

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

Address: 10 Myrtle Avenue Demarest, NJ 07627

Date of Birth: 10/12/48

Place of Birth: Israel

Citizenship: United States of America

ACADEMIC APPOINTMENTS

1982-1985 Assistant Professor of Medicine
Department of Medicine
Albert Einstein College of Medicine
Montefiore Medical Center Bronx, New York

1982-1997 Assistant Clinical Professor
Department of Anesthesiology
Albert Einstein College of Medicine
Montefiore Medical Center Bronx, New York

1996-2000 Assistant Clinical Professor of Anesthesiology
Mount Sinai School of Medicine
New York, New York

2001-2004 Associate Clinical Professor of Anesthesiology and
Medicine Mount Sinai School of Medicine
New York, New York

2005-Present Clinical Professor of Anesthesiology, Medicine &
Surgery
Mount Sinai School of Medicine
New York, New York

HOSPITAL APPOINTMENTS

6/83-12/84 Director Med Surg Intensive Care Unit
Montefiore Medical Center Bronx, New York

1/85-5/92 Attending Physician, Lecturer PA Residency
Norwalk Hospital Norwalk, Connecticut

1/85-5/92 Attending Physician
Division of Critical Care Medicine
Norwalk Hospital Norwalk, Connecticut

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

- 5/92-Present
Chief, Department of Anesthesiology
Critical Care Medicine, Pain Management &
Hyperbaric Medicine
Englewood Hospital & Medical Center
Englewood, New Jersey
- 5/92-Present
Attending, Department of Critical Care Medicine
Mount Sinai School of Medicine
New York, New York
- 1994-Present
Director of Critical Care Services
Englewood Hospital & Medical Center
Englewood, New Jersey
- 1995 – Present
Englewood Physicians Associates (I.P.A.)
Englewood Hospital & Medical Center
Englewood, New Jersey
- 2007 – Present
Vice President, Medical Staff Officers
Englewood Hospital and Medical Center
Englewood, NJ 07631
- 2009 – 2011
President, Medical Staff Officers
Englewood Hospital and Medical Center
Englewood, NJ 07631
- 2009
Member, Governmental Affairs Committee for the
Board of Trustees, Englewood Hospital and
Medical Center Englewood, NJ 07631

EDUCATION

- 1969-1973
Bachelor of Arts
CUNY, Queens College
Queens, New York
- 1973-1977
Doctor of Medicine
University of Vermont College of Medicine
Burlington, Vermont

POSTDOCTORAL TRAINING

- 7/77-6/78
Internship - Internal Medicine
Department of Medicine
Montefiore Medical Center
Bronx, New York

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

7/78-6/80
2nd, 3rd Year Resident - Internal Medicine
Department of Medicine
Montefiore Medical Center
Bronx, New York

6/80-7/81
Chief Medical Resident
Department of Medicine
Montefiore Medical Center
North Central Bronx Hospital
Bronx, New York

7/81-6/82
Critical Care Fellow - Critical Care Medicine
Montefiore Medical Center
Bronx, New York

6/82-12/84
Anesthesiology Resident
Montefiore Medical Center
North Central Bronx Hospital
Bronx, New York

CERTIFICATIONS

7/1/78
Diplomat, National Board of Medical Examiners
Certification No. 182939

9/9/80
Diplomat, American Board of Internal Medicine
Board Certification No.78873

1989-1999
Diplomat, American Board of Internal Medicine
Special Qualifications in Critical Care Medicine
Board Certification No. 78873

4/14/89
Diplomat, American Board of Anesthesiology
Consultant in Anesthesiology
Board Certification No.16866

10/23/89
Diplomat, American Board of Anesthesiology
Special Qualifications in Critical Care Medicine
Board Certification No.393.

6/13/93-Present
American Heart Association, Advance Cardiac Life
Support (ACLS) with Cardiopulmonary
Resuscitation & Emergency Cardiac Care Provider
American Heart Association, Basic Life

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

Support with Cardiopulmonary Resuscitation
Provider (BLS-CPR).

10/13/95-Present

Fellow, American College of Chest Physicians

4/24/98

Certificate in Hyperbaric Medicine
The Hyperbaric Medicine Program
Palmetto Richland Memorial Hospital

1/24/99-Present

Fellow, American College of Critical Care
Medicine

1/1/03-1/31/2013

Diplomat, American Board of Preventive Medicine
Specialty Undersea and Hyperbaric
Board Certification No. 01022

LICENSURE

2/9/79-Current

State of New York - License No.137283

10/15/84-Current

State of Connecticut - License No.25983

2/21/92-Current

State of New Jersey - License No.57552

4/1/92-Current

United States Department of Justice Drug
Enforcement Administration, Number to be
furnished upon request

4/1/93-Current

Office of Drug Control Controlled Dangerous
Substances Number to be furnished upon request

HONORS/AWARDS/PATENTS

1995

Excellence in Clinical Teaching Award
Harlem Hospital School of Nursing Student Nurse
Anesthetist Program

1995

Physician's Recognition Award in Continuing
Medical Education
Medical Society of New Jersey

1995

Excellence in Clinical Teaching Award
Englewood Hospital & Medical Center, Department
of Medicine

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

- 1997 Time Magazine - Special Edition, Fall 1997 -
Heroes of Medicine "Bloodless Surgery", pp. 74-76
- 1998 Physician's Recognition Award In Continuing
Medical Education Medical Society of New Jersey
- 2002 Physician's Recognition Award in Continuing
Medical Education American Medical Association
- 2002 Rotary Award Lifetime Honoree, Rotary Club of
Englewood
- 2002 Herbert Dardik Research and Educational Award
for Outstanding to the field of Bloodless Medicine
and Surgery
- 2002 Mission Award, American Heart Association
- 2002 The Sergio Award, Healing the Children Midlantic,
Inc.
- 2004 1st prize for outstanding research poster
presentation during the Society for the
Advancement of Blood Management 2004 annual
conference
- 2005 Recipient of the Presidential Citation for
outstanding contributions to the Society of Critical
Care Medicine
- 2006 The Society of Critical Care Medicine Recognition
Award presented during the American College of
Critical Care Medicine Convocation/SCCM Awards
Presentation. 1/8/06. Hilton San Francisco.
- 2007 AMA (American Medical Association) Physician's
Recognition Award in Continuing Medical
Education
- 2007 The University of Vermont Distinguished Academic
Achievement Award.
- 2012 The Society of Critical Care Medicine (SCCM)
presidential citation.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

OTHER PROFESSIONAL APPOINTMENTS

- 1991-1992 Member Hospital Executive Committee, Norwalk Hospital, Norwalk, Connecticut.
- 5/92-Present President, Northern Valley Anesthesiology, P.A. Englewood Hospital and Medical Center
- 1993-1995 President, Board of Trustees of Englewood (P.H.O.) Englewood Hospital and Medical Center, Englewood, New Jersey
- 1993-1995 Vice President, Englewood Physicians Assoc. (E.P.A.), Englewood Hospital and Medical Center, Englewood, New Jersey
- 1994-Present Executive Medical Director, New Jersey Institute for the Advancement of Bloodless Medicine and Surgery Program, Englewood Hospital and Medical Center, Englewood, New Jersey
- 1995-Present President, Englewood Physicians Assoc. (E.P.A.) Englewood Hospital and Medical Center, Englewood, NJ
- 2003 Member, Advisory Board for RESUS (Restorative Survival in Shock) protocol. Title of study: A pivotal, randomized, controlled, and single-blinded trial of the hemoglobin based oxygen carrier (HBOC), bovine polymerized hemoglobin (HBOC-201), for the prehospital resuscitation of patients with severe hemorrhagic shock (HS)
- 2004 Board of Directors, Atlantic Health System
- 2007 Member, Advisory Board, Anesthesiology Section, Section of Critical Care Medicine
- 2009 President, Medical Staff Englewood Hospital and Medical Center Englewood, NJ
- 2009-2013 Advisory Committee on Blood Safety and Availability, The Department of Health and Human Services

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

2009	National Heart Lung and Blood Institute State of Science
2009	Sub-committee on Transfusion, National Institutes of Health
2011	Member, Advisory Board, Essential Practices in Respiratory Care published by Saxe Healthcare Communications
Societies	
1983-Present	Member, Society of Critical Care Medicine (SCCM)
1983-Present	Founding Member, American Society of Critical Care Anesthesiologists (ASCCA)
1984-2000	Member, American Society of Parental and Enteral Nutrition
1985-Present	Member, American Society of Anesthesiologists (ASA)
1992-Present	Member, New Jersey State Medical Society
1992-Present	Member, Bergen County Medical Society
1993-Present	Member, American College of Physician Executives (ACPE)
1993-Present	Member, Executive Committee, New Jersey State Society of Anesthesiologists (NJSSA)
1994-1996	Delegate, Medical Society of New Jersey
2000-Present	Member, Board of Directors, Society for the Advancement of Blood Management (SABM)
1997-1998	Member, Medical Leadership Council Physician
1998-2000	Treasurer for New Jersey State Society of Anesthesiologists (NJSSA)
1998-Present	Board of Trustees, Network for the Advancement of Transfusion Alternatives (NATA)

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

1998-Present	Scientific Board, Network for the Advancement of Transfusion Alternatives (NATA)
1998-2005	Editorial Board for Transfusion Alternatives in Transfusion Medicine (TATM), Network for the Advancement of Transfusion Alternatives (NATA)
2000-2003	Secretary, New Jersey State Society of Anesthesiologists (NJSSA)
2001-2009	Founding Member of the Board of Directors, Society for the Advancement of Blood Management (SABM) Board of Directors.
2002-Present	Member, National Anemia Action Council (NAAC)
2003-Present	Member, American Association of Blood Banks (AABB) Planning Committee and Standards Committee Washington, DC
2003-2004	President, New Jersey Chapter Society of Critical Care Medicine (NJCSCCM)
2003-2005	Secretary Treasurer, National Anemia Action Council (NAAC)
2004-2006	President, New Jersey State Society of Anesthesiologists (NJSSA)
2004-Present	Editorial Board, Contagion, a peer-reviewed publication, Transfusion issues
2004-Present	Past President, New Jersey Chapter Society of Critical Care Medicine (NJCSCCM)
2005-Present	Member, Public and Media Relations Advisory Committee, Society of Critical Care Medicine (SCCM)
2005-Present	Member, The American Israeli Anesthesia Alliance (AIAA) and American Physicians Fellowship for Medicine in Israel (APFMED).

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

2005-Present	Delegate (Alternate) Board of Directors, American Society of Anesthesiologists (ASA)
10/7/05 – 10/07/07	NJSSA:New Jersey Chapter, Society of Critical Care Medicine. PNC Arts Center. Program Committee
2005-Present	Reviewer, <i>CHEST, Transfusion, Critical Care Medicine and Anesthesia and Analgesia</i>
2006-Present	Co-Editor Interface of Public Policy and Critical Care Medicine
2006-Present	Co-Editor Perioperative Transfusion Medicine 2 nd Edition by Lippincott Williams and Wilkins
2006-2009	Member, Pay for Performance Task Force, the Society of Critical Care Medicine (SCCM).
2006-2009	Member, Public and Media Relations Advisory Committee, the Society of Critical Care Medicine (SCCM)
2007-2008	Member, American Society of Critical Care Anesthesiologists (ASCCA) Committee on Advocacy
2006-2009	Board of Directors, American Society of Critical Care Anesthesiologists (ASCCA)
2007-2009	Founding Member of the Board of Directors & Serves as the Communications/Marketing Task Force Chairperson for National Anemia Action Council (NAAC).
Sept 2007-Sept 2009	Secretary/Treasurer, Society for the Advancement of Blood Management (SABM).
October 2007 – October 2009	Secretary/Treasurer, Society for the Advancement of Blood Management (SABM) Finance Committee.
October 2007-2008	Chair, Committee on Transfusion Medicine, American Society of Anesthesiologists (ASA)

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

October 2007-2008	Member, Committee on Critical Care Medicine, American Society of Anesthesiologists (ASA)
October 2007-2008	Member, Sub-committee on Critical Care Medicine, American Society of Anesthesiologists (ASA)
December 2007-December 2008	Member, American Association Blood Banks (AABB)
December 2007-December 2008	Member, Society of Critical Care Medicine (SCCM)
December 2007-December 2008	At Large Member, (NAAC)
2008	The Joint Commission Blood Management Performance Measures Project Technical Advisory Panel (TAP) Sub-committees: 1)Guidelines 2)Anemia
2009	Member, Standards Committee American Association of Blood Banks (AABB)
2009	Member, Standards Committee New York State Department of Health
October 2008 – September 2009	Chair, Society for the Advancement of Blood Management (SABM) Research and Development Committee
October 2008 – September 2009	Co-Chair, Society for the Advancement of Blood Management (SABM) Annual Meeting Planning Committee
2009	Co-Chair, Committee on Transfusion Medicine, Society for the Advancement of Blood Management (SABM)
2009	Secretary/Treasurer, Society for the Advancement of Blood Management (SABM)
2009	Member, Standards Committee (Society for the Advancement of Blood Management)

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

- 2009-2011 Chair, Research & Development, Society for the Advancement of Blood Management (SABM)
- 2009-2011 President-Elect, Society for the Advancement of Blood Management (SABM)
- 2008-2010 Vice President (NAAC)
- 2009-2010 Vice President, President Elect of the National Anemia Action Council (NAAC) Member of the Executive Committee
- 2009-2012 American College of Critical Care Medicine (ACCM) Distinguished Investigator Committee
- 2009-2011 Member, Perioperative Accreditation Program Unit American Association of Blood Bank (AABB)
- 2009-2011 Chair, American Society of Anesthesiology (ASA) Committee on Blood Management, previously Committee on Transfusion Medicine
- 2009-2010 Participant in American Association of Blood Banks (AABB) Perioperative Accreditation Program Unit
- 2010 President, National Anemia Action Council (NAAC)
- 2011 Member, IARS (International Anesthesia Research Society)
- 2011 External Scholar with Faculty of Graduate Studies, Member of the Supervisory Committee for Heather Mingo, PhD student. Dalhousie University Halifax, Nova Scotia, Canada
- 2011 Founding Member, Society of Critical Care Anesthesiologists (SOCCA) formerly, American Society of Critical Care Anesthesiologists (ASCCA)
- 2011-2013 President, the Society for the Advancement of Blood Management (SABM)

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

2012 Director, New Jersey State Society of Anesthesiologists (NJSSA)

TRAINING RECORD

1992-Present Trained all medical residents rotating through the ICU as well as periodic lectures. Trained critical care fellows (Mt. Sinai Critical Care fellowship).

TEACHING ACTIVITIES

1978 Montefiore Medical Center
Structured and implemented curriculum for Ambulatory Care Residency

1978 University of Vermont
Organized and implemented curriculum for a course in Human Sexuality (subsequently given at the University of Vermont).

1978 Norwalk Hospital, CT - PACU RN's and PA
Structured & implemented lecture series on Critical Care Medicine Residents Lecture Series:
Respiratory & Cardiovascular Medicine for Critical Care Fellows and Residents.

1978 Montefiore Medical Center, NY
Certified Registered Nurse Anesthetists training program: Weekly lectures on Physiology and Pharmacology.

