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**CURRICULUM VITAE
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Key words: Sepsis, End-of-Life Care, Hemodynamic Management

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
- Presidential Citation Award, 1999, 2000, 2001
- Letter of Commendation, American College of Chest Physicians, The CHEST Foundation, 2000, 2001, 2002
- Christer Grenvik Memorial Award for Ethics in Critical Care Medicine, January 2002
- Rhode Island Hospital MICU, Director: National Coalition on Health Care and the Institute for Healthcare Improvement recognition as one of the top eleven ICUs in the U.S. for exceptional quality of care, January 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
- American Association of Physicians, 2018.

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

- 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
- 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
- Abstract Review Board, Critical Care Medicine, 1993-present
- Member, Evidence-Based Medicine in Critical Care Group, McMasters University, 1994-present
- 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
- 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
- Co-editor, Critical Care Clinics, "Evidence-Based Medicine in Critical Care," July 1998
- Member, Consensus Conference: Managing Death in the ICU, funded by Robert Wood Johnson Foundation, December 1998.
- Director of Critical Care Services, Rhode Island Hospital, Providence, RI, October 2002-present
- Interim Medical Director, MICU, The Miriam Hospital, August 2006-2009
- Interim Chief, Division of Pulmonary, Critical Care and Sleep Medicine, Rhode Island Hospital, August 2006-2009
- Division Chief, Pulmonary, Critical Care and Sleep Medicine, Rhode Island Hospital, Providence, RI, August 2009-present
- Chairperson, The Robert Wood Johnson ICU Peer Workgroup in Endof-Life Care, Rhode Island Hospital, 1999-present
- Chair, Disease Management Summer Conference: joint effort between the Society of Critical Medicine and the European Society of Intensive Care Medicine for education and critical care, 2001.



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- Senior Editor, Journal of Critical Care, W B Saunders, Philadelphia, PA, 2001-present
- 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, 2002-2005
- President, Society of Critical Care Medicine, 2009
- Committee Member, National Quality Forum (NQF) Steering Committee for the Pulmonary Project, January 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, present

OTHER APPOINTMENTS

- Dalhousie University, Halifax, Nova Scotia, Canada - 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
- Member, Ethics Committee, 1992- 1995

MEMBERSHIP IN SOCIETIES

- 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
- Chair, Organ Donation Advisory Committee, 1999-present
- Team Leader, Physician Order Management Team, 2001-present
- Member-at-Large, Medical Executive Committee, 2000-2002
- Co-chair, Inter ICU Group, 2008present
- American College of Physicians, 1978-present



- Society of Critical Care Medicine, 1988-present
- Member, Consensus Conference on Humane Caring in the ICU, October 1991
- “Leader”, Society of Critical Care Medicine, 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 Education & Scientific Symposium of the Society of Critical Care Medicine, 2001
- Elected to Council, the governing body of SCCM, February 2002-present
- President, SCCM, 2009
- Member, American College of Critical Care Medicine, 1995-present
- Member, 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
- Member, American College of Chest Physicians, 1996-present
- Member, Critical Care Network Steering Committee, 1997-1998
- 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
- Liaison, 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
- Leadership Role and Steering Committee Member, State-wide initiatives on quality in sepsis and palliative care, Rhode Island and New Jersey, 2008-2010
- Representative, National Quality Forum, SCCM, 2009-present
- Member, Advisory Committee on Quality for the Blue Distinction Program, Blue Cross Blue Shield of America, 2010-present
- Leadership Role, State-wide quality initiative in catheter-related bloodstream infection and sepsis, New York City Health and Hospital Corporation, 2007-2010
- Content Expert and Voting Member, Hospital Workgroup of the Measure Applications Partnership (MAP), National Quality Forum, April 2011-present



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- Technical Expert, Closing the Quality Gap: Prevention of Healthcare-associated Infections Project, Evidence-Based Practice Center (EPC) Program, Agency for Healthcare Research and Quality (AHRQ), 2011-present
- Member, National Heart, Lung and Blood Institute (NHLBI), National Institute of Health (NIH), DSMB, 2017-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. *Critical 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. *Critical 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. *Critical Care Clinical* 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. *Current Opinion Critical Care* June 1997; 3(3):226-231.
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. *Critical Care Clinical* 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. *Critical Care Med* March 1998; 26(3):599-606.
11. Cook DJ, Levy MM, Heyland DK. How to use a review article: prophylactic endoscopic sclerotherapy for esophageal varices. Evidence Based Critical Care Medicine Group. *Critical Care Medicine*. April 1998; 26(4):692-700.
12. Levy MM. An evidence-based evaluation of the use of sodium bicarbonate during cardiopulmonary resuscitation. *Critical Care Clinical* 1998; 14(3):457-483.
13. Levy MM. Evidence-based medicine in critical care. *Current Opinion Critical Care* 1999; 5(4):326-331.
14. Crippen D, Levy M, Truog R, Whetstine L, Luce J. Debate: what constitutes "terminality" and how does it relate to a living will? *Critical Care Med* 2000; 4:333-338.
15. Levy MM. Palliative Care in Respiratory Care: Conference Summary. *Respiratory Care* 2000; 45(12):1534-1540.
16. Mehta S, Nelson DL, Klinger JR, Buczko GB, Levy MM. Prediction of post-extubation work of breathing. *Critical Care Medicine*, May 2000; 28(5):1341-1346.



