

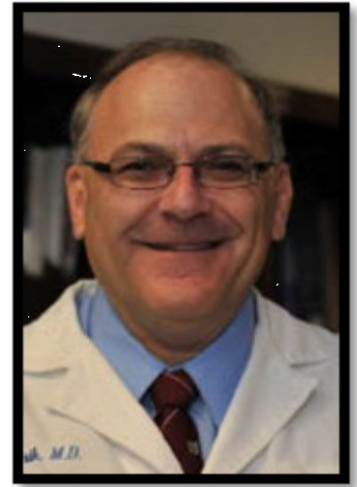
# Paul Ellis Marik

## *Curriculum Vitae*

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MBBCh (Witwatersrand)., M.Med (Int).,  
FCP(SA).,FRCP(C)., FCCM., FCCP.,  
FACP., ABPNS., UCNS-NCC., D.Av.Med.,  
BSc Hons (Pharmacol).,DA(SA).,DTM&H.

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Date of Preparation: 2<sup>nd</sup> January 2022



Signature

**Professional Title:** Founding Member of the Front Line Covid-19 Critical Care Alliance  
Co-Chief Medical Officer (CMO) FLCCC

### **Personal Information:**

*Date of Birth* : 26th March 1958, Johannesburg, South Africa  
*Citizenship* : US Citizen  
*Children* : Emma, Claire, Laura

## **BIBLIOGRAPHIC SUMMARY:**

### **Academic Qualifications:**

MBBCh, Bachelor of Medicine and Surgery, University of Witwaterstrand  
D.Hom.Med, Diploma in Alternative Medicine, Bantridge Forest school, Sussex, UK  
D.Av.Med, Diploma in Aviation Medicine, South African Defense Force  
M.Med, Master of Medicine, University of Witwaterstrand  
BSc (Hons) Pharmacology, University of Witwaterstrand  
DTM&H, Diploma in Tropical Medicine and Hygiene, University of Witwaterstrand  
FCP (SA), College of Medicine of South Africa  
DA (DA), Diploma of Anesthesia, College of Medicine of South Africa  
FRCPC, Royal College of Physicians and Surgeons of Canada  
PNS, American Board of Physician Nutrition Specialists  
UCNS-NCC, United Council for Neurological Subspecialities

### **Certification:**

#### ***South African Medical and Dental Council***

General Practitioner  
Specialty certification in Internal Medicine  
Sub-specialty certification in Critical Care Medicine

#### ***British Medical Council***

General Practitioner  
Specialty certification in Internal Medicine

#### ***Canadian Medical Council***

General Practitioner  
Specialty certification in Internal Medicine  
Sub-specialty certification in Critical Care Medicine

#### ***American Board of Internal Medicine (ABIM)***

Internal Medicine  
Critical Care Medicine

#### ***American Board of Physician Nutrition Specialists***

Physician Nutrition Specialist

#### ***United Council for Neurological Subspecialities (USA)***

Neurocritical Care Specialist

**Publications (Google Scholar and Harzings PoP):**

Publications	782 (as listed by Google Scholar)
Citations	48 090
Citations/paper	44
Authors/paper	2.43
H index	105

**Expertscape's** PubMed-based algorithm: “World Expert” on the topic of sepsis being top 0.1% of scholars writing about Sepsis over the past 10 years.

<https://www.expertscape.com/ex/sepsis>

**Citation Metrics** according to the top 100 000 scientists in all disciplines as published by Ioannidis JP et al. A standardized citation metrics author database annotated for scientific field. PLoS Biol 2019; 17(8): e3000384

<b>World Ranking:</b>	734 (top 0.01%)
<b>Number of publications:</b>	524
<b>Number Citations:</b>	18 899
<b>H Index:</b>	66

**Critical Care and Emergency Medicine World Ranking: 2**

	A	B	C	D	E	F	G
1	authfull	inst_name	cntry	np6017	firstyr	lastyr	rank (n)
115	Vincent, Jean-Louis	Universite Libre de Bruxelles	bel	1263	1976	2018	114
735	<b>Marik, Paul E.</b>	<b>Eastern Virginia Medical School</b>	usa	<b>524</b>	<b>1986</b>	<b>2018</b>	<b>734</b>
915	Bellomo, Rinaldo	University of Melbourne	aus	1233	1990	2018	914
1247	Deitch, Edwin A.	University of Medicine and Dentistry of	usa	453	1979	2015	1246
1287	Knaus, William A.			205	1972	2017	1286
1332	Abraham, Edward	Wake Forest University	usa	413	1982	2017	1331
1384	Cook, Deborah J.	McMaster University	can	649	1996	2018	1383
1856	Angus, Derek C.	University of Pittsburgh	usa	453	1992	2018	1855
2410	Marshall, John C.	University of Toronto	can	390	1986	2018	2409
2536	Pinsky, Michael R.	University of Pittsburgh	usa	457	1979	2017	2535
2592	Fink, Mitchell P.	University of California at Los Angeles	usa	377	1983	2017	2591
2731	Bernard, Gordon R.	Vanderbilt University	usa	270	1983	2018	2730
3028	Pronovost, Peter J.	Johns Hopkins University	usa	636	1998	2018	3027
3401	Parrillo, Joseph E.	University of Medicine and Dentistry of	usa	408	1971	2017	3400
3408	Camargo Jr., Carlos A.	Harvard University	usa	873	1983	2018	3407
3840	Brochard, Laurent			581	1984	2018	3839
4435	Heyland, Daren K.	Queen's University Kingston	can	398	1996	2018	4434
4515	Holcomb, John B.	University of Texas Health Science Cen	usa	608	1991	2018	4514
5172	Dellinger, R. Phillip	University of Medicine and Dentistry of	usa	284	1982	2018	5171
5214	Annane, Djillali	Hopital Raymond Poincare	fra	422	1990	2018	5213

## ACADEMIC DEGREES AND FELLOWSHIPS

- 1981 University of the Witwatersrand, Johannesburg, South Africa. Graduated MB Bch 26<sup>th</sup> November 1981.
- 1983 Diploma Aviation Medicine, South African Defense Force, 06/15/1983.
- 1984 Bantridge Forest School, East Sussex, England. Diploma in Homeopathic and Alternative Medicine.
- 1987 College of Medicine of South Africa. Admitted as Fellow of the College of Physicians, 30<sup>th</sup> October 1987.
- 1989 College of Medicine of South Africa. Admitted as a Diplomate in Anaesthesia, 27<sup>th</sup> October 1989.
- 1989 University of the Witwatersrand, Master of Medicine (Internal Medicine). Title of M.Med dissertation: "*Prognostic profiles in acute myocardial infarction*". Graduated 29<sup>th</sup> June 1989.
- 1990 University of the Witwatersrand, Tropical Medicine and Hygiene, Graduated 29<sup>th</sup> November 1990.
- 1991 University of the Witwatersrand, Bachelor of Science in Pharmacology (Honors), with distinction. Title of dissertation: "*The pharmacokinetics of amikacin analyzed by a two compartment model in critically ill adult and paediatric patients: A comparison of a once versus twice daily dosing regimen.*" Graduated 30<sup>th</sup> April 1991.
- 1993 Royal College of Physicians and Surgeons of Canada. Admitted as a fellow of the Royal College of Physicians and Surgeons of Canada, in the speciality of Internal Medicine, 18<sup>th</sup> February 1994.
- 1998 American College of Critical Care Medicine (FCCM), Admitted as Fellow, February 1998, San Antonio, Texas.
- 1998 American College of Chest Physician (FCCP), Admitted as Fellow, November 1998, Toronto, Canada.
- 2005 American College of Physicians, Admitted as Fellow, April 2005, Philadelphia, PA
- 2010 American Board of Physician Nutrition Specialists, Physician Nutrition Specialist, November 2010
- 2011 United Council for Neurological Subspecialities, Subspecialty of Neurocritical Care, December 2011

## UNDERGRADUATE AND POSTGRADUATE TRAINING

- 1975-1981 University of the Witwaterstrand Medical School, South Africa, Bachelor of Medicine and Bachelor of Surgery; 01/01/1975 to /11/26/1981.
- 1982 Rotating Internship, Departments of Medicine and Surgery, Hillbrow Hospital, Johannesburg, South Africa; 01/01/1982 to 01/30/1982 - Medicine; 07/-1/1982 to 12/31/1982 -Surgery
- 1983-1984 Resident, Department of Medicine, H.F.Verwoerd Hospital and University of Pretoria, South Africa (seconded from 1 Military Hospital, Pretoria during compulsory National Service, South African Defense Force); 01/01/1983 to12/31/84.
- 1985-1988 Resident, Department of Medicine, Johannesburg Hospital and University of the Witwatersrand; 01/01/1985 to 12/31/1988.
- 1985-1989 University of the Witwaterstrand Medical School, South Africa, Master of Medicine; 01/01/1985 -06/01/1989
- 1989 College of Medicine of South Africa, Diploma in Anesthesia, 0101/1989 to 06/30/1990.
- 1989-1990 University of the Witwaterstrand Medical School, South Africa, Bachelor of Science in Pharmacology; 01/01/1989 to 12/01/1990.
- 1990 University of the Witwaterstrand Medical School, South Africa, Diploma in Tropical Medicine and Hygiene, 01/01/1990 to 12/30/1990.
- 1991-1992 Critical Care Fellowship, Critical Care Program, University of Western Ontario, London, Ontario, Canada; 07/01/1991 to 06/30/1992.

### **Additional Training:**

- 2005 Harvard School of Public Health, Advanced Leadership Strategies for Health Care Executives. Boston, MA, November 13-18, 2005

## LICENSURE AND CERTIFICATION

- 1983 South African Medical and Dental Council: Medical Practitioner.  
1983 General Medical Council, England.  
1989 South African Medical and Dental Council: Specialist, Internal  
Medicine.  
1991 South African Medical and Dental Council, Accreditation in Critical Care  
1992 ECFMG certification. ECFMG No. 334-070-0. Issued 14<sup>th</sup> December 1992, Valid  
Indefinitely.  
1992 Federal Licensing Examination. No 580326511.  
1992 Michigan Board of Medicine; Limited Clinical Academic License, #4301060396,  
Expiration 01/31/94  
1994 Michigan License Registration. No 4301-060396, expiration 01/31/95.  
1994 Licentiate of Medical Council of Canada. No 76134.  
1994 Massachusetts License Registration. No 79445, issued 05/26/94 expired  
10/01/1998.  
1998 ABIM Board Certification in Internal Medicine, ABIM # 188450, issued August  
1998, expires 12/31/2008. Recertified in 2006. Certification expired in  
12/31/2018.  
1999 ABIM Board Certification in Critical Care Medicine, ABIM # 188450, issued  
November 1999, expires 12/31/2009. Recertified in 2007 and 2018. Certification  
expires in 12/31/2029.  
1999 DC Board of Medicine, No MD 31340, Issued 5<sup>th</sup> January 1999, expired  
12/31/2000.  
2000 Pennsylvania License Registration. No MD-071427-L, issued 10/04/2000  
expired 12/31/2010.  
2000 ACLS Certification, American Heart Association, Recertified May 2008, Expired  
May 2010.  
2000 ATLS Certification, American College of Surgery  
2002 PALS Certification, Pediatric Advanced Life Support, American Heart  
Association  
2002 Federal Controlled Substance Registration, DEA # BM 3383596, issued  
3/21/2002 expired 01/31/2005. Updated registration, Expires 01/31/2008,  
01/31/2011, 01/31/2023. Reissued DEA # FM9775175 Issued 10-14-2020  
Expires 10-31-2024.  
2009 Virginia Board of Medicine, License # 0109542065, Issued 07/01/09, Expires  
06/30/2021.  
2010 American Board of Physician Nutrition Specialists, Physician Nutrition Specialist,  
November 2010, License # 2100381, Expires November 2020  
2011 United Council for Neurological Subspecialties, Subspecialty of Neurocritical  
Care, Certificate # NCC00596-11, issued 12/31//2011, Expires, 12/31/2021.  
2018 ABIM Board Certification in Critical Care Medicine, ABIM # 188450,  
Recertified in 2018, Certification expires in 12/31/2029.

