

CURRICULUM VITAE
MITCHELL M LEVY MD MCCM FCCP

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EDUCATION

Undergraduate

University at Buffalo,
The State University of New York
BA psychology, 1973

Medical School

University at Buffalo
The State University of New York
MD 1977

POSTGRADUATE TRAINING

Residency

Presbyterian Medical Center
University of Colorado
Denver CO 80218
Straight Internal Medicine Residency
1977-1980

Presbyterian Medical Center
Chief Medical Resident
1980-1981

POSTGRADUATE HONORS AND AWARDS

- Phi Beta Kappa, University at Buffalo, 1973
- Magna Cum Laude, University at Buffalo, 1973
- Outstanding Teacher, Dalhousie University (Halifax Infirmary), 1989
- Society of Critical Care Medicine, Presidential Citation Award, 1999, 2000, 2001
- American College of Chest Physicians, Letter of Commendation, The CHEST Foundation, 2000, 2001, 2002
- Society of Critical Care Medicine, Christer Grenvik Memorial Award for Ethics in Critical Care Medicine, Jan 2002

POSTGRADUATE HONORS AND AWARDS (cont.)

- Rhode Island Hospital MICU (Director): National Coalition on Health Care and the Institute for Healthcare Improvement recognition as one of top eleven ICUs in the U.S. for exceptional quality of care, Jan 2002
- Top Doctors of Rhode Island, (Critical Care) *Rhode Island Monthly*, 2006
- Elected to *Best Doctors in America*: specialists considered by peers to be in the top 5% of physicians; accredited by the Accreditation Council for Continuing Medical Education (ACCME®), 2007-2008.

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

- Rhode Island License (MD08805), January 1995
- Diplomate, American Board of Internal Medicine, 1988
- Fellow, Royal College of Physicians and Surgeons (Canada), 1988
- Diplomate, American Board of Internal Medicine Critical Care Medicine, 1991
- Fellow, American College of Critical Care Medicine, 1995
- Fellow, American College of Chest Physicians, 1997

ACADEMIC APPOINTMENTS

- Assistant Professor of Medicine, Dalhousie University, Halifax, Nova Scotia, 1988-1990
- Associate Professor Medicine, University of Hawaii, Honolulu, HI, 1992-1994
- Chief, Division of Critical Care Medicine, Department of Medicine, John A. Burns School of Medicine, University of Honolulu, HI, 1992-1994
- Clinical Associate Professor of Medicine, Brown University School of Medicine, Providence RI, 1997-1999
- Associate Professor of Medicine, Brown University School of Medicine, Providence RI, 1999-2004
- Professor of Medicine, Brown University School of Medicine, Providence RI, 2004-present

HOSPITAL APPOINTMENTS

- Assistant Medical Director, Medical Intensive Care Unit, Halifax Infirmary, Halifax, Nova Scotia, 1989-1990
- Assistant Director of Medical Education, Kaiser Permanente Medical Center, Honolulu HI, 1990-1992
- Medical Director, Critical Care Unit, Queen's Medical Center, Honolulu HI, 1992-1995
- Associate Director of Critical Care, Saint Anne's Hospital, Fall River MA, 1995-1996
- Medical Director, Medical Intensive Care Unit, Rhode Island Hospital, Providence RI, 1996-present
- Director of Critical Care Services, Rhode Island Hospital, Providence RI, Oct 2002-present
- Interim Medical Director, MICU, The Miriam Hospital, Aug 2006-2009.
- Interim Chief, Division of Pulmonary, Critical Care and Sleep Medicine, Rhode Island Hospital, Aug 2006-2009.
- Division Chief, Pulmonary, Critical Care and Sleep Medicine, Rhode Island Hospital/Warren Medical School of Brown University, Providence RI, Aug 2009-present.

OTHER APPOINTMENTS

- Executive Director, Amara Association of Health Care Professionals, Boulder CO, 1980-1990
- Member, Critical Care Associates, St. Anthony's Hospital Systems/Denver General Emergency Residency Program, Denver CO, 1981-1987
- Medical Director, Boulder County Jail, Boulder CO, 1981-1987
- Member, Board of Directors, Dana Home Care Agency, Boulder CO, 1981-1988
- Attending Intensivist, Halifax Infirmary, Halifax, Nova Scotia, 1988-1990
- Abstract Review Board, *Critical Care Medicine*, 1993-present
- Member, Evidence-Based Medicine in Critical Care Group, McMasters University, 1994-present
- Co-editor, *Critical Care Clinics*, "Evidence-Based Medicine in Critical Care," July 1998
- Coordinator, Evidence-Based Medicine Journal Club, Pulmonary/Critical Care Fellowship Program, Brown University, 1996-present
- Editor, *Critical Care Clinics*, "Tissue Perfusion and Hemodynamic Monitoring," January 1996
- Member, consensus conference: Managing Death in the ICU, funded by Robert Wood Johnson Foundation, December 1998.
- Chairperson, The Robert Wood Johnson ICU Peer Workgroup in End-of-Life Care, 1999-present
- Chair, Disease Management Summer Conference: joint effort between the Society of Critical Care Medicine and the European Society of Intensive Care Medicine for education and critical care, 2001.
- Senior Editor, *Journal of Critical Care*, W B Saunders, Philadelphia PA, 2001-present

OTHER APPOINTMENTS (cont.)

- Joint Commission on Accreditation of Healthcare Organizations Intensive Care Unit (ICU) Core Measure 15-member Advisory Panel for developing core measures for assessment of quality ICU care, March 2002-present
- Conference participant: 2001 SCCM/ESICM/ACCP/ATS/SIS International Sepsis Definitions Conference, December 2001.
- Council member, the governing body of the Society of Critical Care Medicine, term 2/200-2/2005.
- President, Society of Critical Care Medicine, 2009.
- Committee member, National Quality Forum (NQF) Steering Committee for the *Pulmonary Project*, Jan 2012-present.
- Manuscript Reviewer:
New England Journal of Medicine
Journal of the American Medical Association
American Journal of Respiratory & Critical Care Medicine
Critical Care Medicine
CHEST
Critical Care
Journal of Critical Care
Intensive Care Medicine

HOSPITAL COMMITTEES

Dalhousie University, Halifax, Nova Scotia

- Ethics Committee, 1989-1990

Kaiser Permanente

- Ethics Committee, Critical Care Division, 1990-1992
- Critical Care Residency Committee member, 1990-1992
- Residency Review/Curriculum Committee, 1990-1992

The Queen's Medical Center/University of Hawaii

- Chair, Critical Care Committee, 1992-1995
- Chair, ICU Database Committee, 1992-1995
- Member, Ethics Committee, 1992-1995
- Member, Residency Review Committee, Integrated Medical Residency Program, 1993-1994
- Chair, Recruitment and Selection Committee, Integrated Medical Residency Program, 1992-1994
- Ethics Committee, 1992-1994
- Member, Curriculum Committee, Integrated Medical Residency Program, 1993-1994

Rhode Island Hospital

- Organ Donation Advisory Committee, Chair, 1999-present
- Physician Order Management Team, Team Leader, 2001-present
- Medical Executive Committee — Member-at-Large 2000-2002
- Co-chair, Inter ICU Group, 2008-present.

MEMBERSHIP IN SOCIETIES

American College of Physicians, 1978-present

Society of Critical Care Medicine, 1988-present

- Member, Consensus Conference on Humane Caring in the ICU, October 1991
- Society of Critical Care Medicine “Leader,” 1992-present
- Chair, Controversies in Critical Care Committee, 1992-present
- “Project Impact” Task Force, 1993-1994
- Member, Multi-Disciplinary Review Course Committee, 1994-1997
- Member, Program Committee, 1997-present
- Vice Chair, Continuing Education Committee, 1997-present
- Member, Education Division
- Chair, Physiology and Laboratory Values
- Program Chair, 30th International Educational & Scientific Symposium of the Society of Critical Care Medicine, 2001.
- Presidential Citation Award, 2001
- Christer Grenvik Memorial Award for Ethics in Critical Care Medicine, January 2002
- Elected to Council, the governing body of SCCM, Feb 2002-present
- President SCCM, 2009

American College of Critical Care Medicine, 1995-present

European Society of Intensive Care Medicine, 1995-present

- Chair, Disease Management Summer Conference: joint effort between the Society of Critical Care Medicine and the European Society of Intensive Care Medicine for education and critical care, 2001.
- American College of Chest Physicians, 1996-present
- Critical Care NetWork Steering Committee, 1996-1997

MEMBERSHIP IN SOCIETIES (cont.)