17. Levy MM, Carlet J. Compassionate end-of-life care in the intensive care unit. *Critical Care Med*, February 2001; 29(2)Supp:N1.
18. Levy MM. End-of-life care in the intensive care unit: Can we do better? *Critical Care Med*, February 2001; 29(2)Suppl:N56-61.
19. Levy MM. Paying attention to death. *Critical 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, January 2002; 18(1)15-33.
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):1941.
23. Ward NS, Lin DY, Nelson DL, Houtchens J, Schwartz WA, Klinger JR, Hill NS, Levy MM. Successful determination of lower inflection point and maximal compliance in a population of patients with acute respiratory distress syndrome. *Critical 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: randomized controlled trial. *JAMA*. December 11, 2002; 288(22):2827-2835.
25. Levy MM. PEEP in ARDS: Changing Concepts and Current Controversies. *Critical Care*, January 2002.
26. Levy MM, Fink MP, Marshall JC, Abraham E, Angus D, Cook D, Cohen J, Opal S, Vincent J-L, Ramsay G. 2001 SCCM/ESICM/ACCP/SIS International Sepsis Definitions Conference. Co-published: *Intensive Care Med*, 2003; 29:530-538 and *Critical Care Med*, 2003; 31(4):1250-1256.
27. Ryan M, Levy M. Clinical Review: Fever in intensive care unit patients. *Critical 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. *Critical Care (London)*, June 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. *Journal Trauma-Injury Infection & Critical Care*, August 2003; 55(2):269-274.
30. Clarke E, Curtis JR, Luce J, Levy M, Danis M, Nelson J, Solomon M. Robert Wood Johnson Foundation Critical Care End-of-Life Peer Workgroup Members. Quality indicators for end-of-life care in the intensive care unit. *Critical Care Med*, September 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*, September 18, 2003; 349(12):1123-1132.



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32. Guyatt G, Cook D, Weaver B, Rocker G, Dodek P, Sjokvist 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 Critical Care*, September 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. *Critical 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. *Critical Care Med*, 2004; 32(1):39-52.
35. Levy MM. Dying in America. *Critical Care Medicine*, 2004; 32(3):879-880.
36. Ward NS, Snyder JE, Ross S, Haza D, Levy MM. Comparison of the Commercially Available Clinical Information System with Other Methods of Measuring Critical Care Outcomes Data. *J Critical Care*, March 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, April 2004; 20:179-186.
38. 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. *Critical Care Med*, May 2004; 32(5):1149-1154.
39. Clarke EB, Luce JM, Curtis JR, Danis M, Levy M, Nelson J, Solomon M, 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 Critical Care*, June 2004; 19(2):108-117.
40. Levy MM. PEEP in ARDS – how much is enough? (Comment: Editorial) *NEJM*, July 2004; 351(94):389-391.
41. Levy MM. Caring for the caregiver (Review). *Critical Care Clinics*, July 2004; 20(3):541-547.
42. Dellinger RP, Carlet JM, Gerlach H, Ramsay G, Levy M. The surviving sepsis guidelines: not another “Groundhog Day”. (Comment) *Critical Care Med*, July 2004; 32(7):1601-1602.
43. Sinuff T, Kahnemoui K, Cook DJ, Luce JM, Levy MM. Value Ethics and Rationing in Critical Care Task Force. Rationing critical care beds: a systematic review. *Critical Care Med*, July 2004; 32(7):1588-1597.
44. 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. *Critical Care*, 20 August 2004; published online.
45. Levy MM. Shared decision-making in the ICU: Entering a new era (Editorial). *Critical Care Med*, 2004; 32(9):1966-1968.
46. 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. *Critical Care Med* 2004; 32(10):2002-2007.