## ACADEMIC AND CLINICAL APPOINTMENTS

- 1989-1991 Attending Physician, Assistant Professor and Associate Director ICU, Department of Intensive Care, Baragwanath Hospital, Soweto, Johannesburg.  
(Multidisciplinary ICU)
- 1992-1994 Assistant Professor, Department of Internal Medicine and Associate Director, Medical Intensive Care Unit, Detroit Receiving Hospital and Wayne State University, Michigan.
- 1994-1996 Assistant Professor, Department of Medicine University of Massachusetts, Associate Director, Medical and Surgical Intensive Care Units, St. Vincent Hospital, Worcester, Massachusetts.
- 1996-1998 Associate Professor, Department of Medicine University of Massachusetts, Director, Medical Intensive Care Unit, Co-Director Surgical ICU, St. Vincent Hospital, Worcester, Massachusetts.
- 1999-2000 Department of Medicine, Section of Critical Care, Director MICU, Washington Hospital Center, Washington, DC.
- 2001- 2004 Professor of Medicine and Critical Care, Department of Critical Care, University of Pittsburgh Medical School, Pittsburgh, PA and Co-Director, Liver Transplant ICU's
- 2004- 2009 Professor of Medicine, Chief Division of Pulmonary and Critical Care Medicine, Thomas Jefferson University, Philadelphia, PA.
- 2004- 2009 Director of Respiratory Services, Thomas Jefferson University Hospital.
- 2009- 2021 Professor of Medicine, Chief Division of Pulmonary and Critical Care Medicine East Virginia Medical School.  
Director of the General Intensive Care Unit.  
Director of the Neuro Intensive Care Unit
- 2010- 2021 EVMS Foundation Distinguished Professorship in Internal Medicine
- 2014- 2021 Tenure, Eastern Virginia Medical School

## TEACHING PORTFOLIO

- 1992-1994 Coordinator of Resident Critical Care Teaching Program, Detroit Receiving Hospital and Wayne State University, Michigan.
- 1994-1998 Coordinator of Resident Critical Care Teaching Program, St Vincent Hospital, University of Massachusetts Medical School, Worcester, MA
- 1994-1998 Lecturer, Internal Medicine Program, Emergency Medicine Program, and Cardiology Fellowship Program, University of Massachusetts Medical School, Worcester, MA.
- 1994-1998 ACLS Lecturer, St Vincent Hospital
- 1999-2000 Lecturer, Internal Medicine, Washington Hospital Center and George Washington University Medical Center.
- 1999-2000 Coordinator, resident lecture series in Pulmonary and Critical Care Medicine, Department of Medicine, Washington Hospital Center
- 2001- 2004 Teaching Faculty, Department of Critical Care, University of Pittsburgh, Pittsburgh, PA. Responsible for 4<sup>th</sup> year medical student elective teaching and Critical Care Fellow teaching.
- 2001- 2004 Teaching faculty, University of Pittsburgh School of Nursing, Acute Care Nurse Practitioner Program
- 2004-2009 Teaching Faculty, Division of Pulmonary and Critical Care Medicine, Thomas Jefferson University, Philadelphia, PA. Responsible for 4<sup>th</sup> year medical students, medical and surgical residents and Pulmonary and Critical Care Fellow teaching.
- 2004-2009 Co-fellowship Director, Pulmonary and Critical Care Fellowship, Division of Pulmonary and Critical Care Medicine, Thomas Jefferson University, Philadelphia, PA.
- 2006-2009 Physical Diagnosis Course, 2<sup>nd</sup> year medical students, Thomas Jefferson University.
- 2006-2009 Small group tutorial/discussion groups, 2<sup>nd</sup> year medical students, Thomas Jefferson University.
- 2009- 2021 Small group tutorial/discussion groups, 3<sup>rd</sup> year medical students, Eastern Virginia Medical School
- 2009- 2021 Teaching faculty, Internal Medicine Residency, Eastern Virginia Medical School
- 2009- 2021 Teaching faculty, Emergency Medicine Residency, Eastern Virginia Medical School
- 2009- 2021 Teaching faculty, Family Medicine Program, Internal Medicine Residency, Eastern Virginia Medical School



## **PhD Thesis Reviewer**

2020 Dr. Harm-Jan de Groot. Research methods for critical care: Empirical tests of commonly used clinical research instruments. Amsterdam UMC, VU University Medical Center

## **Grant Reviewer**

2020 Clinical Trials Center University Hospitals Leuven. Sponsored by the Health Ministry of Belgium. Early administration of Vitamin C in patients with sepsis or septic shock in emergency departments: a multicentre, double blinded, randomised controlled trial: the C-EASIE trial.

2020 Department of Defense Health Program.  
Congressionally Directed Medical Research Programs  
Clinical Trial Award for Emerging Viral Diseases and Respiratory Health  
Award No: W81XWH-20-PRMRP-CTA-COV

## **PROFESSIONAL SOCIETIES**

1987- College of Medicine of South Africa.  
1989- South African Society of Critical Care.  
1993- Society of Critical Care Medicine.  
1994- College of Medicine and Surgery of Canada.  
1994- Massachusetts Medical Society.  
1997- American Thoracic Society  
1997- American Heart Association: Council on Cardiopulmonary and Critical Care  
1998- American College of Chest Physicians  
2004- American College of Physicians

## AWARDS, HONORS & CITATIONS

- 1988 Sabax Award, for the best Paper delivered at the 10th Annual Critical Care Congress, Johannesburg.
- 1990 Ciba-Gigy Award for best Student in the Science Faculty
- 1995 John J.McKeever Medical Educator Award, St Vincent Hospital, May 1995 (Teacher of the Year Award, Department of Medicine).
- 1996 John J.McKeever Medical Educator Award, St Vincent Hospital, May 1996.
- 2000 SCCM Presidential Citation for Outstanding Contributions to the Society of Critical Care Medicine in 1999, February 2000.
- 2000 American College of Chest Physicians Citation for top 5% of Editorial Reviewers
- 2001 American College of Chest Physicians Citation for top 5% of Editorial Reviewers
- 2002-2007 Listed in "Who's Who in America"
- 2004 Ranked 18<sup>th</sup> Leading Critical Care Investigator, as measured by number of publications between 1997 and August 2003; in, Adams AB, Simonson D. Publications, Citations, and Impact Factors of leading investigators in Critical Care Medicine. Respiratory Care 2004; 49:276-281
- 2004 University of Pittsburgh Medical Center, Nominated for UPMC's Physician ACES teaching award.
- 2004-2009 Listed in America's Top Physicians, Consumer Council of America
- 2009 American College of Critical Care Medicine. Service Award for Outstanding Service to the College, Awarded at the Convocation Ceremony, SCCM 38<sup>th</sup> Critical Care Congress, February 2, 2009, Nashville, TN
- 2009 American College of Chest Physicians Citation for top 5% of Editorial Reviewers
- 2010 Teacher of the Year Award, Department of Emergency Medicine, EVMS
- 2010 Golden Flea Teacher of the Year Award, Department of Medicine, EVMS
- 2011 Election to Alpha Omega Alpha at the EVMS, May 2011
- 2011 Golden Flea Teacher of the Year Award, Department of Medicine, EVMS
- 2012 Eastern Virginia Medical School, Teacher of the Year Award
- 2013 Teacher of the Year Award, Department of Emergency Medicine, EVMS
- 2014 American College of Physicians, State of Virginia, Best Teacher Award
- 2016 Teacher of the Year Award, Department of Emergency Medicine, EVMS
- 2016 EVMS Faculty Award for Mentoring
- 2017 American College of Physicians, National Teacher of the Year Award, San Diego, CA, March 30<sup>th</sup> 2017.
- 2017 Naval Medical Center, Portsmouth Virginia, Emergency Medicine Residency, Staff Teaching Award, June 21sy 2017.
- 2018 Teacher of the Year Award, EVMS Department of Emergency Medicine, March 2018.
- 2018 Teacher of the Year Award, Naval Medical Center, Emergency Medicine Residency, June 2018.
- 2019 Teacher of the Year Award, Naval Medical Center, Emergency Medicine Residency, June 2019.

## SERVICE AND COMMITTEE'S

1989-1991 Consultant, Pre-operative assessment clinic, Baragwanath Hospital  
1989-1991 Pharmacy and Therapeutics committee, Baragwanath Hospital  
1989-1991 Sepsis and Antibiotic committee, Baragwanath Hospital,  
1989-1991 HIV committee, Baragwanath Hospital  
1989-1991 Consultant, Medical Rescue International (South Africa)  
1993-1994 QA committee, Detroit Receiving Hospital, MI  
1993-1994 Ventilator and CPR committee, Detroit Receiving Hospital, MI  
1994-1997 Pharmacy and Therapeutics Committee, St Vincent Hospital, MA  
1994-1997 Formulary Advisory Sub-committee, St Vincent Hospital  
1994-1997 Laboratory Advisory Committee, St Vincent Hospital, MA  
1994-1997 Co-Chair, Drug Misadventure Sub-Committee, St Vincent Hospital  
1996-1997 Operative and Invasive Committee, St Vincent Hospital  
1994-1998 Critical Care Services Committee, St Vincent Hospital  
1994-1998 Critical Care PI Committee, St Vincent Hospital  
1994-1998 Resident Competence Evaluation Committee, St Vincent Hospital, MA  
1994-1998 Resident Selection Committee, St Vincent Hospital, MA  
1996-1998 Internal Residency Review Committee, St Vincent Hospital (IRC).  
1996-1998 Chairman, Code Blue Committee, St Vincent Hospital  
1996-1998 Member and Consultant, St Vincent Hospital Ethics Committee  
1996-1998 Emergency Preparedness Committee, St Vincent Hospital  
1997-1998 Institutional Review Board for Clinical Research, St Vincent Hospital  
1999-2000 Critical Care Services Committee, Washington Hospital Center  
1999-2000 Critical Care Practice Committee, Washington Hospital Center  
1999-2000 Critical Care Purchasing Committee, Washington Hospital Center  
1999-2000 Chair, Critical Care QI Committee, Washington Hospital Center  
2001-2004 Critical Care Committee, University of Pittsburgh  
2001-2004 Promotions and reappointment committee, University of Pittsburgh  
2001-2004 Compensation committee, University of Pittsburgh  
2001-2004 Critical Care Committee, University of Pittsburgh  
2004-2006 International committee for the study and development of anesthesia for the morbidly obese patient  
2004-2009 Multidisciplinary Critical Care Committee, Thomas Jefferson University  
2004-2009 Insulin Protocol Committee, Thomas Jefferson University  
2004-2009 Nutrition Support Committee, Thomas Jefferson University  
2005-2009 Pharmacy and Therapeutics Committee  
2006-2009 Clinical Performance Improvement Committee, Thomas Jefferson University  
2006-2009 Infection Control Committee, Thomas Jefferson University  
2006-2009 Information Systems Committee, Thomas Jefferson University  
2006-2009 Disaster Planning Committee-Influenzae Pandemic Committee, Thomas Jefferson University  
2006-2009 Emergency Department Performance Improvement Committee, Thomas Jefferson University

2006-2009 Pharmacy Cost Effective Committee, Thomas Jefferson University  
 2007-2009 Seed-grant Review Committee, Thomas Jefferson University  
 2007-2009 Medical Executive Committee, Thomas Jefferson University  
 2009- 2020 EVMS Residency Promotions Committee  
 2009- 2020 EVMS Internal Medicine Executive Committee  
 2009- 2013 EVMS Resident Review Committee  
 2009- 2021 Sentara Critical Care Services Committee  
 2009- 2014 Sentara & Lifenet, Organ Procurement Committee  
 2011- 2013 EVMS Conflict of Interest Committee  
 2012- 2019 Sentara Norfolk General & Leigh Hospitals Peer Review Committee  
 2013- 2018 EVMS Vice-chair, Conflict of Interest Committee  
 2013-2020 EVMS Chair, Resident Clinical Competence Committee  
 2014- 2021 EVMS Chair, Critical Care Fellowship Clinical Competence Committee  
 2014- 2018 EVMS CME Committee  
 2016- 2021 EVMS Tenure Committee  
 2019-2020 Sentara, Medical Director of Hospital for Extended Recovery (HER Unit)

**National, International Forums & Committees**

2000-2002 Society of Critical Care Medicine, Clinical practice guidelines for the sustained use of sedatives and analgesics in the critically ill adult  
 2004-2006 International committee for the study and development of anesthesia for the morbidly obese patient  
 2005-2008 Society of Critical Care Medicine, International taskforce to define the diagnosis and management of adrenal insufficiency.  
 2008 Diagnoses and treatment. 10<sup>th</sup> European Society Critical Care Meeting. Adrenal Failure in the ICU April 18-20, 2008, Florence, Italy  
 2008 Artificial blood substitutes. Presentation to the FDA advisory committee, April 29<sup>th</sup> 2008, Bethesda, MD.  
 2009 International Consensus Conference on Transfusions Outcomes (ICCTO). Society for the Advancement of Blood Management (SABM). April 3rd-5th, Phoenix, AZ.  
 2009 National Summit to Increase the Supply of Physician Nutrition Specialists. American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.), December 2-4, Orlando, Florida.