- Vice Chair Critical Care NetWork Steering Committee, 1997-1998
- Chair, Critical Care NetWork Steering Committee, 1998-1999
- Ex Officio Critical Care NetWork Steering Committee, 1999-2000
- Liaison, CHEST Annual Scientific Program NetWork on Critical Care, 1999-2000
- Letter of Commendation, The CHEST Foundation, 2001
- CHEST Annual Scientific Program, 2001-2002

Chair, Council on Critical Care, 1997-present

Honorary Member of Founding Committee: Tuscany Critical Care Group, Florence, Italy, 1998

Advisory Board Member, National Initiative in Sepsis Education, December 2000-present

QUALITY AND SAFETY ACTIVITIES

Leadership role and Steering Committee member, state-wide initiatives on quality in sepsis and palliative care, Rhode Island and New Jersey, 2008-2010.

Representative to the National Quality Forum for SCCM, 2009-present.

Advisory Committee on Quality for the Blue Distinction program of Blue Cross Blue Shield of American, 2010-present.

Leadership role, state-wide quality initiative in catheter-related bloodstream infection and sepsis, for the New York City Health and Hospital Corporation, 2007-2010.

Content expert and voting member of the hospital for the Hospital Workgroup of the Measure Applications Partnership (MAP) of the National Quality Forum, Apr 2011-present.

QUALITY AND SAFETY ACTIVITIES
(cont.)

Technical expert, *Closing the Quality Gap: Prevention of Healthcare-associated Infections* project of the Evidence-Based Practice Center (EPC) program of the Agency for Healthcare Research and Quality (AHRQ), 2011-present.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Yu M, **Levy MM**, Smith P, Takiguchi SA, Miyasaki A, Myers SA. Effect of maximizing oxygen delivery on morbidity and mortality rates in critically ill patients: A prospective, randomized, controlled study. *Crit Care Med* 1993; 21(6):830-838.
2. Takaguchi S, Meyers S, Yu M, **Levy MM**, McNamara JJ. Clinical and financial outcomes of lateral rotation low air-loss therapy in patients in the Intensive Care Unit. *Heart & Lung* Jul-Aug 1995; 24(4):315-310.
3. Yu M, Takanishi D, Meyers S, Takiguchi S, Severine R, Hasaniya N, **Levy MM**, McNamara J. Frequency of mortality and myocardial infarction during maximizing oxygen delivery: A prospective, randomized trial. *Crit Care Med* 1995; 23(6):1025-1032.
4. **Levy MM**, Miyasaki A, Langston D. Work of breathing as a weaning parameter in mechanically ventilated patients. *Chest* 1995; 108(4):1018-1020.
5. **Levy MM.** Pulmonary capillary pressure: Clinical implications. *Crit Care Clin* 1996; 12(4):819-839.
6. Levy MM. Pulmonary capillary pressure and tissue perfusion: Clinical implications during resuscitation from shock. *New Horizons* 1996; 4(4):50-18.
7. Levy MM. Monitoring oxygen delivery and oxygen consumption. *Curr Opin Crit Care* June 1997; 3(3):226-231.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

8. **Levy MM.** Work of Breathing. The debate continues... *Chest* 1997; 111(1):225-227.
9. Cook DJ, **Levy MM.** Evidence-based medicine: A tool for enhancing critical care practice. *Crit Care Clin* 1998; 14(3):353-358.
10. Cook DJ, Elldrodt G, Calvin J, **Levy MM.** How to use practice guidelines in the intensive care unit: diagnosis and management of unstable angina. *Crit Care Med* March 1998; 26(3):599-606.
11. Cook DJ, **Levy MD**, Heyland DK. How to use a review article: prophylactic endoscopic sclerotherapy for esophageal varices. Evidence Based Critical Care Medicine Group. *Crit Care Med* April 1998; 26(4):692-700.
12. **Levy MM.** An evidence-based evaluation of the use of sodium bicarbonate during cardiopulmonary resuscitation. *Crit Care Clin* 1998; 14(3):457-483.
13. **Levy MM.** Evidence-based medicine in critical care. *Curr Opin Crit Care* 1999; 5(4):326-331.
14. Crippen D, **Levy M**, Truog R, Whetstone L, Luce J. Debate: what constitutes 'terminality' and how does it relate to a living will? *Crit Care Med* 2000, 4:333-338.
15. **Levy MM.** Palliative Care in Respiratory Care: Conference Summary. *Respir Care* 2000; 45(12):1534-1540.
16. Mehta S, Nelson DL, Klinger JR, Buczko GB, **Levy MM.** Prediction of post-extubation work of breathing. *Crit Care Med* May 2000; 28(5):1341-1346.
17. **Levy MM**, Carlet J. Compassionate end-of-life care in the intensive care unit. *Crit Care Med* Feb 2001; 29(2) Supp:N1.

ORIGINAL PUBLICATIONS IN PEER-
REVIEWED JOURNALS (cont.)

18. **Levy MM.** End-of-life care in the intensive care unit: Can we do better? *Crit Care Med* Feb 2001;29(2) Suppl:N56-61.
19. **Levy MM.** Paying attention to death. *Crit Care Med.* October 2001; 29(10):2037-2038.
20. **Levy MM.** Commentary: Evaluating our end-of-life practice. *Critical Care* 2001; 5(4):182-183 (published online 13 July 2001).
21. **Levy MM** (Guest Editor). Chapter: PEEP in ARDS. In: *Critical Care Clinics: New Management Strategies in ARDS*, W.B. Saunders Co. 18(1)15-33, January 2002.
22. Cook DJ, Guyath G, Rocker G, Sjokvist P, Weaver B, Dodek P, Marshall J, Leasa D, **Levy M**, Varon J, Fisher M, Cook R, for the Canadian Critical Care Trial Group. Cardiopulmonary resuscitation directives on admission to intensive care unit: an international observational study. *The Lancet* 2002; 358(9297):1,941
23. Ward NS, Lin DY, Nelson DL, Houtchens J, Schwartz WA, Klingler JR, Hill NS, **Levy MM.** Successful determination of lower inflection point and maximal compliance in a population of patients with acute respiratory distress syndrome. *Crit Care Med* May 2002;30(5):963-968.
24. Corwin HL, Gettinger A, Pearl RG, Fink MP, **Levy MM**, Shapiro MJ, Corwin MJ, Colton T. Efficacy of recombinant human erythropoietin in critically ill patients: a randomized controlled trial. *JAMA.* Dec 11 2002;288(22):2827-2835.
25. **Levy MM.** PEEP in ARDS: Changing Concepts and Current Controversies. *Crit Care*, Jan 2002.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

26. **Levy MM**, Fink MP, Marshall JC, Abraham E, Angus D, Cook D, Cohen J, Opal S, Vincent J-L, Ramsay G (For the International Sepsis Definitions Conference). 2001 SCCM/ESICM/ACCP/SIS International Sepsis Definitions Conference. Co-published: *Int Care Med* 2003;29:530-538 and *Crit Care Med* 2003;31(4):1250-1256.
27. Ryan M, **Levy M**. Clinical Review: Fever in intensive care unit patients. *Crit Care* 2003;7:221-225.
28. Gerlach H, Dhainaut JF, Harbart S, Reinhart K, Marshall JC, **Levy M**. The PIRO concept: R is for response. *Crit Care (London)* Jun 2003;7(3):221-225.
29. Shapiro M, Gettinger A, Corwin H, Napolitano L, **Levy M**, Abraham E, Fink M, MacIntyre N, Pearl R, Shabot M. Anemia and Blood Transfusion in Trauma Patients Admitted to the Intensive Care Unit. *J Trauma-Injury Infection & Crit Care* August 2003; 55(2):269-274.
30. Clarke E, Curtis JR, Luce J, **Levy M**, Danis M, Nelson J, Solomon M for the Robert Wood Johnson Foundation Critical Care End-of-Life Peer Workgroup Members. Quality indicators for end-of-life care in the intensive care unit. *Crit Care Med* Sep 2003; 31(9):2255-2262.
31. Cook D, Rocker G, Marshall J, Skokvist P, Dodek P, Griffith L, Freitag A, Varon J, Bradley C, **Levy M**, Finfer S, Hamielec C, McMullin J, Weaver B, Walter S, Guyatt G. Withdrawal of Mechanical Ventilation in Anticipation of Death in the Intensive Care Unit. *NEJM* Sep 18 2003; 349(12):1123-1132.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