47. Sevransky JE, Levy MM, Marini JJ. Mechanical ventilation in sepsis-induced acute lung injury/acute respiratory distress syndrome: An evidence-based review. *Critical Care*
48. 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. *Critical Care Med*, 2004; 32(11) (Suppl.): 595-597.
49. 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. *Intensive Care Med*, 2004; 30:1783-1790.
50. Levy MM. The Challenge of Sepsis (Commentary). *Critical Care*, 2004; 8(6):435-436.
51. Poeze M, Ramsay G, Gerlach H, Rubulotta R, Levy M. An international sepsis survey: a study of doctors' knowledge and perception about sepsis. *Critical Care* 2004; 8(6):R409-413.
52. 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 patient's sous ventilation mécanique à l'unité des soins intensifs. *Can J Anesth*, 2004; 51(10):1034-1041.
53. 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.
54. Levy MM. Computers in the Intensive Care Unit (Editorial). *J Critical Care*, December 2004; 19(4):199-200.
55. 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 Respiratory Critical Care Med*, 2004; 170(12):1375-1384.
56. 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 Respiratory Critical Care Med*, 2005; 171(5):518-526.
57. 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 Internal Med*, 2005; 165(17):1920-1975.
58. 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.
59. Levy MM. Pathophysiology of oxygen delivery in respiratory failure (Review). *Chest* 2005; 128(5:2):547-553.
60. 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. *Critical Care (London)* 2005; 9(1):E1.



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61. 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):2005.66.
62. Yaguchi A, Truog R, Curtis JR, Luce J, Levy M, Melot C, Vincent J-L. International Differences in End-of-Life Attitudes in the Intensive Care Unit. Arch Internal Med, 2005; 165:1970-1975.
63. 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. Critical Care Med, 2005; 33(10):2194-2201.
64. 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. Critical Care Med, 2006; 34:211-218.
65. Levy MM. Finding out what we do in the ICU (editorial). Critical Care Med 2006; 34(1):227-228.
66. 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. Critical Care Med 2006; 34:958-963.
67. 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. Critical Care Med, 2006; 34:2547-2553.
68. Levy MM and Curtis JR, Co-Editors. Supplement to Critical Care Medicine, November 2006; 24(11).
69. Levy MM, Curtis JR. Improving end-of- life care in the intensive care unit. Critical Care Med, 2006; 34(11): S301.
70. Levy MM, McBride D. End-of-life care in the intensive care unit: State of the art in 2006. Critical Care Med 2006; 34(11): S306308.
71. 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.
72. 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. Critical Care Med, 2006; 34(11): S404-411.
73. 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. Critical Care Med, 2007; 35(2):605-622.
74. Lee MD, Friedenber AS, Mukpo DH, Conray K, Palmisciano A, Levy MM. Visiting hours’ policies in New England intensive care units: Strategies for improvement. Critical Care Med, 2007; 35:497-501.
75. Levy MM. A view from the other side. Critical Care Med, 2007; 35:603-604.
76. 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. *Internal Care Med*, 2007; 33:575-590.
77. Levy MM. The electrocardiogram for sepsis: how close are we? *Critical Care*, 2007; 11:144.
 78. Curtis JR, Cook DJ, Sinuff T, White DB, Hill N, Keenan SP, Benditt JO, Kaczmarek R, Kirchoff KT, Levy MM. Noninvasive Positive Pressure Ventilation in Critical and Palliative Care Settings: Understanding the Goals of Therapy. *Critical Care Med*, 2007; 35(3):932- 939.
 79. 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 Respiratory Critical Care Med*, 2007; 176(5):473- 482.
 80. Levy MM. Including families in quality measurement in critical care. *Crit Care Med*, 2007; 35(1):324-325
 81. 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.
 82. Ventetuolo CE, Levy MM. Biomarkers: diagnosis and risk assessment in sepsis. *Clinics in Chest Medicine*, 2008; 29(4):591-603.
 83. Ferrer R, Artigas A, Levy MM, Blanco J, Gonzalez-Diaz G, Garnacho-Montero J, Ibanez J, Palencia E, Quintana M, de la Torre-Prados MV, for the Edusepsis Study Group. Improvement in process of care and outcome after a multicenter severe sepsis educational program in Spain. *JAMA*, 21 May 2008; 299(19):2294-2303.
 84. Dellinger RP, Levy MM, Carlet JM, Bion J, Parker MM, Jaeschke R, Reinhart K, Angus D, Brun-Buisson C, Beale R, Calandra T, Dhainaut, J-F, Gerlach H, Harvey M, Marini JJ, Marshall J, Ranieri M, Ramsay G, Sevransky J, Thompson T, Townsend S, Vender JS, Zimmerman JL, Vincent J-L, for the International Surviving Sepsis Campaign Guidelines Committee. Surviving Sepsis Campaign: International guidelines for management of severe sepsis and septic shock: 2008. *Critical Care Med*, 2008; 36:296-327
 85. Bülow H-H, Sprung CI, Reinhart K, Prayag S, Du B, Armaganidis A, Abroug F, Levy MM. The world's major religions' points of view on end-of-life decisions in the intensive care unit. *Intensive Care Med*, 2008; 34:423-430.
 86. Takala J, Dellinger RP, Koskinen K, St. Andre A, Read M, Levy M, Jakob SM, Mello PVC, Friolet R, Ruokonen E. Development and simultaneous application of multiple care protocols in critical care: a multicenter feasibility study. *Intensive Care Med*, 2008; 34:1401-1410; online version: doi:10.1007/s00134-008- 1084-x.
 87. Ward NS, Teno JM, Curtis JR, Rubenfeld GD, Levy MM. Perceptions of cost constraints, resource limitations, and rationing in United States intensive care units: results of a national survey. *Critical Care Med*, 2008; 36(2):471-476.
 88. Ventetuolo C, Levy M. Sepsis: A Clinical Update. *Clin J Am Soc Nephrol*, 2008; 3(2):571-577.
 89. Thompson BT, Clemmer TP, Ahrens T, Levy MM, Vincent JL, Dellinger RP. The new Surviving Sepsis Campaign recommendations on glucose control: reply to Schultz et al. *Intensive Care Med*, 2008; 34(4):781-782.
 90. Lanken PN, Terry PB, Delisser HM, Fahy BF, Hansen-Flaschen J, Heffner JE, Levy M, Mularski RA, Osborne ML, Prendergast TJ, Rocker G, Sibbald WJ, Wilfond B, Yankaskas JR, ATS End-of-Life Care Task Force. An official American Thoracic Society clinical policy statement: palliative