## **EDITORIAL POSITIONS**

### ***Associate Editor***

2014-2018 Ann Intensive Care  
2020- 2021 Pharmacology & Therapeutics (Impact factor 11.35)  
2020- 2021 Nutrients

### **Editor- Special Edition:**

2019-2020 Journal of Thoracic Diseases  
Sepsis: The Science and the Fiction

### ***Editorial Board Member***

1994-2000 American Journal of Critical Care  
1997-1998 The Internet Journal of Emergency and Intensive Care Medicine  
1997- 2000 Cardiology Reviews  
2001- 2004 Critical Care and Shock  
2002- 2006 Chest  
2003- 2004 Current Respiratory Medicine Reviews  
2003-2010 Intensive Care Medicine  
2005- Associate Editor, Current Respiratory Medicine Reviews  
2005- Associate Editor, Critical Care and Shock  
2006- 2016 Intensive Care Monitor  
2009- 2017 American Journal of Hospital and Palliative Care  
2009- 2016 World Journal of Gastrointestinal Surgical  
2009- 2017 Critical Care Research and Practice  
2010- 2018 Co-editor, Annals of Critical Care  
2010- 2017 Netherland Journal of Critical Care  
2012- 2018 World Journal of Trauma and Critical Care Medicine  
2013- 2019 World Journal of Meta-Analysis  
2013- 2021 Open Access Critical Care  
2013- 2021 Enliven: Journal of Anesthesiology and Critical Care Medicine  
2013- 2021 PulmCCM Journal  
2016- 2021 Archives of Emergency Medicine and Critical Care  
2016- 2021 Cochrane Review Group- Anesthesia, Critical & Emergency Care  
2016- 2021 Journal of Intensive Care  
2017- 2021 Nutrition  
2018- 2021 Journal of Emergency and Critical Care Medicine  
2019- 2021 The Journal of Thoracic Disease  
2020- 2021 Nutrients

## Editorial Awards

2014 Outstanding Reviewer Award, American Journal of Medicine  
2016 Sentinel of Science Award: Top 10% of peer reviewers in the field of Medicine

Reviews for 2012-2021 as Verified by



VERIFIED REVIEWS	VERIFIED REVIEWS (LAST 12 MONTHS)	REVIEW TO PUBLICATION RATIO
437 Median: 3 99th percentile	43 Median: 1 99th percentile	0.9:1 Median: 0.3:1

***Reviewer for the following Journals:***

Adis Medical Publishing  
ACTA Anesthesiology Scandanavia  
American Journal of Critical Care  
American Journal of Emergency Medicine  
American Journal of Hospice and Palliative Care  
American Journal of Hypertension  
American Journal of Medicine  
American Journal of Physiology  
American Journal of Respiratory and Critical Care Medicine  
Anaesthesia and analgesia  
Anesthesiology  
Annals Internal Medicine  
Archives of Internal Medicine  
Archives of Surgery  
British Medical Journal  
British Medical Journal – Open  
British Journal of Medicine and Medical research  
British Medical Journal-Open  
British Journal of Anaesthesia  
Chest  
Chinese Journal of Physiology  
Clinical Infectious Diseases  
Cochrane Collaborative Reviews  
Critical Care  
Critical Care Medicine  
Critical Care Research and Practice  
Critical Care Clinics  
Cytokine  
Diabetes  
Drugs and Aging  
European Journal of Clinical Pharmacology  
Expert Opinion on Biological Therapy  
Expert Opinion on Critical Care  
Expert Opinion on Pharmacotherapy  
Frontiers in Diabetes  
Hematology  
Intensive Care Medicine  
International Journal of Women's Health  
International Journal of Clinical Pharmacy  
ICU Director  
Innate Immunity

Italian Journal of Pediatrics  
Experimental Lung research  
JAMA  
JAMA Network Open  
Journal of Applied Physiology  
Johns Hopkins Advanced Studies in Medicine  
Journal of Critical Care  
Journal of Clinical Anesthesia  
Journal of Respiratory Disease  
Journal of Translational Medicine  
Lancet  
Lancet- Respiratory Disease  
Lancet-infectious Disease  
Liver Transplantation  
Mayo Clinic Proceedings  
Minerva Anestesiologica  
Nature  
Nature Communications  
Nature Reviews Nephrology  
New England Journal of Medicine  
Nutrients  
Nutrition and Health  
PLOS One Medicine  
Plos One Biology  
Plos One  
Pharmacotherapeutics  
Pharmaco-Economics  
Postgraduate Medicine  
Pediatric Anesthesia  
Respiratory Care  
Transplantation  
Transfusion  
Thorax  
Science  
World Journal of Critical Care  
World Journal of Trauma and Critical Care Medicine  
World Journal of Emergency Medicine



### ***Abstract Reviewer***

Society of Critical Care Medicine  
American College of Chest Physicians

### ***Grant Reviewer***

National Medical Research Council, Singapore  
British Medical Research Council, London  
European Medical Council  
German Medical Research Council  
Canadian Institute of Health Research  
Cochrane Collaboration  
PSI Research Foundation, Toronto, Canada

### **SOFTWARE DEVELOPMENT**

The ICU Database 3.0, 4.0-4.7 and The ICU Database 2000.

### **Covid-19 Related Activities**

Developer of the EVMS COVID-19 Protocol; over 1000 000 downloads

Developer of the MATH + Protocol

Founding Member of the Fronline Citical Care COVID Alliance (FLCCC)  
<https://covid19criticalcare.com/>

Co Chief Medical Officer (CMO) of the FLCCC

## GRANTS AND FUNDED RESEARCH STUDIES

- 1989 Once Daily Amikacin Dosing, Baragwanath Hospital ICU, Bristol-Myers Research Grant.
- 1990 Roussel Laboratories Educational Grant. Baragwanath Hospital ICU, 1990.
- 1990 Hydrocortisone in Community Acquired Pneumonia. Baragwanath Hospital ICU, Upjohn Research Grant.
- 1990-1992 Prospective, double-blind, placebo-controlled, randomized, multicenter study of the safety and efficacy of murine monoclonal antibody to human tumor necrosis factor for the treatment of patients with sepsis syndrome. Baragwanath Hospital ICU, 1990-1992.
- 1994 High Dose vs Low Dose Epinephrine, St. Vincent Hospital, 57 patients.
- 1994-1996 Randomized, Multicenter North American study of the safety and efficacy of Murine Monoclonal Antibody to Tumor Necrosis Factor(TNF-Mab) for the treatment of patients with septic shock. NORASEPT II. St. Vincent Hospital, Miles Pharmaceuticals.
1994. A double-blind, randomized study of the efficacy and safety of Cefepime vs Ceftazidime for the treatment of seriously ill patients with pneumonia who are hospitalized in the ICU. St Vincent Hospital.
- 1994-1996 A randomized, multicenter, double-blind trial comparing intravenous CP-116,517 followed by oral CP-99,219 with intravenous ciprofloxacin followed by oral ciprofloxacin for the treatment of nosocomial pneumonia. St.Vincent Hospital, Pfizer Pharmaceuticals.
- 1994-1995 An evaluation of the Bispectral Index as a monitoring tool in the ICU. St. Vincent Hospital, Aspect Medical Systems.
- 1994-1997 Double-Blind, Randomized, Placebo-Controlled, Parallel-Group, Multicenter Study of the Safety and Efficacy of Intravenous Taurolidine in Septic Patients. Wallace Laboratories. St Vincent Hospital.
- 1997-1998 Antithrombin III in patients with severe sepsis: A multinational, double-blind, placebo-controlled phase-III study. St Vincent Hospital. Centeon and PPD Pharmaco.
- 1997 Comparison of Option One and a polymeric enteral feeding: Length of stay and clinical and immune parameters. Protocol CP-BH11, Ross Products Division, Abbott Laboratories
- 1998 Novamatrix. Evaluation of a CO<sub>2</sub> rebreathing technique for the non-invasive estimation of cardiac Output.
- 1999 Evaluation of the CapnoProbe A System from Optical Sensors Incorporated
- 1999 Splanchnic-directed anti-oxidant therapy in critically ill patients: A randomized double-blind controlled study. Research Grant from Metlantic Research Institute.
- 2000 Adrenal insufficiency in the ICU. Research Grant from Metlantic Research Institute
- 2005 A comparative study of the Tiger tube frictional nasal jejunal feeding tube and the Dubhoff gastric feeding tube. Cook Medical, \$15 000

- 2006 Linezolid for the treatment of MRSA pneumonia. Pfizer, \$40 000
- 2011 Integration of Ultrasound in the Medical Education Curriculum: Impact on Educational Outcomes. General Electric, \$ 1 000 000. Alex Levitov, MD Principle Investigator, Paul Marik, MD, CO-PI.
- 2014 Research Grant from Cupron inc. \$100 000. The effect of copper-oxide linens on the risk of hospital acquired infections. A RCT. Dr Shivanjali Shankaran, PI, Paul Marik, MD CO-PI.
- 2018- Research Grnat form Baxter Healthcare Inc. \$30 000. Correlation of transpulmonary thermodilaution/continuous Pulse Contour Cardiac Output (PiCCO) monitoring to Peripheral IntraVenous Analysis (PIVA) for Predicting Volume Responsiveness and Fluid Status: A prospective study. Paul Marik, MD PI.
- 2018- Research Grant from Open Philanthropy. \$ 3 500 000. Ascorbic acid, Corticosteroids, and Thiamine in Sepsis (ACTS) trial. Michael Donnino, MD, PI, Beth Israel Deaconess Medical Center, Boston, MA. Paul Marik, MD funding coordinator and trial investigator.

## PUBLICATIONS

### *I. Publications in Peer Reviewed Journals*

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## **II. Online, Electronic and Other Publications**

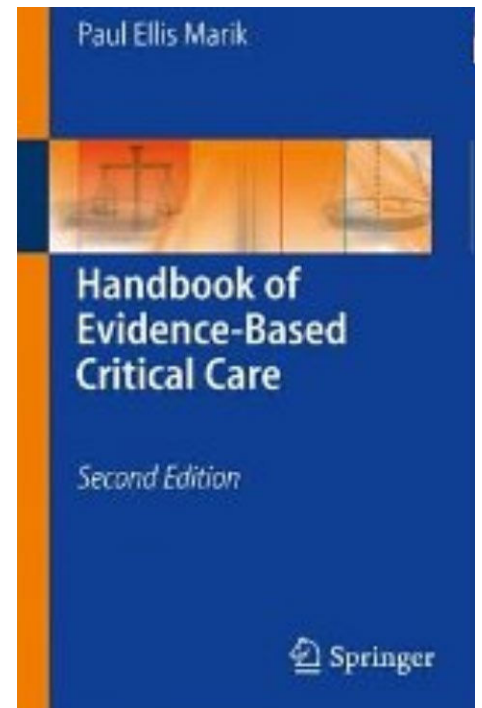
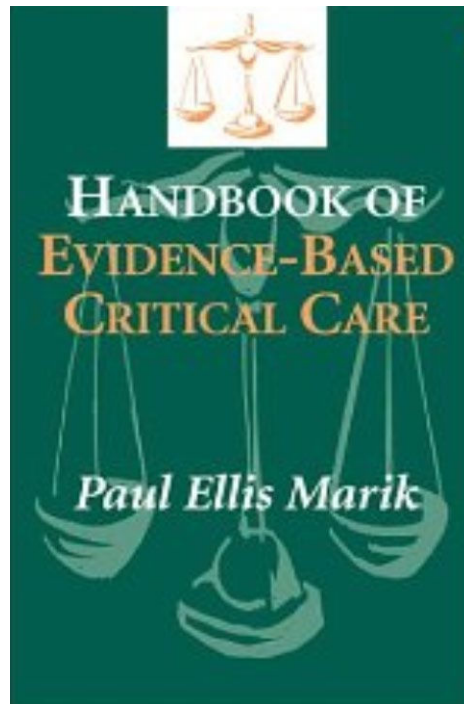
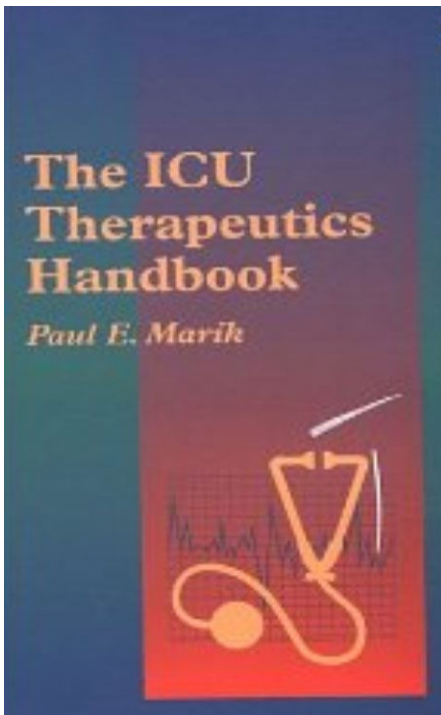
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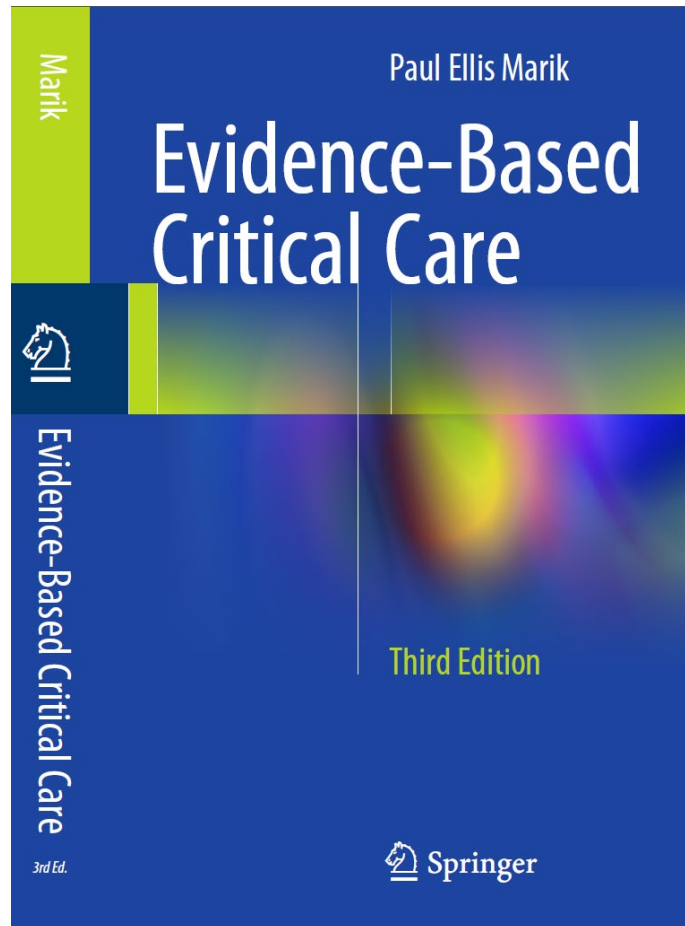
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## ***XI. Published Journal Reviews***