32. Guyatt G, Cook D, Weaver B, Rocker G, Dodek P, Sjøkvist P, Hamielec C, Puksa S, Marshall J, Foster D, **Levy M**, Varon J, Thorpe K, Fisher M, Walter S, for the Level of Care Investigators and the Canadian Critical Care Trials Group. Influence of Perceived Functional and Employment Status on Cardiopulmonary Resuscitation Directives. *J Crit Care* Sep 2003;18(3):133-141.
33. Dellinger RP, Carlet JM, Masur H, Gerlach H, Calandra T, Cohen J, Gea-Banacloche J, Keh D, Marshall JC, Parker MM, Ramsay G, Zimmerman JL, Vincent J-L, **Levy MM**, for the Surviving Sepsis Campaign Management Guidelines Committee. Surviving Sepsis Campaign guidelines for management of severe sepsis and septic shock. *Crit Care Med* 2004;32(3):858-873.
34. Corwin HL, Gettinger A, Pearl RG, Fink MP, **Levy MM**, Abraham E, MacIntyre NR, Shabot MM, Duh MS, Shapiro MJ. The CRIT Study: Anemia and blood transfusion in the critically ill—current clinical practice in the United States. *Crit Care Med* 2004 32(1):39-52.
35. **Levy MM.** Dying in America. *Crit Care Med* 2004;32(3):879-880.
36. Ward NS, Snyder JE, Ross S, Haze D, **Levy MM.** Comparison of a Commercially Available Clinical Information System with Other Methods of Measuring Critical Care Outcomes Data. *J Crit Care* Mar 2004;19(1):10-15.
37. Ward NS, **Levy MM.** Chapter: Blood transfusion practice today. In *Critical Care Clinics: Blood Transfusion in the Critically Ill*, Elsevier Saunders, 20:179-186, April 2004.
38. Ward NS, **Levy MM.** Blood transfusion practice today (Review). *Crit Care Clinics* Apr 2004, 20(2):179-186.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

39. Rocker G, Cook D, Sjokvist P, Weaver B, Finfer S, McDonald E, Marshall J, Kirby A, **Levy M**, Dodek P, Heyland D, Guyatt G. Level of Care Study Investigators. Canadian Critical Care Trials Group. Clinician predictions of intensive care unit mortality. *Crit Care Med* May 2004;32(5):1149-1154.
40. Clarke EB, Luce JM, Curtis JR, Danis M, **Levy M**, Nelson J, Solomon M, for the Robert Wood Johnson Foundation Critical Care End-of-Life Peer Workgroup Members. A Content Analysis of Forms, Guidelines, and Other Materials Documenting End-of-Life Care in Intensive Care Units. *J Crit Care* June 2004;19(2):108-117.
41. **Levy MM.** PEEP in ARDS—how much is enough? (Comment;Editorial) *NEJM* July 2004, 35194):389-391.
42. **Levy MM.** Caring for the caregiver (Review). *Crit Care Clinics* Jul 2004;20(3):541-547.
43. Dellinger RP, Carlet JM, Gerlach H, Ramsay G, **Levy M.** The surviving sepsis guidelines: not another “groundhog day.” (Comment) *Crit Care Med* Jul 2004; 32(7):1601-1602.
44. Sinuff T, Kahn moui K, Cook DJ, Luce JM, **Levy MM.** Values Ethics and Rationing in Critical Care Task Force. Rationing critical care beds: a systematic review. *Crit Care Med* Jul 2004;32(7):1588-1597.
45. Waxman AB, Ward N, Thompson T, Lilly CM, Lisbon A, Hill N, Nasraway SA, Heard S, Corwin H, **Levy M.** Roundtable debate: Controversies in the management of the septic patient – desperately seeking consensus. *Crit Care* 2004, 8; published online 20 Aug 2004.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

46. **Levy MM.** Shared decision-making in the ICU: Entering a new era (Editorial). *Crit Care Med* 2004;32(9):1966-1968.
47. **Levy M, Tanios MA, Nelson D, Short K, Senechia A, Vespia J, Hill N.** Outcomes of patients with do-not-intubate orders treated with noninvasive ventilation. *Crit Care Med* 2004;32(10):2002-2007.
48. **Sevransky JE, Levy MM, Marini JJ.** Mechanical ventilation in sepsis-induced acute lung injury/acute respiratory distress syndrome: An evidence-based review. *Crit Care Med* 2004;32(11) (Suppl):S548-S553.
49. **Levy MM, Pronovost PJ, Dellinger RP, Townsend S, Resar RK, Clemmer TP, Ramsay G.** Sepsis change bundles: Converting guidelines into meaningful change in behavior and clinical outcome. *Crit Care Med* 2004; 32(11) (Suppl.): S595-S597.
50. **Griffith L, Cook D, Hanna S, Rocker G, Sjokvist P, Dodek P, Marshall J, Levy M, Varon J, Finfer S, Jaeschke R, Buckingham L, Guyatt G, for the Level of Care Investigators and the Canadian Critical Care Trials Group.** Clinician discomfort with life support plans for mechanically ventilated patients. *Int Care Med* 2004;30:1783-1790.
51. **Levy MM.** The Challenge of Sepsis (Commentary). *Crit Care* 2004;8(6):435-436.
52. **Poeze M, Ramsay G, Gerlach H, Rubulotta R, Levy M.** An international sepsis survey: a study of doctors' knowledge and perception about sepsis. *Crit Care* 2004;8(6):R409-413.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

53. Sinuff T, Cook DJ, Rocker GM, Griffith LE, Walter SD, Fisher MM, Dodek PM, Sjokvist P, McDonald E, Marshall JC, Kraus PA, **Levy MM**, Lazar NM, Guyatt GH, for the Level of Care Study Investigators & the Canadian Critical Care Trials Group. DNR directives are established early in mechanically ventilated intensive care unit patients [*Les directives PDR sont établies tôt chez les patients sous ventilation mécanique à l'unité des soins intensifs*]. *Can J Anesth* 2004;51(10):1034-1041.
54. Stanchina ML and **Levy MM**. Vasoactive Drug Use in Septic Shock. *Seminars in Respiratory and Critical Care Medicine: Management of Shock* 2004;25(6):673-681.
55. **Levy MM**. Computers in the Intensive Care Unit (Editorial). *J Crit Care* 2004 (December);19(4):199-200.
56. Luce JM, Cook DJ, Martin TR, Angus DC, Boushey HA, Curtis JR, Heffner JE, Lanken PN, **Levy MM**, Polite PY, Rocker GM, Truog RD. The ethical conduct of clinical research involving critically ill patients in the United States and Canada: principles and recommendations. *Am J Respir Crit Care Med*. 170(12):1375-1384, 2004.
57. **Levy M**. The challenge of sepsis (comment). *Crit Care* 2004;8(6):435-436.
58. **Levy MM**, Baylor MS, Bernard GR, Fowler R, Franks TJ, Hayden FG, Helfand R, Lapinsky SE, Martin TR, Niederman MS, Rubenfeld GD, Slutsky AS, Stewart TE, Styrt BA, Thompson BT, Harabin AL. Clinical Issues and Research in Respiratory Failure from Severe Acute Respiratory Syndrome. *Am J Respir Crit Care Med* 2005;171(5):518-526.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

59. Yaguchi A, Truog RD, Curtis JR, Luce JM, **Levy MM**, Melot C, Vincent JL. International differences in end-of-life attitudes in the intensive care unit: results of a survey. *Archives of Int Med* 2005;165(17):1920-1975.
60. **Levy MM** MD FCCP, Edward Abraham MD, Marya Zilberberg MD FCCP, and Neil R MacIntyre MD FCCP. A Descriptive Evaluation of Transfusion Practices in Patients Receiving Mechanical Ventilation. *Chest* 2005;127:928-935.
61. **Levy MM**. Pathophysiology of oxygen delivery in respiratory failure (Review). *Chest* 2005;128(5:2):547S-553S.
62. Waxman AB, Ward N, Thompson T, Lilly C, Lisbon A, Hill N, Nasraway S, Heard S, Corwin H, **Levy M**. Roundtable debate: Controversies in the management of septic patients: desperately seeking consensus. *Crit Care (London)* 2005;9(1):E1.
63. **Levy MM** and Vallet B, editors-in-chief. Advances in Sepsis: Commentary and analysis on advances in the understanding and treatment of sepsis. 4(4): 2005.
64. A Yaguchi, R Truog, J R Curtis, J Luce, **M Levy**, C Melot, J-L Vincent. International Differences in End-of-Life Attitudes in the Intensive Care Unit. *Arch Int Med* 2005;165:1970-1975.
65. **Levy MM**, Macias WL, Vincent J-L, Russell JA, Silva E, Trzaskoma B, Williams MD. Early changes in organ function predict eventual survival in severe sepsis. *Crit Care Med* 2005;33(10):2194-2201.