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- care for patients with respiratory diseases and critical illnesses. *Am J Respiratory Critical Care Med*, 2008; 177(8):912-927.
91. Levy MM, John Rapoport, Stan Lemeshow, Donald Chalfin, Gary Phillips, and Marion Danis. Association between Critical Care Physician Management and Patient Mortality in the Intensive Care Unit. *Ann Intern Med*, 2008; 148:801-809.
 92. Jaeschke R, Guyatt GH, Dellinger P, Schünemann, Levy MM, Kunz R, Norris S, Bion J. Use of GRADE grid to reach decisions on clinical practice guidelines when consensus is elusive. *BMJ*, 2008; 337; a744.
 93. Vincent J-L, Pinsky MR, Sprung CL, Levy M, Marini JJ, Payen D, Rhodes A, Takala J. The pulmonary artery catheter: In medio virtus. *Critical Care Med*, 2008; 36(11):3093-3096.
 94. Ferrer R, Artigas A, Levy M. Informed Consent and Studies of a Quality Improvement Program [Letter]. *JAMA*, 2008; 300(15):1762-1764.
 95. Rubolotta FM, Ramsay G, Parker MM, Dellinger RP, Levy MM, Poeze M. Surviving Sepsis Campaign Steering Committee – European Society of Intensive Care Medicine, Society of Critical Care Medicine. *Critical Care Med*, Jan 2009; 37(1):167-170.
 96. Levy MM, Rhodes A. The ongoing enigma of tight glucose control (comment). *Lancet* 14 Feb 2009; 373(9663):520-521.99.
 97. Levy MM. Making a difference. *Critical Care Med*, 2009; 37(5):1541-1544.
 98. Levy M. Promoting Global Research Excellence in Severe Sepsis (PROGRESS): Lessons from in International Sepsis Registry. April 28, 2009. *Infection* DOI 10.1007/s15010008- 8203-z. Published online,
 99. Rubulotta F, Marshall JC, Ramsay G, Nelson D, Levy M, Williams M. Predisposition, insult/infection, response, and organ dysfunction: A new model for staging severe sepsis. *Critical Care Med*, 2009; 37:1329-1335.
 100. Ferrer R, Artigas A, Suarez D, Palencia E, Levy MM, Arenzana A, Pérez XL, and Sirvent J-M, for the Edusepsis Study Group. Effectiveness of Treatments for Severe Sepsis: A Prospective, Multicenter, Observational Study. *Am J Respiratory Critical Care Med*, 2009; (180):861-866.
 101. Brian Casserly, Richard Read, Mitchell M. Levy. Hemodynamic Monitoring in Sepsis. In: *Critical Care Clinics, Sepsis*, (Guest Editor: R. Phillip Dellinger MD, Consulting Editor: Richard W Carlson MD PhD), WB Saunders Company, October 2009; 25(4):803823.
 102. InFACT Global H1N1 Collaboration. InFACT: a global critical care research response to H1N1. *Lancet*, 2010 Jan 2; 375(9708):11-3. Epub 2009 Nov 10.
 103. Hammer B, Mathers J, Curtis JR, Levy MM. An open letter to President Obama on health care reform. *Am J Critical Care*, 2009 Nov; 18(6):512-513.
 104. Levy MM. Facilitating knowledge transfer with single-center trials. *Critical Care Med*, 2009 Dec; 37(12):3120-3123.
 105. Levy MM, Dellinger P, Townsend S, Linde-Zwirble W, Marshall J, Bion J, Schorr C, Artigas A, Ramsay G, Beale R, Parker MM, Gerlach H, Reinhart K, Silva E, Harvey M, Regan S, Angus DC, on behalf of the Surviving Sepsis Campaign. The Surviving Sepsis Campaign: results of an international guideline-based performance improvement program targeting severe sepsis. Co-published: *Intensive Care Med*, 2010 Feb; 36(2):222- 231 and *Critical Care Med*, 2010 Feb; 38(2):367-374.