### **Intensive Care Monitor**

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48. Volume 19, No 3, Pg 55-56 Association of body temperature and antipyretic treatments with mortality of critically ill patients with and without sepsis: multi-centered prospective observational study. Egi et al. Crit Care 2012; 16: R33
49. Volume 19, No 3, Pg 41-41. Editorial. Fluid resuscitation in sepsis. The path to the holy grail.
50. Volume 19, No 4. Pg 65-66. Assessment of hemodynamic efficacy and safety of 6% hydroxyethyl starch 130/0.4 versus NaCl fluid replacement in patients with severe sepsis: The CRYSTMAS study. Guidet B, et al. Crit Care 2012;16 R94.
51. Volume 19, No 5. Pg98-99. Effectiveness and safety of drotrecogin alfa (activated) for severe sepsis: a meta-analysis and meta-regression. Kalil AC, LaRosa SP. Lancet Infectious Dis 2012;12:678-86.
52. Vol2 20, No 2, Page 26-26. Hydroxyethyl starch or saline for fluid resuscitation in intensive care. Myburg JA et al NEJM 2012;367:1901-1911.
53. Volume 20, No 3, pg 46-48 Effect of daily chlorhexidine bathing on hospital-acquired infection. Climo et al. N. ENgl J Med 2013; 368:533-542
54. Volume 20, No 3, Page 41-42. Editorial. Ringer's Lite: A rational approach to fluid resuscitation of severe sepsis and septic shock.
55. Volume 20, No 3, Page 58-59. Procalcitonin as a diagnostic marker for sepsis: a systematic review and meta-analysis. Wacker C, Prkno A, Brunkhorst FM, Schlattmann P. Lancet Inf Dis 2013; 13:426
55. Volume 20, No 4, Page 77-78. Effect of selective decontamination on antimicrobial resistance in intensive care units: a systematic review and meta-analysis. Daneman N, et al. Lancet 2013
56. Volume 20, No 4 Page 62-63. Targeted versus universal decolonization to prevent ICU infections. Huang SS, et al. NEJM 2013
57. Volume 20, No 5, Page 98-99. Recombinant human activated protein C for adults with septic shock. A randomized controlled trial. Annane D, et al. Am J Resp Crit Care Med 2013;187: 1091
58. Volume 20, No 6. Effect of Eritoran, an antagonist of MD2-TLR4, on mortality in patients with severe sepsis. The ACCESS randomized trial. Opal SM, et al. JAMA 2013;309;1154-1162.
59. Volume 20, No 7. Universal glove and gown use and acquisition of antibiotic-resistant bacteria in the ICU. A randomized trial. Harris AD, et al. JAMA 2013

60. Volume 21, No 1. Perioperative goal-directed hemodynamic therapy based on radial arterial pulse pressure variation and continuous cardiac index trending reduces postoperative complications after major surgery: a multi-center, prospective randomized study. Salzwedel C et al. Crit Care 2013;17:R191
61. Volume 21, No 2. Interventions to reduce colonization and transmission of antimicrobial-resistant bacteria in intensive care units: an interrupted time series study and cluster randomized trial. Derde et al. Lancet Infect Dis 2013.
62. Volume 21, No 2, Page 29-30. Jugular versus femoral short-term catheterization and risk of infection in intensive care unit patients. Causal analysis of two randomized trials. Timset JF. AJRCCM 2013;18:1232-1239
63. Volume 21, No 3, May/June 2014, page 43-44. Health Care-Associated infections. A meta-analysis of costs and financial impact of the US Health Care System. Zimlichman E, et al JAMA Intern Med 2013; 173:2039
64. Volume 21, No 3, May/June 2014, page 54-55. High versus Low Blood-Pressure Target in Patients with Septic Shock. N Engl J Med 2014; 370:1583-1593.
65. Volume 21, No 3, May/June 2014, page 55-57. Albumin replacement in patients with severe sepsis or septic shock. Caironi P, et al. N Engl J Med 2014; 370:1412-1421
66. Volume 21, No 3, May/June 2014, page 57-59. A Randomized Trial of Protocol-Based Care for Early Septic Shock .The ProCESS Investigators. New Engl J Med 2014; 370:1683-1693.
67. Volume 21, No 4, July/August 2014, pages 62-63. Cardiac complications associated with goal-directed therapy in high-risk surgical patients: a meta-analysis. Arulkumaran N et al. Br J Anaesth 2014, 112, 648-659.
68. Volume 21, No 5. Sept/Oct 2014, Page 94-95. Pearse RM et al. Effect of a perioperative, cardiac output-guided hemodynamic therapy algorithm on outcomes following major gastrointestinal surgery. A randomized clinical trial and systematic review. JAMA 2014; 311:2181-2190
69. Volume 21, No 5. Sept/Oct 2014, Pg 97-98. Patel A., Laffan MA, Waheed U, Brett SJ. Randomised trials of human albumin for adults with sepsis: systematic review and meta-analysis with trial sequential analysis of all-cause mortality. BMJ 2014;349:g4561
70. Volume 21, No 5. Sept/Oct 2014. Page 81. Editorial. Humans are not yeast and rarely become anaerobic.
71. Volume 21, No 6, November/December 2014, Page 18-19. Goal directed resuscitation for patients with early septic shock. N Engl J Med 2014; 371:1496-1506
72. Volume 22, No1, January/February 2015, Pg 15-16. Fluid resuscitation in sepsis. A systematic review and network meta-analysis. Ann Intern Med 2014; 161:347-355.
73. Volume 22, No 3. May/June 2015, pg 41. Editorial. The end-of the road for EGDT.
75. Volume 22, No 3. May/June 2015, Page 56-57. The End of goal direct therapy. Trial of Early, Goal-Directed Resuscitation for Septic Shock. Mouncey PR, et al. N Engl J Med 2015;372:1301-11.
76. Volume 22, No 4, July/August 2015, Pg 76-77. Systemic inflammatory response syndrome criteria in defining severe sepsis. Kuukonen et al. N Engl J Med 2015.

77. Volume 22, No 5. Sept/October 2015, Pg 97-98. Vasopressors for the treatment of septic shock: Systematic review and meta-analysis. Avni T. et al. Plos One 2015.
78. Volume 22, No 6 Nov/December 2015, pg 118-119. Determining the Ideal Strategy for Ventilator-associated Pneumonia Prevention: Cost–Benefit Analysis. Branch-Elliman W et al. AJRCCM 2015.
79. Volume 23, no 1, Jan/Feb 2016, pg 4-5. Decrease in pulse pressure and stroke volume variations after mini-fluid challenge accurately predicts fluid responsiveness. Mallet J. Br J Anesth 2015; 115:449.
80. Volume 23, No 2. March/April 2016, pg 23-24. Pharmacodynamic analysis of a fluid challenge. Aya HD et al. Crit Care Med 2015
81. Volume 23, No 3, May/June 2016. Pg57-58. Effect of early goal-directed therapy on mortality in patients with severe sepsis and septic shock: a meta-analysis of randomised controlled trials. BMJ Open, Yu et al.
82. Volume 23, No 6, Nov/Dec 2016, Pg 118-119. Incidence, risk factors and attributable mortality of secondary infections in the intensive care unit after admission for sepsis. Van Vught et al. JAMA 2016.
83. Volume 23, No 6, Nov/Dec 2016, Pg114-115. Effect of Early Vasopressin vs Norepinephrine on Kidney Failure in Patients with Septic Shock. The VANISH Randomized Clinical Trial. Gordon AC et al. JAMA 2016

## **XII. Lectures at National and International Meetings and Invited Grand Rounds.**

1. The pharmacokinetics of amikacin in critically ill adult and paediatric patients: Comparison of once- versus twice daily dosing regimens. Once Daily Aminoglycoside Symposium, Malaga, Spain. Sponsored by Bristol-Myers Squibb, 1990.
2. Once- versus twice-daily amikacin dosing in critically ill patients. A randomized controlled study. 17th International Conference of Chemotherapy, Berlin, 1991.
3. Blood Replacement Therapy. Detroit Critical Care Mini-Symposium. September 1992.
4. Oxygen Delivery and Consumption, Surgical Critical Care Conference, Wayne State University, November 1993.
5. Ventilator Associated Pneumonia, Michigan Critical Care Society, May 1993.
6. Ventilator Associated Pneumonia. Surgical Critical Care Conference, Wayne State University, November 1993.
7. Sedation and Analgesia in the ICU, Bridgeport Hospital, Visiting Professor, Yale Medical School, August 1996.
8. Fluid Resuscitation, Houston Critical Care Society, Houston, Texas, July 1997.
9. Pulmonary Artery Controversy and The Sepsis Trials, University of Texas Medical Center, Visiting Professor, July 1997.
10. Pulmonary Artery Controversy and The Sepsis Trials, Society of Critical Care Medicine Controversy Conference, Boston, September 1997.
11. Total Splanchnic Resuscitation, SIRS, and MODS. New England Chapter ACCP, September 1998.
12. Sedation of Critically Ill Patients. Symposium Sponsored by John Hopkins University School of Medicine, at the American College of Chest Physicians Annual Symposium, Toronto, Canada, November 10<sup>th</sup> 1998.
13. Assessing left ventricular function at the bedside. Society of Critical Care Medicine 28<sup>th</sup> Educational and Scientific Symposium, Moscone Center, San Francisco, January 23 1999.
14. Surfing the web for Evidence Based Medicine. Society of Critical Care Medicine 29<sup>th</sup> Educational and Scientific Symposium, Orange County Convention Center, Orlando, February 11<sup>th</sup> - 15<sup>th</sup> 2000.
15. Ventilator Associated Pneumonia. Houston Critical care Society, Houston, TX, April 12<sup>th</sup> 2000.
16. Influenza-associated pneumonia. 66<sup>th</sup> Annual International Scientific Assembly of the American College of Chest Physicians, San Francisco, October 22, 2000.
17. Fluid Resuscitation. Pittsburgh Medical Center, Pittsburgh, Emergency Medicine Grand Rounds, January 5<sup>th</sup> 2001.
18. Anemia in the ICU. St Francis Medical Center, Pittsburgh, Medical Grand Rounds, May 30<sup>th</sup> 2001.
19. Anemia in the ICU, Naples Medical Center, Naples, FL, Medical Grand Rounds, July 26<sup>th</sup> 2001.
20. Tissue Oxygenation. Case Western and University Hospital, Cleveland, OH. Critical Care Grand Rounds. August 10<sup>th</sup> 2001.

21. Blood: The good the bad and the Ugly. Methodist Hospital, Houston, TX. Critical Care Grand Rounds, August 30<sup>th</sup> 2001.
22. Aspiration pneumonia and aspiration pneumonitis. Medical Grand Rounds, St Joseph Hospital, South Bend, IN, September 5<sup>th</sup> 2001.
23. Blood the Good the bad and the Ugly. Rush Presbyterian St Luke's Hospital, Chicago, IL. Medical Grand Rounds, September 25<sup>th</sup> 2001.
24. Tissue Oxygenation. Rush Presbyterian St Luke's Hospital, Chicago, IL. Critical Care Grand Rounds, September 25<sup>th</sup> 2001.
25. Blood transfusion.. North Shore University Hospital, Long Island, NY. Grand Rounds, October 17<sup>th</sup> 2001.
26. Blood and oxygen transport. Greenville Memorial Hospital, Greenville, SC. Medical Grand Rounds. October 27<sup>th</sup> 2001.
27. Therapeutic and Diagnostic Aspects of Community and Ventilator Associated Pneumonia. Current Issue in the Management of Critically ill Patients, Mini-symposium presented by University of Southern California,, Omni William Penn Hotel, Pittsburgh, November 17, 2001.
28. Management of Anemia in the ICU. Walter Reed Army Hospital, Washington, DC, Medical Grand Rounds, December 4<sup>th</sup> 2001.
29. Management of Anemia in the ICU. Flushing Medical Center, NY. Medical Grand Rounds, 8<sup>th</sup> January 2002.
30. Obesity in the Critically Ill. 31<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, January 28<sup>th</sup> 2002.
31. Moderator of Session; Obesity in the Critically Ill. 31<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, January 28<sup>th</sup> 2002.
32. Fever in the ICU. Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference, 21 - 24 February 2002.
33. Sepsis; Round Table Discussion, Moderator, Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
34. Blood Transfusion in the ICU. Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
35. Diagnosis and management of VAP, Round Table Discussion, Moderator, Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
36. MODS, Round Table Discussion, Participant, Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
38. Tissue oxygenation. Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
39. Death by Pulmonary Artery Catheterization. Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
40. Aspiration Pneumonia and Pneumonitis, Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
41. Nutritional Support in the ICU, Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002