1980 Montefiore Medical Center
Structured and implemented curriculum for Interns in Internal Medicine.

1982 Montefiore Medical Center, NY & Albert Einstein College of Medicine Developed and implemented curriculum for Nutrition in Respiratory Failure: New Approaches to Management.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

- 1983-84 Montefiore Medical Center -M/S ICU
Twentieth and Twenty-First Annual Basic Science
Review on Anesthesiology for the Intensivist:
Clinical Application of Flow Directed Catheters in
Medical Patients.
- 1989 Norwalk Hospital, Norwalk, CT
Structured and assisted in formulating curriculum
for Critical Care Fellowship.
- 1992-Present Englewood Hospital & Medical Center, Department
of Anesthesiology/Critical Care: Continuing
Medical Education In-Service Program in the topics
of: Laryngeal Mask Airway
Invasive Monitoring in the Operating Room
Interpretation of Arterial Blood Gasses
Use of Muscle Relaxants in the I.C.U.
Anesthesia for the Internist
Complications of Pulmonary Artery Catherization
Management of Acute Pain
- 1992-Present Englewood Hospital & Medical Center: Structured,
implemented
- 1992-Present Englewood Hospital & Medical Center: Structured,
implemented and coordinated the Bloodless
Medicine and Surgery Program
- 1992-Present Englewood Hospital and Medical Center: Conscious
Sedation Credentialing Program (a computerized
program)
- 1992-Present Mount Sinai School of Medicine Critical Care
Fellowship Program: Structure and implementation
of Airway Management Course
- 1992-Present Columbia University, School of Nursing, New
York. Organize and implement a teaching program
for Junior and Senior Student Registered Nurse
Anesthetists
- 1992 Mount Sinai School of Medicine and Albert
Einstein College of Medicine. Combined
Conference, Basic Science Review, Physiology of
Neuromuscular Blockade

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

1994 New York State Society of Anesthesiology, District #3. Quality Improvement and the Cost of Non Conformity Capital and Health Maintenance Organizations (H.M.O.'s)

1994 Mount Sinai School of Medicine / Englewood Hospital and Medical Center. Combined, restructured and implemented Medical/Surgical Critical Care Service at Englewood Hospital and Medical Center with Mount Sinai Fellowship and Englewood Hospital and Medical Center Internal Medicine residency

GRANT SUPPORT

Non-Funded Grants

Co-investigator:

Evaluation of Smart Suction® and Quickdraw for acute normovolemic hemodilution. Harvest Technologies, 1997-1998.

Multi-center S.A.F.E. study conducted by the University of Chicago. 1994-1999

1992-Present Englewood Hospital and Medical Center: Conscious Sedation Credentialing Program (a computerized program)

1992-Present Mount Sinai School of Medicine Critical Care Fellowship Program: Structure and implementation of Airway Management Course

1992-Present Columbia University, School of Nursing, New York. Organize and implement a teaching program for Junior and Senior Student Registered Nurse Anesthetists

1992 Mount Sinai School of Medicine and Albert Einstein College of Medicine. Combined Conference, Basic Science Review, Physiology of Neuromuscular Blockade

1994 New York State Society of Anesthesiology, District #3. Quality Improvement and the Cost of Non Conformity Capital and Health Maintenance Organizations (H.M.O.'s)

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

1994

Mount Sinai School of Medicine / Englewood Hospital and Medical Center. Combined, restructured and implemented Medical/Surgical

Critical Care Service at Englewood Hospital and Medical Center with Mount Sinai Fellowship and Englewood Hospital and Medical Center Internal Medicine residency

PUBLICATIONS:

Original Articles

1. Goodnough LT, Shander A. **Patient Blood Management**. Anesthesiology. 2012 Apr 6. [Epub ahead of print] No abstract available.
2. Carson JL, Grossman BJ, Kleinman S, Tinmouth AT, Marques MB, Fung MK, Holcomb JB, Illoh O, Kaplan LJ, Katz LM, Rao SV, Roback JD, Shander A, Tobian AA, Weinstein R, Swinton McLaughlin LG, Djulbegovic B; for the Clinical Transfusion Medicine Committee of the AABB. **Red Blood Cell Transfusion: A Clinical Practice Guideline From the AABB**. Ann Intern Med. 2012 Mar 26. [Epub ahead of print]
3. Shander A, Javidroozi M. **Strategies to reduce the use of blood products: a US perspective**. Curr Opin Anaesthesiol. 2012 Feb;25(1):50-8.
4. Shander A, Javidroozi M, Perelman S, Puzio T, Lobel G. **From bloodless surgery to patient blood management**. Mt Sinai J Med. 2012 Jan;79(1):56-65.
5. Shander A, Javidroozi M, Ashton ME. **Drug-induced anemia and other red cell disorders: a guide in the age of polypharmacy**. Curr Clin Pharmacol. 2011 Nov 1;6(4):295-303. Review.
6. Hofmann A, Farmer S, Shander A. **Five drivers shifting the paradigm from product-focused transfusion practice to patient blood management**. Oncologist. 2011;16 Suppl 3:3-11.
7. Moskowitz D, Shander A, Ergin MA. Reply. Ann Thorac Surg 2011 June;91(6):2023-4. Refers to: **Spare the Blood, but Save the Kidneys The Annals of Thoracic Surgery**, Volume 91, Issue 6, June 2011, Pages 2022-2023.
8. Shander A, Walsh CE, Cromwell C. **Acquired hemophilia:a rare but life-threatening potential cause of bleeding in the intensive care unit**. Intensive Care Med. 2011 May 31.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

9. Shander A, Fleisher LA, Barie PS, Bigatello LM, Sladen RN, Watson CB. **Clinical and economic burden of postoperative pulmonary complications: patient safety summit on definition, risk reducing interventions, and preventive strategies.** Crit Care Med. 2011 May 12. [Epub ahead of print]
10. Josephson CD, Glynn SA, Kleinman SH, Blajchman MA; State-of-the Science Symposium Transfusion Medicine Committee. **A multidisciplinary “think tank”: the top clinical trial opportunities in transfusion medicine from the national heart, Lung, and Blood Institute sponsored 2009 state-of-the-science symposium.** Transfusion. 2011 Apr; 51(4):828-41, doi:10.1111/j.1537-2995.2010.02898.x.Epub 2010 Oct 4.
11. Shander A, Fink A, Javidroozi M, Erhard J, Farmer SL, Corwin H, Goodnough LT, Hofmann A, Isbister J, Ozawa S, Spahn DR; for the International Consensus Conference on Transfusion Outcomes Group. **Appropriateness of allogeneic red blood cell transfusion: The International Consensus Conference on transfusion outcomes.** Transfus med Rev, 2011 Apr 17. [Epub ahead of print]
12. Goodnough LT, Shander A. **How we treat management of warfarin-associated coagulopathy in patients with intracerebral hemorrhage.** Blood. 2011 Mar 16 [Epub ahead of print]
13. Society of Thoracic Surgeons Blood Conservation Guideline Task Force, Ferraris VA, Brown Jr, Despotis GJ, Hammon JW, Reece TB, Saha SP, Song HK, Clough ER; Society of Cardiovascular Anesthesiologists Special Task Force on Blood Transfusion, Shore-Lesserson LJ, Goodnough LT, Mazer CD, Shander A, Stafford-Smith M, Waters J, International Consortium for Evidence Based Perfusion, Baker RA, Dickinson TA, FitzGerald DJ, Likosky DS, Shann KG **2011**
14. **Update to the Society of Thoracic Surgeons and the Society of Cardiovascular Anesthesiologists blood conservation clinical practice guidelines.** Ann Thorac Surg. 2011 Mar;91(3):944-82. Review.
15. Isbister JP, Shander A, Spahn DR, Erhard J, Farmer SL, Hofmann A. **Adverse Blood Transfusion Outcomes: Establishing Causation.** Transfus Med Rev. 2011 Feb 21.
16. Ferraris VA, Brown JR, Despotis GJ, Hammon JW, Reece TB, Saha SP, Song HK, Clough ER, Shore-Lesserson LJ, Goodnough LT, Mazer CD, Shander A, Stafford-Smith M, Waters J, Baker RA, Dickinson TA, Fitzgerald DJ, Likosky DS, Shann KG. **2011 update to the society of thoracic surgeons and the society of cardiovascular anesthesiologists blood conservation clinical practice guidelines.** Ann Thorac Surg. 2011 Mar;91(3):944-82.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

17. Spahn DR, Shander A, Hofmann A, Berman MF.
More on Transfusion and Adverse Outcome: It's Time to Change
Anesthesiology, 2011 Feb;114(2):234-236.
18. Goodnough LT, Shander A.
Erythropoiesis stimulating agents, blood transfusion, and the practice of medicine.
Am J Hematol. 2010 Nov;85(11):835-7
19. Shander A, Goodnough LT.
Blood transfusion as a quality indicator in cardiac surgery.
JAMA. 2010 Oct 13;304(14):1610-1.
20. Shander A, Sweeney JD
Overview of Current Treatment Regimens in Iron Chelation Therapy
US Hematology, Volume 2 Touch Briefings 2009
21. Moskowitz DM, McCullough JN, Shander A, Klein JJ, Bodian CA, Goldweit RS, Ergin MA. **The impact of blood conservation on outcomes in cardiac surgery: is it safe and effective?** Ann Thorac Surg. 2010 Aug;90(2):451-8.
22. Scultetu A, Arnaud F, Kaplan L, Shander A, Philbin N, Rice J, McCarron R, Freilich D. **Hemoglobin-based Oxygen Carrier (HBOC-201) and Escalating Doses of Recombinant Factor VIIa (rFVIIa) as a Novel Pre-hospital**
23. **Resuscitation Fluid in a Swine Model of Severe Uncontrolled Hemorrhage.**
Artif Cells Blood Substit Immobil Biotechnol. 2010 Jul 20.
24. Shander A, Sazama K. **Clinical consequences of iron overload from chronic red blood cell transfusions, its diagnosis, and its management by chelation therapy.** Transfusion 2010. May;50(5):1144-55. Epub 2010 Jan. 15.
PMID:20088842 [PubMed – in process]
25. Shander A, Javidroozi M. A Reductionistic **Approach to Aged Blood.**
Anesthesiology. 2010. May 26.
26. Istaphanous GK, Wheeler DS, Lisco SJ, Shander A. **Red blood cell transfusion in critically ill children: A narrative review.** Pediatr Crit Care Med, 2010 May 6. [Epub ahead of print] PMID: 20453700 [Pub Med – as supplied by publisher]
27. Donahue LL, Shapira I, Shander A, Kolitz J, Allen S, Greenburg G. **Management of acute anemia in a Jehovah's Witness patient with acute lymphoblastic**
28. **Leukemia with polymerized voine hemoglobin-based oxygen carrier; a case report and review of literature.** Transfusion. 2010 April 23 [Epub ahead of print] PMID: 20456679 [PubMed – as supplied by publisher]

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

29. Fahy BG, Egol A, Shander A, Wall M, Kirkland L. **Denounce demagoguery on directives!** Crit Care Med. 2010 Mar;38(3):1015-6
30. Fahy BG, Egol A, Shander A, Wall M, Kirkland L. **Pay for Performance strategy.** Crit Care Med. 2010 Mar; 28(3):1014
31. Roback JD, Caldwell S, Carson J, Davenport R, Drew MJ, Eder A, Fung M, Hamilton M, Hess JR, Luban N, Perkins JG, Sachais BS, Shander A, Silverman T, Snyder E, Tormey C, Waters J, Djulbegovic B. **Evidence-based practice guidelines for plasma transfusion.** Transfusion. 2010. March 19 [Epub ahead of print] PMID:20345562 [PubMed – as supplied by publisher]
32. Gross I, Shander A, Waters JH. **The evidence shows that allogeneic transfusion is associated with reduced survival after coronary artery bypass surgery.** Anesthesiology. 2010 Mar;112(3):760-1; author reply 762-3. No abstract available. PMID:20179522 [PubMed – indexed for MEDLINE]
33. Mackenzie CF, Moon-Massat PF, Shander A, Javidroozi M, Greenburg AG. **When blood is not an option: Factors affecting survival after the use of a hemoglobin-based oxygen carrier in 54 patients with life threatening anemia.** Anesth Analg 2010 March 1; 110(3):685-93. PMID:20042443 [PubMed – indexed for MEDLINE]
34. Shander A, Javidroozi M. **Invited Commentary.** Ann thorac Surg. 2010 Feb;89(2):576-7.
35. Levy JH, Dutton RP, Hemphill JC 3rd, Shander A, Cooper D, Paidas MJ, Kessler CM, Holcomb JB, Lawson JH; **Hemostasis Summit Participants multidisciplinary approach to the challenge of hemostasis.** Transfusion. (Epub ahead of print)
36. Krishnan S, Conner TM, Leslie R, Stemkowski S, Shander A. **Choice of hemostatic agent and hospital length of stay in cardiovascular surgery.** Semin Cardiothorac Vasc Anesth. 2009 Dec 1.
37. Shander A, Spence RK, Auerbach M. **Can intravenous iron therapy meet the unmet needs created by the new restrictions on erythropoietic stimulating agents?** Transfusion. 2009 Nov 16.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

38. Egol A, Shander A, Kirkland L, Wall MH, Dorman T, Dasta J, Bagwell S, Kaufman D, Matthews P Jr. Greenwald BM, Herr DL, Stavish C, Thompson C,
39. Fahy BG. **Pay for performance in critical care: an executive summary of the position paper by the Society of Critical Care Medicine.** Crit Care Med. 2009 Sep;37(9):2625-31
40. Shander A, Cappelini MD, Goodnough LT. **Iron Overload and toxicity: the hidden risk of multiple blood transfusions.** Vox Sang. 2009 Aug 3.
41. Shander A, Spence RK, Adams D, Shore-Lesserson L, Walawander CA. **Timing and Incidence of Postoperative Infections Associated with Blood Transfusion: Analysis of 1,489 Orthopedic and Cardiac Surgery Patients.** Surg Infect (Larchmt). 2009 Jun;10(3):277-283
42. Nagarsheth NP, Sharma T, Shander A, Awan A. **Blood salvage use in gynecologic oncology.** Transfusion. 2009 Jun 23
43. Shander A, Goodnough LT. **A case of no pain and no gain from blood?** Crit Care Med. 2009 Jun; 37(6): 2104-5.
- 41 Shander A, Goodnough LT **Why an alternative to blood transfusion?** Crit Care Clinics. 2009 Apr;25(2):261-77
42. Riker RR, Shehabi Y, Bokesch PM, Ceraso D, Wisemandle W, Koura F, Whitten P, Margolis BD, Byrne DW, Ely EW, Rocha MG; SEDCOM (Safety and Efficacy of Dexmedetomidine Compared With Midazolam) Study Group. **Dexmedetomidine vs. midazolam for sedation of critically ill patients: a randomized trial.** JAMA. 2009 Feb 4;301(5):489-99. Epub 2009 Feb 2
43. Shander, A, Moskowitz, DM **Blood conservation in practice:an overview.** Br J Hosp Med (Lond). 2009 Jan;70(1):16-21.
- 44.Javidroozi M, Moskowitz DM, Shander A. **Adjusting surgical bleeding for dilutional effect of Hextend.** Transfusion. 2008 Nov;48(11):2480-1
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Stanley D. Brauer, M.D., Jacek B. Cywinski, M.D., Katharine Downes, M.D.,
Laron N. Johnson, M.D.k James D. Kindscher, MD, Douglas E. Koehntop, M.D.,
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2. Basics of Blood Management
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Bruce D Spiess MD; Richard K Spence MD; Aryeh Shander MD, FCCM, FCCP

Chapters:

10. New Concepts in Oxygen Transport
Aryeh Shander, Tanuja S.Rijhwani, Nimish Nemani and Carmine Gainatiempo

13. Serious Acute Transfusion Reaction
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25. Coagulation Product Use in the Perioperative Period
Richard K. Spence and Aryeh Shander

32. Anesthesia Techniques in Blood Conservation
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34. Intraoperative Acute Normovolemic Hemodilution
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Abstracts:

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2. Shander A, Anis M, Awan A, Cruz N, Javidroozi M
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3. Shander A, Perelman S, Cruz NM, Awan A, Anis M, Moriella ME, Javidroozi M
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4. Shander A, Hoffman A, Ozawa S, Javidroozi M
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9. Moskowitz D, Aregbeyen O, Demir S, Javidroozi M, Juhl A, Naqvi S, Shander A. Impact of Aprotinin Withdrawal on Outcomes of High-Risk Cardiac Surgery - A Propensity-Score Matched Cohort Study. Abstract accepted for the 65th PGA-NYSSA Annual Meeting December 9 – 13, 2011
10. Shander A, Farmer S, Gombotz H, Gross I, Hofmann A, Javidroozi M, Juhl A, Leahy M, Ozawa S, Sweeny J. Laying The Foundation For A Patient Blood Management Registry. Abstract accepted for the Society of Advancement of Blood Management (SABM) 2011 Annual Meeting
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12. Shander A, Ozawa S, Banks C.M., Sokolowski J.A., Physician training in patient blood management using immersive simulation. Abstracts of the 13th Annual NATA symposium Copenhagen, Denmark April 2012.