106. Marshall JC, Dellinger RP, Levy M. The Surviving Sepsis Campaign: a history and perspective (Journal Article, Review) *Surgical Infections*, 2010 June; 11(3):275- 281.
107. R Beale, JM Janes, FH Brunkhorst, G Dobb G, Mitchell M Levy, GS Martin, G Ramsay, E Silva, CL Sprung, B Vallet, J- L Vincent, TM Costigan, AG Leishman, MD Williams, K Reinhart. Global utilization of low-dose corticosteroids in severe sepsis and septic shock: a report from the PROGRESS registry. *Critical Care*, 2010; 14: R102doi:10.1186/cc9044.
108. Suarez D, Ferrer R, Artigas A, Azkarate I, Garnacho-Montero J, Gomà, Levy MM, Ruis JC, For the Edusepsis Study Group. Cost-effectiveness of the Surviving Sepsis Campaign protocol for severe sepsis: a prospective nation-wide study in Spain. *Int Care Med*, DOI 10.1007/s00134-010-2102-3, published online 09 December 2010.
109. J. Randall Curtis MD MPH, Mitchell M. Levy MD. Improving the Science and Politics of Quality Improvement (Editorial). *JAMA*, January 26, 2011; 305(4):406-407.
110. Brian Casserly, Michael Baram, Patricia Walsh, Andrew Sucov, Nicholas Ward, Mitchell Levy. Implementing a Collaborative Protocol in a Sepsis Intervention Program: Lessons Learned. *Lung*, February 2011; 189(1):11-19.
111. Brian Casserly MD, Richard Read MD, Mitchell M Levy MD. Hemodynamic Monitoring in Sepsis. *Critical Care Nursing Clinics of North America* (Guest Editor: R. Phillip Dellinger MD MSc; Consulting Editor: Janet Foster PhD RN CNS) WB Saunders Company, March 2011; 23(1):149-169.
112. Andrew T Levinson MD MPH, Brian P Casserly MD, Mitchell M Levy MD. Reducing Mortality in Severe Sepsis and Septic Shock. *Semin Respiratory Critical Care Med*, 2011; 32:195-205.
113. Rachel Kohn, Gordon D. Rubinfeld, Mitchell M. Levy, Peter A. Ubel, Scott D. Halpern. Rule of rescue or the good of the many? An analysis of physicians' and nurses' preferences for allocating ICU beds. *Intensive Care Med*, July 2011; 37(7):1210-1217.
114. Lawrence A. Ho MD, Ruth A. Engelberg PhD, J. Randall Curtis MD MPH, Judith Nelson MD JD, John Luce MD, Daniel E. Ray MD, Mitchell M. Levy MD. Comparing clinician ratings of the quality of palliative care in the intensive care unit. *Critical Care Med*, 2011; 39(5):975-983.
115. Mitchell M. Levy MD. Triage decision making for the elderly: Doing the right thing (Editorial). *Critical Care Med*, 2012; 40(1):323- 324.
116. Martin D. Black MD, Christa Schorr RN MSN, Mitchell M. Levy MD. Knowledge translation and the multifaceted intervention in the intensive care unit. *Critical Care Med*, 2012; 40(4):1324-1328.
117. Brian Casserly MD, Herwig Gerlach MD PhD, Gary S Phillips MAS, John C. Marshall MD, Stanley Lemeshow PhD, Mitchell M. Levy MD. Evaluating the use of recombinant human activated protein C in adult severe sepsis: Results of the Surviving Sepsis Campaign. *Critical Care Med*, 2012; (40) 5:1417-1416
118. Mitchell M Levy, Antonio Artigas, Gary S Phillips, Andrew Rhodes, Richard Beale, Tiffany Osborn, Jean-Louis Vincent, Sean Townsend, Stanley Lemeshow, R Phillip Dellinger. Outcomes of the Surviving Sepsis Campaign in intensive care units in the USA and Europe: a prospective cohort study. *Lancet Infectious Dis*, 2012; 12:919-924.
119. R Phillip Dellinger MD, Mitchell M Levy MD, Andrew Rhodes MD BS, Djillali Annane MD, Herwig Gerlach MD PhD, Steven M Opal MD, Jonathan E Sevransky MD, Charles L Sprung MD,