ORIGINAL PUBLICATIONS IN PEER-
REVIEWED JOURNALS (cont.)

66. Curtis JR, Cook DJ, Wall RJ, Angus DC, Bion J, Kacmarek R, Kane-Gill S, Kirchhoff KT, **Levy M**, Mitchell PH, Moreno R, Pronovost P, Puntillo K. Intensive care unit quality improvement: A “how-to” guide for the interdisciplinary team. *Crit Care Med* 2006;34:211-218.
67. **Levy MM**. Finding out what we do in the ICU (editorial). *Crit Care Med* 2006;34(1):227-228.
68. Truog RD, Brock DW, Cook DJ, Danis M, Luce JM, Rubenfeld GD, **Levy MM**, for the Task Force on Values, Ethics and Rationing in Critical Care (VERICC). Rationing in the intensive care unit. *Crit Care Med* 2006;34:958-963.
69. Nelson JE, Angus DC, Weissfeld LA, Puntillo KA, Danis M, Deal D, **Levy MM**, Cook DJ for the Critical Care Peer Workgroup of the Promoting Excellence in End-of-Life Care Project. End-of-life care for the critically ill: A national intensive care unit survey. *Crit Care Med* 2006;34:2547-2553.
70. **Levy MM** and Curtis JR, Co-Editors. Supplement to *Critical Care Medicine* November 2006;24(11).
71. **Levy MM**, Curtis JR. Improving end-of-life care in the intensive care unit. *Crit Care Med* 2006;34(11):S301.
72. **Levy MM**, McBride D. End-of-life care in the intensive care unit: State of the art in 2006. *Crit Care Med* 2006;34(11): S306-308.
73. Silva E, Akamine N, Salomao R, Townsend SR, Dellinger RP, **Levy MM**. Surviving sepsis campaign: a project to change sepsis trajectory. *Endocrine, Metabolic & Immune Disorders Drug Targets.* 2006(2):217-222.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

74. Mularski RA, Curtis JR, Billings JA, Burt R, Byock I, Fuhrman C, Mosenthal AC, Medina J, Ray DE, Rubenfeld GD, Schneiderman LF, Treece PD, Truog RD, **Levy MM**. Proposed quality measures for palliative care in the critically ill: A consensus from the Robert Wood Johnson Foundation Critical Care Workgroup. *Crit Care Med* 2006;34(11):S404-411.
75. Davidson J, Powers K, Hedayat K, Tieszen M, Kon A, Shepard E, Spuhler V, Todres D, **Levy M**, Barr J, Ghandi R, Hirsch G, Armstrong D. Clinical practice guidelines for support of the family in the patient-centered intensive care unit: American College of Critical Care Medicine Task Force 2004-2005. *Crit Care Med* 2007;35(2):605-622.
76. Lee MD, Friedenberg AS, Mukpo DH, Conray K, Palmisciano A, **Levy MM**. Visiting hours policies in New England intensive care units: Strategies for improvement. *Crit Care Med* 2007;35:497-501.
77. **Levy MM**. A view from the other side. *Crit Care Med* 2007;35:603-604.
78. Antonelli M, **Levy M**, Andrews PJD, Chastre J, Hudson LD, Manthous C, Meduri GU, Moreno RP, Putensen C, Stewart T, Torres A. Hemodynamic monitoring in shock and implications for management—International Consensus Conference, Paris, France, 27-28 April 2006. *Int Care Med* 2007;33:575-590.
79. **Levy MM**. The electrocardiogram for sepsis: how close are we? *Critical Care* 2007;11:144.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS (cont.)

80. Curtis JR, Cook DJ, Sinuff T, White DB, Hill N, Keenan SP, Benditt JO, Kaczmarek R, Kirchhoff KT, **Levy MM**. Noninvasive Positive Pressure Ventilation in Critical and Palliative Care Settings: Understanding the Goals of Therapy. *Crit Care Med* 2007;35(3):932-939.
81. Levi M, **Levy M**, Williams MD, Douglas I, Artigas A, Antonelli M, Wyncoll D, Janes J, Booth FV, Wang D, Sundin DP, Macias WL. Prophylactic Heparin in Patients with Severe Sepsis Treated with Drotrecogin Alfa (Activated). *Am J Respir Crit Care Med* 2007;176(5):473-482.
82. Laterre PF, Nelson DR, Macias W, Abraham E, Sashegyi A, Williams MD, **Levy MM**, Utterback B, Vincent JL. International integrated database for the evaluation of severe sepsis and drotrecogin alfa (activated) therapy: 28-day survival and safety. *J Crit Care* 2007;22(2):142-152.
83. **Levy MM**. Including families in quality measurement in critical care. *Crit Care Med* 2007;35(1):324-325.
84. Townsend SR, Schorr, C, **Levy MM**, Dellinger RP. Reducing mortality in severe sepsis: the Surviving Sepsis Campaign. *Clinics in Chest Medicine* 2008;29(4):721-733.
85. Ventetuolo CE, **Levy MM**. Biomarkers: diagnosis and risk assessment in sepsis. *Clinics in Chest Medicine* 2008;29(4):591-603.
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ABSTRACTS

1. **Levy MM, Miyasaki A, Tom D.** Prospective trial comparing H₂ blockers and twice-a-day Carafate for prophylaxis of stress ulcers in the ICU. *Crit Care Med* 1993; 21:4S181.
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11. **Levy MM**, Simms H, Cioffi W, Schwartz W, Klinger JR. High frequency percussive ventilation in ARDS. *Crit Care Med* 1997; 25(1):A205.

ABSTRACTS (cont.)

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13. Greene JH, Hill NS, Nelson D, Houtchens JE, Schwartz B, Klinger JR, **Levy MM**. Work of breathing for flow triggering and pressure triggering in the pressure support mode of two ventilators. *Am J Respir Crit Care Med* 1998; 157(3):A305.
14. Greene JH, Klinger JR, **Levy MM**, Nelson D, Mehta S, Schwartz B, Short K, Hill NS. Inhaled nitric oxide increases oxygen delivery in the acute respiratory distress syndrome when added to positive end expiratory pressure. *Am J Respir Crit Care Med* 1998; 157(3):A678.
15. Haze D, Ross S, Gray G. **Levy MM**. Using ICU Clinical Information System to Monitor Protocol Utilization and Variance. *Am J Res Crit Care Med*, 2000; 161(3):A397.
16. Lin DY, Li DC, Houtchens JL, Nelson DL, **Levy MM**. Comparison Between Visual and Mathematical Determinations of Lower Inflection Point in Patients with ARDS. *Am J Res Crit Care Med* 2000; 161(3):A487.
17. **Levy MM**, Ross S, Haze D, Gray G, Ward N. Using an ICU Clinical Information System to Evaluate End-of-Life Care. *Am J Resp Crit Care Med* 2000;161(3):A548.
18. Corwin HL, Abraham E, Fink M, Gettinger A, **Levy M**, Macintyre N, Pearl R, Shabot M, Shapiro M. Anemia and Blood Transfusion in the Critically Ill: Current Clinical Practice in the US – The Crit Study. Supplement to *Crit Care Med* 2000;219(12):A2.
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ABSTRACTS (cont.)

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21. Ho VM, Stozek MA, **Levy MM**. Factors Affecting Discussions of Advance Directives With Patients By Medical Housestaff At Brown University Medical Residency Programs. *American Thoracic Society 98th International Conference, May 2002, Atlanta GA.*
22. Kimble BA, Ward NS, Nelson DL, Houtchens J, Schwartz WA, Klinger JR, Hill NS, **Levy MM**. Comparison of Two Different Decremental PEEP Curves in Determining Optimal PEEP In A Population of Patients with ARDS. *American Thoracic Society 98th International Conference, May 2002, Atlanta GA.*
23. **M Levy**. Early Response to Therapy Predicts Eventual Survival in Severe Sepsis, #273, p. S74. In: *Int Care Med, ESICM 16th Annual Congress, Netherlands: Abstracts & oral presentations*, Vol 9, Supp 1, Sep 2003.
24. Ryan M, **Levy MM**. Clinical review: fever in intensive care unit patients. *Crit Care* 2003 Jun;7(3):221-5. Epub 2003 Mar 08. Review.
25. M Baram, P Walsh, A Sucov **MM Levy**. Early Goal Directed Therapy—Can We Make It Happen? *Am J Respir Crit Care Med* (supplement: *Abstracts 2004 International Conference*) Apr 2004;169(7):A37.
26. CJ Lee, **MM Levy**, DL Nelson FD McCool. Determination of Tidal Volume in High Frequency Oscillatory Ventilation (HFOV): A Lung Model

ABSTRACTS (cont.)