Newsletters:

1. Visual Loss Data Need Another Look-See. Letter to the Editor. American Society of Anesthesiologists NEWSLETTER 2004; 67(11):38-39, Shander A, Rijhwani TS.
2. A 'New World' of Oxygen Therapeutics. AABB Weekly Report 2002; 8(19), Shander A.
3. A Hidden Epidemic; NAAC National Anemia Action Council; Health Communications, Inc; 2002. Shander, National Anemia Action Council (NAAC) Members.
4. ASA Committee on Critical Care Medicine. Monograph – The Practice of Critical Care Medicine. Overview, Background & Implementation.
5. Guest Editor, Implementing Best Practices for Blood Management - Critical Pathways CME Newsletter Issue No. 1, March 2008. Provided by The Network for Continuing Medical Education (NCME).
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Case Report

1. Nagarsheth NP, Shander A, Malovany, Tzeng J, Ibrahim I.
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FDA TESTIMONY

1. Hemosol. HLK 299 Protocol. June 18, 2002.
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5. FDA Workshop on Hemoglobin Based Oxygen Carriers: Current Status and Future Directions

INVITED LECTURES/PRESENTATIONS

INTERNATIONAL PRESENTATIONS

1. Canadian government sponsored conference, "Blood Management for the 21st Century", Toronto, Canada. "Building a Blood System for the 21st Century", 11/3/97.
2. Russian Academy of Science, St. Petersburg, Russia. "Alternative on Transfusion Medicine", 6/10/98.
3. International Satellite Symposium, Moscow, Russia. "Transfusion Alternatives in Surgery", 10/06/98.
4. Universidad Miguel Hernandez de Elche, Alicante, Spain. "New Surgical Alternatives to Minimize the Hematic Losses and Hemorrhage and Transfusion in Carcinogenic Surgery", 11/26/98.
5. Ninth Mediterranean Congress of Angiology & Vascular Surgery, Tel Aviv Israel. "Alternatives to Transfusion in the Vascular Patient", 3/15/99.
6. Central Provincial/Military Hospital, Moscow, Russia. "The Perioperative Management, 4/20/99.
7. European Society of Anesthesiologists Meeting, Amsterdam, Netherlands. "Effectiveness of Epoetin Alpha in Anemic Orthopedic Surgery Patients", 5/31/99.
8. XIII Int. Congress of Polish Society of Anesth. & Intensive Therapy, Lodz Poland.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

- “Tolerance of Anemia, Strategies of Bloodless Surgeries” “Blood Loss: Preparing the Patient for a Bloodless Operation”, “The Role of the Anesthesiologist in Limiting Perioperative Transfusion”, 9/15-18/99.
9. Universidade Estadual de Londrina, Londrina, Brazil. Key Note Speaker: “Bloodless Medical Experience at Englewood Hospital”, 11/13/99.
 10. Royal College of Surgeons, London, UK. “Avoiding Blood Transfusion”, 11/20/99.
 11. Ontario Hospital Association 1999 Convention, Toronto, Canada. “Anesthesia Management in Surgery without Allogeneic Blood Transfusion”, 11/23/99.
 12. Network for Advancement of Transfusion Alternatives (NATA) 1st Annual Meeting, Palacio de Congresos, Barcelona, Spain. “Practical Limits of Acute Normovolemic Hemodilution”, 1/31/00 – 2/1/00.
 13. Ontario Hospital Association, Toronto, Ontario, Canada. “Alternative Treatment Strategies”, “Bloodless Medicine & Surgery – Clinical Outcomes”, 2/21/00.
 14. First European Congress on Bloodless Health Care, Geneva, Switzerland. “Experience of a Bloodless Center”, 5/13/00.
 15. International Symposium, Alternatives to the Use of Blood and Blood Products: From Current Strategies to the XXI Century Standard. Santiago, Chile. “Management of the Patient in the Intensive Care Unit” Round Table “Surgery without Blood Transfusion”, “Ethics and Bioethics in the Treatment of Jehovah’s Witnesses”, “Blood Conservation Techniques in Pediatrics”, 7/28-29/00.
 16. 2nd Current Controversies in Anaesthesia and Peri-Operative Medicine Dingle, Co Kerry, Ireland. “Blood Saving Strategies”, 10/5/00.
 17. 19th Annual Symposium Clinical Update in Anesthesiology, Mount Sinai School of Medicine, NY. Symposium was held in San Juan, Puerto Rico, Special Lecture “Bloodless Surgery, Is it True”, 1/13-20/01.
 18. 3rd Jena International Symposium, Jena, Germany. “Strategies to reduce blood transfusion in the ICU and during the perioperative period”, 2/13-16/01.
 19. Trauma/Critical Care in the 21st Century, Santiago, Chile. “Management of the Patient in Intensive Care”, “Hypovolemia and replacement of volume”, “Bioethics in the treatment of Jehovah’s Witness Patients”, “Bloodless Medicine and Surgery for the pediatric Patient”, 7/28-29/01.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

20. XVIII Congress of the Brazilian College of Hematology, Sao Paulo, Brazil. "History and Actual State of Art in Bloodless Medicine and Surgery", "Reducing Blood Loss and Managing Extreme Anemia in Intensive Care", 9/19–9/20/01.
21. Ontario Hospital Association Blood Issues Session. Managing Scarce Blood Resources: Alternative Solutions Today "Administrative Issues Involved with Establishing a Program of Bloodless Medicine and Surgery", 11/06/01.
22. Bloodless Medicine & Surgery Conference Warsaw, Poland. "Tolerance of Anemia and Reduced Circulating Blood Volume", 11/28/01-11/29/01.
23. 10th Winter Symposium on Intensive Care Medicine, Crans Montana, Switzerland. "Perioperative Blood Management", "Erythropoietin in the ICU", 2/4/02–2/5/02.
24. Medical Symposiums, Incorporate, and the Texas College of Emergency Physicians present Emergency and Critical Care Medicine Saint Martin French West Indies. "Blood Substitutes", 2/8/02.
25. American College of Surgeons San Juan, Puerto Rico. "Artificial Oxygen Carriers in Bloodless Surgery", 2/9/02.
26. Johanniter Hospital Oberhausen Oberhausen, Germany. "Permissive Anemia", 3/23/02.
27. ESA/EAA Industrial Luncheon Workshop Nice Acropolis Center, Nice, France. "Oxygen Carriers:Preclinical Overview and Rationale for Use", 4/8/02.
28. 1st Austrian Congress on Bloodless Health Care Vienna, "The Anesthesiologist's View:Experience and Results of a Bloodless Center", 5/25/02.
29. Blood Conservation in Surgery Workshop, Frankfurt, Germany. "Permissive Anemia", 6/24/02.
30. 2002 Conjoint Meeting of Haematology Societies Adelaide. "New Horizons in Blood Management", 9/11/02.
31. 5th Congress of Anesthesiology Reanimation and Pain Therapy of Central America, Panama & Dominican Republic" San Pedro Sula, Cortes, Honduras Bloodless Surgery: History and Present State of the Art", "Tolerance of Anemia And Reduced Circulating Blood Volume", "Artificial Oxygen Carriers Bloodless Surgery", 11/6/02.
32. Emergency and Critical Care Medicine Saint Thomas. "Volume Resuscitation", 2/5/03.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

33. AMDATAT (Medical Association for Development and Advancement of Alternative Therapy to Transfusions) II Congreso Centroamericano Guatemala. "Management of the patient with Blood Clotting Disorders", "Management of the poly traumatized patient transfusion alternatives", 9/19/03.
34. Western Galilee Hospital, Naharyia, Israel. "BM&S", 1/16/04.
35. Bloodless Medicine and Surgery 2nd Portuguese Congress Lisbon, Portugal. "Bloodless Medicine and Surgery: Advantages for the Institution", "Acute Normovolemic Hemodilution", 2/19/04.
36. 13th World Congress of Anesthesiologists PARIS. Workshop "Minimizing Allogeneic Transfusion", 4/22/04.
37. German College of Surgeons Annual Meeting International Congress Centre of Berlin. "Actual Status of Therapy w/Artificial Oxygen Carriers", 4/30/04.
38. 10th International Nahariya Update Meeting on Emergency, Circulatory, Metabolic and Renal Disorders "Current Concepts in fluid resuscitation", 5/10/04.
39. Grand rounds, Department of Anesthesiology, Dalhousie University Halifax, Nova Scotia. "Surgical Blood Management"
40. "Blood-Sparing Medicine and Surgery: An Essential aspect of a safe and well organized transfusion service", Riga Latvia, "The concept of blood management, paradigm shift" Current status of artificial oxygen carriers (blood substitutes) July 5-9, 2004.
41. Meeting of the Israel Association of Obstetric Anesthesia Eilat, Israel. "Can we use blood salvage techniques in pregnancy? Nov 3-5, 2004.
42. American Anesthesia Day in Israel. "Artificial Oxygen Carriers in Resuscitation". September 26, 2005. The 20th International Congress of the Israel Society of Anesthesiologists Tel Aviv, Israel. "Parallel Panel 4:Hemorrhage in ICU and OR" Parallel Controversy 3:Restrictive vs. Liberal Fluids during Anesthesia Pro" September 27-29, 2005.
43. Australian Red Cross Bleed Service Course in Transfusion Medicine Sydney, Australia. "Back to the Patient:The Long and Winding Road"; Is Blood the Safest it Has Even Been?"; "Anemia in Critical Care". 5/10/06.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

44. 3rd Baltic Congress on Transfusion Practice and Transfusion Alternatives Riga, Latvia. “Anemia:Not an Innocent Bystander”; “Maximizing ANH”; Artificial Oxygen Carriers and Blood Substitutes”. June 28-30, 2006.
45. University of Puerto Rico School of Medicine San Juan, Puerto Rico “Blood saving techniques in modern medical practice “ 11/5/07.
46. 26th Annual Symposium Acapulco, Mexico “The Transfusion Trigger – Will We Ever Have One?” 1/22/08.
47. South Africa Society of Anesthesiologists Annual Meeting Cape Town “What to do if no blood is available but the patient is bleeding” 2/27/08
48. 21st International Congress of the Israel Society of Anesthesiologists Tel Aviv, Israel Chair, Transfusion Triggers and Targets, 9/16/08
49. American Association of Blood Banks (AABB) Annual Meeting Palais Des Congres de Montreal Quebec, Canada. Moderator, “Interface Between the Coagulation Laboratory and Cardiovascular Surgery, What’s What? “Moderator, “Excess Iron, Blood’s Hidden Risk”, “Blood Management and Bloodless Surgery How We Do It”. October 4-7, 2008
50. Puerto Rico Chapter Meeting San Juan, PR. “Bloodless Medicine”. American College of Physicians Conference “The Pre-operative Evaluation:An Anesthesiologist Point of View”, “Patient Blood Management, is it for the pediatric patient”
51. Western Galilee Hospital Nahariya Conference Israel “FFP Fact or Fantasy”, “Reasons for blood management”, “Myths of FFP as a coagulator”, 3/23-25/09.
52. Blood and Beyond 2009 CME Regional Blood Management Meeting Prince George Hotel, Halifax, “Anemia in the Critically Ill Patient”, “Risks, Benefits & Outcomes in the Surgical Patient”, 4/18-19, 2009.
53. Masimo meeting in Kokkaido, Japan “Patient Blood Management” 7/24/09.
54. Sir Charles Gairdner Hospital Western Australia “Patient Blood Management – An intraoperative anesthetic perspective” 8/28/09.
55. The Canadian Association of Critical Care Nurses Greater Edmonton Chapter Critical Care Concepts Chateau Louis Hotel and Conference Centre Edmonton, AB, “ Bloodless Medicine?”, Effective Management of Anemia:The Hidden Epidemic”, November 2, 2009.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

56. Society for the Advancement of Blood Management (SABM) 2009 Latin American Blood Management Conference Cancun, “Joint Commission Presentation”, “Immune Mediated Coagulopathy”, Prevalence, Detection and Management of Anemia in the Presurgical Patient – The Perspective from North America”, 11/11-11/14/09.
57. University of Toronto Transfusion Medicine Rounds “Patient Blood Management”, Toronto, Ontario, 1/28/10
58. Beijing Red Cross Blood Center – Patient Blood Management Symposium “Bloodless Medicine and Surgery to Patient Blood Management”, “The theory and practice of bloodless surgery”, Cell salvage in cancer and obstetric hemorrhage”, Beijing, 4/21-22, 2010.
59. Huaxi Hospital “Patient Blood Management”, Chengdu, China, 4/23/10.
60. Chinese Association of Anesthesiologists (CAA) “Bloodless Surgery:An Update”, Dalian, China, 4/24/10.
61. Management of massive bleeding in elective and emergency surgery satellite symposium “PCC in massive bleeding” Helsinki Finland, 6/13/10.
62. XXXIst International Congress of the International Society of Blood Transfusion (ISBT) “WHO Experts’ Working Group on Patient Blood Management”, Berlin, Germany, 6/29/10.
63. Society for the Advancement of Blood Management (SABM) Annual Meeting “Transfusion Alliance Education Session” Puerto Rico, 9/26/10
64. XXXI Societa Italiana de Farmacia (SIFO) Ospedaliera, Caliri, Italy “A model for a medical device:Floseal and the bloodless surgery”. 10/9/10. 117 Societa Italiana DiChirurgia (SIC) Congress Rome Italy “ Keynote speaker “Transfusion free surgery: Safety of blood transfusions in surgery” 10/11/10.
65. Anemia Management Update:An International Expert Forum on Blood Transfusion and ESA Use Amsterdam, The Netherlands. “Perspectives from USA”, 11/8/10.
66. Blood & Beyond Issues in Cardiovascular and Critical Care Conference “Perioperative Management of JW Patients”, “Iron Overload and Toxicity:A Hidden Danger Halifax, Nova Scotia, 2/5/11.
67. 61st Annual Meeting of the American College of Surgeons Puerto Rico Chapter “Fresh Frozen Plasma:Myths and Reality” and “Optimizing Blood Management in Surgical Patients”, San Juan, PR. 2/25/11.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