42. Adrenal Insufficiency in the ICU, Congreso Ecuatoriano De Medicina Critica (Ecuadorian International Critical Care Conference), 21 - 24 February 2002.
43. Adrenal Insufficiency in the ICU, 16<sup>th</sup> Annual Critical Care Symposium, Susquehanna Health System, Williamsport Hospital, May 10<sup>th</sup> 2002.
44. Nutritional Support in the ICU, 16<sup>th</sup> Annual Critical Care Symposium, Susquehanna Health System, Williamsport Hospital, May 10<sup>th</sup> 2002.
45. Sepsis: State-of-the-Art. American College of Physicians, 4<sup>th</sup> Annual Lower Shore Symposium; Dewey Beach Delaware, May 18<sup>th</sup> 2002.
46. Risks and benefits of blood transfusion. Medical Grand Rounds, St Claire Hospital, New York, NY. July 19<sup>th</sup> 2002.
47. Adrenal Failure in the ICU. Critical Care Grand Rounds, George Washington University, Washington DC, September 9<sup>th</sup> 2002.
48. Blood transfusion in the ICU. Washington Chapter of American Thoracic Society, Annual Quarterly Meeting, Washington DC, September 9<sup>th</sup> 2002.
49. Sepsis State of the Art; University of Pretoria and Elly-Lilly, Pretoria, South Africa, International speaker for launch of Xigris in South Africa, October 7<sup>th</sup> 2002.
50. Sepsis State of the Art; University of Cape Town, Cape Town, South Africa. International speaker for launch of Xigris in South Africa. October 8<sup>th</sup> 2002.
51. Sepsis State of the Art; University of Witwatersrand and Elly-Lilly, Johannesburg, South Africa. International speaker for launch of Xigris in South Africa, October 9<sup>th</sup> 2002.
52. Aspiration Pneumonia and pneumonitis. University of Pittsburgh Medical Center, McKeesport, PA. Medical Grand Rounds, October 22<sup>nd</sup> 2002.
53. Adrenal insufficiency in critical illness. Plenary Session. American College of Chest Physicians, Annual Conference, San Diego, CA, November 6<sup>th</sup> 2002.
54. Early Goal Directed Therapy for Septic Shock. American College of Chest Physicians, Annual Conference, San Diego, CA, November 6<sup>th</sup> 2002.
55. Adrenal insufficiency in critical illness. Critical Care Grand Rounds University of Pittsburgh, 27<sup>th</sup> November 2002.
56. Adrenal insufficiency in critical illness. Anesthesia Grand Rounds University of Pittsburgh, 12<sup>th</sup> December 2002.
57. Blood: the good the bad and the ugly. Critical Care Grand Rounds University of Pittsburgh, 15<sup>th</sup> January 2003.
58. Management of the hypoperfused patient. Sublingual CO<sub>2</sub> and pulse oximetry. 32<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, San Antonio, TX, January 28<sup>th</sup> - February 2, 2003.
59. Empiric treatment of VAP. 32<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, San Antonio, TX, January 28<sup>th</sup> - February 2, 2003.
60. Is it necessary to provide coverage against obligate anaerobes. 32<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, San Antonio, TX, January 28<sup>th</sup> - February 2, 2003.
61. Controversies in head injury. 32<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, San Antonio, TX, January 28<sup>th</sup> - February 2, 2003.
62. Monitoring in the ICU. 32<sup>st</sup> Annual Congress of the Society of Critical Care Medicine, San Antonio, TX, January 28<sup>th</sup> - February 2, 2003.

63. Blood: the good the bad and the ugly. Thomas Jefferson University, Philadelphia, PA. Medial Grand Rounds, February 7<sup>th</sup> 2003.
64. Adrenal failure in the critically ill. Thomas Jefferson University, Philadelphia, PA. Critical Care Grand Rounds, February 7<sup>th</sup>, 2003.
65. Adrenal failure in the critically ill. Akron General Medical Center, Medical Grand Rounds, March 5 2003.
66. Assessment of tissue oxygenation. University of Pittsburgh Medical Center, Emergency Medicine Grand Rounds, March 6 2003.
67. Adrenal Failure in the ICU. University of Cleveland and MetroHelath Medical Center. Medicine Grand Rounds. April 10<sup>th</sup> 2003.
68. The risks of blood transfusion in the ICU. University of Cleveland and MetroHealth Medical Center. Critical Care Grand Rounds. April 11<sup>th</sup> 2003.
69. Blood transfusion in the critically Ill. Mercy Hospital Medical Center. Medicine Grand Rounds. April 10<sup>th</sup> 2003.
70. Blood transfusion in the critically Ill. University of West Virginia, Morgantown, Medical Grand Rounds, April 15 2003.
71. Sepsis: Pathophysiology. ACCP First critical Care Fellows Sepsis Conference, Ft Lauderdale, Florida, 26-27 April 2003.
72. Adrenal and insulin replacement in sepsis. ACCP First critical Care Fellows Sepsis Conference, Ft Lauderdale, Florida, 26-27 April 2003.
73. Role of blood transfusions and blood conservation in the ICU, Susquehanna Health System Critical Care Symposium, Williamsport, PA, May 30<sup>th</sup> 2003.
74. Death by TPN. University of South Carolina at Columbia, Medical Grand Rounds, June 23<sup>rd</sup> 2003.
75. Blood transfusion in the critically ill. University of Wisconsin Medical School, Medical Grand Rounds, September 8<sup>th</sup> 2003.
76. Adrenal failure in the ICU. University of Wisconsin Medical School, Critical Care Grand Rounds, September 8<sup>th</sup> 2003.
77. Fluid resuscitation in sepsis. The 8th World Congress of Veterinary Anesthesia, Knoxville, TN, September 16-20, 2003.
78. Sepsis: State of the Art. American College of Chest Physicians New England States Chapter and UMASS Memorial Medical Center Conference. Worcester MA, October 8th 2003.
79. Risks and benefits of blood transfusion in the critically ill. American College of Chest Physicians New England States Chapter and UMASS Memorial Medical Center Conference. Worcester MA, October 8<sup>th</sup> 2003.
80. Blood transfusion in the trauma patient. 9th Annual Trends in Trauma Conference. Barnes Jewish Hospital. St Louis Science Center, St Louis, MI, October 10<sup>th</sup> 2003.
81. Aspiration pneumonia and pneumonitis revisited. American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2003, Orlando, FL Oct 25-28 2003.
82. Vasoactive Therapy Symposium. Treatment of Hypertensive Crisis. American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2003, Orlando, FL Oct 25-28, 2003.

83. Fluid resuscitation n sepsis. Rush-Presbyterian Medical Center, Chicago, Medical Grand Rounds, November 12<sup>th</sup>, 2003.
84. Adrenal failure in the critically ill. American Thoracic Society Chicago Chapter Meeting, Chicago, November 12<sup>th</sup>, 2003.
85. Management of anemia in the ICU. American Association of Critical Care Nursing Ohio Conference, Cincinnati, OH, November 13<sup>th</sup> 2003.
86. The management of aspiration pneumonia and pneumonitis. American Speech-Language-Hearing Association National Convention, Chicago, November 14-15, 2003.
87. Diagnosis of adrenal failure in sepsis. Society of Critical Care Medicine 33<sup>rd</sup> Critical Care Congress, Orlando, FL, February 21-25, 2004
88. Hand Carried Ultrasound in the ICU. Society of Critical Care Medicine 33<sup>rd</sup> Critical Care Congress, Orlando, FL, February 21-25, 2004.
89. Fluid resuscitation: Aggressive vs conventional. 2nd Fellows Conference on Critical Care and Sepsis. Marco Island, FL, March 13-14, 2004.
90. Adrenal failure and glycemic control in sepsis. 2nd Fellows Conference on Critical Care and Sepsis. Marco Island, FL, March 13-14, 2004.
91. Vasoactive therapy in the Critically ill. Emergency Medicine Grand Rounds, St Lukes Hospital, Bethlehem, PA, April 8<sup>th</sup>, 2004.
92. Vasoactive therapy in the Critically ill. Emergency Medicine Grand Rounds. Lehigh Valley Hospital, Lehigh Valley, PA, April 8<sup>th</sup> 2004.
93. Blood: The good, the Bad and the Ugly. Medical Grand Rounds, Bryn Mawr Hospital, Bryn Mawr, PA , April 22<sup>nd</sup> 2004.
94. Blood: The good, the Bad and the Ugly. Medical Grand Rounds, Lankenau Hospital, Wynnewood, PA, April 23<sup>rd</sup> 2004.
95. Sepsis: Management during the golden Hours. Walter Reed Medical Center, Washington DC, Grand Rounds, September 7<sup>th</sup> 2004.
96. Steroids in Sepsis. Pennsylvania Thoracic Society, Pittsburgh, PA, September 10<sup>th</sup> 2004.
97. Death by TPN. 30<sup>th</sup> Annual Scientific Meeting, Australian and New Zealand Intensive Care Society, Melbourne, October 8-10, 2004
98. Adrenal failure in the ICU. 30<sup>th</sup> Annual Scientific Meeting, Australian and New Zealand Intensive Care Society, Melbourne, October 8-10, 2004.
99. Anemia, allogenic blood transfusion and immunomodulation.30<sup>th</sup> Annual Scientific Meeting, Australian and New Zealand Intensive Care Society, Melbourne, October 8-10, 2004.
100. The metabolic response to stress: Modualtion by insulin and diet.30<sup>th</sup> Annual Scientific Meeting, Australian and New Zealand Intensive Care Society, Melbourne, October 8-10 2004.
101. Using Sublingual Capnometry to Guide Resuscitation. 4<sup>th</sup> Annual Hobert Trauma Symposium, Methodist Medical Center, Dallas, October 16<sup>th</sup> 2004.
102. Adrenal failure in the ICU: Pathogenetic mechanisms and implications for treatment. American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2004, Seattle, WA, Oct 25-28.

103. Hypertensive crisis. Current Issues in Surgical Anesthesia-Crisis Management. Cleveland Clinic Course. Naples, FL, November 16<sup>th</sup> 2004.
104. Sepsis: Management during the golden hours. Medical Grand Rounds, Thomas Jefferson University, December 16<sup>th</sup>, 2004.
105. Pathophysiology of adrenal failure in sepsis and liver disease. Society of Critical Care Medicine 34<sup>th</sup> Critical Care Congress, Phoenix, AZ, January 15-18 2005.
106. Does the age of blood matter? Society of Critical Care Medicine 34<sup>th</sup> Critical Care Congress, Phoenix, AZ, January 15-18 2005.
107. Antibiotic coated central venous catheters. Pro-Con debate. Society of Critical Care Medicine 34<sup>th</sup> Critical Care Congress, Phoenix, AZ, January 15-18 2005.
108. Vasoactive therapy in the critically ill patient. Lankenau Hospital, Medical Grand Rounds, January 21<sup>st</sup>, 2005
109. The stress response and modulation by insulin and diet. ASPEN, Clinical Nutrition Week, Orlando, FL, January 29, 2005
110. Sepsis and metabolism: Monitoring response to treatment. ASPEN, Clinical Nutrition Week, Orlando, FL, January 30, 2005
111. Stress hyperglycemia, insulin and immunomodulation in sepsis. 10<sup>th</sup> Annual International Conference on Continuous Renal Replacement Therapies, San Diego, March 10-12, 2005
112. Nutritional Support in the Critically ill. How much is enough. 10<sup>th</sup> Annual International Conference on Continuous Renal Replacement Therapies, San Diego, March 10-12, 2005
113. Nutritional assessment and support 1. 10<sup>th</sup> Annual International Conference on Continuous Renal Replacement Therapies, San Diego, March 10-12, 2005
114. Nutritional assessment and support. Workshop. 10<sup>th</sup> Annual International Conference on Continuous Renal Replacement Therapies, San Diego, March 10-12, 2005
115. Sepsis: Management during the golden hours. Anesthesia Grand Rounds, Thomas Jefferson University, March 24<sup>th</sup> 2005
116. Sepsis: Management during the golden hours. Medical Grand Rounds. Lakewood Hospital, Cleveland, March 30<sup>th</sup> 2005
117. Fluid management in sepsis. ACCP 3<sup>rd</sup> Fellows Conference on Critical Care and Sepsis. Hilton Head, SC, April 9<sup>th</sup> 2005.
118. Endocrine Issues in Critical Care. ACCP 3<sup>rd</sup> Fellows Conference on Critical Care and Sepsis. Hilton Head, SC, April 9<sup>th</sup> 2005.
120. Nutritional support in the Critically ill. Surgical Grand Rounds. St Josephs Hospital, Pontiac, Michigan, April 18<sup>th</sup> 2005.
121. Nutritional support in the Critically ill. Medical Grand Rounds. St Josephs Hospital, Pontiac, Michigan, April 18<sup>th</sup> 2005.
122. Nutritional support in the Critically ill. Surgical Grand Rounds. William Beaumont Hospital, Detroit, Michigan, April 19<sup>th</sup> 2005
123. Vasoactive therapy in the ICU. Cleveland University Hospital, Cleveland, OH, Surgery Grand rounds, April 29<sup>th</sup> 2005.
124. Management of hypertensive crisis. COPICON 2005, South African Critical Care society Meeting, Sun City, July 22-26 2005.