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30. AS Friedenber MD, MD Lee MD, **MM Levy MD**, D Mukpo, K Conray. Restrictions in New England Intensive Care Units: A Barrier to Quality Care. Poster session B50 (Poster: F32) *American Thoracic Society Annual Meeting*, San Diego CA, May 2005.
31. MD Lee MD, NS Ward MD, JM Tenno MD MS, JM Badger PhD CS, BB O'Conner PhD, SJ Ross RN BSNC, **MM Levy MD**. Palliative Care Intervention for the Intensive Care Unit. Poster Session C46 (Poster: B54), *American Thoracic Society Annual Meeting*, San Diego CA, May 2005.
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ABSTRACTS (cont.)

Sepsis: Assessing Clinical Practice.
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Conference (submitted Oct 2005).

33. Levi M, **Levy M**, Williams M, James J, Wang D, Macias W. Abrupt Withdrawal of Prophylactic Heparin in Seer Sepsis: Possible Rebound Thrombosis. 19th ESICM Annual Congress, Barcelona, SPAIN, September 2006.
34. **Levy M**, Williams M, Mignini M, Wang D, Janes J. Safety Profile of Drotrecogin Alfa (Activated) and Low-Dose Heparin Coadministration in Severe Sepsis. 19th ESICM Annual Congress, Barcelona, SPAIN, September 2006.
35. **Levy M**, Shorr A, Williams M, Janes J, Wang D, Booth F. Incidence of Venous Thromboembolism in Severe Sepsis Treated with Drotrecogin Alfa (Activated) With or Without Prophylactic-Dose Heparin. CHEST 2006;130:149S, October 2006.

ABSTRACTS (cont.)

36. Chu D, Abu-Samra A, Baird G, Devers C, Sweeney J, **Levy MM**, Muratore C, Ventetuolo C. Quantitative measurement of heparin in comparison with conventional anticoagulation monitoring and the risk of thrombotic events in adults on extracorporeal membrane oxygenation. Sponsor: *Intensive Care Med* DOI 10.1007//s00134-014-3574-3
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SCHOLARLY WORK PUBLISHED IN
OTHER MEDIA

INVITED PRESENTATIONS
(2003-present)

1. Grand Rounds, St. Luke's/Roosevelt Hospital Medical Center, January 2003, New York NY.
2. Surviving Sepsis Campaign initiative, January 2003 Amsterdam NETHERLANDS.
3. 32nd Congress Society of Critical Care Medicine, January 2003. *Early Goal Directed Therapy and Management of the Septic Patient (Sepsis Treatment and Management: An Evidence Based Review); Ethics: End-of-Life Care (End-of-Life Care in the ICU: Strategies for Getting Better); New Data on Current Practices; New Developments in Cutting Edge Therapies (Surviving Sepsis Campaign);* January 2003, San Antonio TX.
4. Speaker Program and Medical Grand Rounds, Carolina's Medical Center/Northeast Medical Center, February 2003, Concord NC.
5. Bimonthly Department of Medicine Meeting, Good Samaritan Hospital, February 2003, West Islip NY.
6. 23rd International Symposium on Intensive Care and Emergency Medicine. *Clinical sepsis: Should we treat fever? ICU organization/quality: Databases in the ICU. Tutorial: End of life care. Pro-Con debate: The PIRO concept. Pro-Con debate: End of life: Practical Issues,* March 2003, Brussels, BELGIUM.
7. Advances in the Diagnostic and Treatment of Severe Sepsis: Drotrecogin alfa (activated), April 2003, Lisbon PORTUGAL.

INVITED PRESENTATIONS
(2003-present)-cont.

8. International Consensus Conference in Intensive Care Medicine/Challenges in End-of-Life Care in the ICU (committee member and keynote address). *End-of-Life care in the ICU: is there a problem? Historical perspective on End-of-Life care in the ICU*, April 2003, Brussels BELGIUM.
9. Summit on ICU Quality and Cost. *Enhancing EOL Care in a Medical ICU Through Computer-Based Quality Improvement*, May 2003, Chicago IL.
10. Grand Rounds, May 2003, New Jersey Medical School/University Hospital, NJ.
11. American Thoracic Society International Conference. *End of Life Decision Making*. May, 2003, Seattle WA.
12. Value, Ethics, and Rationing in Critical Care Task Force, May 2003, Seattle, WA.
13. ESICM/SCMM 2nd Annual Summer School conference. Conference Summarizer, June 2003, Nice, FRANCE.
14. *New Definitions of Sepsis*, June 2003, Sicily, ITALY.
15. Surviving Sepsis Consensus Conference, *Guidelines for Management of Sepsis*, June 2003, London, ENGLAND.
16. Medical Grand Rounds, Rhode Island Hospital, *Update in Critical Care Medicine*, July 2003, Providence RI.
17. 9th Annual Update in Critical Care: Changing Standards of Care in the ICU: Using Evidence-Based

INVITED PRESENTATIONS
(2003-present)-cont.

- Medicine at the Bedside (co-chair),
September 2003, Providence RI.
18. 7th Conference of International
Trauma, Anaesthesia & Critical Care
Society (Indian Chapter), Sep 2003,
New Delhi, INDIA.
 19. End-of-Life Learning Community
meeting, September 2003, Halifax,
Nova Scotia CANADA.
 20. IMPACT Fall Learning Session
(sponsored by Institute for Healthcare
Improvement), October 2003, Atlanta
GA.
 21. ACCP CHEST 2003 Conference.
Presentations: I) Implementation
Strategies for New Therapies in ICU;
II) Sepsis Treatment and Treatment
Management: An Evidence-Based
Review, October 2003, Orlando FL.
 22. 9th International Conference:
Noninvasive Ventilation: From the
ICU to Home. Presentations: I)
Ethical Issues in Mechanical
Ventilation (Chair) – NIV is useful at
the end of life: CON; II) Ethical Case
Discussion in Acute Care, October
2003, Orlando FL.
 23. 6th Annual Meeting Tuscany Critical
Care Group, October 2003, Florence
ITALY.
 24. National Institutes of Health National
Heart, Lung and Blood Institute
Working Group on Respiratory
Failure from SARS, Oct 2003,
Bethesda MD.
 25. Toronto Critical Care Medicine
Symposium 2003, Oct-Nov 2003,
Toronto, CANADA.
 26. Conference on Ethical Conduct of
Clinical Research Involving Critically
Ill Subjects, Nov 2003, Washington
DC.
 27. VERICC Task Force meeting, Jan

INVITED PRESENTATIONS
(2003-present)-cont.

- 2004, Scottsdale AZ.
28. 10th Annual Conference of the Indian Society of Critical Care Medicine, Feb 2004, Mumbai INDIA.
 29. CNN Headline News, live interview: *Surviving Sepsis & Guidelines*, Mar 2004, Atlanta GA.
 30. 3rd Annual International Summit on Innovations in Critical Care Delivery: Managing Risk and Uncertainty, Mar 2004, Miami FL.
 31. 24th International Symposium on Intensive Care and Emergency Medicine, Mar-Apr 2004, Brussels BELGIUM.
 32. American Thoracic Society International Conference 2004 (faculty), May 2004, Orlando FL.
 33. Brazilian Congress of Intensive Medicine (faculty), June 2004, Curitiba BRAZIL.
 34. 2nd Asia Pacific Centre of Excellence on Critical Care Interventions, Jul-Aug 2004, Hyderabad INDIA.
 35. “New Insights in Mechanical Ventilation” Symposium (sponsored by CHEST), August 2004, Monterey CA.
 36. Surviving Sepsis Campaign, “The Guidelines: Implementation for the Future, Sep 2004, Catania, ITALY.
 37. CHEST 2004 annual conference (faculty), Oct 2004, Seattle WA.
 38. ESICM 17th Annual Congress, October 2004, Berlin GERMANY.
 39. 6th International Bioethics Conference, The St. Francis International Center for Healthcare Ethics, Oct 2004, Honolulu, HI.

INVITED PRESENTATIONS

(2003-present)-cont.