68. The Second Symposium on Blood Transfusion Management: Restrictive Blood Transfusion – A Safe and Wishful Medical Policy? Western Galilee Hospital, Nahariya “Award of Certificate of appointment to Prof Aryeh Shander as honorary chair of Israeli Alternative Blood Transfusion Group”, “When anemia becomes life threatening, 3/11/11.
69. World Health Organization (WHO) Global Forum for Blood Safety: Patient Blood Management. Dubai, United Arab Emirates “Introduction, Rationale and Overview of Patient Blood Management”, 3/14/11.
70. “Patient Blood Management – A Global Value Expert Board Meeting”, Glattbrugg, Switzerland. “Global Perspective I: Latest news – Report from 1st Global Consultation on PBM organized by WHO/Dubai”, “U.S. Perspective: PBM and the U.S. Department of Health and Human Services”, 3/21/11.
71. Vifor Pharma Advisory Board Panel, Tel Aviv, 4/27.11
72. XXXIV National Congress of the Italian Society of Vertebral Surgery (G.I.S.) Vicenza “Transfusion Free Surgery”. 5/5-7/11
73. European Society of Anesthesiology (ESA) 2011 7th Annual Meeting Amsterdam, The Netherlands. Chairperson, CSL Behring satellite symposium, 6/12/11. Refresher Course “Patient blood management: a multidisciplinary strategy to reduce the need for allogeneic blood” 6/12/11. Vifor Pharma scientific program session “Allogeneic blood transfusion” topic “Transfusion and patient outcome”. 6/13/11 Vifor Pharma industrial symposium on Blood Management “Preoperative anemia: from no metal to heavy metal” 6/13/11.
74. 22nd International Congress of the Israel Society of Anesthesiologists “Active steps to avoid autologous transfusion” Tel Aviv, Israel. 9/13/11
75. Critical Care Canada Forum “Patient Blood Management” Toronto, ON 11/13-16.
76. CSL Behring satellite symposium at the World Congress of Anesthesiologists (WCA) “A critical view on safety and efficacy data of transfusion of red blood cells, plates and fresh frozen plasma”. Buenos Aires, Argentina. 3/27/12. Masimo symposia at the WCA “Current state of patient blood management”. 3/26/12

NATIONAL PRESENTATIONS

1. Department of Anesthesiology, University of Texas, Houston, TX. “Alternatives to Transfusion”, 2/5/98.
2. Third Transfusion-Free Medicine and Surgery International Conference, Good Samaritan Hospital, Los Angeles, CA. “Anesthesia Management in Surgery without Blood Transfusion”, 9/11/98.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

3. Combined Grand Rounds, Departments of Anesthesiology and Surgery, St. Patrick's Hospital, Lake Charles, LA. "Bloodless Medicine and Surgery", 9/24/98.
4. Fourth National Seminar for Bloodless Medicine and Surgery, Chicago, "Tolerance of Anemia", 10/22/98.
5. Combined Surgery and Anesthesiology Grand Rounds, Providence Seattle Medical Center, Seattle, WA. "Alternatives to Transfusion", 2/9/99.
6. Department of Surgery Grand Rounds, Park Plaza Hospital, Houston, TX. "Current Blood Management for the Surgical Patient", 3/3/99.
7. Department of Surgery Grand Rounds, Memorial Medical Center, New Orleans, LA. "Bloodless Medicine and Surgery", 5/12/99.
8. Department of Surgery Grand Rounds, Cadlek Medical Center, Richland, WA. "Bloodless Medicine and Surgery", 5/26/99.
9. Abbott Laboratories, Chicago, IL. "Bloodless Medicine & Surgery", 6/28/99.
10. Surgical Symposium on Blood Management, Mayo Clinic, Rochester, MN. "Bloodless Medicine & Surgery", 7/29/99.
11. Department of Internal Medicine Grand Rounds, St. Joseph Hospital. Tacoma, WA. "Bloodless Surgery and Medicine", 10/22/99.
12. American Assoc. of Blood Banks (AABB) 52nd Annual Meeting, San Francisco CA. "Bloodless Medicine & Surgery", "Bioethics in the Treatment of the Jehovah's Witness Patient", 11/08/99.
13. Department of Internal Medicine Grand Rounds, San Ramon Regional Medical Center, San Ramon, CA. "Bloodless Medicine & Surgery", 12/02/99.
14. Combined Grand Rounds Departments of Surgery and Anesthesiology, Sacred Heart Medical Center, Spokane, WA. "Anemia in the ICU", 3/2/00.
15. Department of Anesthesiology Grand Rounds, DePaul Medical Center, VA Beach. "Strategies to Reduce Transfusions in the Hospitalized Patient", 3/9/00.
16. Department of Surgery Grand Rounds, East Jefferson General Hospital, Metairie, LA. "Anemia in the ICU", 03/21/00.
17. Combined Grand Rounds Departments of Surgery and Anesthesiology, Weirton Medical Center, Weirton, WV. "Anemia in the ICU", 3/28/00.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

18. Combined Grand Rounds Departments of Surgery & Medicine, Desert Regional Medical Ctr, Palm Springs, CA. "Transfusion Free Medicine & Surgery", 4/15/00.
19. Department of Surgery Grand Rounds, St. Luke's Hospital, Kansas City, MO. "Patient Outcomes in Orthopedic Surgery", 4/17/00.
20. Departments of Critical Care, Trauma and Surgery Combined Grand Rounds, West Virginia University Hospital, Morgantown, WV. "Anemia in Critically Ill Patients", 5/15/00.
21. Department of Internal Medicine and Surgery Combined Grand Rounds, Kadlec Medical Center, Richland, WA. "Transfusion Free Surgery", 5/19/00.
22. Department of Anesthesiology Grand Rounds, Metro Health Medical Center, Cleveland, OH. "Treatment of Hypovolemia", 7/11/00.
23. Department of Pulmonary and Critical Care Medicine Combined Grand Rounds, Broward General Hospital, Fort Lauderdale, FL. "Bloodless Medicine & Surgery in the Critically Ill Patient", 7/17/00.
24. Baptist Health Systems, Jackson, MS. "Anemia and Blood Management in the ICU", 8/7/00.
25. Phoebe Putney Memorial Hospital, Albany, GA. "Anemia and Blood Management in the ICU", 8/23/00.
26. North Central Baptist Hospital, San Antonio, TX. "Bloodless Medicine and Surgery", 9/7/00.
27. Mt. Sinai Hospital, Miami, FL. "Anemia and Blood Management in the ICU", 9/20/00.
28. Palmetto Richlands Memorial Hospital Columbia, SC. "Bloodless Medicine", 11/1/00.
29. Meriter Hospital Madison, WI. "Bloodless Medicine & Surgery", 12/8/00.
30. Meriter Hospital Madison, WI. "Benefits of Bloodless Medicine & Surgery", 12/7/00.
31. St. Lukes Hospital, Kansas City, MI. "Blood Conservation, 12/15/00.
32. Clinical Directions in Perioperative Blood Loss Management, Carefree, AZ. "Present and Future of Bloodless Medicine and Surgery" 1/5-7/01.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

33. Carolinas Medical Center, Charlotte, NC. "Bloodless Medicine and Anemia in the ICU", "Anemia and Blood Management in the ICU", 1/19/01.
34. Harvard Medical Program, Critical Care Fellowship, Boston, MA.. "Bloodless Medicine and Surgery in the ICU", 1/23/01.
35. Springhill Memorial Hospital Mobile, AL. "Anemia and Blood Management in the ICU", 1/25/01.
36. Detroit Riverview Hospital Troy, MI. "Surgical Blood Management", 1/31/01.
37. Duke University Medical Center Chapel Hill, NC. "Bloodless Medicine and Surgery", 2/7/01.
38. Spartanburg Regional Medical Center Spartanburg, SC. "Bloodless Medicine and Surgery in the ICU", 2/8/01.
39. National Association for Medical Direction of Respiratory Care, 24th Annual Educational Conference Arlington, VA. "Anemia, Transfusions & Blood Substitutes in the ICU", 3/15/01.
40. Saint Joseph Hospital/Creighton University Medical Center, Omaha, NB. "Bloodless Medicine and Surgery", 3/29/01.
41. Sunrise Hospital & Medical Center Las Vegas, Nevada. "Anemia and Blood Management in the ICU", "Bloodless Medicine and Surgery", 4/18/01.
42. Baptist Medical Center Birmingham, AL. "Transfusion Alternatives: Current Successes and Future Horizons", 6/1/01.
43. St. Louis University Hospital St. Louis, MS. "Bloodless Surgery", 6/13/01.
44. University of Tennessee Medical Center Knoxville, TN. "Anemia in the ICU", 6/18/01.
45. Maricopa Medical Center Phoenix, AZ. "Bloodless Medicine and Surgery", 7/13/01.
46. Gulf Coast Medical Center Biloxi, MS. "Bloodless Medicine and Surgery", 7/16/01.
47. Vanderbilt University School of Medicine Nashville, TN. "Anemia and Blood Management in the ICU", 7/23/01.
48. Greenville Memorial Hospital Greenville, SC. "EPO and Critical Care Medicine", 8/10/01.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

49. Baptist Medical Center Birmingham, AL. “Bloodless Medicine and Surgery”, 8/13/01.
50. Fletcher Allen Health Care Burlington, VT. “Bloodless Medicine and Surgery”, 8/16/01.
51. Grant Medical Center Columbus, OH. “Fluid Management and Oxygen Delivery in the Trauma Patient”, 8/22/01.
52. Broward Regional Medical Center Hudson, FL. “Anemia and Blood Management in the ICU”, 8/23/01.
53. Mills-Peninsula Hospital Burlingame, CA. “Bloodless Medicine and Surgery”, 9/5/01.
54. Delray Medical Center Delray Beach, FL. “Anemia and Blood Management in the ICU”, 9/6/01.
55. 2001 Symposium on Blood Conservation in Medicine and Surgery: Achievements, Innovations, and Challenges”, “Management of Extreme Anemia – Physiology and Therapy”, 9/29/01.
56. Upper Chesapeake Harford Memorial Hospital Maryland. “Management of ICU Anemia”, 10/20/01.
57. Saint Alphonsas Regional Medical Center Boise, ID. “Bloodless Medicine and Surgery”, 10/22/01.
58. Cape Cod Hospital Brewster, MA. “Anemia in the ICU”, 10/25/01.
59. Spartanburg Regional Medical Center Spartanburg, SC. “Anemia and Blood Management Issue”, “Surgical Blood Management”, 12/4/01.
60. St. Agnes Medical Center Fresno, CA. “Surgical Blood Management”, 1/16/02.
61. St. Joseph’s Hospital Tampa, FL. “Management of Anemia in the ICU”, 1/31/02.
62. Moorehouse School of Medicine Atlanta, GA. “Management of Anemia in the ICU”, 2/13/02.
63. Idaho Society of Anesthesiologists Sun Valley, ID. “Oxygen Therapeutics Artificial Oxygen Carriers”, 3/2/02.
64. Duke University Medical Center Durham, NC. “Blood Conservation Methods”, “Blood Management Issues”, Journal Club, 3/5/02.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

65. Mercer University Macon, GA. "Management of Anemia in the ICU", 3/14/02.
66. Conemaugh Regional Trauma Center Johnstown, PA. "Surgical Blood Management", 3/15/02.
67. Northside Hospital St. Petersburg, FL. "Surgical Blood Management", 4/4/02.
68. Bayfront Medical Center St. Petersburg, FL. "Anemia in the ICU", 4/4/02.
69. Swedish Medical Center Annual Bloodless Medicine Conference. "Anesthesia Strategies to Minimize Blood Loss", 5/3/02.
70. Forest Park Hospital St. Louis, MO. "Bloodless Medicine and Surgery Techniques", 5/7/02.
71. SSM System St. Louis Symposium SSM DePaul Health Center, Bridgeton, MI. "Bloodless Surgery", 5/15/02.
72. Mission St. Joseph's Hospital Asheville, NC. "Anemia and Blood Management in the ICU", 5/17/02.
73. Spartanburg Regional Medical Center/SABM Symposium, Asheville, NC. "Artificial Oxygen Carriers in the Future", 5/18/02.
74. Christus St. Joseph Hospital Houston, TX. "Blood Conservation and Management in the 21st Century", 6/10/02.
75. North Broward Hospital. "Blood Medicine and Surgery: Practice and Principles", 6/20/02.
76. Nacogdoches Medical Center Nacogdoches, TX. "Blood Conservation", 8/12/02.
77. Methodist Hospital Indianapolis, IN. "Blood Management Issues in the ICU", 9/18/02.
78. Sunrise Hospital and Medical Center Las Vegas, NV. "Bloodless Medicine and surgery, Anemia Management in the Surgical ICU and Trauma ICU", 9/26/02.
79. Sunrise Hospital and Medical Center Las Vegas, NV. "Physiology and Treatment of Severe Anemia", 9/27/02.
80. Upper Chesapeake Health Critical Care 2002 Conference, Baltimore, MD. "New Vehicles for Volume Resuscitation", 10/19/02.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

81. University of Tennessee Memphis, TN. “Anemia Management in the ICU”, “Artificial Oxygen Carriers in the ICU”, “Blood Management Issues in the ICU”, 10/22-23/02.
82. Sacred Heart Medical Center Spokane, WA. “Bloodless Medicine and Surgery”, 10/29/02.
83. Meriter Hospital Madison, WI. “Artificial Oxygen Carriers”, “Bloodless Medicine and Surgery”, 10/29-30/02.
84. American College of Chest Physicians (ACCP) 2002 Conference, San Diego, CA. “Session Grand Rounds II: The Cardiopulmonary Patient and Blood Transfusion Summary”, 11/7/02.
85. Lakewood Regional Medical Center Lakewood, CA. “Anemia Management in Surgical ICU and Trauma ICU”, 11/15/02.
86. St. Thomas Hospital Nashville, TN. “Anemia in the ICU”, “Other Management of Anemia: Artificial Oxygen Carriers in the ICU”, 11/25/02.
87. Brownsville Medical Center Brownsville, TX. “Bloodless Medicine and Surgery: Clinical Strategies and Patient Benefits”, 1/6/03.
88. Memorial Hospital Baptist Campus New Orleans, TX. “Anemia Management in the Critically Ill Patient”, 1/17/03.
89. Sharp Chula Vista Medical Center Chula Vista, CA. “Blood Management Strategies in the Critically Ill Patient”, 2/10/03.
90. Idaho Society of Anesthesiologists Symposium Sun Valley, ID. “New Modalities in Volume Resuscitation”, “Non Blood Management of Extreme Anemia”, 2/21-23/03.
91. Spartanburg Regional Medical Center Spartanburg, SC. “Safety and Efficacy of Blood Transfusions in the Critically Ill Patient”, “Managing Anemia in Specific Patient Populations”, 3/25/03.
92. Society of Air Force Clinical Surgeons 50th Annual Meeting San Antonio, TX. Trauma and Critical Care Scientific Session: Strategies to Reduce Military and Civilian Transfusions (STORMACT) “Volume Resuscitation”, 4/2/03.
93. American Association of Blood Banks (AABB) and the Cleveland Clinic: Current Perspectives in Blood Conservation, Cleveland, OH. “Anemia in the ICU” 4/5/03.
94. Covenant Medical Center Lubbock, TX. “Bloodless Management Strategies in the Critically Ill Patient”, 4/11/03.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

95. The Cleveland Clinic Foundation, Cleveland, OH. "Blood Management Strategies in the Critically Ill Patient", 4/21/03.
96. 1st Annual Regional Blood Conservation Conference Workshops & Symposium Kansas City, MO. "Overview of Blood Management", "Anesthesiology & Blood Management", 4/25/03.
97. BCA/Hemera Medical Directors Networking Conference Lake Tahoe, CA. "Overview of Blood Conservation Measure/Transfusion Alternatives", 5/6/03.
98. Transfusion Alternatives – Emerging Trends Medical Symposium, Portland, OR. Oregon Health and Science University and American Red Cross: "Peri-Operative Transfusion Alternative-Case Scenarios", 6/4/03.
99. VCU Health System Richmond, VA. "Blood Management Strategies in the Critically Ill Patient", 6/19/03.
100. Carolinas Medical Center, "Bloodless Medicine and Surgery", 7/10/03.
101. Twelve Oaks Medical Center Houston, TX. "Managing Anemia in the Surgical Patient", 7/15/03.
102. Offsite program, Little Rock, AR. "Managing Anemia in the Critically Ill Patient", 7/30/03.
103. Governmental Agency presentation for Abbott Laboratories, Washington DC. 8/13/03.
104. Medical College of Georgia Augusta, GA. "Blood Management Strategies in the Critically Ill Patient", 8/27/03.
105. Orange County Memorial Medical Center Fountain Valley, CA. "Blood Management Strategies in the Critically Ill Patient", 9/11/03.
106. Rush Presbyterian St. Lukes Hospital Chicago, IL. "Blood Management Strategies in the Critically Ill Patient", 9/17/03.
107. Rush Presbyterian St. Lukes Hospital Chicago, IL. "Safety and Efficacy of Blood Transfusions in the Critically Ill Patient", 9/18/03.
108. 17th Annual Kaiser Permanente Anesthesiology Symposium Anesthesiology Update: "Hot Topics" 2003 San Francisco, CA. "Oxygen Carrying Blood Substitutes: Current Status", 9/20/03.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