125. Hand-held ECHO in the ICU. COPICON 2005, South African Critical Care society Meeting, Sun City, July 22-26 2005.
126. Adrenal failure in the ICU. COPICON 2005, South African Critical Care society Meeting, Sun City, July 22-26 2005.
127. Blood: The good, the bad, and the ugly. COPICON 2005, South African Critical Care society Meeting, Sun City, July 22-26 2005.
128. The Microcirculation in sepsis; The role of NO. COPICON 2005, South African Critical Care society Meeting, Sun City, July 22-26 2005.
129. Feeding the hemodynamically unstable patient. Contemporary topics in Critical Care Nutrition. Michigan society for Parenteral and enteral Nutrition, Detroit, September 15, 2005.
130. Role of immunomodulating diets in the critically ill. Contemporary topics in Critical Care Nutrition. Michigan society for Parenteral and enteral Nutrition, Detroit, September 15, 2005.
131. Nutrition in the critically ill patient. Medical Grand rounds, Sparrow Hospital, Lansing, MI, September 14, 2005.
132. Nutrition in the critically ill patient. Medical Grand Rounds, Mount Clemens General Hospital, Mount Clemens, Michigan, September 16, 2005.
133. Critical Illness Related Corticoid Insufficiency. Medical Grand Rounds, Albert Einstein Hospital, Philadelphia, PA, October 14<sup>th</sup>, 2005.
134. ARDS, American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2005, Montreal, Quebec, Canada, October 26-November 2<sup>nd</sup>, 2005.
135. De-escalation Therapy: Current Concepts in the Management of Serious Bacterial Infections, American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2005, Montreal, Quebec, Canada, October 26-November 2<sup>nd</sup>, 2005.
136. Bedside Ultrasound, American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2005, Montreal, Quebec, Canada, October 26-November 2<sup>nd</sup>, 2005.
137. Early enteral nutrition, American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2005, Montreal, Quebec, Canada, October 26-November 2<sup>nd</sup>, 2005.
138. Hypertensive crisis, American College of Chest Physicians (ACCP) Annual Meeting, CHEST 2005, Montreal, Quebec, Canada, October 26-November 2<sup>nd</sup>, 2005.
139. Pulmonary embolism in the ICU: Diagnosis and management. Community Medical Center Health Care system's Critical Care Symposium, Scranton, PA, November 12, 2005.
140. The microcirculation is the motor of sepsis. Critical care Grand Rounds, North Shore and Jewish Medical Center, Long Island, NY, November 30, 2005
141. De-escalation Therapy: Current Concepts in the Management of Serious Bacterial Infections, St Francis Medical Center, Wilmington, DE December 12, 2005.
142. Hand held ultrasound. Society of Critical Care Medicine 35<sup>th</sup> Critical Care Congress, San Francisco, CA, January 7-11, 2006.
143. The microcirculation is the motor of sepsis. Critical Care Grand Rounds. Hahnemann Hospital, Philadelphia, PA, January 13, 2006.

144. The microcirculation is the motor of sepsis. University of Pennsylvania Veterinary Hospital, Philadelphia, PA, February 2, 2006.
145. Sepsis: The Golden hours. Atlantic City Medical Center, Atlantic City, NJ, Medical Grand Rounds, February 13<sup>th</sup>, 2006.
146. The microcirculation is the motor of sepsis. Mount Sinai Medical Center, NY, NY, Critical Care Grand Rounds, February 16<sup>th</sup> 2006.
147. Management of sepsis. Christina Hospital, Wilmington, DE. Surgical Critical Care grand rounds. March 3<sup>rd</sup> 2006.
148. Fluid management in sepsis. ACCP 4<sup>th</sup> Fellows Conference on Critical Care and Sepsis. Tuscon, AZ, March 23, 2006.
149. Endocrine Issues in Critical Care. ACCP 4<sup>th</sup> Fellows Conference on Critical Care and Sepsis. Tuscon, AZ, March 23, 2006.
150. Blood: The good, the Bad and the Ugly. Medical grand Rounds. University of Pennsylvania, Philadelphia, April 25<sup>th</sup> 2006.
151. Controversies in Nutritional support in the ICU. Nutrition Support Grand Rounds. University of Pennsylvania, Philadelphia, April 26<sup>th</sup> 2006.
152. The microcirculation is the motor of sepsis. Critical Care Grand rounds, Hershey Medical Center; Hershey PA, May 12<sup>th</sup> 2006.
153. The microcirculation is the motor of sepsis. Critical Care Grand rounds, University of West Virginia, Morgantown, WV, May 16<sup>th</sup> 2006.
154. Sepsis: Pathophysiology. 25<sup>th</sup> Annual Sysquehanna Health System Critical Care Conference, Williamsport, PA, June 9, 2006
155. Sepsis: Management. 25<sup>th</sup> Annual Sysquehanna Health System Critical Care Conference, Williamsport, PA, June 9, 2006.
156. Steroids in sepsis. Pulmonary/Critical; Care Grand Rounds, University of Tennessee, Memphis, October 18<sup>th</sup>, 2006.
157. Transfusion in the cardiac patient. American College of Chest Physicians, Annual Meeting, Salt Lake City, Utah, October 21 October 26, 2006.
158. Adrenal insufficiency in the critically ill. American College of Chest Physicians, Annual Meeting, Salt Lake City, Utah, October 21 October 26, 2006.
159. Evolving therapies for hypertensive crises. A broad view of malpractice in the US. American College of Chest Physicians, Annual Meeting, Salt Lake City, Utah, October 21 October 26, 2006.
160. Death by blood transfusion. American College of Chest Physicians, Annual Meeting, Salt Lake City, Utah, October 21 October 26, 2006.
161. Corticosteroids for sepsis. American College of Chest Physicians, Annual Meeting, Salt Lake City, Utah, October 21 October 26, 2006.
162. Initial diagnostic approach to patients with hypertensive urgencies and emergencies. American Heart Association, Chicago, IL, November 12-15, 2006.
163. Death by TPN. Medical grand Rounds, Reading Hospital, Reading PA, January 3<sup>rd</sup>, 2007.
164. Management of sepsis during the golden hours. Geisinger Hospital and Medical Center. Medical Grand Rounds, Geisinger, Danville, PA, January 26, 2007.

165. Adrenal insufficiency in critical illness. Society of Critical Care Medicine's 36<sup>th</sup> Annual Critical Care Congress, Orlando, FL, Feb 17-21, 2007
166. Death by blood transfusion. Society of Critical Care Medicine's 36<sup>th</sup> Annual Critical Care Congress, Orlando, FL, Feb 17-21, 2007.
167. Nutritional support in the critically ill. Abbington Hospital Medical Grand Rounds. Abbington, PA, February 28<sup>th</sup>, 2007.
168. Management of traumatic head injury. I Curso de Neuromonitoreo en Terapia Intensiva, San Jose, Costa Rico, Universidad de Iberoamerica, April 10, 2007
169. Status Epilepticus. Management of traumatic head injury. I Curso de Neuromonitoreo en Terapia Intensiva, San Jose, Costa Rico, Universidad de Iberoamerica, April 10, 2007
170. Glycemic control in the ICU. ACCP 5<sup>th</sup> Fellows Conference on Critical Care and Sepsis. Marco Island, April 12, 2007.
171. Assessment of adrenal function in the ICU. ACCP 5<sup>th</sup> Fellows Conference on Critical Care and Sepsis. Marco Island, April 12, 2007.
172. Update on enteral and parenteral nutrition. St Margaret Mercy, Medical Grand rounds, Hammond, Indiana, July 26, 2007.
173. Critical Care Nutrition. Texas Health and Methodist Hospital Critical Care Conference, Fort worth Texas, September 13<sup>th</sup>, 2007.
174. Literature update. American College of Chest Physicians, Annual Meeting, Chicago, October 21-24, 2007.
175. Steroids in Sepsis. American College of Chest Physicians, Annual Meeting, Chicago, October 21-24, 2007.
176. Steroids in ARDS. American College of Chest Physicians, Annual Meeting, Chicago, October 21-24, 2007.
177. Steroids. What the future holds. American College of Chest Physicians, Annual Meeting, Chicago, October 21-24, 2007.
178. Hypertensive Crisis: Evolving trends. American College of Chest Physicians, Annual Meeting, Chicago, October 21-24, 2007
178. Pulmonary Embolism: The Silent Killer. Chamberburg Hospital Medical Grand Rounds, Chamberburg PA, February 1<sup>st</sup> 2008.
180. Management of Hypertension in Neurological Emergencies. Society of Critical Care Medicine's 37<sup>th</sup> Annual Critical Care Congress, Honolulu, Hawaii, February 2-5 2008.
181. Pulmonary thromboembolism. Best Practice in Primary Care (2 day conference). St Louis, MO, February 8<sup>th</sup> 2008.
181. Management of sepsis in the Golden 6 hours. Medical Grand Rounds, Rex Hospital, Raleigh, NC, February 12<sup>th</sup> 2008.
182. The microcirculation is the motor of sepsis. Surgical grand rounds; University of Minnesota, Minneapolis, April 1<sup>st</sup>, 2008.
183. Nutrition support in the ICU. Critical Care Grand Rounds, Memorial Sloan Kettering Cancer Center, New York, April 9<sup>th</sup> 2008.
184. Critical illness related corticosteroid insufficiency. Definitions and epidemiology. 10<sup>th</sup> European Society Critical Care Meeting. Adrenal Failure in the ICU. Florence, Italy, April 18-20.

185. Critical illness related corticosteroid insufficiency. Diagnoses and treatment. 10<sup>th</sup> European Society Critical Care Meeting. Adrenal Failure in the ICU. Florence, Italy, April 18-20.
186. Bovine Blood as a bridge to blood transfusion in patients with severe auto-immune hemolytic anemia. Presentation to the FDA advisory committee, April 29<sup>th</sup> 2008, Bethesda, MD.
187. Steroids and ARDS. Medical Grand rounds, Portland University Medical Center, October 27<sup>th</sup> 2008, Portland, OR
188. Literature update. American College of Chest Physicians, Annual Meeting, Philadelphia, October 25-30, 2008.
189. Steroids in ARDS. American College of Chest Physicians, Annual Meeting, Philadelphia, October 25-30, 2008.
190. Nutrition and ARDS. American College of Chest Physicians, Annual Meeting, Philadelphia, October 25-30, 2008.
191. Diagnostic dilemmas in adrenal insufficiency. American College of Chest Physicians, Annual Meeting, Philadelphia, October 25-30, 2008.
192. The use of the CVP if fluid resuscitation. Critical Care Canada Forum, Toronto, November 11-13, 2008
193. APRV ventilation. Critical Care Canada Forum, Toronto, November 11-13, 2008
194. Steroids in ARDS. Critical Care Canada Forum, Toronto, November 11-13, 2008
195. Immunonutrition in ARDS and sepsis. Critical care Grand Rounds, Einstein Hospital, Philadelphia, PA, December 2<sup>nd</sup> 2008.
196. Sepsis in patients with liver disease. Critical Care Grand rounds, Allegheny General Hospital, Pittsburgh, PA, December 4<sup>th</sup>, 2008.
197. Management of Pulmonary Embolism. Medical Grand Rounds, East Virginia Medical School, Norfolk, VA. January 16<sup>th</sup>, 2009
198. CIRCI. Endocrine Grand Rounds, East Virginia Medical School, Norfolk, VA. January 16<sup>th</sup>, 2009
199. Chest Ultrasound in the ICU. Society of Critical Care Medicine's 38<sup>th</sup> Annual Critical Care Congress, Nashville, TN, March 1-4, 2009
200. Stress hyperglycemia; To treat or not to treat. Society of Critical Care Medicine's 38<sup>th</sup> Annual Critical Care Congress, Nashville, TN, March 1-4, 2009
201. Stress hyperglycemia; To treat or not to treat. Critical Care Grand Rounds. Main Medical Center. April 2<sup>nd</sup> 2009.
202. Stress hyperglycemia. How to treat post NICE-Sugar. Critical Care Grand Rounds, Memorial-Sloan Kettering cancer Center, NY, April 15<sup>th</sup>, 2009
203. A nutrition strategy to improve outcome in sepsis, ARDS and ALI. Medical Grand Rounds, Winthrop University Hospital, Mineola, NY, April 16<sup>th</sup>, 2009
204. Death by Blood Transfusion. Virginia Chapter of the American Respiratory Society Meeting, Virginia Beach, VA, May 19<sup>th</sup> 2010.
205. Stress hyperglycemia; an adaptive evolutionary response. Turning the tide on Diabetes. National Conference sponsored by EVMS, Virginia Beach, September 12<sup>th</sup>, 2010