The Intensive Connection



- Ivor S Douglas MD, Roman Jaeschke MD, Tiffany M Osborn MD MPH, Mark E Nunnally MD, Sean R Townsend MD, Konrad Reinhart MD, Ruth M Kleinpell PhD RN-CS, Derek C Angus MD MPH, Clifford S Deutschman MD MS, Flavia R Machado MD PhD, Gordon D Rubenfeld MD, Steven A Webb MB BS PhD, Richard J Beale MB BS, Jean- Louis Vincent MD PhD, Rui Moreno MD PhD, and the Surviving Sepsis Campaign Guidelines Committee including the Pediatric Subgroup. Surviving Sepsis Campaign: International Guidelines for Management of Severe Sepsis and Septic Shock: 2012. *Crit Care Med*, 2013; 41:580- 637 (Special Article).
120. Tonelli MR. Curtis JR. Guntupalli KK. Rubenfeld GD. Arroliga AC. Brochard L. Douglas IS. Gutterman DD. Hall JR. Kavanaugh BP. Mancebo J. Misak CJ. Simpson SQ. Slutsky AS. Suffredini AF. Thompson BT. Ware LB. Wheeler AP. Levy MM. ACCP/ATS/SCCM Working Group. An official multi-society statement: the role of clinical research results in the practice of critical care medicine. *Am J Respiratory & Critical Care Med*, May 15, 2012; 185(10):1117-1124.
121. Ana Diaz-Martin, Maria L Martinez- Gonzalez, Ricard Ferrer, Carlos Ortiz Leyba, Enrique Piacentini, Maria J Lopez Pueyo, Ignacio Martin-Loeches, Mitchell M Levy, Antoni Artigas, Jose Garnacho Montero and Edusepsis Study group. Antibiotic prescription patterns in the empiric therapy of severe sepsis: combination of antimicrobials with different mechanisms of action reduces mortality. *Critical Care*, November 18, 2012; 16: R223.
122. Casserly B. Gerlach H. Phillips GS. Lemeshow S. Marshall JC. Osborn TM Levy MM. Low-dose steroids in adult septic shock: results of the Surviving Sepsis Campaign. *Intensive Care Med*, 2012 December; 38(12):1946-1954.
123. Levy, Mitchell M. Authors Response. *Critical Care (London, England)*. 17(6):472,2013. [Comment. Letter] UI: 25320756.
124. Kalpalatha Guntupalli, Nathan Dean, Peter E. Morris, Venkata Bandi, Benjamin Margolis, Emanuel Rivers, Mitchell Levy, Robert F. Lodato, Preeti M. Ismail, Amber Reese, John P. Schaumberg, Rajesh Malik, R. Phillip Dellinger, for the TLF LF-0801 Investigator Group. A Phase 2 Randomized, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of Talactoferrin in Patients with Severe Sepsis. *Critical Care Med*, 2013; 41:706-716.
125. Dellinger, RP. Levy, Mitchell M. Rhodes, Andrew, Annane, Djillali. Gerlach, Herwig. Opal, Steven. Sevransky, Jonathan E. Sprung, Charles L. Douglas, Ivor S. Jaeschke, Roman. Osborn, Tiffany M. Nunnally, Mark E. Townsend, Sean R. Reinhart, Konrad. Kleinpell, Ruth M. Angus, Derek C. Deutschman, Clifford S. Machado, Flavia R. Rubenfeld, Gordon D. Webb, Steven. Beale, Richard J. Vincent, Jean- Louis. Moreno, Rui. Surviving Sepsis Campaign Guidelines Committee including The Pediatric Subgroup. Surviving Sepsis Campaign: International guidelines for management of severe sepsis and septic shock, 2012. *Intensive Care Medicine*, February 2013; 39 (2): 165-228 [Journal Article. Practice Guideline].
126. Casserly B., Dennis McCool F., Sethi JM, Kawar E, Read R., Levy MM. A method for determining optimal mean airway pressure in high-frequency oscillatory ventilation. *Lung*, February 2013; 191(1):69-76.
127. Martin-Loeches I. de Haro C. Dellinger RP. Ferrer P. Phillips GS, Levy MM. Artigas A. Effectiveness of an inspiratory pressure- limited approach to mechanical ventilation in septic patients. *European Respiratory Journal*, January 2013; 41:157-164.
128. Mitchell M Levy MD. Rationing: It Is Time for the Conversation (Editorial). *Critical Care Med*, Jun 2013; 41(6):1583-1584.