109. American Society of Anesthesiology (ASA) 2003 Conference San Francisco, CA. ASA Refresher Course “Bloodless Medicine and Surgery”, 10/12/03.
110. American Society of Anesthesiology (ASA) 2003 Conference, San Francisco, CA. “Anesthesiology, Leading the Way in Blood Conservation”, 10/14/03.
111. Pediatric Bloodless Medicine and Surgery 2nd Annual Educational Symposium Children’s Hospital Madera, CA. “Bloodless Care in the Pediatric Patient Where are We and Where are We Going”, 10/18/03.
112. American College of Surgeons 89th Annual Clinical Congress Hemoglobin Alternatives in Trauma and Emergency Surgery Chicago, IL: “Clinical Efficacy and Advantages of Hemopure and Hemolink”, 10/20/03.
113. American College of Chest Physicians (ACCP) Chest 2003. Gaylord Palms Convention Center Kissimmee, FL. “Blood Sparing Modalities: Which Ones and What do they offer your patient”, 10/29/03.
114. Blood Conservation Techniques in Anesthesia Seattle, WA. “Anesthesia Techniques & Strategies for Blood Conservation”, 11/17/03.
115. St. Agnes Healthcare Baltimore, MD. “Managing Anemia in the Surgical Patient”, 3/11/04.
116. Duke University Medical Center Durham, NC. “Bloodless Medicine and Surgery”, 3/16/04.
117. AABB Perioperative Conference Tampa Bay, FL. AABB Organizing Committee “Hemostasis”; “Blood Substitutes”; “Maximizing Normovolemic Hemodilution”, Workshop AABB Accreditation for Autologous Transfusion Services, 4/4/04.
118. King Drew Medical Center Los Angeles, CA. “Bloodless Medicine and Surgery”, 4/9/04.
120. University Hospital Augusta, GA “Bloodless Medicine and Surgery, 5/27/04.
121. Carolinas Medical Center Williamsburg, VA. “Blood Conservation: What is the Hemoglobin Trigger? 6/18/04.
122. SABM Symposium 2004 Bal Harbour, FL. “What’s New in Blood Management 2004? European and US Perspectives”; Workshop Cell Salvage – How to Achieve a Quality Product” SATELLITE symposium Reducing Surgical Blood Loss Medical & Economic Impacts “Surgical Bleeding and Transfusions: The Issues in 2004”, 9/10/04.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

123. St. John's Medical Center Jackson, WY. "Safety and Efficacy in the Critically Ill Patient", 9/23/04.
124. AmSECT Twelfth Annual Symposium Jackson Hole, WY. "Emerging Risks of Blood Transfusion" & "Transfusion Medicine in Cardiac Surgery"
125. SSM Healthcare mini conference St. Louis, MO. "Blood Management Strategies in the Critically Ill Patient", 9/27/04.
126. Olathe Medical Center Olathe, Kansas City "Safety and Efficacy of Blood Transfusions in the Critically Ill Patients", 10/6/04.
126. Providence Everett Medical Center Everett, WA. "Transfusion Free Care of the Cardiovascular Patient", 10/14/04.
127. American College of Chest Physician Conference Seattle, WA. "Blood sparing modalities: which ones and what do they offer your patient"
128. Methodist Hospital Arcadia, CA "Blood Management Strategies in the Critically Ill Patient", 11/17/04.
129. International Symposium on Blood Management Miami Beach, FL "Current Risks and Complications of Blood Transfusion, 11/21/04.
130. American Association of Blood Banks (AABB) 2005 Conference New Orleans, LA "Optimizing the Patient for Surgery" & Hemoglobin-Based Oxygen Carriers Overview" New Orleans, LA April 22-24, 2005.
131. Carolinas Medical Center Bloodless Medicine & Surgery program Charlotte, NC. 5/5/05.
132. The Advocacy Caucus Capital Hilton Hotel Washington, DC. Set up and implemented advocacy conf; co-chaired critical care summit. May 18-19, 2005.
133. Medical City Dallas Hospital, Dallas, TX. 8/2/05.
134. SABM Symposium 2005, Phoenix, AR. "Association Of IV Iron Administration And Infection In Critically Ill Anemic Patients", 9/16/05.
135. SABM Symposium 2005, Phoenix, AR. "Ten-Year Experience With Bloodless Medicine & Surgery Patients With Gastrointestinal Bleeding", 9/16/05.
136. AABB 2005 Annual meeting Seattle, WA. National Anemia Action Council (NAAC) session: "Anemia in Critical Illness", 10/18/05.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

137. AABB 2005 Annual Meeting Seattle, WA. Hot topics in perioperative blood management: “Is it time for routine hemoglobin assessment and optimization prior to surgery?”
138. 91st Annual Clinical Congress San Francisco, CA. “Risks and Benefits of Blood Transfusion in Surgery”, 10/19/05.
139. American Society of Anesthesiologists (ASA) 2005 Annual Meeting, Atlanta, GA. Transfusion Triggers: How Low Can You Go. “Low Hematocrit Can be Safely Tolerated to Avoid Transfusion”
140. Bleeding and Transfusion in Cardiovascular Disease Think Tank meeting Washington, DC participant. January 15-17, 2006. Duke University Medical Center.
141. Boca Raton Community Hospital Boca Raton, FL. “Surgical Blood Management” 02/01/06.
142. Maine Medical Center Portland, MD. “Pre OP Programs” February 15-16, 2006.
143. Rhode Island Hospital Providence, RI. “Transfusion Free Medicine and Surgery – What Will it Offer You and Your Patients”, 2/28/06.
144. Vermont Perspectives in Anesthesia, Stowe, VT. “Anemia: No Longer an Innocent Bystander”. 3/11/06.
145. Medical City Dallas, TX. “Blood Management: What all clinicians should know”, 4/12/06.
146. 2nd Regional Blood Conservation Conference, Kansas City, MI. “Anemia in the Critically Ill Patient”, Panel: Protocols: Preventing Anemia in the ICU. 4/27-28/06.
147. American Society of Pediatric Hematology Oncology and Pediatric Academic Societies’ Annual Meetings (ASPHO), San Francisco, CA. Panel: Difficult Coagulation Consults “Bloodless Medicine: Strategies to Avoid/Minimize Transfusion of Blood Products”. 4/28-5/1/06.
148. Hospitalists’ Perspective: Evidence-Based Strategies to Address Inpatient Anemia Symposium, Wash, DC. “Perioperative Anemia Management for Improved Medical and Economic Outcomes”, 5/3/06.
149. Jackson Memorial Hospital Miami, FL “Appropriate Use of Erythropoietic Therapy for Chemotherapy-Induced Anemia”, 5/18/06.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

150. Swedish Medical Center Seattle, WA. "Anemia in the ICU" and "Blood Management", 5/25/06.
151. Boston Medical Center, Boston, MA. "Blood Surgical Management", 6/5/06.
152. Bronson Methodist Hospital Kalamazoo, MI. "Providing resources and education for optimizing the patient" 6/7/06.
153. Northeast Baptist Hospital, San Antonio, TX. "Appropriate Use of Erythropoietic Therapy for Chemotherapy-Induced Anemia". 6/23/06.
154. St. Lukes Hospital Bethlehem, PA. "Appropriate Use of Erythropoietic Therapy for Chemotherapy-Induced Anemia. 7/24/06.
155. Boca Raton Community Hospital Boca Raton, FL. "Surgical Blood Management" 8/25/06.
156. Critical Care Board Review 2006 Orlando, FL. "Blood and Blood Products/Blood Substitutes" and "Bleeding Disorders, Coagulation Problems, and Massive Transfusion" 8/28/06.
157. San Diego, CA. "Appropriate Use of Erythropoietic Therapy for Chemotherapy Induced Anemia" 8/31/06.
158. Virginia Commonwealth University (VCU) "Lessons learned from the Jehovah's Witness patient". Richmond, VA. 09/09/06.
159. Grant Medical Center Columbus, OH. "Bloodless Medicine and Surgery". Columbus, OH, 11/29/06 & 11/30/06.
160. University of Virginia Health System Charlottesville, VA. "Risks and Complications of Blood Transfusion" 1/23/07.
161. Boca Raton Community Hospital Boca Raton, FL. "Blood Management", 2/15/07.
162. Legacy Good Samaritan Hospital Portland, OR. "Blood Management", 3/1/07.
163. Shasta Regional Medical Center Redding, CA. "Blood Management", 3/29/07.
164. Anemia in the Critically Ill and Injured Patient La Mansion del Rio Hotel San Antonio, TX. "Iron in the Critically Ill", "Bloodless Medicine", Blood substitutes: where we are". April 12-13, 2007.
165. Transfusion Free Medicine and Surgery SABM New England Regional Conference Rhode Island Hospital Rhode Island "Risks and Complications of Blood Transfusions", "Understanding Blood Substitutes", "Indications, Efficacy

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

and Safety of NovoSeven”, “All You Wanted to Know About Blood Conservation” April 17, 2007.

166. Annual Seminar of the Annual Meeting of the MAABB (Mid Atlantic Association of Blood Banks) “When Blood is Not an Option: Bloodless Medicine” Williamsburg, VA. April 20, 2007.
167. Surgical Grand Rounds Department of Surgery Good Samaritan Hospital Cincinnati, OH. “Surgical Blood Management”, May 4, 2007.
168. Mechanisms of Perfusion XXII Orlando, FL. “Surgical Blood Management”, May 10, 2007.
169. Eastern Maine Medical Center Bangor, ME. “Blood Conservation”, June 3, 2007.
170. Boone Hospital Center Columbia, MO. “Blood Conservation and Management”, June 11, 2007.
171. 10th Annual Duke Cardiothoracic Regional and Critical Care Update. “Allogeneic blood components: priceless resource or transient fix”. Hilton Head, SC. June 19, 2007.
172. Planned, provided data and implementation of a national workshop series on Blood management, “Implementing a Blood Management Program” Cleveland, OH. June 25, 2007.
173. Thomasville Medical Center Thomasville, NC. “Bloodless Medicine & Surgery” August 27, 2007.
174. SABM Annual Meeting Hollywood, CA. AdvanceMed satellite symposium. “The Quest for Ideal Erythropoiesis: A Preoperative Red Blood Cell Production”. September 8, 2007.
175. McLaren Regional Medical Center Flint, MI. “Anemia Differentiation Signs and Symptoms in Management”; Surgical Principles in Blood Conservation”; Blood Management in the Surgical Arena”; Blood Conservation and Blood Management in Overview”. September 27-28, 2007.
176. Baptist Health South Florida “Bloodless Medicine & Surgery”. 10/3/07.
177. ASCCA (American Society of Critical Care Association (ASCCA) annual meeting San Francisco, CA “Interactive Clinical Form” 10/12/07.
178. ASA (American Society of Anesthesiologists (ASA) annual meeting San Francisco, CA. Transfusion Triggers. “Rational use of blood and blood products”. 10/17/07.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

179. Optimizing Blood Management in Cardiovascular Surgery: Why & How. "Strategies to Reduce Use of Allogeneic Blood Transfusion in Cardiovascular Surgery" Anaheim Marriott, Anaheim, CA. 10/22/07.
180. UCLA, CA Grand Rounds "Strategies for blood saving techniques and blood conservation in the perioperative setting". 10/31/07.
181. American Society of Health System Pharmacists (ASHP) Chicago, IL. "Clinical Overview & Current Concepts of Blood Product Administration. 11/10/07.
182. Lake West Hospital Willoughby, OH "Anemia: Differentiation, Signs, Symptoms & Management" & "Surgical Principles and Blood Conservation". 11/30/07.
183. Bloodless Medicine & Surgery. St. Luke's Hospital of Kansas City. 12/19/07.
184. Washington D.C. Chapter of American society of Health System Pharmacists". "Blood management in surgical patient". 1/29/08.
185. The First Great American Fluid Debate Duke Medicine Sonoma, CA. "Recent evidence of restrictive vs liberal transfusion strategies". "Pre-operative EPO and AOCs" and "Restrictive Transfusion Practice Still Saves Lives". 3/26-28, 2008.
186. Society for the Advancement of Blood Management (SABM) New England Regional Blood Management Conference. "Iron in the Critically Ill Patient". Providence, Rhode Island. 4/12/08.
187. Lake West Hospital Willoughby, OH. "Tales from Transylvania: All you need to know about Transfusions". 4/16/08.
188. Wuesthoff Health System Rockledge, FL "Surgical Blood Management" "Bloodless Medicine and Surgery". 5/6/08.
189. Mechanisms of Perfusion XXII Conference Orlando, FL "AOC's is there anything new?" 5/15/08.
190. Oregon Society of Anesthesiologists Annual Meeting Gleneden Beach, OR "Surgical Blood Management" and Update on Artificial Oxygen Carriers" 5/17/08.
191. Fairview Hospital Cleveland, OH "Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding". 6/18/08
192. Shands Hospital at University of FL "Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding", 6/25/08.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

193. Los Angeles County USC Medical Center “Operative Hemostasis Presentation”, 7/21/08
194. Delta Blood Bank Transfusion Medicine Summer Seminar Stockton, CA “Bleeding during surgical procedures”, 7/26/08
195. Presbyterian Hospital of Plano, TX “Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding”, 7/29/08
196. Kettering Medical Center Dayton, OH “Risks and outcomes associated with allogeneic blood transfusion”, 7/31/08
197. St. Luke’s Hospital Kansas City, MO “Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding”, 9/4/08
198. St. Luke’s Mid America Heart Institute Kansas City, MO “Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding”, 9/4/08
199. Society for the Advancement of Blood Management (SABM) Annual Meeting Baltimore, MD. “Current Status of Hemostasis Management in Large Blood-Loss Surgery” 9/12/08.