206. Evidence based fluid resuscitation. SCCM Pharmacotherapy Conference, Las Vegas, NV, September 19<sup>th</sup> 2010.
207. Fluid resuscitation. Critical Care Grand Rounds, Japan Medical School Chiba, Tokyo, Japan, October 8<sup>th</sup> 2010.
208. Does the CVP predict fluid responsiveness? The 38<sup>th</sup> Annual Meeting of the Japanese Association for Acute Medicine. Tokyo, Japan, October 11<sup>th</sup> 2010.
209. Fluid resuscitation. Critical Care Grand Rounds, Hyogo Emergency Medical Center, Shin-Kobe, Japan, October 12<sup>th</sup> 2010.
210. Fluid resuscitation. Critical Care Grand Rounds, Tokyo Medical and Dental University, Tokyo, Japan, October 12<sup>th</sup> 2010.
211. Stress Hyperglycemia. Virginia Society for Parenteral and Enteral Nutrition. Wintergreen Resort, Virginia, November 5<sup>th</sup>, 2010.
212. Aspiration Pneumonia and Oral Care, 8<sup>th</sup> Annual Meet the Masters Symposium, American Speech-Language Association, Philadelphia, November 17<sup>th</sup>, 2010
213. Use of extra-vascular lung water in patient resuscitation. Society of Critical Care Medicine's 40<sup>th</sup> Annual Critical Care Congress, San Diego, CA, January 20-24<sup>th</sup> 2011.
214. Refeeding syndrome. Clinical Nutrition Week 2011, Vancouver, BC, January 29<sup>th</sup> - February 2<sup>nd</sup> 2011.
215. Evidence based medicine. Clinical Nutrition Week 2011, Vancouver, BC, 29<sup>th</sup> January – February 2<sup>nd</sup> 2011.
216. Fluid resuscitation. Thomas Iberti Memorial Lecture, Mt Sinai Medical Center, NY, NY, February 7<sup>th</sup> 2011.
217. Fluid Resuscitation. Brown Memorial Lectureship. Geisinger Medical Center, March 25<sup>th</sup> 2011.
218. Fluid resuscitation. Visiting Professor Program, Department of Anesthesiology, Mount Sinai School of Medicine, New York, May 4<sup>th</sup>
219. Fluid resuscitation, the CVP and lung water. The Critical Skills Symposium, Scarborough General Hospital, Toronto, May 7<sup>th</sup> 2011.
220. Fluid Resuscitation. Goal-Directed Therapy Symposium. Department of Anesthesiology, David Geffen School of Medicine at UCLA, Newport Beach, CA, June 4<sup>th</sup> 2011.
221. Fluid resuscitation. ISHM and SISS: International Joint Conference. International Symposium on Hemodynamics and Brain Multimodality Monitoring. Sept 2<sup>nd</sup> Seoul, Korea.
222. Corticosteroids in sepsis and head injury. ISHM and SISS: International Joint Conference. International Symposium on Hemodynamics and Brain Multimodality Monitoring. Sept 2<sup>nd</sup> 2011, Seoul, Korea.
223. Fluid resuscitation and multi-modality monitoring. Texas Health and Methodist Hospital Critical Care Conference, Fort Worth Texas, September 9<sup>th</sup>, 2011.
224. Death by blood transfusion.. Texas Health and Methodist Hospital Critical Care Conference, Fort Worth Texas, September 9<sup>th</sup>, 2011.
225. Enteral nutrition. Moses Cone Hospital, Greensbro, NC. November 15<sup>th</sup>, 2011
226. Immunonutrition. Greater Pittsburgh Association of Parenteral and enteral Nutrition. Pittsburgh, Nov 29<sup>th</sup> 2011

227. Nutrition in the Critically ill. Gastroenterology Grand Rounds. University of Pittsburgh, Pittsburgh, November 30th 2011.
228. Omega-3 fatty acids in critical illness. American Society of Enteral and Parenteral Nutrition (ASPEN) Annual Meeting, Orlando Florida, January 20<sup>th</sup>-24<sup>th</sup>, 2012
229. Immunonutrition in surgical patients. American Society of Enteral and Parenteral Nutrition (ASPEN) Annual Meeting, Orlando Florida, January 20<sup>th</sup>-24<sup>th</sup>, 2012
230. The hazards of TPN. American Society of Enteral and Parenteral Nutrition (ASPEN) Annual Meeting, Orlando Florida, January 20<sup>th</sup>-24<sup>th</sup>, 2012
231. A rational approach to fluid resuscitation. Society of Critical Care Medicine, Annual Meeting, Houston TX, Feb 4-8, 2012
232. Fluid resuscitation. The Greater New York Hospital Association, STOP Sepsis Collaborative, New York, NY, March 1<sup>st</sup>, 2012
233. Fluid resuscitation in sepsis. Advances in pulmonary and critical care medicine. Inova Fairfax Hospital, Fairfax, VA March 16<sup>th</sup> 2012.
234. Critical Care Nutrition. Mt Sinai and Detroit Medical Center, Grand Rounds, April 12<sup>th</sup> 2012.
235. Hypertension Management in acute ischemic stroke. Sentara 2012 Stroke Conference. Flounders Inn, Virginia Beach, VA, May 11<sup>th</sup> 2012.
236. Probiotics: the cure for obesity and diabetes. Turning the tide on diabetes. Strelitz Diabetes Center and EVMS. Hilton Conference Center, Virginia Beach, VA, May 12<sup>th</sup> 2012.
237. Fluid resuscitation. The Critical Skills Symposium, Montreal, Canada, 26<sup>th</sup> May, 2012.
238. Extra-vascular lung water. Montreal, Canada, 26<sup>th</sup> May, 2012.
239. Fluid resuscitation: state of the art. Henrico Doctors Hospital, Medical Grand rounds, Richmond, VA, May 29<sup>th</sup>.
240. Stress and the HPA axis. American College of Veterinary Internal Medicine (ACVIM) Annual Meeting, New Orleans, June 1, 2012
241. Critical Illness Related Corticosteroid Insufficiency, American College of Veterinary Internal Medicine (ACVIM) Annual Meeting, New Orleans, June 1, 2012
242. Fluid resuscitation in the New Millennium. The Third Annual State of the Science Symposium, June 9<sup>th</sup> 2012, Miami FL.
243. Enteral and parenteral nutrition in the critically ill. Medical Grand rounds. University Hospital, Augusta, GA, June 19<sup>th</sup> 2012
244. Fluid responsiveness. Department of Anesthesia. Naval Hospital Portsmouth, VA, September 2<sup>nd</sup> 2012
245. Hypertensive crisis: Medical Grand Rounds, Assessment and management. Sentara Process Ann Hospital, September 12<sup>th</sup> 2012.
246. Goal directed fluid therapy, American Association Anesthesiology National Meeting, Washington DC, Oct 13-15, 2012
247. Fluid resuscitation: State of the art. American Association Anesthesiology National Meeting, Washington DC, Oct 13-15, 2012
248. Nutrition in the critically ill; going beyond TPN. University of Alabama at Birmingham, Nutritional and Surgery Grand rounds, October 18<sup>th</sup>, 2012

249. Fluid resuscitation: state of the art. 21st Annual Critical Concepts Conference, Norfolk, VA. October 23<sup>rd</sup>, 2012
250. Fluid resuscitation: State of the art. Combined Emergency Medicine and Critical Care Ground Rounds. Medical College of Virginia, Richmond, VA. October 30<sup>th</sup> 2012.
251. Fluid loading and assessment in anesthesia and Intensive Care (Plenary Session). Annual Scientific Meeting in Anesthesiology 2012, Hong Kong, Hong Kong Convention Center, November 24<sup>th</sup> 2012.
252. Cardiac Output Monitoring in the ICU (Plenary Session). Hong Kong Society of Critical Care Meeting Annual Meeting, Eaton Hotel, Kowloon, 2<sup>nd</sup> December 2012.
253. Fluid responsiveness and fluid resuscitation. Baptist Hospital Miami, Anesthesiology Grand Rounds, January 16<sup>th</sup> 2013.
254. Immunonutrition. Clinical Nutrition Week (ASPEN), Phoenix AZ, Feb 1-13, 2013
254. The role of parenteral nutrition in the critically ill patient. Clinical Nutrition Week (ASPEN), Phoenix AZ, Feb 1-13, 2013.
255. Fluid responsiveness. 33<sup>rd</sup> International Symposium of Intensive Care and Emergency Medicine. Brussels, Belgium, 19<sup>th</sup> -22<sup>nd</sup> March 2013.
256. The benefits of early enteral nutrition. 33<sup>rd</sup> International Symposium of Intensive Care and Emergency Medicine. Brussels, Belgium, 19<sup>th</sup> -22<sup>nd</sup> March 2013
257. Death by blood transfusion. 33<sup>rd</sup> International Symposium of Intensive Care and Emergency Medicine. Brussels, Belgium, 19<sup>th</sup> -22<sup>nd</sup> March 2013
258. Blood transfusions in the septic patient. NATA International Conference, Vienna, Austria, April 17-18, 2013.
259. Techniques of hemodynamic assessment in the critically ill. NATA International Conference, Vienna, Austria, April 17-18, 2013.
260. Dartmouth-Hitchcock Medical Center, Lebanon, NH, Visiting Professor. Anesthesia Grand Rounds, Assessing Fluid Responsiveness. May 9-10, 2013
261. Dartmouth-Hitchcock Medical Center, Lebanon, NH, Visiting Professor. Anesthesia Grand Rounds, Which Fluid? May 9-10, 2013
262. Dartmouth-Hitchcock Medical Center, Lebanon, NH, Visiting Professor. Medical Grand Rounds, Assessing Fluid Responsiveness. May 9-10, 2013
263. Why should we predict fluid responsiveness. 3<sup>rd</sup> Paris International Conference on Intensive Care. Advances in Hemodynamics. Paris, June 6-7<sup>th</sup>, 2013
264. My fluid of choice in sepsis. Thai Society of Critical Care Medicine Annual Conference, All About Shock, June 27-29, 2013, Pattaya, Thailand
265. Assessing fluid responsiveness vs. old fashioned pressure parameters. Thai Society of Critical Care Medicine Annual Conference, All About Shock, June 27-29, 2013, Pattaya, Thailand.
266. Updates in cardiac output monitoring. Thai Society of Critical Care Medicine Annual Conference, All About Shock, June 27-29, 2013, Pattaya, Thailand
267. Blood transfusion. Thai Society of Critical Care Medicine Annual Conference, All About Shock, June 27-29, 2013, Pattaya, Thailand
268. Techniques for hemodynamic assessment. Chesapeake General Hospital, Medical Grand Rounds, July 11<sup>th</sup> 2013.

269. Benefits of Early Enteral Nutrition. Staten Island University, Staten Island, NY, Medical Grand Rounds, July 24<sup>th</sup> 2013.
270. Fluid therapy. Potato starch, abnormal saline and other silliness. Department of Anesthesia. Naval Hospital Portsmouth, VA, September 10<sup>th</sup>, 2013
271. Approach to fluid resuscitation. University of Colorado, Denver, Medical Grand rounds, September 18<sup>th</sup> 2013.
272. Perioperative Fluid Management. Ohio Anaesthesia Association Meeting and Cleveland Clinic Department of Anesthesiology Annual Meeting, Cleveland, September 21<sup>st</sup> 2013.
273. Hemodynamic parameters to guide fluid responsiveness. St. Luke's-Roosevelt Hospital Center, Columbia University College of Physicians and Surgeons, October 10<sup>th</sup> 2013.
274. Peri-operative fluid optimization. Department of Anesthesia. Naval Hospital Portsmouth, VA, October 15<sup>th</sup>, 2013
275. Fluid resuscitation in sepsis. The Greater New York Hospital Association, STOP Sepsis Collaborative, New York, NY, November 8<sup>th</sup> 2013.
276. Alice in Bundleland: Death by Surviving Sepsis Campaign. New York State Thoracic Society Annual Scientific Assembly January 31 - February 1, 2014 Weill Cornell Medical Center – New York, NY
277. Assessing fluid responsiveness. New York State Thoracic Society Annual Scientific Assembly January 31 - February 1, 2014 Weill Cornell Medical Center – New York, NY
278. Blood transfusion. Why. American College of Physicians, Virginia Chapter Annual Meeting, Richmond, VA, March 8<sup>th</sup> 2014.
279. Alice in Bundleland: Death by Surviving Sepsis Campaign. Medical Grand Rounds, Tulane University, New Orleans, April 9<sup>th</sup> 2014
280. Assessing fluid responsiveness. Critical Care Rounds, Tulane University, New Orleans, April 9<sup>th</sup> 2014
281. Alice in Bundleland: Death by Surviving Sepsis Campaign. Critical Care Grand Rounds. Medical College of Virginia, Richmond, VA, May 14<sup>th</sup> 2014
282. Alice in Bundleland: Death by Surviving Sepsis Campaign. Portsmouth Naval Hospital, Emergency Medicine Grand Rounds, Portsmouth, VA, May 28<sup>th</sup> 2014
283. Assessing fluid responsiveness. Portsmouth Naval Hospital, Emergency Medicine Grand Rounds, Portsmouth, VA, May 28<sup>th</sup> 2014
284. Alice in Bundleland: Death by Surviving Sepsis Campaign. University of Vermont, Emergency Medicine Grand Rounds, 8<sup>th</sup> July 2014.
285. Alice in Bundleland: Death by Surviving Sepsis Campaign. Sentara 23<sup>rd</sup> Annual Critical Care Concepts. Sheraton Waterside, Norfolk, October 16<sup>th</sup> 2014
286. The hemodynamic management of patients with severe sepsis. International Fluid Academy Day, Antwerp, Belgium, 28-29 November 2014
287. The future of hemodynamic monitoring. International Fluid Academy Day, Antwerp, Belgium, 28-29 November 2014.
288. Nutrition support in the critically ill. Medical Grand Rounds, Good Samaritan Hospital, Long Island NY, December 9<sup>th</sup> 2014.
289. Nutrition support in the critically ill. Medical Grand Rounds, Richmond University Medical Center, Staten Island, NY, December 10<sup>th</sup> 2014.

