acute Spinal Cord Injuries Using Techniques Developed in Field of Paleontology*. Poster session presented at California Academy of Sciences-UCSF Symposium on Evolution, San Francisco, CA.
- 2008 **Tonna JE**. *Analysis of Injury and Illness during Travel to the Gobi Desert*. Poster session presented at UCSF School of Medicine Dean's Summer Research Fellows Showcase, San Francisco, CA.
- 2007 **Tonna JE**. *Effect of O2 Tension on PMN Mediated Killing of Acinetobacter baumannii*. Poster session presented at UCSF School of Medicine Dean's Summer Research Fellows Showcase, San Francisco, CA.

ORAL PRESENTATIONS

Keynote/Plenary Lectures

International

- 2023 *Which patients should receive (or not) ECPR?*, ExtraCorporeal Organ Support (ECOS) and Temporary Circulatory Support (TCS) Congress (Virtual Presentation), Paris, France
- 2023 *Adult ECPR ECMO Management*, Chinese Society of Extracorporeal Life Support (CSECLS) 2023 (Virtual Presentation), Nanjing, Jiangsu, China
- 2023 *National ECMO Registry: The Importance*; SaudiECLS 2023 Moving Forward Conference, Jeddah, Kingdom of Saudi Arabia
- 2022 *ELSO Registry Updates*, 33rd Annual Extracorporeal Life Support Organization (ELSO) Conference, Boston, MA, USA
- 2022 *Adult ECPR ECMO Management*; Chinese Society of Extracorporeal Life Support (CSECLS) 2022 Conference (Virtual Presentation), Nanjing, Jiangsu, China.
- 2022 *Adult ECPR Mortality Prediction*; ExtraCorporeal Organ Support (ECOS) and Temporary Circulatory Support (TCS) Conference (Virtual Presentation), Paris, France.
- 2021 *Papers from of the ELSO Registry*. Extracorporeal Life Support Organization 32nd Annual Conference, Boston, MA, USA
- 2019 **Joseph E Tonna** & Peta Alexander. *Papers from the ELSO Registry*. 30th Annual ELSO Conference 2019, Austin, TX, USA
- 2018 **Tonna JE**. *Sleep in the Intensive Care Unit*. Connect2Care Conference, Washington, DC

National

- 2021 **Tonna JE**. "ECPR for Cardiac Arrest and Post Arrest Care." Invited plenary lecture for Post-Arrest Care and Targeted Temperature Management 2021 Conference.

Local/Regional

- 2019 Nicholas Levin, MD, Joseph Tonna, MD. Changes in Patients' MEWS Scores while in the ED Predict Mortality, ICU Admission and LOS. Western Regional Society of Academic Emergency Medicine, 2019
- 2018 **Tonna JE.** "Should We Be Doing eCPR? The Patients, the Research, and the Barriers." Western Regional Society of Academic Emergency Medicine (WRSaEM)

Meeting Presentations

International

- 2024 *The Registry*--Lecture at SWAAC ELSO 2024 Conference, Kuwait City, Kuwait
- 2024 *Thromboelastography*--Lecture at SWAAC ELSO 2024 Conference, Kuwait City, Kuwait
- 2024 *How Many ECLS Is Enough: Volume outcome relationships in ECMO*--Lecture at SWAAC ELSO 2024 Conference, Kuwait City, Kuwait
- 2023 *Meet the Expert: EXTRACORPOREAL MEMBRANE OXYGENATION FOR CARDIAC ARREST: WHEN, WHY, AND HOW* (proposal accepted, colleague presented on my behalf); American Thoracic Society Congress 2023, Washington, DC, USA
- 2023 *Cost Effectiveness Analysis and Long Term Outcomes. A multicultural perspective*; EuroELSO, Lisbon, Portugal
- 2019 Levin N, Horton D, Sanford M, Graves K, Tonna JE. Failure to Normalize Vital Signs in the Emergency Department is Predictive of Morbidity & Mortality. Oral Presentation at Mediterranean Emergency Medicine Congress, Dubrovnik, Croatia.
- 2018 **Tonna JE.** "Resuscitation 4.0: Move Over Lucas, The Cannula Is Here." Cross Talk Session Panelist, Society of Critical Care Medicine (SCCM)