Advocating Blood Management Strategies in the Surgical Patient. “Evidence Based Intraoperative and Postoperative Surgical Blood Management”. 9/13/08.
Transfusion Alliance Education Session “Interface Between Coagulation Laboratory and the Clinical Setting: What’s What?” 9/14/08.
200. 2008 Annual Meeting American Society of Anesthesiologists (ASA) Orlando, FL Pro Co-Moderator “Managing DCD:Every Anesthesiologist Should do it”, 10/18/08. Moderator Transfusion Medicine Session. “FFP:Facts and Fantasy”. 10/22/08. Transfusion Practices Panel “Perioperative Blood Saving Strategies including Pharmacotherapies”, 10/21/08. Fluid Management Panel “Are all colloid created equal”, 10/19/08
201. Georgia Society of Anesthesiologists Winter Forum 2009 Atlanta, GA “Patient Blood Management for Surgical Patients in the ICU”. “Fresh Frozen Plasma:Fact or Fantasy”, 1/31/09.
202. The 2nd Annual Great American Fluid Debate Duke Medicine CA “Restrictive Transfusion Practice Still Saves Lives”, 3/13/09
203. SABM (Society for the Advancement of Blood Management) 2009 New England Regional Blood Management Conference Rhode Island “Plasma Avoidance – Fact or Fantasy”, “Excess Iron:Blood’s Hidden Risk”, 3/28/09.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

204. Transfusion Sparing Workshop Phoenix, AZ “IV Iron and Transfusion Sparing”, 4/6/09.
205. Panel leader International Consensus Conference on Transfusions and Outcomes (ICCTO) Phoenix, AZ, 4/3-5/09.
206. 55th California Blood Bank Society (CBBS) Annual Meeting, Lake Tahoe, Nevada, “Blood Management”, 4/30/09.
207. SABM (Society for the Advancement of Blood Management) 2009 Pacific Northwest Regional Blood Management Conference, Seattle, Washington, “Fresh Frozen Plasma:fact or fantasy”, 5/2/09.
208. Creighton Medical Center, Omaha, Nebraska “Transfusion management including use of noninvasive hemoglobin”, 5/4/09.
209. Nebraska Medical Center, Omaha, Nebraska “Post Surgical Iatrogenic IMC:Immune-Mediated Coagulopathy and Acquired Specific Factor V Inhibitors”, 5/4/09.
210. Creighton University Medical Center, Omaha, Nebraska “Post Surgical Iatrogenic IMC:Immune-Mediated Coagulopathy and Acquired Specific Factor V Inhibitors”, 5/4/09.
211. St. Luke’s Hospital Kansas City, MO “Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding”, 7/9/09.
212. Joseph M. Still Burn Center Augusta, GA “Immune Mediated Coagulopathy”, 7/16/09
213. Southwest General Health Center Strongsville, OH “Update on Blood Management” 9/2/09
213. Society for the Advancement of Blood Management annual meeting Kansas City, MO. “The Value of a Blood Management Program in Current Economic Times”, “The Joint Commission’s Requirements for Blood Management”, “Meet the Expert Joint Commission Updates”, “Transfusion Alliance Session”. Improving Blood Management Strategies for the Surgical Patient:Preoperative Anemia Identification and Perioperative Reduction in Transfusions “”Perioperative Blood Management:Options to Reduce Transfusions”. 9/11-13/09
214. State of the Science Symposium in Transfusion Medicine Hemostasis and Thrombosis Workshop “Acute Normovolemic Hemodilution” Bethesda, MD 9/14-15/09

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

215. American Society of Anesthesiologists (ASA) Annual Meeting. Moderator Transfusion Update 2009: Committee on Blood Management and Critical Care Medicine Track Joint Panel “Transfusion and Outcome: A Fresh Look at an Old Problem”, co-Moderator New Understanding of Hemostasis The Balance Between Bleeding and Clotting “Cost of Blood Transfusion: Blood Money: Can We Afford It?” Breakfast Symposium “Public Health Implications: Clinical and Economic Burdens of Post-operative Pulmonary Complications” New Orleans, 10/17/09
216. American Association of Blood Banks (AABB) Annual Meeting Preoperative Anemia Society for the Advancement of Blood Management (SABM)/American Association of Blood Banks (AABB) Joint Program. AABB Industry Workshop Excess Iron: Blood’s Hidden Risk. New Orleans, LA, 10/26/09
216. Meriter Hospital Madison, WI “Patient Blood Management”, 10/28/09.
217. Minnesota Society of Anesthesiologists Annual Fall Conference “Patient Blood Management”, “FFP: Fact of Fiction”, 11/7/09.
218. Northern Michigan Regional Hospital Petoskey, MI “Patient Blood Management”, 11/18/09.
219. Patient Safety Summit: Strategies for Preventing Postoperative Pulmonary Complications (PPC). Washington, DC Co-Chairs: Aryeh Shander, MD and Lee Fleisher, MD. “Clinical Burden of PCP and the Need for Better Perioperative Pulmonary Management”, December 6-7, 2009.
220. American Red Cross Medical Advisory Council Meeting Washington, DC “Blood Management: Rationale and Impact on usage”, 12/16/09
221. Noble Hospital Westfield, MASS “Effective Approaches to Patient Blood Management for Improved Outcomes”, 12/22/09.
222. Institute of Medicine Workshop on Standards for Clinical Practice Guidelines Washington, DC “Driving quality standards for the development of clinical practice guidelines”, 1/11/10
223. SCCM 39th Critical Care Congress Miami Beach, FL “Transfusions: Who, What, and When Should we Transfuse?”, “Myths and Realities of Bloodless Medicine”, 1/11-12/10.
224. Transfusion Safety Protocol Building Workshop Kettering Medical Center Dayton, OH, 3/15/10.
225. Wisconsin Perfusion Society Program “Blood Management”, Wisconsin Dells, WI 3/26/10.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

226. 23rd Annual Kaiser Permanente Anesthesiology Symposium, “Patient Blood Management and the role of continuous hemoglobin monitoring”, San Francisco, CA, 4/24/10.
227. New Orleans Society of Cardiovascular Anesthesiologists 32nd Annual Meeting “What’s new in Haematinics?”, New Orleans, LA, 4/25/10.
228. Mayo Clinic Rochester, MN “Fresh frozen plasma myths and realities”, “Management of severe life threatening anemia in patients for whom blood is not an option”, 5/3/10.
229. Kansas City University Medical Center “FFP:Myths and Realities”, “The Pathologists’s role in Blood Management – How much blood is too much?”, Kansas City, MO, 6/8/10
230. Abbott-Northwestern Hospital “Patient Blood Management” Minneapolis, MO, 10/26/10.
231. Mercy Hospital “Fresh frozen plasma:fact or fiction” Coon Rapids, MN, 10/26/10.
232. Unity Hospital “Patient Blood Management”, St. Paul, MN, 10/26/10.
233. Inova Fairfax Hospital, “Immune Mediated Coagulopathy”, Falls Church, VA, 11/3/10.
234. Cleveland Clinic 2nd Blood Management Summit 2010, “Don’t believe the Price Tag: Measuring the Real Cost of Transfusion”, Cleveland, OH, 11/13/10.
235. Good Samaritan Medical Center “Patient Blood Management”, West Palm Beach, FL, 11/17/10.
236. Society of Critical Care Medicine (SCCM) 40th Critical Care Congress “Fresh Frozen Plasma...Enough Already” San Diego, CA. 1/15/11.
237. Waccamaw Community Hospital “Patient Blood Management: Proactive Approaches to Reduce Transfusions”, Murrells Inlet, SC. 1/31/11.
238. United Regional “Blood Conservation/Management as a Benefit to the Hospital”. Wichita Falls, TX. 6/21/11.
239. Every Drop Counts Seminar “Blood Management” Portsmouth, NH. 9/2/11.
240. American College of Surgeons 97th Annual Clinical Congress “Joint Commission Blood Management Measure” San Francisco, CA. 10/23/11.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

241. American Association of Blood Banks Annual Meeting “Iron Overload” San Diego, CA.
242. 6th Annual Trauma and Critical Care Symposium Topeka Capitol Plaza Hotel “FFP:What are the Indications for Transfusion?”, “Blood Transfusion in the ICU:Why/Why Not” Topeka, Kansas City 10/28/11.
243. AARC International Respiratory Congress “Beyond the OR:Implicaitons of Intubation on Patient Outcomes”. Tampa, FL. 11/6/11
244. Our Lady of the Resurrection Medical Center “Topical Hemostats:An Inside Perspective”, 11/9/11.
245. Medical University of South Carolina “”Fluid Management in Clinical Practice:One Size Does Not Fit All”, Charleston. 11/22/11
246. OPK Biotech LLC Advisory Meeting “When Anemia becomes life threatening”, Cambridge, MA. 12/1/11
247. Eastern Virginia Medical School “Patient Blood Management” Norfolk, VA 1/11/12.
248. Georgetown University Hospital “Patient Blood Management” Washington, DC 1/19/12.
249. Blood Conservation CME Dinner STS Symposium “Establishing a Blood Conservation Program, 1/28/12.
250. University of Alabama Birmingham, AL 40th Annual Anesthesiology Review “Update on Patient Blood Management” and “Fresh Frozen Plasma: Myths and Realities, 2/18/12.
251. Surviving blood loss review meeting “Possible phases I and II sites” Arlington, VA. 3/18/12
252. Masimo symposium during the 50th Annual Weil/Eisenhower Medical Center symposium on Critical Care and Emergency Medicine “Hemoglobin monitoring and the new transfusion guidelines”, 4/10/12.

REGIONAL PRESENTATIONS

1. Mount Sinai School of Medicine and Albert Einstein College of Medicine, Combined Conference, Basic Science Review, New York, NY. “Physiology of Neuromuscular Blockade”, 6/92.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

2. Englewood Surgical Society, Englewood, NJ. “Advancement in Critical Care”, 9/94. “Use of Laryngeal Mask Airway”, 11/94.
3. Department of Pulmonary and Critical Care Medicine Combined Grand Rounds, North Shore Hospital, Huntington, NY. “Sedation of the Intensive Care Unit Patient”, 2/95.
4. Columbia University School of Nursing, New York, NY. “Evaluation of the Cardiac Patient”, 2/96.
5. M/SICU Nursing Staff, Englewood Hospital and Medical Center, Englewood, NJ. “Sedation in the ICU”, 3/96.
6. Department of Anesthesiology Grand Rounds, Methodist Hospital, Brooklyn, NY. “Sedation for the Critical Neurosurgery Patient”, 4/96.
7. New Jersey Board of Medical Examiners, Princeton, NJ. “Response to Board of Medical Examiners Regarding Managed Care: Status as Gatekeepers to the Operating Room”, 6/96.
8. NJSSA Symposium on Managed Health Care, Jamesburg, NJ. Principle Speaker – “Overview on Medical Economics”, 9/96.
9. Norwalk Hospital, Norwalk, CT. Critical Care Symposium: “Bloodless Medicine and Surgery as it Pertains to Critical Care” and “Acute Normovolemic Hemodilution & Vital Signs”, 4/97.
10. Department of Surgery Grand Rounds, Englewood Hospital and Medical Center, Englewood, NJ. C.M.E. In- Service Program: “Strategies in Advancing Bloodless Care”, 5/7/97.
11. Chairperson 1st Annual Conference, Strategies in Advancing Bloodless Care, Boston, MA. 5/19/97.
12. Yale University School of Medicine, New Haven, CT. Office of Postgraduate & Continuing Medical Education, Third Annual Anesthesia & Critical Care Symposium, “Clinical Assessment of Volume Replacement in Surgical Patients”, 9/6/97.
13. Department of Anesthesiology Grand Rounds, The Albany College of Medicine, Albany, NY. “Alternatives to Transfusion”, 11/13/97.
14. Departments of Medicine and Surgery Combined Grand Rounds, Bridgeport Hospital, Bridgeport, CT. “Alternatives to Transfusion”, 1/29/98.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

15. Departments of Medicine and Surgery Combined Grand Rounds, Cabrini Medical Center, New York, NY. "Bloodless Medicine and Surgery", 2/20/98.
16. Department of Medicine Grand Rounds. Englewood Hospital & Medical Center, Englewood, NJ. "Bloodless Medicine and Surgery: Anemia in Critical Illness", 3/26/98.
17. Departments of Anesthesiology and Surgery Combined Grand Rounds, Norwalk Hospital, Norwalk, CT. "Alternatives to Transfusion", 4/29/98.
18. OrthoBiotech, Raritan, NJ. "Surgical Blood Management", 5/12/98.
19. The Englewood Surgical Society, Englewood, NJ. "The Anatomy of a Medical Malpractice Case", 6/24/98.
20. Pinnacle Health System, Harrisburg, PA. "Transfusion-Free Medicine and Surgery", 10/14/98.
21. Department of Orthopaedics Grand Rounds, Faxton Hospital, Utica, NY. "Blood Management Strategies in the Surgical Patient", 11/18/98.
22. Department of Surgery Grand Rounds, University of Massachusetts Medical Center, Worcester, MA. "Perioperative Blood Conservation in the Orthopedic Patient", 11/24/98.
23. Department of Pathology, Anesthesiology, Surgery and Medicine Combined Grand Rounds, Columbia Memorial Hospital, Hudson, NY. "Bloodless Surgery", 12/11/98.
24. Department of Anesthesiology and Surgery Combined Grand Rounds, Staten Island University Hospital, Staten Island, NY. "Bloodless Surgery", 12/17/98.
25. Department of Medicine Grand Rounds, Metropolitan Hospital, New York, NY. "Alternatives to Transfusion and Bloodless Medicine & Surgery", 3/23/00.
26. Department of Surgery Grand Rounds, NYU Medical Center, New York, NY. "Alternatives to Transfusion and Bloodless Medicine and Surgery", 4/4/00.
27. Critical Care Division of the Department of Surgery Grand Rounds, Mount Sinai Medical Center, New York, NY. "Anemia in the ICU", 4/6/00.
28. OrthoBiotech Sales School, Branchburg, NJ. "Introduction to the Intensive Care Unit Environment", 4/7/00.
29. Department of Critical Care Medicine Grand Rounds, Sloan Kettering Memorial Hospital, New York, NY. "Anemia in the ICU", 4/11/00.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

30. Physicians Conference 2000, The Academy of Medicine, Sponsored by NJSSA,- Atlantic City Convention Center, Atlantic City, NJ. "New Advances in Bloodless Medicine & Surgery", 5/7/00.
31. Department of Surgery and Anesthesiology Combined Grand Rounds, Kings County Medical Center, Brooklyn, NY. "Alternatives to Transfusion", 5/17/00.
32. Department of Surgery Grand Rounds, Metropolitan Hospital, New York, NY. "Anemia and Blood Management in the ICU", 5/18/00.
33. Department of Pulmonary and Internal Medicine Combined Grand Rounds, Huntington Hospital, Huntington, NY. "Treatment of Anemia in the ICU", 5/26/00.
34. Department of Pulmonary and Internal Medicine Combined Grand Rounds, St. Vincent's Medical Center, Bridgeport, CT. "Anemia in the ICU", 5/30/00.
35. Department of Surgery and Internal Medicine Combined Grand Rounds, Central Suffolk Hospital, Riverhead, NY. "Anemia in the ICU", 7/13/00.
36. Department of Anesthesiology Grand Rounds, Norwalk Hospital, Norwalk, CT. "Treatment of Hypovolemia", 8/2/00.
37. Cornell University, New York, NY. "Anemia in the ICU", 8/10/00.
38. Southside Hospital, Bayshore, NY. "Anemia and Blood Management in the ICU", 8/17/00.
39. Community Medical Center, Toms River, NJ. "Anemia Management in the Hospitalized Patient", 10/12/00.
40. Westchester Medical Center, Valhalla, NY. "Anemia in the ICU", 11/13/00.
41. Winthrop University Hospital, Mineola, NY. "Bloodless Medicine and Surgery", 1/11/01.
42. Virtua Memorial Hospital, Mt. Holly, NJ. "Transfusion Medicine Update", 3/13/01.
43. Hudson Valley Hospital, Peekskill, NY. "Bloodless Medicine and Surgery", 4/2/01.
44. Hackensack University Medical Center, Hackensack, NJ. "Anemia in the ICU", 4/4/01.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