40. Scottish Intensive Care Society Audit Group, Nov 2004, SCOTLAND.
41. Northern Irish Intensive Care Group, Nov 2004, Belfast IRELAND.
42. Irish Intensive Care Society, Nov 2004, Limerick IRELAND.
43. SCCM 2005 Critical Care Congress (faculty), Jan 2005, Phoenix AZ.
44. Presbyterian Saint Luke's Medical Center, Denver CO, and Penrose Hospital and Memorial Hospitals, *Timing of Treatment in High-Risk Severe Sepsis*, Jan 2005, Colorado Springs CO.
45. 10th International Symposium on Infections in the Critically Ill Patient, Porto, January 2005, PORTUGAL.
46. Puerto Rico American College of Physicians Chapter Regional Meeting, Feb 17-19 2005, San Juan PUERTO RICO.
47. 25th International Congress on Intensive Care & Emergency Medicine, March 2005, Brussels, BELGIUM.
48. 7th Annual Conference in Mechanical Ventilation: New Trends 2005, (faculty), April 2005 Boston MA.
49. Computers in the ICU Revisited: An Expert Roundtable Faculty, April 2005, Chicago IL.
50. 2005 Frontiers of Health Care Conference, presented by Brown University in conjunction with Congressman Patrick J. Kennedy, *Don't Reinvent the Wheel: Transformation Lessons for Health Care*, June 2005, Brown University, Providence, RI.
51. *Comprehensive Care of the*

INVITED PRESENTATIONS
(2003-present)-cont.

Hospitalized Patient 2005, sponsored by the University of Washington School of Medicine, June 2005, Seattle WA.

52. International Consensus Conference in Intensive Care Medicine 2005: Weaning from Mechanical Ventilation (faculty), April/May 2005, Budapest, HUNGARY.
53. Ocean State Ethics Conference, Brown University, May 2005, Providence RI.
54. American Thoracic Society 2005 International Conference, May 2005, San Diego CA.
55. Surviving Sepsis Campaign, June 2005, UNITED KINGDOM.
56. 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine, August 2005, Buenos Aires, ARGENTINA.
57. 2nd International Meeting German Sepsis Society, September 2005, Weimar, GERMANY.
58. A Multidisciplinary Approach to Critical Care Medicine (faculty), September 2005, New York NY.
59. CHEST 2005, the 71st Annual International Scientific Assembly of the American College of Chest Physicians (faculty), Oct-Nov 2005, Montreal, CANADA.
60. Surviving Sepsis Workshop, Nov 3-5, 2005 San Juan PUERTO RICO.
61. SCCM End-of-Life Conference, Feb 2006, Miami FL.
62. Lectures/Clinic Workshops (Edwards Lifesciences), Feb-Mar 2006, Beijing and Guangzhou, CHINA.

INVITED PRESENTATIONS
(2003-present)-cont.

63. Invited Jury Member, International Consensus Conference, Apr 2006, Paris FRANCE.
64. Faculty member, GuangDong Critical Care Medicine Conference, May 2006, GuangDong CHINA.
65. Faculty and Session Chair, American Thoracic Society Annual Conference, May 2006, San Diego CA.
66. Invited Speaker, 14th Congress of Asia-Pacific Association of Critical Care Medicine, August 2006, Beijing, CHINA.
67. Invited Speaker, Tuscany Critical Care Group Annual Meeting, September 2006, Florence ITALY.
68. Invited Speaker, 19th Annual Congress of the European Society of Intensive Care Medicine, September 2006, Barcelona, SPAIN.
69. Invited Speaker, American College of Chest Physicians Annual Meeting (CHEST 2006), October 2006, Salt Lake City UT.
70. Faculty, *Implementing an Idealized Model for Critical Care*, sponsored by IHI, November 2006, San Diego CA.
71. 33rd Annual Critical Care Symposium AACN, Nov 2006, Portland OR.
72. 2nd Dutch Surviving Sepsis Campaign, December 2006, Ede, The Netherlands.
73. Annual Conference of the American Society for Parenteral and Enteral Nutrition (keynote speaker), January 2007, Phoenix AZ
74. 5th Annual UCLA Update in Pulmonary and Critical Care Medicine, March 2007, Santa Monica CA.

INVITED PRESENTATIONS
(2003-present)-cont.

75. 7th World Congress on Trauma, Shock, Inflammation and Sepsis, March 2007, Munich GERMANY.
76. 27th International Symposium on Intensive Care and Emergency Medicine (ISICEM), March 2007, Brussels, BELGIUM.
77. Grand Rounds Lecture, Women & Infants' Hospital: *Sepsis 2007*, April 2007, Providence RI.
78. 9th Annual Conference on Mechanical Ventilation, New Trends, April 2007, Boston MA.
79. American Thoracic Society 2007 International Conference, May 2007, San Francisco CA.
80. Naropa University Center for Contemplative End of Life Care and Elder Care 5th Annual Conference, Integrating Spirit and Caregiving, May 2007, Boulder CO.
81. Critical Care Grand Rounds, Mayo Clinic, August 2007, Rochester MN.
82. Center for Excellence in Critical Care, Update in Critical Care 2007, sponsored by University of Minnesota, September 2007, Minneapolis MN.
83. Grand Rounds, Lenox Hill Hospital, 21 Sep 2007, New York NY.
84. University Medical Center/Society of Hospital Medicine Joint Sponsored CME conference, *The Sepsis Continuum of Care: Integrating a Multidisciplinary Approach to Sepsis & Critical Care Pearls for the Hospitalist*, Sep 28-29, 2007, Las Vegas NV.
85. Tuscany Critical Care Group Annual Meeting, Oct 2007, Siena ITALY.
86. 20th ESICM (European Society Intensive Care Medicine) Annual

INVITED PRESENTATIONS
(2003-present)-cont.

Congress, Oct 2007, Berlin
GERMANY.

87. 37th Critical Care Congress, Society of Critical Care Medicine, February 2008, Honolulu HI.
88. 14th Annual National Conference of Indian Society of Critical Care Medicine, February 2008, Bhopal, INDIA.
89. 13th International Symposium on Infections in the Critically Ill Patient, February 2008, Athens, GREECE.
90. 2008 Kern Visiting Professorship in Critical Care and Glen Duffie Memorial Lecture: Distinguished Visiting Professor, April 2008, Portland OR.
91. ESICM-sponsored Surviving Sepsis Campaign Planning Meeting at the International Consensus Conference, April 2008, Florence ITALY.
92. XIII Brazilian Congress of Intensive Care Medicine, May 2008, Salvador, Bahia, BRAZIL.
93. ATS 2008 International Conference (invited speaker), May 2008, Toronto, CANADA.
94. 2008 *Update in Critical Care: Implementing Bedside Practice* (conference chair and speaker), June 2008, Providence RI.
95. *Improving Outcomes for High-Risk and Critically-Ill Patients* (Institute for Healthcare Improvement), June 2008, Atlanta, GA.
96. *Fifth International Sepsis Forum* (invited speaker), June 2008, São Paulo BRAZIL.
97. *ESICM 21st Annual Congress* (invited speaker), Sep 2008, Lisbon PORTUGAL.

INVITED PRESENTATIONS
(2003-present)-cont.

98. *Baltimore City Hospital and Johns Hopkins Bayview Medical Center Critical Care Symposium* (invited speaker), Sep 2008, Baltimore MD
99. *3rd Annual Conference: Honoring & Caring for Veterans at the End of Life*, VA New England Healthcare System, Oct 2008, Newington CT.
100. *Criticare 2009, Int'l Critical Care Congress & 15th Annual Conference of Indian Society of Critical Care Medicine*. Feb 2009, Agra INDIA.
101. *3rd Congress of Critical Care Medicine of China*, May 2009, Harbin CHINA.
102. *10th Congress of the World Federation of Societies of Intensive and Critical Care Medicine*. Aug-Sep 2009, Florence ITALY.
103. *22nd Annual Congress European Society of Intensive Care Medicine*, Oct 2009, Vienna AUSTRIA.
104. *Critical Care Canada Forum*, Oct 2009, Toronto, Ontario, CANADA.
105. *ATS 2010*, New Orleans, LA, May 2010.
106. *Safar Symposium Life and Death in the ICU: Ethical Treatment in 2010*; Johns Hopkins, Baltimore MD, May 2010.
107. *HICPAC Meeting (CDC)*, Atlanta GA, June 2010.
108. *Expert Meeting and Workshop: HAI Prevention in Acute Care Hospitals*, Arlington VA, Sep 2010.
109. *ARDS DSMB Meeting*, Bethesda MD, Sep 2010.

INVITED PRESENTATIONS
(2003-present)-cont.