National

- 2023 - Present Mobility during VV ECMO; Analysis of the ELSO International Registry; Extracorporeal Life Support Organization (ELSO) Annual Meeting, Boston, MA, USA
- 2020 **Tonna JE.** Mobilization of the Critically Ill. American Physical Therapy Association (APTA) Combined Section Meeting (CSM) 2020. Denver, CO, USA
- 2019 Levin N, Horton D, Sanford M, Graves K, Tonna JE. The Use of delta-Modified Early Warning Scores Predicts Additional Mortality Risk Within Quick Sequential Organ Failure Assessment-Negative Emergency Department Patients. Oral Presentation at the American College of Emergency Physicians, Research Forum, 2019. Denver, CO.
- 2019 **Joseph E. Tonna MD, Julian Macedo MD, Vikas Sharma MD, Jason Glotzbach MD, Craig Selzman MD, Stephen McKellar MD.** Long term survival over 10 years among 219 patients treated with extracorporeal membrane oxygenation. 16th Annual Multidisciplinary Cardiovascular and Thoracic Critical Care Conference. Baltimore, MD. 09/26/2019-09/28/2019.
- 2016 Tonna JE, Utah Cardiac Recovery Symposium, SHOCK Case Presentations: Emergency Room ECMO, University of Utah, Salt Lake City, Utah
- 2014 Awake Intubation for the Emergency Physician. New Speakers Forum, American College of Emergency Physicians 2014 Scientific Assembly

- 2008 Head Trauma: A Stepwise Approach in Austere Settings. Medicine for Mariners Conference
- 2007 Course Assistant, Wilderness First Aid Skills and Improvisation. Xtreme Emergency Medicine Conference, Course Instructor: Joanne Feldman, MD, Stanford University

Local/Regional

- 2023 *Automated data extraction to support registry based platform clinical trials;* U-Inquire Lecture Series; Department of Surgery, University of Utah Health, Salt Lake City, UT, USA
- 2023 *Post Operative Extubation Plan (POPE) Study; Quality Improvement Process in the Cardiovascular Intensive Care Unit.* Vargas C, **Tonna JE**; Critical Care Consortium 2023, University of Utah Health, Salt Lake City, UT, USA
- 2016 Avani Latchireddi, Joseph Tonna. University of Utah. Improvement of Care In The Surgical Intensive Care Unit Through Family Feedback. University of Utah Undergraduate Research Symposium. Salt Lake City, UT.
- 2016 Avani Latchireddi, Joseph Tonna. University of Utah. Improvement of Care In The Surgical Intensive Care Unit Through Family Feedback. University of Utah Conference of Undergraduate Research. Salt Lake City, UT.
- 2012 Definitive Wound Management During Disasters. DMAT CA-6 Meeting, San Francisco, CA
- 2012 **Tonna JE**, Schreiber M, Lipman GS. Epidemiology of Drownings on the McKenzie River Watershed, OR. Research presentation at Stanford University Emergency Medicine Research Forum, Stanford, CA
- 2011 Disaster Orthopedic Trauma. DMAT CA-6 Meeting, San Francisco, CA
- 2011 Metabolic Endocrine Emergencies. Stanford University LifeFlight Lecture, Stanford, CA
- 2010 Hypothermia, DMAT CA-6 meeting. San Francisco, CA
- 2010 Expedition Medicine. "Down to a Science" Lecture Series, California Academy of Sciences, San Francisco, CA
- 2010 Expedition Medicine. "Night at the Museum," California Academy of Sciences, San Francisco, CA
- 2008 Head and Neck Trauma: Data-Driven Use of Radiography. DMAT CA-6 Clinician's Meeting, San Francisco, CA

Invited/Visiting Professor Presentations

International

- 2021 **Tonna JE.** "ECPR" Invited talk. Extracorporeal Life Support Organization (ELSO) Adult ECMO Training Course.
- 2021 *Assessment of Cardiac Function for VA ECMO; e-ISICEM Update on ECMO (Virtual Presentation);* Paris, France
- 2021 **Tonna JE.** "ECPR" Invited talk. Extracorporeal Life Support Organization (ELSO) or Extracorporeal Life Support Adult ECMO Training Course.
- 2020 **Tonna JE.** ECMO for Procedures. Society of Critical Care Medicine Critical Care Congress #49, 2020

- 2020 **Tonna JE.** ECPR: Who, What, When, and Why? Society of Critical Care Medicine Critical Care Congress #49, 2020
- 2013 *Hyperglycemia, DKA, HHNK—How to avoid a clean kill.* A.M. Dogliotti College of Medicine, Monrovia, Liberia

National

- 2021 **Tonna JE.** *Management of Patients on ECMO.* Seattle Area Chest Conference Grand Rounds, Division of Pulmonary, Critical Care and Sleep Medicine, Department of Medicine, University of Washington/Harborview Medical Center, Seattle, WA
- 2021 **Tonna JE.** "North American ECMO Databases." Extracorporeal Cardiopulmonary Resuscitation (ECPR) for Out-of-hospital Cardiac Arrest (OHCA) Meeting. National Institutes of Health (NIH) National Heart Lung & Blood Institute (NHLBI) Working Group. Session 2 Working Group: The value of registry data to advance the science and guide implementation