129. Mitchell M. Levy MD. The SSC Improvement Initiative: 2012 Revised Sepsis Bundles (presented at 42nd Critical Care Congress); Critical Connections. Critical Care Congress Review, June/July Vol 12, Number 3, June/July 2013.
130. Martin D. Black; Margaret C. Vigorito; J. Randall Curtis; Gary S. Phillips; Edward W. Martin; Lynn McNicoll; Therese Rochon; Susan Ross; Mitchell M. Levy. A Multifaceted Intervention to Improve Compliance with Process Measures for ICU Clinician Communication with ICU Patients and Families. Critical Care Med, 2013; 41:2275- 2283.
131. Charles L. Sprung, Marion Danis, Gaetano Iapichino, Antonio Artigas, Jozef Kesecioglu, Rui Moreno, Anne Lippert, J. Randall Curtis, Paula Meale, Simon L. Cohen, Mitchell M. Levy, Robert D. Truog. Triage of intensive care patients: identifying agreement and controversy. Intensive Care Med, DOI 10.1007/s00134-013-3033-6, published online: 08 August 2013.
132. Levy, Mitchell M. Intensivists at night: putting resources in the right place. Critical Care (London, England), 2013; 17 (5): 1008 [Journal Article]UI: 24120020.
133. Black, Martin D. Vigorito, Margaret C. Curtis, J Randall. Phillips, Gary S. Martin, Edward W. Mc Nicoll, Lynn. Rochon, Therese. Ross, Susan. Levy, Mitchell M. A multifaceted intervention to improve compliance with process measures for ICU Clinician communication with ICU patients and families. Critical Care Medicine, October 2013; 41 (10): 2275-83.
134. Sprung CL. Danis M. Iapichino G. Artigas A. Kesecioglu. J Moreno. R. Lippert. A. Curtis JR. Meale P. Cohen SL. Levy MM. Truog RD. Triage of intensive care patients; identifying agreement and controversy. Intensive Care Medicine, November 2013; 39 (11): 1916-24.
135. Mitchell M Levy MD. A new definition of ventilator-associated pneumonia: far from perfect, better than before. (Editorial). Annals of American Thoracic Society. 10 (6): 644-5 Dec 2013.
136. Mitchell M Levy MD, Daniel De Backer. Re-visiting visiting hours. (Editorial). Intensive Care Medicine, December 2013; 39 (12): 2223-5.
137. Levy, Mitchell M. Early Goal Directed Therapy: What do we do now? Critical Care (London, England), 2014; 18(6):705. [Comment. Journal Article] UI 25672439.
138. Bernard GR, Francois B, Mira JP, Vincent JL, Dellinger RP, Russell JA, Larosa SP, Laterre PF, Levy MM, Dankner W, Schmitt N, Lindemann J, Wittebole X. Evaluating the efficacy and safety of two doses of the polyclonal anti-tumor necrosis factor-alpha fragment antibody AZD9773 in adult patients with severe sepsis and/or septic shock: randomized, double-blind, placebo-controlled Phase II study. Critical Care Medicine, March 2014; 42 (3):504-11.
139. Mitchell M Levy MD, Randall J Curtis. Our responsibility for training physicians to understand the effect patient death has on them: the role of the intensivist. (Comment. Editorial). Chest, May 2014; 145 (5): 932-4.
140. Arabi, Yaseen. Alamry, Ahmad. Levy, Mitchell M. Taher, Saadi. Marini, Abdellatif. Improving the care of sepsis: Between system redesign and professional responsibility: A roundtable in the world sepsis day, September 25, 2013. Riyadh, Saudi Arabia. Annals of Thoracic Medicine, July 2014; 9(3):134-7.
141. Ferrer, Ricard. Martin-Loeches, Ignacio. Phillips, Gar. Osborn, Tiffany M. Townsend, Sean. Dellinger, R Phillip. Artigas, Antonio. Schorr, Christa. Levy, Mitchell M. Empiric antibiotic treatment reduces mortality in severe sepsis and septic shock from the first hour: results from