110. European Respiratory Society (ERS) Annual Congress 2010, Barcelona SPAIN, Sep 2010.
111. European Society of Intensive Care Medicine (ESICM) 23rd Congress, Barcelona, SPAIN, Oct 2010.
112. CHEST 2010, Vancouver BC CANADA, Oct 30-Nov 04, 2010
113. Society of Critical Care Annual Congress, San Diego CA, Jan 15-19, 2011.
114. 17th Annual Congress of the Indian Society of Critical Care Medicine & International Critical Care Congress 2011, New Delhi, INDIA, Feb 16-21, 2011.
115. Università degli Studi di Firenze, Dept of Medical and Surgical Critical Care, sepsis presentation. Florence, ITALY, Apr 29-Jun 3, 2011.
116. American Thoracic Society 2011, Denver CO, May 13-18, 2011.
117. National Quality Forum Measure Applications Partnership Ad Hoc Safety Workgroup Meeting, Washington DC, Jul 11-12, 2011.
118. Working Group to Refine a Streamlined Ventilator-Associated Pneumonia Surveillance Definition for Use in Adult Patients (the “CDC sVAP meeting”), Centers for Disease Control and Prevention, Atlanta GA, Sep 19 2011.
119. 24th Annual Congress of the European Society of Intensive Care Medicine, Berlin, GERMANY, Oct 1-5, 2011.
120. Spanish Society of Intensive Care Medicine, Barcelona, SPAIN, Nov 2011.

INVITED PRESENTATIONS
(2003-present)-cont.

121. 24th Congresso Nazionale della Società Italiana di Terapia Intensiva, Florence, ITALY, Nov 2011.
122. 1st Annual Critical Care Surviving Sepsis Conference, New Delhi INDIA, Dec 10-11, 2011.
123. Patan Hospital, invited speaker (discussion topics: ICU medicine and Evidence Based Medicine), Kathmandu NEPAL, Dec 13, 2011.
124. 17th International Symposium on Infections in the Critically Ill Patient, Barcelona SPAIN, Feb 2-3, 2012.
125. SCCM 41st Critical Care Congress, Houston, TX, Feb 4-7, 2012.
126. Criticare India 2012 (ISCCM/Indian Society of Critical Care Medicine), Feb 15-19, 2012, Pune, INDIA.
127. Guy's and St. Thomas Hospital: *Patient Safety by Groups and Surviving Sepsis*, Mar 09, 2012, London, England.
128. National Quality Forum, Pulmonary and Critical Care Endorsement Maintenance Meeting, Mar 21-22, 2012, Washington DC.
129. New Jersey Hospital Association, Sepsis 2012: What's Hot and What's Not; *Results of the Surviving Sepsis Campaign*, Mar 23, 2012, Trenton NJ.
130. The National Summit on Critical Care Policy, Jul 2012, Washington DC.
131. National Quality Forum Measure Applications Partnership Safety & Care Coordinator Task Force meeting, Jul 2012, Washington

INVITED PRESENTATIONS
(2003-present)-cont.

- DC.
132. SSC Moore Foundation Focus Group Meeting, Aug 2012, Palo Alto CA.
 133. ARDS DSMB In-person Meeting, Sep 2012, Bethesda MD.
 134. Surviving Sepsis Campaign Scientific Meeting, Sep 2012, Florence ITALY.
 135. ESICM , Oct 2012, Lisbon PORTUGAL
 136. 2012 SCAL Sepsis Summit, Nov 2012, Pomona CA
 137. Conference: Dignity in Death, Applying the Lessons of Mindfulness to Improve the Quality of End-of-Life Care, Nov 2012, Montreal, CANADA
 138. AACN Critical Care Fall Symposium, Nov 2012, Portland OR
 139. 2012 Shanghai Workshop on Critical Care Nephrology and Acute Kidney Injury, Nov 2012, Shanghai CHINA
 140. ESICM-SCCM Surviving Sepsis Campaign Planning Meeting, Nov 2012, New York NY
 141. MAP Hospital Workgroup Meeting (National Quality Forum), Dec 2012, Washington DC.
 142. SCCM Congress 2013, Jan 2013, San Juan PUERTO RICO.
 143. ATS Nominating Committee In-Person Meeting, Mar 02-03, 2013, San Diego CA
 144. Joint Commission/SCCM Grant Meeting, Mar 04, 2013, Chicago IL.

INVITED PRESENTATIONS
(2003-present)-cont.

145. CMS Sepsis Grand Rounds,
CMS Offices/Baltimore, Mar 2013.
146. Annual New England Critical
Care Pharmacy Symposium,
Northeastern University School of
Pharmacy, May, 2013.
147. ATS 2013 Congress (faculty
presenter), Philadelphia PA, May 17-
22, 2013.
148. Steering Committee Meeting:
*Prevalence Study for World Sepsis
Day—Réanimation Médical*, Hôpital
Cochin, Paris FRANCE, Jul 27-28,
2013.
149. Round Table Group meeting
at World Federation of Societies of
Intensive and Critical Care Medicine
(WFSICCM), Durban, SOUTH
AFRICA, Aug 28-Sep 01, 2013.
150. Critical Care Program
presentation, Guys & St. Thomas
Hospital, London, ENGLAND, Sep
2013
151. ICU Visiting Professor
Program, Awareness Day for
Sepsis/World Sepsis Day, Riyadh
SAUDI ARABIA, Sep 24-25, 2013.
152. ESICM 26th Annual Congress
(faculty), Paris FRANCE, Oct 05-09,
2013.
153. Society of Critical Care
Medicine Annual Congress. San
Francisco, CA. January 9-13, 2014.
154. Harborview Medical Center
2nd Regional Conference, Seattle,
WA, February 7-9, 2014.
155. CritiCARE 2014 20th Annual
Conference of Indian Society of
Critical Care Medicine & 18th
Asia/Pacific Congress of Critical
Care Medicine. Jaipur, India February
11-16, 2014.

INVITED PRESENTATIONS
(2003-present)-cont.

156. 34th Annual International Symposium on Intensive Care and Emergency Medicine (Faculty) Square, Brussels, March 18-21, 2014.
157. “Let’s Talk about Death Seminar”, UCSF, San Francisco, CA, May 2-4, 2014.
158. American Thoracic Society Annual Conference. San Diego, CA, May 16-21, 2014.
159. ESICM LIVES 2014 Annual Conference. Barcelona, Spain. September 26-October 2, 2014.
160. NYU Mindfulness and Communication Program. NY University, NY. October 17-19, 2014.
161. ESICM Lives 2014; Barcelona, Spain 9/26-10/2/2014.
162. NYU Mindfulness & Communication Program; New York University; NY, NY. 10/17-10/19/2014.
163. Grand Rounds Speaker with Adventist Health; Orlando, Fl. 10/20, 10/21/2014.
164. Buddhist Contemplative Care Symposium; Garrison Institute, Garrison, NY. 11/6-11/9/2014.
165. Society of Critical Care Medicine Annual Critical Care Congress; Phoenix, AZ. 1/17-1/21/2015.
166. Sepsis Scientific Input Engagement; Le Meridien; Philadelphia, PA. 2/9-2/11/2015.
167. New York University Grand Rounds; NYU; NY, NY. 2/25-2/26/2015.

168. Barcelona Sepsis Program;
Barcelona, Spain; 3/6-3/9/2015.
169. Annual Thoracic Society
Annual Conference; Denver,
Colorado; 5/15-5/20/2015.
170. 12th Congress of the World
Federation of Societies of Intensive
and Critical Care Medicine; Seoul,
Korea. 8/27-9/1/2015.
171. Center for Disease Control
Annual Data Sharing Sepsis Meeting;
Emory Conference Center; Atlanta,
GA. 9/9/2015.
172. Sepsis Without Walls Sepsis
Conference. Baltimore, Maryland.
9/24/2015.
173. ACCEPTS Meditation
Instruction; Chicago, IL. 9/26-
27/2015.
174. Michigan Health & Hospitals
Association Keystone ICU
Collaborative; Flint, Michigan.
9/29/2015.

1. Principal Investigator: *Work
of Breathing as a Weaning
Parameter*. Bicore Inc:
\$15,000; 1993-1994.
2. Principal Investigator:
*Evaluation of New Weaning
Parameters*. Allied Health
Care: \$14,000; 1996-1998.
3. Principal Investigator:
*Evaluation of Anti-TNF
Antibody in Sepsis*;
Therapeutic Antibodies Inc:
\$50,000; 1997-1998.
4. Principal Investigator:

Caregivers' Attitudes Toward End-of-Life Issues. McMaster University and Hewlett-Packard Corp: \$12,000; 1997.

5. Principal Investigator: *Low-Molecular Weight Heparin in MICU Patients.* Rhone-Poulenc Rorer Pharmaceuticals Inc: \$70,000; 1997.