Local/Regional

- 2020 **Tonna JE.** ECMO & eCPR. Invited Lecture for American College of Surgeons (ACS) Regional Chapter Meeting

Grand Rounds Presentations

- 2023 *Resuscitative ECMO,* Grand Rounds, Department of Emergency Medicine, Yale University, CT, USA
- 2021 *ICU Management of ECPR Patients.* Division of Cardiothoracic Surgery, Department of Surgery, University of Utah Health
- 3/27/2018 *Should we be doing eCPR? The patients, the research, the barriers.* Division of Cardiothoracic Surgery, Department of Surgery, University of Utah, Salt Lake City, UT, USA
- 2015 *Surgical Critical Care: Striving Towards Excellence.* Division of General Surgery, Department of Surgery, University of Utah, Salt Lake City, UT, USA
- 2013 *Ultrasound in the Management of Trauma.* JFK Hospital, Monrovia, Liberia

Outreach Presentations

Local/Regional

- 2023 *Resuscitative ECMO;* Layton City Fire Department, Layton, UT, USA
- 2023 *Resuscitative ECMO;* Layton City Fire Department, Layton, UT, USA
- 2023 *Resuscitative ECMO;* Park City Fire Department, Park City, UT, USA
- 2023 *Resuscitative ECMO;* South Davis Fire Department, South Davis, UT, USA
- 2023 *Resuscitative ECMO;* South Davis Fire Department, South Davis, UT, USA
- 2023 *Resuscitative ECMO;* Park City Fire Department, Park City, UT, USA
- 2023 *Resuscitative ECMO;* Park City Fire Department, Park City, UT, USA

INTELLECTUAL PROPERTY

Patents

- 11/17/2016 Joseph E. Tonna, Benjamin S. Brooke, Julia Beynon (Pending). Systems and Methods For Managing Patient Devices. United States
- 11/17/2015 Joseph E. Tonna, Benjamin S. Brooke, Julia Beynon (2015). Systems and Methods For Managing Patient Devices. United States

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- 09/23/2015 Joseph E. Tonna, F. Edward (Ed) Dudek, Mark J. Lehmkuhle, Christopher R. Jones, Julia Beynon, Benjamin S. Brooke, Alexander L. Colonna (2015). Sleep Monitor
- 06/19/2015 Joseph E. Tonna, Benjamin S. Brooke, Julia Beynon (2015). Mobile Alarm Application

OTHER SCHOLARLY ACTIVITIES

Additional Research/Scholarship Contributions

- 2018 Facilitator, Rapid-Fire Abstract Presentations, American Thoracic Society 2018 International Conference
- 2018 Facilitator, Oral Abstract Presentations, Society of Academic Emergency Medicine, 2018, Western Regional Conference
- 2017 Invitation to Present on Extracorporeal Resuscitation Consortium at Canadian ECPR Research Working Group Meeting, Ottawa, Canada, April 25-26, 2017
- 2015 University Health Care Partners Program (UHPP) Submission and Approval, Early Mobility in the SICU and CVICU
- 2015 - Present Extracorporeal Resuscitation Consortium --Principal Investigator Collaborative of 13 centers from across the United States and Canada to conduct shared multi-site research in eCPR
- 2014 - Present "Rounds Checklist & Plan of the Day" Sheet Development, Surgical and Cardiovascular ICU
- 2013 Elective training in ICU based extracorporeal life support/membrane oxygenation (ECLS/ECMO), Legacy Emmanuel Hospital, Portland, OR
- 2013 Advanced Training in comprehensive Transthoracic Echocardiography (TTE) exams with experience in Transesophageal Echocardiography (TEE)
- 2013 Credentialed in Emergency Medicine Ultrasound including: EFAST (including thoracic), AORTA, ECHO, IVC; Competent in RENAL, GALLBLADDER, TA/TV PELVIS, Orbital
- 2013 **Tonna JE.** Malaria, Ascariasis, Necator, Acute Respiratory Infections, Pediatric Resuscitation, Seizures, Altered Mental Status, Lassa Fever, Yellow Fever, Typhoid Fever (Separate Guidelines) Clinical Guidelines for Providers, JFK Hospital Emergency Department, Teaching Rounds & Nursing Education, Monrovia, Liberia
- 2009 **Tonna JE,** Lewin, MR. Envenomation Protocols. [Protocols] For California Academy of Sciences Venomous Animals. California Academy of Sciences and UCSF Department of Emergency Medicine
- 2008 - 2010 Participant in Wildlands Field Training Exercise CALFIRE Wildfire Medical Exercise (2008 & 2010)