45. North Shore University Hospital, E. Norwich, NY. “Bloodless Medicine and Surgery”, 4/19/01.
46. 2nd Annual New Jersey Physicians Conference, Atlantic City, NJ. “New Advances in Bloodless Surgery”, 4/20-22/01.
47. Columbia Presbyterian Medical Center “Anemia and Blood Usage in the ICU”, 5/10/01.
48. University Medical Center “Anemia in the ICU – an Anesthesiologist’s Perspective”, 5/18/01.
49. SUNY Stony Brook Hospital New York, “Blood Management and Transfusion /Reduction”, ”Bloodless Medicine”, 5/24/01.
50. North Shore University Hospital, “Anemia and Blood Management in the Trauma Patient”, 6/21/01.
51. Norwalk Hospital, Norwalk, CT. “Bloodless Medicine and Surgery”, 6/22/01.
52. Huntington Hospital, Huntington, New York. “Bloodless Medicine in the ICU”, 6/28/01.
53. Long Island Jewish Medical Center, New Hyde Park, New York. “Alternates to Blood Transfusion”, 7/20/01.
54. The Valley Hospital, Ridgewood, NJ. “Bloodless Medicine in the ICU”, 8/8/01.
55. St. Joseph’s Regional Medical Center, West Orange, NJ. “Bloodless Medicine and Surgery”, 10/24/01.
56. Bridgeport Hospital, West Port, CT. “Alternatives to Blood Transfusion”, 10/31/01.
57. New Jersey State Society of Anesthesiologists Practice Management Seminar Welcome and Introduction, 11/3/01.
58. American College of Chest Physicians, Philadelphia, PA. The Blood Bank, ICU and Surgery: “Bloodless Surgery”, 11/4/01.
59. Jamaica Hospital Medical Center, “Surgical Critical Care”, 11/15/01.
60. New York Hospital Medical Center of Queens, “Bloodless Management Issues in the ICU”, 11/27/01.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

61. Medical Center of Queens, NY. "EPO and Critical Care Medicine", 12/5/01.
62. Mount Sinai Hospital, New York. "Anemia in the ICU", 12/6/01.
63. St. Raphael's Hospital, New Haven, CT. "Anemia in the Surgical ICU", 12/12/01
64. North Shore Hospital, Glen Cove, NY. "Procrit in the Perioperative Period", 12/12/01.
65. Alleghany General Hospital, Pittsburg, PA. "Anemia in the ICU", 12/19/01.
66. University of Connecticut, Farmington, CT. "Introduction to Bloodless Medicine & Surgery", 12/20/01.
67. University of Massachusetts, Boston, MA. "Bloodless Medicine and Surgery", 1/2/02.
68. Saint Claire's Hospital, Denville, NJ. "Anemia in the ICU", 2/12/02
69. St. John's Hospital, Patterson, NJ. "Bloodless Medicine & Surgery", 2/20/02.
70. Long Island Jewish Medical Center, New Hyde Park, NY. "Anemia and Blood Management", 2/28/02.
71. St. Joseph's Medical Center, Yonkers, NY. "Bloodless Management Issues in Surgery and the ICU", 3/6/02.
72. Long Island Jewish Medical Center, New Hyde Park, NY. "Anemia in the ICU", 3/12/02.
73. St. Peter's University Hospital, New Brunswick, NJ. "The Pharmacological Treatment of Anemia", 4/9/02.
74. St. Francis Hospital, Hartford, CT. "Bloodless Medicine and Surgery", 4/10/02.
75. New Jersey Association of Nurse Anesthetists Annual Spring Meeting Hightstown, NJ. "Ethical Issues in Blood Management", 4/20/02.
76. Society of Cardiovascular Anesthesiologists 24th Annual Meeting Anesthesiology News and Society for the Advancement of Blood Management CME Lunch Symposium, New York, New York, Optimization of Fluid Management: An Outcome-Based Approach Chair and Moderator, 4/21/02.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

77. New York Blood Center Blood Rounds on the Net “Blood Conservation Management: The Role of Hemodilution and Other Techniques in Surgery”, Live Interactive Web Conference, 4/29/02.
78. Mount Sinai Medical Center, New York, New York. “Artificial Oxygen Carriers”, 5/9/02.
79. SUNY Downstate Medical Center, Brooklyn, New York. “Blood Surgery and Medicine ”Anemia Management in Surgical ICU & Trauma ICU”, 7/25/02.
80. Englewood Hospital and Medical Center, Englewood, NJ. “Volume Resuscitation”, 8/8/02.
81. Pennsylvania Hospital, Philadelphia, PA. “Ethics in the Care of the Jehovah’s Witness Patient”, 9/4/02.
82. St. Joseph’s Regional Medical Center, Paterson, NJ. “Alternatives to Blood Transfusion”, 9/5/02.
83. Valley Hospital, Ridgewood, NJ. “Anemia Management in Surgical ICU and Trauma ICU”, 9/17/02.
84. Westchester Medical Center, Valhalla, NY. “Artificial Oxygen Carriers”, 11/12/02.
85. Long Island Jewish Medical Center, Great Neck, NY. “Blood Management in the Cardiothoracic Patient”, 11/12/02.
86. NYU Medical Center, New York, NY. “Surgical Blood Management”, 11/13/02.
87. Hartford Hospital, Hartford, CT. “Management of Anemia in the Critically Ill Patient and Intra-op Techniques for Blood Conservation and Transfusion Alternatives”, 11/21/02.
88. Englewood Hospital and Medical Center, Englewood, NJ. Department of Medicine, “Physiology & Treatment of Severe Anemia”, 12/2/02.
89. St. Barnabas Medical Center, Livingston, NJ. “Perioperative Anemia Transfusion Management”, 12/11/02.
90. Managing Anemia: Advances in Critical Care Education (ACCE) Lecture Speakers’ Training Meeting, New York, NY. “Bloodless Medicine and Surgery”, 12/16/02.
91. Englewood Hospital and Medical Center, Englewood, NJ. Department of Surgery/Anesthesiology, “Artificial Oxygen Carriers”, 1/8/03.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

92. Passaic General Hospital, Passaic, NJ. “Managing Anemia in the Critically Ill Patient”, 1/9/03.
93. Graduate Hospital, Philadelphia, PA. “Anemia in the ICU”, 1/11/03.
94. St. Joe’s Regional Medical Center, Paterson, NJ. “Managing Anemia in the Critically Ill Patient”, 1/23/03.
95. Winthrop University Hospital, Mineola, NY. “Managing Anemia in the Surgical Patient”, 2/13/03.
96. Our Lady of Mercy Hospital, Bronx, NY. “Blood Management Strategies in the Critically Ill Patient”, 2/19/03.
97. St. Joseph’s Regional Medical Center, Paterson, NJ. Anemia management in the Critically Ill Patient”, 2/27/03.
98. New Jersey & Pennsylvania Chapters Joint Meeting, Philadelphia, PA. “Anemia in the Critically Ill Patient”, 3/2/03.
99. Hackensack University Medical Center, Hackensack, NJ. “Anemia Management in the Surgical Patient”, 3/4/03.
100. University of Massachusetts Memorial Medical Center, Worcester, MA. “Bloodless Medicine & Surgery”, 3/12/03.
101. St. Joe’s Hospital, Paterson, NJ. “Managing Anemia in the Critically Ill Patient”, 3/18/03.
102. Sound Shore Medical Hospital, New Rochelle, NY. “Managing Anemia in the Surgical Patient”, 3/19/03.
103. Bio-Chemical Nuclear Terrorism, 45th Annual Spring Meeting, New Jersey Society of Anesthesiologists (NJSSA), Course Director, 3/22/03.
104. Our Lady of Mercy Hospital, Bronx, NY. “Blood Management Strategies in the Critically Ill Patient”, 3/27/03.
105. Saint Catherine of Siena Medical Center, Smithtown, NY. “Managing Anemia in the Critically Ill Patient”, 4/9/03.
106. Lenox Hill Hospital, New York, NY. “Bloodless Medicine and Surgery”, 5/2/03.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

107. UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ. Conference entitled, Bloodless Medicine and Surgery: Strategies to Maximize Outcome “Anesthetic Techniques to Improve Outcome in Bloodless Surgery”, 5/10/03.
108. New Jersey Society of Health-Systems Pharmacists “Therapeutic and Economic Considerations in the Treatment of Anemia”, 5/15/03.
109. Westchester Medical Center, Valhalla, NY. “Blood Management Strategies in the Critically Ill Patient”, 5/20/03.
110. St. Charles Hospital, Port Jefferson, NY. “Managing Anemia in the Critically Ill Patient”, 5/27/03.
111. St. Michael’s Medical Center, Newark, NJ. “Blood Management Strategies in the Critically Ill Patient”, 5/29/03.
112. UMDNJ New Jersey Medical School, “Practice Management”, 6/4/03.
113. Baystate Medical Center, Springfield, MA, “Managing Anemia in the Critically Ill Patient”, 6/6/03.
114. General Hospital, Passaic, NJ. “Blood Management Strategies in the Critically Ill Patient”, 6/17/03.
115. NJ Association of Osteopathic Physicians and Surgeons, “Blood Management Strategies in the Critically Ill Patient”, 6/24/03.
116. Cape Cod Hospital, Hyannis, MA. “Managing Anemia in the Critically Ill Patient”, 8/7/03.
117. Vasser Brothers Medical Center, Poughkeepsie, NY. “Blood Management Strategies in the Critically Ill Patient”, 8/21/03.
118. East Orange Medical Center, East Orange, NJ First Community Seminar, “Bloodless Medicine and Surgery”, 8/23/03.
119. Danbury Hospital, Danbury, CT. “Managing Anemia in the Trauma Patient”, 9/2/03.
120. Hackensack Medical Center, Hackensack, NJ offsite program, “New Directions in the Management of Anemia in Bloodless Medicine”, 9/8/03.
121. Atlantic City Medical Center, Atlantic City, NJ. “Blood Management Strategies in the Critically Ill Patient”, 9/22/03.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

122. Hershey Medical Center, Hershey, PA. "Blood Management Strategies in the Critically Ill Patient", 9/25/03.
123. UMDNJ Robert Wood Johnson Medical School, New Brunswick, NJ "Bloodless Medicine and Surgery", 10/1/03.
124. 25th Annual Educational Symposium New Jersey Chapter, Society of Critical Care Medicine UMDNJ Robert Wood Johnson Medical School, New Brunswick, NJ. 10/3/03.
125. Pennsylvania Association of Nurse Anesthetists, Harrisburg, PA. "Alternative Replacement for RBC's", 10/4/03.
126. Allegheny General Hospital, Pittsburgh, PA. "Managing Anemia in the Surgical Patient", 11/11/03.
127. Bergen County Pharmacists Society, "Management of Anemia", 3/3/04.
128. Winthrop Hospital, Mineola, NY. "Blood Management and Blood Conservation", 3/10/04.
129. Mount Sinai School of Medicine, New York, NY. "Preservation of Cognitive Function in Cancer Patients", 3/23/04.
130. Mount Sinai School of Medicine, New York, NY. "Critical Care in Private Practice", 3/24/04.
131. New Jersey State Society of Anesthesiologists 46th Annual Spring Meeting, Jamesburg, New Jersey, "A View from Below: The Israeli Medical Service Response to Nuclear, Biologic or Chemical Attack", 3/27/04.
132. Tenet and Graduate Hospital Conference Philadelphia, PA "Blood Conservation:Strategies in Adult and Pediatric Care", 05/01/04.
133. Ocean Medical Center Wall, New Jersey "Clinical Update in Anemia Management:Nephrology/Surgery/Immunology", 5/25/04.
134. Brookhaven Memorial Medical Center Patchogue, NY "Safety and Efficacy of Blood Transfusions in the Critically Ill Patient", 06/04/04.
135. New Jersey Society of Surgeons Annual Meeting "A View from Below: The Israeli Medical Service Response to Nuclear, Biologic or Chemical Attack"
136. Memorial Sloane Kettering New York. "Clinical Update in Anemia Management: Nephrology/Surgery/Immunology", 6/14/04.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

137. Trinitas Hospital, Surgical Blood Management: The Role of ANH and Other Strategies, 7/28/04.
138. Columbia Memorial Hospital Hudson, NY. "Recent Pharmacologic Advances in Managing Anemia in the Critically Ill Patient", 9/21/04.
139. UMDNJ, Safety and Efficacy of Blood Transfusions in the Critically Ill Patient, 9/29/04.
140. Good Samaritan Hospital Suffern, NY. Blood Management Strategies in the Critically Ill Patient, 10/4/04.
141. Cabrini Medical Center, NY. "Vasoactive Therapy in Critically Ill Patients, 10/04/04.
142. Morristown Memorial Hospital Morristown, NY. "Vasoactive Therapy in Critically Ill Patients", 10/18/04.
143. Vasser Brothers Medical Center Poughkeepsie, NY. "Blood Management Strategies in the Critically Ill Patient", 9/30/04.
144. Geisinger Medical Center Danville, PA. "Intraoperative Blood Conservation Techniques", 11/8/04.
145. Vassar Brothers Medical Center Poughkeepsie, NY. "Blood Management in the Critically Ill Patient", 12/2/04.
146. Hartford Hospital Hartford, CT. "*Vasoactive Therapy in Critically Ill Patients*", 12/16/04.
147. Lenox Hill Hospital New York, NY. "Management of acute bleeding in Jehovah's Witness patient", 12/21/04.
148. Allegheny General Hospital Pittsburgh, PA. "Artificial Oxygen Carriers", 2/22/05.
149. Wyoming Valley Health Care System Wilkes Barre, PA. "Blood Conservation", 4/20/05.
150. St. Luke's Roosevelt Hospital NY, NY. "Bloodless Surgery", 6/8/05.
151. Montefiore Medical Center, NY. "Bloodless Medicine and Surgery", 6/13/05.
152. Valley Hospital Ridgewood, NJ. "Appropriate Use of Epoetin Alpha", 6/21/05.
153. Hartford Hospital Hartford, CT. "Blood Management", 7/12/05.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

154. Attended the Quality Colloquium at Harvard as Advocacy Vice Chair
155. Bergen County Pharmacy Lecture, Washington Township, NJ. 11/2/05.
156. St. Joseph's Hospital and Medical Center Paterson, NJ. "Perioperative Blood Management", 11/30/05.
157. New Jersey State Pharmacists Meeting, Garfield, NJ. "Proper Use of EPO", 1/12/06.
158. Vassar Brothers Medical Center Poughkeepsie, NY. "Advances in Blood Conservation and Blood Management", 2/2/06.
159. Temple University Hospital Philadelphia, PA. "Appropriate Use of Erythropoietic Therapy for Chemotherapy-Induced Anemia", 3/8/06.
160. North General Hospital "Appropriate Use of Erythropoietic Therapy for Chemotherapy-Induced Anemia", 3/16/06.
161. New Jersey State Pharmacy Meeting Essex, NJ. "Pharmacologic Treatment of Anemia"
162. Lankenau Hospital Wynnewood, PA. "Appropriate Use of Erythropoietic Therapy for Chemotherapy-Induced Anemia", 3/31/06.
163. Community Scranton Medical Center Scranton, PA "Transfusion Risks & Blood Management in the Cardiothoracic Surgery Patient, 8/1/06.
164. Watson Laboratories, Inc. Morristown, NJ. "Bloodless Medicine and Surgery" 8/16/06.
165. Our Lady of Lodes Medical Center Camden, NJ. "Blood Management", 9/13/06.
166. Englewood Hospital and Medical Center Englewood, NJ. "Latest developments in blood management", 9/14/06.
167. Society for the Advancement of Blood Management (SABM) 2006 Annual Meeting Jersey City, NJ. Faculty Chair and presenter for CE/CME satellite symposium for Advanmed program titled "*Promising and Prospective Applications for Erythropoietic Growth Factors*". Topic "The Hematologist's Role in Preoperative Anemia Management". 9/15/06.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