6. Principal Investigator: *Phase II Trial of Neutrophil Elastase Inhibitor.* Zeneca Pharmaceuticals: \$8,000; 1998.

GRANTS

GRANTS (cont.)

1. Principal Investigator: *Pressure vs Flow Triggering in Mechanical Ventilation.* Siemens Corp: \$20,000; 1997-1998.

2. Principal Investigator: *Evaluation of the Impact of Antipyretics in the Critically Ill: A Randomized Trial.* Unfunded: 07/2000-2001.

3. Principal Investigator: *Lower Inflection Point on the Pressure-Volume Curve in ARDS: Gradual Inflation vs. Optimal PEEP Studied at 3 Tidal Volumes.* Unfunded: 09/2000-2001.

GRANTS (cont.)

4. Principal Investigator: *Efficacy and Safety of r-HuEPO in the Critically Ill Patient: A Randomized Double-Blind, Placebo-Controlled Trial.* OrthoBiotech Inc: \$107,520; 11/2000-06/2001.
5. Principal Investigator: *Multicenter Double-Blind, Placebo-Controlled Randomized Phase III Study of Tifacogin Recombinant Tissue Factor Pathway Inhibitor in Severe Sepsis:* Chiron Corporation: \$90,000; February 2000-Oct 2002.
6. Principal Investigator: *An Open-Label Study of Recombinant Human Activated Protein C in Severe Sepsis.* Eli Lilly and Company: \$17,097; January 2001.
7. Primary Investigator: *Care Protocols in Intensive Care Project Survey.* DEIO Corp: \$18,000; June 2001.
8. Principal Investigator: *Increasing Organ Donation by Enhancing End-of-Life Care: A Family Centered, Quality Improvement Program.* Robert Wood Johnson Foundation: \$125,000; 1999-2002.
9. Principal Investigator: The Robert Wood Johnson Foundation, *Research Initiative and Identification of Barriers to Optimal End-of-Life Care.* The Robert Wood Johnson Foundation: \$700,000; October 2000-October/2002.
10. *Rationing in Critical Care.* Unrestricted education grant, Eli Lilly and Company: \$1.8 million.

Grant period: 18 months;
November 2002.

GRANTS (cont.)

11. *End-of-Life Care Audit Tool*. Robert Wood Johnson Foundation: \$150,000. Grant period: 18 months; November 2002.
12. *Early Goal Directed Therapy*. Edwards Lifesciences: \$30,000; July 2003.
13. Principal Investigator: *Measuring the Quality of Palliative Care in the Intensive Care Unit*. The Robert Wood Johnson Foundation: \$250,000; July 2002-December 2003.
14. *PEEP in ARDS*. Siemens Corp: \$30,000, September 2003.
15. *A Double Blind, Placebo-Controlled Study of E5664, a Lipid Antagonist, Administered by Twice Daily Intravenous Infusions in Patients with Severe Sepsis (Lipid A Antagonist)*. Eisai, Inc/PPD: \$71,824, Sep 2003.
16. *Evaluation of Efficacy and Safety of Epoetin Alfa in Critically Ill Subjects (EPO-ICU-002)*. Johnson & Johnson Interventional Systems/CARESTAT: \$225,498, Jan 2004.
17. *Clinical Coordinating Center for a Phase 3, Multicenter, Randomized, Placebo-Controlled, Double-Blind, Three-Arm Study to Evaluate the Safety and Efficacy of Tifacogin (Recombinant Tissue Factor Pathway Inhibitor) Administration in Subjects with Severe Community-Acquired Pneumonia* (Chiron Coord Center). Chiron Corporation:

\$401,200, April 2004.

GRANTS (cont.)

18. *Double-Blind Randomized Study for safety and efficacy of GR270773 in Treatment of Gram-negative Severe Sepsis in Adults.* GlaxoSmithKline: \$81,832.94, 7/1/04-6/30/05.
19. *An Evaluation of Vasopressor Requirement, Hemodynamic Response and Measures of Tissue Perfusion with the Administration of Drotrecogin Alfa (Activated) as Part of Physician-Directed Therapy in Patients with Septic Shock.* Eli Lilly and Company: \$32,505, 11/2/2005-10/31/2007.
20. *Clinical Evaluation of Philips Medical Systems Clinical Information System Carevue C.0 including a Clinical Data Server.* Philips Medical System: \$4,050, 4/1/2006-7/1/2006.
21. *PCT in Microcirculation: PCT levels and Microcirculatory Abnormalities in Septic Patients.* Brahms Diagnostics: \$6,000, 9/27/2007-present.
22. *A Phase 2 Randomized, Double-blind, Placebo-controlled Study of the Safety and Efficacy of Talactoferrin Alfa in Patients with Severe Sepsis.* Agennix Incorporated: \$67,288, 5/1/08-present.
23. *Case Control Study to Collect Plasma and Whole Blood from ICU Patients At Risk For Sepsis to Validate Biological Markers for the Prediction or Detection of Sepsis.* BD Diagnostics: \$168,000, 3/20/08-present.
24. *Linezolid in the Treatment of Subjects with Nosocomial Pneumonia Proven to be Due to Methicillin-Resistant*

- Staphylococcus Aureus* (sub-investigator). Pfizer: \$106,500, 6/5/2008-present.
25. *Mathematical modeling of disease progression in patients at risk for sepsis: A prospective cohort study.* Immunetrics: \$383,100), 2009- present.
 26. *Validation of the Procalcitonin (PCT) Assay using the ADVIA Centaur System (Extension).* Siemens: \$23,781), Feb 2011-Sep 2011.
 27. *To assess the performance of SeptiCyte® Lab to diagnose patients identified as suspected of sepsis in general medical and surgical wards with infection-positive from infection-negative SIRS.* Sponsor: Immunexpress; Startdate: 5/7/2015 – present Amount: \$147,275
 28. *Randomized Trial of Ticagrelor in Severe Community Acquired Pneumonia*
 29. *Sponsor: Vanderbilt University Medical Center/ASTRAZENECA; Start: 12/18/2014 – present. Amount: \$180,813*
 30. *Prospective evaluation of family care rituals in the icu and validation of the end-of-life scoring-system (ending-s)* Sponsor: Cox Foundation. Start: 07/01/2014 – present. Amount: \$150,500
 31. *Validation of Chitinase-3-Like 1 as a biomarker of organ dysfunction and death in the immunosuppressive phase of severe sepsis and septic shock.* Sponsor: Department funded. Start: 12/14/2014 – present;

Amount: \$0

2. Dalhousie University (1988-1990)

1. Established Critical Care Noon Lecture Series for Internal Medicine housestaff: 1 hour every other week: 9 months/year; responsible for all lectures in series

UNIVERSITY TEACHING ROLES

3. University of Hawaii (1992-1995)

1. Morning report for Internal Medicine Housestaff: 1 hour/day, 4 days/week, all year; responsible for all sessions over two-year period
2. Critical Care Lecture Series, coordinator for IM Housestaff and medical students: 1 hour lecture, 4 days/week, all year; responsible for coordination of faculty; presented half of all lectures in series
3. Developed Journal Club for Critical Care Faculty: 2 hours/month, 12 months/year; coordinated topics and faculty

UNIVERSITY TEACHING ROLES
(cont.)

4. Member of the Curriculum Committee of the Internal Medicine Residency Program: participated in restructuring of curriculum for IM residents, 2 hours/month for 6 months; 1 hour/month, 12 months/year

4. Brown University (1997-present)

1. Medical Intensive Care Unit Elective: Medical Students (Brown University Medical ICU clerkship coordinator: developed orientation package (reference material for medical students); teach medical students basics of critical care including pulmonary

artery catheterization, mechanical ventilation, acid-base disorders, triage of the critically ill patient, ethical dilemmas in critical care and renal failure in the ICU; teach interpretation of laboratory and diagnostic testing; discuss patient evaluation and development of differential diagnosis and therapeutic plan; teach medical informatics and literature search skills; introduce evidence-based medicine in critical care concepts to medical students; didactic lectures 1 hour/day, 5 times/week, 6 months/year.

2. Pathophysiology Course for Pulmonary/Critical Care Fellows: Give lecture during initial pathophysiology course for fellows each summer; coordinate biweekly Critical Care Monday Morning Conference for Pulmonary and Critical Care fellows, 1 hour/every other week; coordinate topics and faculty, present 6-8 lectures in this series/year.

UNIVERSITY TEACHING ROLES

(cont.)

- Introduced and coordinates monthly Journal Club for Pulmonary/Critical Care fellows, 2 ½ hours/night, 1 night/month, 12 months/year; coordinate topics and choose articles; introduce and maintain evidence-based medicine format for presentations and discussions.