290. The future of hemodynamic monitoring. Mount Sinai Institute of Critical Care, Grand Rounds, December 10<sup>th</sup> 2014.
291. Hemodynamic parameters to assess fluid responsiveness. Medical Grand Rounds. Brook Army Medical Center, San Antonio, Jan 16<sup>th</sup> 2015.
292. Alice in Bundelnd. Death by the surviving sepsis campaign. Pulmonary Critical Care Grand Rounds. Brook Army Medical Center, San Antonio, Jan 16<sup>th</sup> 2015.
293. Hemodynamic parameters to guide fluid therapy. Medical Grand Rounds. Eastern Virginia Medical School, January 28<sup>th</sup> 2015.
294. Enteral nutrition. Myths and misconceptions. Urology Grand Rounds. Eastern Virginia Medical School. February 5<sup>th</sup> 2015.
295. Hemodynamic workshop. SMACC US 2015. McCormack Convention Center, Chicago, June 22-25, 2015.
296. Understanding lactate. SMACC US 2015. McCormack Convention Center, Chicago, June 22-25, 2015.
297. Fluid responsiveness; The debate. SMACC US 2015. McCormack Convention Center, Chicago, June 22-25, 2015.
298. An approach to sepsis. Portsmouth Naval Hospital, Emergency Medicine Grand Rounds, Portsmouth, VA, August 26<sup>th</sup>, 2015.
299. The 6 Fundamental Principles Guiding Fluid Resuscitation. Ohio Chapter of Society of Critical Care Medicine 2<sup>nd</sup> Annual Conference, Columbus, OH, September 26<sup>th</sup> 2015.
300. Mobility: Move it or lose it. Critical Care Concepts: Exploring Critical Care and Trauma Symposium. AACCN, Sheraton Hotel Conference Center, Norfolk VA. October 14<sup>th</sup> 2015.
301. Hypertensive Emergencies. Medical Grand Rounds, Eastern Virginia Medical School, 10<sup>th</sup> February 2016, Norfolk, VA
302. Current concepts and controversies in hemodynamic monitoring. 2016 Society of Critical Care Medicine's Congress course, Current Concepts in Adult Critical Care, February 19 2016, Orlando, Florida.
303. Hemodynamic assessment and fluid management. University of Kansas Medical Grand Rounds, March 2<sup>nd</sup> 2016, Kansas City, KS.
304. Fluids in sepsis: Less is more. Sepsis Symposium. Catholic Health Services, De Matteis Center, Long Island, March 4<sup>th</sup> 2016.
305. Hypertensive emergencies; Cardiology Grand Rounds, Sentara Norfolk General Hospital, March 15, 2016
306. Fluid resuscitation. Mid-Atlantic Anesthesia Conference, Portsmouth Naval Hospital, April 17<sup>th</sup> 2016.
307. Hemodynamic assessment and fluid management. Critical Care Grand Rounds. NIH, Bethesda, MD, June 14<sup>th</sup> 2016
308. The Cure for Sepsis. Invited lectureship and visiting professor. NIH, Bethesda, MD, June 14<sup>th</sup> 2016
309. Hemodynamic assessment and fluid management. North Kansa City Hospital, Kansas. Medical Grand Rounds. August 4<sup>th</sup> 2016.

310. The fluid wars. LR vs Normal Saline. Medical Grand Rounds, Eastern Virginia Medical School, November 9<sup>th</sup> 2016.
311. Hemodynamic assessment and fluid management. Medical Grand Rounds, Greenville Health System, Greenville, SC, December 9<sup>th</sup> 2016.
312. Fluid management and hemodynamic assessment in 2017. Sixteen Annual Mark Schiff, MD visiting Professorship. North Shore University Hospital, Long Island, NY. January 5, 2017
313. The Cure for sepsis. Pulmonary-Critical Care Grand Rounds, Long Island Jewish Hospital, Long Island, NY, January 5<sup>th</sup>, 2017.
314. How I treat Septic Shock. Critical Care Reviews Conference, Titanic Center, Belfast, Ireland, January 28<sup>th</sup> 2017.
315. The Cure for Sepsis. Critical Care Reviews Conference, Titanic Center, Belfast, Ireland, January 28<sup>th</sup> 2017.
316. Nutrition: an update in 2017. Anesthesia and Critical Care Resident Rounds. University of Virginia, Charlottesville, 14<sup>th</sup> February 2017.
317. Fluid management and hemodynamic assessment in 2017. Anesthesia Grand Rounds. University of Virginia, Charlottesville, 15<sup>th</sup> February 2017.
318. The Cure for Sepsis. Anesthesia Grand Rounds. University of Virginia, Charlottesville, 15<sup>th</sup> February 2017.
319. Fluid management and hemodynamic assessment in 2017. 2017 Advances in Pulmonary and Critical Care Medicine Conference, Inova, Falls Church, VA, March 10<sup>th</sup> 2017.
320. Fluid management and hemodynamic assessment in 2017. Drexel Medical College, Medical Grand Rounds, Philadelphia, PA, March 15<sup>th</sup> 2017.
321. Humans are not Yeast and Rarely Become anaerobic. Resuscitation in the Park Conference, Sydney, Australia, May 31<sup>st</sup> 2017 (Via Teleconference)
322. Hypertension: Crisis in our Country/Crises in our City. Success in Blood Pressure Management Conference. EVMS, June 3<sup>rd</sup> 2017.
323. The CVP is harmful. European Society of Critical Care Medicine, Hemodynamic Conference, Olympic Hotel, Athens, Greece, June 18 2017.
324. Vitamin C, Hydrocortisone and Thiamine for the treatment of severe sepsis and septic shock. Eastern Virginia Medical Grand Rounds, October 18<sup>th</sup> 2017
325. Vitamin C, Hydrocortisone and Thiamine for the treatment of severe sepsis and septic shock. Diet and Optimum Health, Linus Pauling Institute, Oregon State University, Corvallis, Oregon, September 15, 2017.
326. Energy Expenditure. European Society of Intensive Care Medicine Conference, Vienna, Austria, September 23-27, 2017.
327. Which optimal route of nutrition? A case presentation. European Society of Intensive Care Medicine Conference, Vienna, Austria, September 23-27, 2017.
328. Meaning and practical use of pulse pressure. European Society of Intensive Care Medicine Conference, Vienna, Austria, September 23-27, 2017.
329. Vitamin C: we need proper evidence. Pro-Con debate. European Society of Intensive Care Medicine Conference, Vienna, Austria, September 23-27, 2017.

330. Vasopressors and Enteral nutrition. Virginia Chapter of American Society of Enteral and Parenteral Nutrition Annual Conference, Great Wolf Lodge, Williamsburg, October 6<sup>th</sup> 2017.
331. Nutrition in the ICU. ENT Grand Rounds, Eastern Virginia Medical School, October 10<sup>th</sup> 2017.
332. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Critical Concepts Symposium. Sheraton Waterside, Norfolk, October 11<sup>th</sup> 2017.
333. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Anesthesia Grand Rounds, Portsmouth Naval Hospital, Portsmouth, VA. 17<sup>th</sup> October 2017.
334. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Emergency Medicine Grand Rounds, Christian Hospital System, Christiana, DE, October 19<sup>th</sup> 2017.
335. Surviving Sepsis Campaign and other Fairytales. International Fluid Academy Conference, Antwerp, Belgium November 21-23, 2017
336. Vasopressors in septic shock. International Fluid Academy Conference, Antwerp, Belgium November 21-23, 2017
337. Humans are not Yeast and are rarely anaerobic. A review on Lactate. International Fluid Academy Conference, Antwerp, Belgium November 21-23, 2017
338. Sepsis an Overview. Medical Grand Rounds, Halifax Hospital, South Boston, VA, November 28<sup>th</sup>, 2017
339. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Medical Grand Rounds, Halifax Hospital, South Boston, VA, November 28<sup>th</sup>, 2017
340. Sepsis an overview. Ob/GYN Grand rounds. Eastern Virginia Medical School, November 30<sup>th</sup>, 2017.
341. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Plenary Session. ASPEN National meeting, Las Vegas, January 22<sup>nd</sup> 2018.
342. Fluid management and hemodynamic assessment in 2017. Medical Grand Rounds, Eastern Virginia Medical School, February 6<sup>th</sup> 2018.
343. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. 47th Critical Care Congress February 25-28, 2018. San Antonio, Texas.
344. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Surgical Grand Rounds, University of Texas, Houston. Texas, March 1<sup>st</sup> 2018.
345. Current concepts in fluid management. 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 19<sup>th</sup>, 2018.
346. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Medical Grand Rounds, Sentara Virginia Beach Hospital, May 16<sup>th</sup> 2018
347. Fluid management and hemodynamic assessment. Ob/Gyn Grand Rounds. Eastern Virginia Medical School, May 17<sup>th</sup> 2018.
348. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Resus @ the Harbour 2018 Conference, Sydney, Australia, Web Conference, 17<sup>th</sup> September 2018.
349. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Premier Hospital Group, Web Conference, 17<sup>th</sup> September 2018.

350. Is the cup half-full or half empty? New techniques to evaluate a patient's intravascular volume. Critical care Nephrology Conference. Eastern Virginia Medical School, September 22, 2018
351. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Medical Grand Rounds, Eastern Virginia Medical School, October 10<sup>th</sup> 2018.
352. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. AACN Critical/Trauma Concepts Symposium. Norfolk, October 10<sup>th</sup> 2018.
353. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Canada Critical Care Forum, November 6-9, Toronto, Canada.
354. Lactate Myths. Canada Critical Care Forum, November 6-9, Toronto, Canada.
355. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. European society of Critical Care Medicine, Educational Webcast, November 21 2018.
356. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. EISCM Next Webinar, November 22<sup>nd</sup> 2018.
357. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Medical Grand Rounds, Loma Linda University, via Webex, December 5<sup>th</sup> 2018.
358. Sepsis Overview. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
359. Sepsis Bundles. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
360. Nutrition in the ICU. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
361. Fluid management. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
362. The Lactate Myths. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
363. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
364. ARDS. Northwest Critical Care Conference: The Team Approach, Maui, Hawaii, March 11-15, 2019.
365. Nutrition in the ICU. SMART International Anesthesia and Critical Care Conference, Milan, Italy, May 6-9 2019.
366. Is there a place for corticosteroids in sepsis? SMART International Anesthesia and Critical Care Conference, Milan, Italy, May 6-9 2019.
367. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. KEY-NOTE address. SMART International Anesthesia and Critical Care Conference, Milan, Italy, May 6-9 2019.
368. Optimal FiO<sub>2</sub> during anesthesia! SMART International Anesthesia and Critical Care Conference, Milan, Italy, May 6-9 2019.
369. Hemodynamic management of sepsis. Joint Annual Conference 2019 SSICM | SSI | SSHH | SSTMP | SSTTM. Lausanne, Switzerland, September 19-21, 2019.



370. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. Joint Annual Conference 2019 SSICM | SSI | SSHH | SSTMP | SSTTM. Lausanne, Switzerland, September 19-21, 2019.
371. Update in ARDS.Critical Care: The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
372. Nutrition in the ICU. Critical Care: The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
373. Lactate Myths. Critical Care: The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
374. Sepsis. Critical Care: The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
375. Vitamin C, Hydrocortisone and thiamine for the treatment of sepsis. The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
376. Hypertensive emergencies. The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
377. Mobility in the ICU. The Team approach. Northwest Seminars, Charleston, SC, Decemebr 9-12, 2019.
378. VITAMINS study. Editorial Response. Critical Care Reviews Conference, Belfast, Ireland, January 17<sup>th</sup> 2020.
379. COVID-19: A clinician's perspective. Plenary Lecture. EVMS Research day, October 16<sup>th</sup> 2020.
380. i-MASK Protocol: The Prevention and Early Treatment of COVID-19 and the role of Vitamin C. Webinar. Indian Critical Care Society, December 23<sup>rd</sup> 2020.
381. COVID-19: A Clinician's Perspective-A Review of the MATH + and i-MASK Protocols. Pulmonary and Critical Care Grand Rounds (Webinar). Renaissance School of Medicine at Stony Brook University. January 20<sup>th</sup> 2021.
382. COVID-19: A Clinician's Perspective-A Review of the MATH + and i-MASK Protocols. Pulmonary and Critical Care Grand Rounds (Webinar). Massachusetts General Hospital and Harvard Medical School, Anesthesia Grand Rounds, January 21<sup>st</sup> 2021.
383. The Lactate Myths. University of Liverpool (UK) Anesthesia Grand Rounds. 10<sup>th</sup> March 2021 via teleconference.
384. Ivermectin for the treatment of COVID-19: A brief review. Northwest Anesthesia Conference. March 20<sup>th</sup> 2021, via teleconference.
385. Ivermectin for the treatment of COVID-19. Spring 2021 Oncology Investor Conference. March 30<sup>th</sup> 2021, via teleconference.
386. Fluid and hemodynamic resuscitation. Nephrology Division & Critical Care Medicine, Grand rounds, Royal Victoria Hospital and McGill University, Montreal, QC, Canada, March 30<sup>th</sup> 2021, via teleconference.
387. Non-invasive hemodynamic monitoring. Nephrology Division & Critical Care Medicine, Grand rounds, Royal Victoria Hospital and McGill University, Montreal, QC, Canada, March 30<sup>th</sup> 2021, via teleconference.
388. Corticosteroids and Ivermectin for the Treatment of COVID-19. MAAFIM 2021 International Virtual COVID -19 Symposium, April 10<sup>th</sup> 2021, Malasia, via teleconference.

389. Ivermectin for the treatment of COVID-19. Virginia Drug Discovery Consortium (VDDC) Conference, May 26<sup>th</sup> 2021, via Teleconference.
390. An overview of the treatment of COVID-19. Trinity of COVID-19: Immunity, Inflammation & Intervention. May 29<sup>th</sup> 2021, for Critical Care Society of India, via teleconference.
391. Fluid management in the ICU. 7th SG-ANZICS Asia Pacific Intensive Care Forum (SG-ANZICS). 17-19<sup>th</sup> July 2021. Prerecorded Video lecture.
392. COVID-19: A focus on clinical management. Anesthesia Critical Care Grand Rounds, Tufts University Medical School, Boston, MA, 2<sup>nd</sup> November 2021.