168. Society for the Advancement of Blood Management (SABM) 2006 Annual Meeting Jersey City, NJ. Lunch Symposium. "Hemostatis Management: Coagulothrapy in Massive Transfusions". 9/16/06. Co-Chair.
169. Dinner program at Hilton in Philadelphia for regional surgery groups from PA, Delaware and NJ area. "Blood Management for Optimizing Outcomes in the Cardiac Surgery Patient", 11/21/06.
170. THESIS grand rounds at Centra State Medical Center Freehold, NJ. "Hypertensive Emergencies in Surgery:Pathophysiology and Management", 12/1/06.
171. Critical Care Symposium Freehold, NJ. "Anemia and Conservation of Transfusion Resources" 1/10/07.
172. Critical Care 2007 and Beyond "Anemia and Conservation of Transfusion Resources" 1/20/07.
173. Lecture at Trinitas Hospital Elizabeth, NJ. "Blood Conservation Management", 1/25/07.
174. Lecture at St. Joseph's Hospital and Medical Center Paterson, NJ. 07503 "Bloodless Medicine and Surgery", 1/31/07.
175. Beth Israel Medical Center New York, NY. "Bloodless Medicine and Surgery", 2/8/07.
176. Morristown Memorial Hospital Morristown, NJ. "Transfusion & Blood Products in the ICU setting"
177. St. Joseph's Hospital Health Center Syracuse, NY. "Blood Conservation in the Surgical Setting" May 15, 2007.
178. Our Lady of Lourdes Medical Center Camden, NJ. "Blood Management Improving Surgical Outcomes" May 21, 2007.
179. University of Connecticut Health Center Farmington, CT. "Blood Management Improving Surgical Outcomes" June 6, 2007.
180. Planned, provided data and implementation of a national workshop series on Blood management. "Implementing a Blood Management Program" New York, NY. June 12, 2007.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

181. Planned, provided data and implementation of a national workshop series on Blood management. "Implementing a Blood Management Program" New Brunswick, NJ. June 13, 2007.
182. Planned, provided data and implementation of a national workshop series on Blood management, "Implementing a Blood Management Program" Philadelphia, PA. June 20, 2007.
183. Easton Hospital Easton, PA. "Coagulation Issues in CABG Surgery", June 27, 2007.
184. St. Joseph's Hospital Health Center Syracuse, NY. "Blood Management & Blood Conservation:An Overview. August 22, 2007.
195. Englewood Hospital and Medical Center Englewood, NY. "Bloodless Medicine" August 29, 2007.
196. The "Boston" Meeting and Hammersmith TFECC Filtration Workshop Cambridge, MA. "Bloodless Cardiac Surgical Program". October 20, 2007.
197. Bloodless Medicine and Surgery Institute at Englewood Hospital and Medical Center Educational Seminar Scranton, PA. "Bloodless Cardiac CareView from the OR". November 3, 2007.
198. The Council of Hospital Blood Bank Directors. "The Use of Novel Hemostatic Agents/Recombinant Factor Seven New York.11/14/07.
199. Centra State Medical Center "Blood Management" 11/16/07.
200. Lankenau Hospital, PA. "Blood Management". 11/19/07.
201. Postgraduate Assembly in Anesthesiology PGA/61 New York, NY "Alternatives to Allogeneic Blood Transfusions", 12/7/07.
201. Harrisburg Hospital Harrisburg, PA "Blood Conservation", 12/12/07.
202. Mt. Sinai Hospital, NY "Update on Interventions for Achieving Operative Hemostasis", 2/20/08.
203. Hospital for Joint Diseases, NY. "Blood Management in Surgical Patient", 3/5/08
204. New Jersey State Society of Anesthesiologists (NJSSA) 49th Annual Spring Meeting Jamesburg, NJ "Blood Product Update for the Anesthesiologist" 3/29/08.

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

205. The Eighteenth Spring Symposium Transfusion Medicine Update: New Approaches. The Hospital Blood Bank Supervisors' Association. New York. "NovoSeven Utilization and Other Hemostatic Agents", 4/5/08.
206. Saint Francis Hospital Poughkeepsie, NY. "Surgical Blood Management". 4/30/08.
207. Jersey City Medical Center Jersey City, NJ. "Implementing Best Practices for Blood Management" 5/15/08.
208. Coatsville VA Medical Center Coatesville, PA. "Implementing Best Practices for Blood Management" 6/5/08.
209. 56th Annual Meeting of the Blood Banks Association of New York State. "Blood Management" 6/6/08.
210. SUNY Downstate Medical Center Brooklyn, NY. "Strategies for Preventing and Treating Uncontrolled Perioperative Bleeding". 6/11/08
211. Riddle Memorial Hospital Media, PA. "Implementing Best Practices for Blood Management", 10/10/08.
212. Community Medical Center Wilkes-Barre, PA "Blood Management", 10/25/08.
213. 62nd Postgraduate Assembly in Anesthesiology New York, NY "Controlling Bleeding in the Geriatric Patient", "Alternatives to Allogeneic Blood", 12/15/08.
214. Englewood Hospital and Medical Center Englewood, NJ "Bloodless Medicine & Surgery", 1/15/09.
215. Pennsylvania Hospital's Tenth Annual Bloodless Medicine Symposium Philadelphia, PA "What the Next Decade Holds for Blood Management", 2/20/09.
216. Mount Sinai Medical Center New York, NY "Fresh Frozen Plasma: Fact or Fantasy", 3/17/09.
217. Bridgeport Hospital Bridgeport, CT "Immune-Mediated Coagulopathy", 3/13/09.
218. Pinnacle Health System Learning Institute, PA "Bloodless Surgery", 4/28/09.
219. Riddle Memorial Hospital Media, PA "Implementing Best Practices for Blood Management", 6/25/09.
220. Crozer Medical Center Upland, PA "Patient Blood Management", 9/22/09.
221. Abington Memorial Hospital Abington, PA "Bloodless Medicine and Surgery",

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

9/23/09.

222. Newark Beth Israel Medical Center Newark, NJ “Surgical Blood Management”, 11/5/09.
223. Hackensack University Medical Center Hackensack, NJ “Practical Strategies for Controlling Surgical Bleeding and Maintaining Intraoperative Hemostasis”, 12/1/09.
224. Beth Israel Medical Center New York NY “Tolerance of Anemia in Blood Management”, 12/9/09
225. PostGraduate Assembly The New York State Society of Anesthesiologists, Inc. New York “FFP: The Latest Recommendation and Risks”, “Alternatives to Allogeneic Blood Transfusion”, 12/13-14/09
226. Co-chair Transfusion Safety summit Risks Associated with Iron Toxicity in Transfusional Medicine W Hotel Hoboken, NJ, 12/11-12/09
227. Chair, Ethicon Biosurgery Blood Management Global Advisory Meeting Jersey City, NJ, 12/17/09
228. Hackensack Medical Center “Bloodless Surgery” Hackensack, NJ 1/19/10.
229. St. Vincents Hospital “Immune Mediated Coagulopathy”, New York, NY 1/21/10.
230. Mount Sinai Hospital “Blood product administration in the ICU, New York, NY 1/26/10.
231. Thomas Jefferson Medical College Philadelphia, PA “Fresh Frozen Plasma Myths and Reality” “Patient Blood Management”, 3/18/10.
232. Bayfront Medical Center “Patient Blood Management”; “From Bloodless Medicine and Surgery to Blood Management”; “Massive Transfusion Protocol vs. Casual Transfusion”, St. Petersburg, FL 4/30/10
233. Ethicon Biosurgery Global Patient Management Summit Somerville, NJ 9/21/10.
234. Elective Orthopedic Surgery and Blood Management: Proactive Approaches to Minimize Transfusions East Orange, NJ 9/28/10
235. Bridgeport Hospital Medicine Grand Rounds “Patient Blood Management”. Bridgeport, CT. 10/28/10.
236. Long Beach Medical Center “Patient Blood Management: Proactive Approaches to Reduce Transfusions”. Long Beach, NY. 12/10/10

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

237. (PGA) Post Graduate Assembly. CME Satellite Symposium entitled Optimizing Perioperative Fluid Management to Improve Patient Outcomes. New York. 12/13/10
238. (PGA) Post Graduate Assembly. The New York State Society of Anesthesiologists, Inc. "How to Avoid Allogeneic Blood Transfusion". New York. 12/14/10
239. St. Mary's Hospital "Patient Blood Management: Proactive Approaches to Reduce Transfusions". Passaic, N.J. 12/22/10.
240. Westchester Medical Center "Patient Blood Management: Proactive Approaches to Reduce Transfusions", Valhalla, NY 1/26/11.
241. Mount Sinai Hospital "Fluid Management in Clinical Practice: One Size Does Not Fit All" New York, NY 8/25/11.
242. Newark Beth Israel Medican Center "Fluid Management in Clinical Practice: One Size Does Not Fit All" Newark, NJ. 10/6/11.
243. Chester County Hospital Critical Care Symposium "Fluid Management in Critically Ill Patients" West Chester, PA, 10/6/11
244. Methodist Hospital (Thomas Jefferson University Hospital) "Fluid Management" Philadelphia, PA, 11/2/11.
245. Palisades Medical Center "Patient Blood Management" North Bergen, NJ 11/8/11.
246. 65th Postgraduate Assembly in Anesthesiology "What is really dangerous? Anemia or Transfusion", New York, NY 12/12/11
247. St. Peter's University Hospital "Patient blood management" New Brunswick, NJ 1/18/12.
248. Maimonides Medical Center "Patient Blood Management", Brooklyn, NY, 1/18/12.

MEDIA RESOURCE EDUCATIONAL MATERIALS

ADDENDUM

MEDIA

Today's Hospitalist Magazine. "The end of transfusion as a "default procedure". August 2009.

ARYEH SHANDER, MD, FCCM, FCCP
Curriculum Vitae

New Jersey Monthly. New Jersey Hospitals “Bloodless Surgery”, May 2009 Page 105-106.

The New York Times “To your health. Advances on the treatment front: What New Jersey hospitals are doing to improve your health”. April 26, 2009.

201 Health “Englewood Hospital improves patient outcomes through bloodless medicine, April 2009.

NorthJersey.com “Patients forced to scimp on office visits, surgeries”, November 30, 2008.

The Paramus Post “Englewood Hospital and Medical Center’s Hyperbaric Center marks 10th Anniversary”, August 19, 2008.

NorthJersey.com “Hospitals rated on how well they serve patients”, May 21, 2008.

Hospital Newspaper New Jersey “Saint Peter’s University Hospital earns beacon award for critical care excellence” Page 3 -7. February 2, 2007.

The Record. Documentary explores a little understood faith. May 17, 2007.

Bergen Health & Life “An Anesthetic that may cause trouble”. Page 40. June 2007

The Wall Street Journal. J&J Ends Plan to Seek Wider Procrit Use. September 6, 2007; Page D6.

COMMERCE “A Decade of Advancing Bloodless Care” Page 43-44. February 2006.

Caucus New Jersey “Aryeh Shander, MD” January 2010

Caucus: New Jersey with Steve Adubato. “Healthy You: The Blood Option”, 1/26/10.

The Record “Englewood Hospital to train military, others in bloodless surgery techniques”, 1/29/10.

NJN “Federal Funding for Bloodless Training” 2/1/10

COMMERCE “Chief Medical Officers Roundtable: Discussing the key Healthcare Issues Affecting Patients in 2010”, March 2010.

HEALTHY YOU “Oxygen for Hard to Heal Wounds” Spring 2010.

NJN Bloodless Surgery April 2010

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

Interview with Dr. Derrick DeSilva “12 To Your Health” (News 12 New Jersey) Press Release “Vital Health Report by the American Society of Anesthesiologists Finds

Anxiety about Undergoing Anesthesia May Lead One in Four Patients to Postpone Surgery”. ASA Urges Patients to Become Informed About Vital Health to Ease Anxiety, Improve Wellbeing and Surgical Outcomes” 11/24/10.

New York Post Health “A Cut Above”, 11/9/11.

Englewood Hospital and Medical Center CHOICES “Leading the way in bloodless research”, Winter 2012

VISITING PROFESSORSHIPS

1. Ortho Biotech, Inc. National Visiting Professor Acad. Tucson, AZ. “The Treatment of Anemia in the ICU Patient”, 3/29/00.
2. Ortho Biotech, Inc. National Visiting Professor, Montreal, Canada: “The Treatment of Anemia in the ICU Patient”, 6/16/00.
3. Beth Israel Medical Center, New York, NY: National Visiting Professor Program “Anemia in the ICU”, 6/22/00.

EDITORIAL POSITIONS

1998-Present	Member of Editorial Board of TATM (Transfusion Alternatives in Transfusion Medicine).
2002-Present	Reviewer for “Chest”
2003-Present	Reviewer for “Transfusion”
2004-Present	Reviewer for Annals of Thoracic Surgery
2007	Reviewer for Critical Care Medicine
2007	Reviewer for Anesthesiology, The Journal of the American Society of Anesthesiologists, Inc.
2007	Reviewer for Anesthesia & Analgesia
2007	Editor for Anemia Alert, The E-Newsletter of the National Anemia Action Council
2007	Reviewer for Informa Healthcare

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

2011

Editorial Board of Transfusion

WEBCASTS/WEBINARS

- 8/17/09 Pardon the Iron Webcast KSCI TV Los Angeles, CA
- 8/31/09 Pardon the Iron Webcast Panasonic HDTV Studio
Paterson, NJ
- 9/23/09 Pardon the Iron Webcast Panasonic HDTV Studio
Paterson, NJ
- 9/24/09 Transfusion Safety Webcast Panasonic HDTV
Studio Paterson, NJ
- 9/25/09 Transfusion Safety Webcast Panasonic HDTV Studio
Paterson, NJ
- 10/1/09 Transfusion Safety Webcast Panasonic HDTV Studio
Paterson, NJ
- 10/29/09 Pardon the Iron Webcast Reuters New York, New York
- 11/5/09 Pardon the Iron Webcast Murray Hill Studios New York,
New York
- 11/9/09 Pardon the Iron Webcast Reuters New York, New York
- 11/10/09 Transfusion Safety webcast Panasonic HDTV Studio
Paterson, NJ
- 11/16/09 Pardon the Iron webcast Reuters New York, New York
- 11/30/09 Transfusion Safety webcast Panasonic HDTV Studio
Paterson, NJ
- 3/30/10 Pardon the Iron Webcast Reuters New York, NY
- 06/22/10 Patient Blood Management:Critical Pathways CME
Champion Teleconference Series. "Practical Strategies for
Managing Perioperative Anemia: Surgical Implications and
Therapeutic Options"
- 11/2/10 Web stream conference "Improving Blood Management in
Elective Surgery: Preparing for Future Joint Commission
Performance Measures" New York, NY

ARYEH SHANDER, MD, FCCM, FCCP

Curriculum Vitae

- 11/11/10 Centocor Ortho Biotech, Inc. web stream conference
“Improving Blood Management in Elective Surgery:
Preparing for Future Joint Commission Performance
Measures” New York, NY
- 11/23/10 Quintiles webinar for Sentara, VA Beach General Hospital
“Patient Blood Management: Proactive Approaches to
Reduce Transfusions.
- 12/6/10 Patient Blood Management: Critical Pathways CME
Champion Teleconference Series. “Anticipating Blood
Management Measures of the Joint Commission. Featured
Institution Newark Beth Israel, Newark, NJ”
- 06/30/11 “Fluid Management in Critically Ill Patients” webinar,
Presbyterian Hospital Charlotte, NC
- 07/12/11 “Fluid Management in Critically Ill Patients” webinar,
Jersey City Medical Center Jersey City, NJ
- 08/29/11 “Fluid Management in Critically Ill Patients” webinar,
Aspen Valley Hospital Aspen, CO
- 09/01/11 “Perioperative Fluid Management: Does it Improve
Outcomes?” webinar, Kaiser Roseville Medical Center
Roseville, CA
- 09/06/11 “Fluid Management in Critically Ill Patients” webinar, St.
Francis Hospital Columbus, GA
- 11/11/11 “Fluid Management in Critically Ill Patients” webinar,
Spartanburg Regional Healthcare, Spartanburg, SC
- 12/14/11 “Fluid Management in Critically Ill Patients” webinar,
UMC University Medical Center Lubbock, TX