The Intensive Connection



- a guideline-based performance improvement program. *Critical Care Medicine*, August 2014; 42 (8):1749-55. [Journal Article. Research Support, Non-U.S. Gov't] UI: 24670937.
142. Van Zanten, Arthur R H. Brinkman, Sylvia. Arbous, M Sesmu. Abu-Hanna, Ameen. Levy, Mitchell M. de Keizer, Nicolette F, Netherlands Patient Safety Agency Sepsis Expert Group. Guideline bundles adherence and mortality severe sepsis and septic shock *Critical Care Medicine*, August 2014; 42 (8): 1890-8. [Journal Article. Research Support, Non- US Gov't] UI: 24670937.
143. Osborn, Tiffany M. Phillips, Gary. Lemeshow, Stanley. Townsend, Sean. Schorr, Christa. Levy, Mitchell M. Dellinger, Phillip. Sepsis severity score: an internationally derived scoring system from the surviving sepsis campaign database. *Critical Care Medicine*, September 2014; 42 (9): 1969-76. [Journal Article. Research Support, Non-U.S. Gov't] UI: 24919160.
144. Levy MM, Rhodes A; Phillips GS; Townsend SR; Schorr CA; Beale R; Osborn T; Lemeshow S; Chiche JD; Artigas A; Dellinger RP. Surviving Sepsis Campaign: association between performance metrics and outcomes in a 7.5-year study. *Intensive Care Medicine*, November 2014; 0(11):162333. [Journal Article. Research Support, Non-U.S. Gov't].
145. Levy MM; Phillips G; Schorr C. The Authors Reply. *Critical Care Medicine*, December 2014; 42(12):e802-3. [Comment. Letter. Research Support, N.I.H., Extramural. Research Support, Non-U.S. Gov't] UI: 25465907.
146. Mitchell M. Levy, Phillip Rhodes, Sean Townsend, Christa Schorr, Osborn Beale, Chiche Lemeshow, A. Artigas, Phil Dellinger. Surviving Sepsis Campaign: Association between performance metrics and outcomes in a 7.5-year study. *Critical Care Med*, January 2015; 43(1):3-12.
147. Mitchell M. Levy, Gary Phillips, Christa Schorr. Adjusted Hospital Mortality Odds Ratio for Continuous Time to ABX Based on a GEE Population-Averaged Model Comparing Severe Sepsis to Septic Shock. *Society of Critical Care Medicine and Lippincott*, January 2015.
148. Chu, David C; Abu-Samra, Abdel Ghanie; Baird, Grayson, Grayson L; Devers, Cynthia; Sweeney, Joseph; Levy, Mitchell M; Muratore, Christopher S; Ventetuolo, Corey E. Quantitative measurement of heparin in comparison with conventional anticoagulation monitoring and the risk of thrombotic events in adults on extracorporeal membrane oxygenation. *Intensive Care Medicine*, February 2015; 41(2);369-370.
149. Brian Casserly, Gary S. Phillips, Christa Schorr, R. Phillip Dellinger, Sean R. Townsend, Tiffany Osborn, Konrad Reinhart, Narendran Selvakumar, Mitchell M. Levy. Lactate Measurements in Sepsis Induced Tissue Hypoperfusion: Results from the Surviving Sepsis Campaign Database. *Critical Care Medicine*, March 2015; 43(3):567-573.
150. Ignacio Martin-Loeches, Mitchell M Levy, Antonio Artigas. Management of Severe Sepsis: Advances, Challenges, and Current Status. *Dovepress Journal: Drug Design, Development and Therapy*, 2015; 9: 2079-2088.
151. Jean-Louis Vincent, John C Marshall, R. Phillip Dellinger, Setven Simonson, R. Kalpalatha Guntupalli, Mitchell M Levy, Mervyn Singer, Rajesh Malik. Talactoferrin Severe Sepsis: Results From the Phase II/III Oral Talactoferrin in Severe Sepsis Trial. *Critical Care Medicine*, September 2015; (43)9:1832-1838.
152. Mitchell M Levy. Early Goal Directed Therapy; Sorting Through the Confusion. *Lung*, (India) Sep-Oct 2015; 32(5).

153. Singer M, Deutschman CS, Seymour CW, Shankar-Hari M, Annane D, Bauer M, Bellomo R, Bernard GR, Chiche JD, Coopersmith CM, Hotchkiss RS, Levy MM, Marshall JC, Martin GS, Opal SM, Rubenfeld GD, van der Poll T, Vincent JL, Angus DC. The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). *JAMA*, 2016 February 23; 315(8):801-10.
154. Shankar-Hari M, Phillips GS, Levy ML, Seymour CW, Liu VX, Deutschman CS, Angus DC, Rubenfeld GD, Singer M; Sepsis Definitions Task Force. Developing a New Definition and Assessing New Clinical Criteria for Septic Shock: For the Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). *JAMA*, 2016 February 23; 315(8):775-87.
155. Casserly B, McCool FD, Saunders J, Selvakumar N, Levy MM. End-Expiratory Volume and Oxygenation: Targeting PEEP in ARDS Patients. *Lung*, 2016 February; 194(1):35-41.
156. O'Mahony S, Gerhart JI, Grosse J, Abrams I, Levy MM. Post-traumatic stress symptoms in palliative care professionals seeking mindfulness training: Prevalence and vulnerability. *Palliative Med*, 2016 February; 30(2):189-92.
157. Casserly B, Levy MM. The authors reply. *Critical Care Med*, 2016 March; 44(3):e178-9.
158. Seymour CW, Coopersmith CM, Deutschman CS, Gesten F, Klompas M, Levy M, Martin GS, Osborn TM, Rhee C, Warren DK, Watson RS, Angus DC. Application of a Framework to Assess the Usefulness of Alternative Sepsis Criteria. *Critical Care Med*, 2016 March; 44(3):e122-30.
159. Angus DC, Seymour CW, Coopersmith CM, Deutschman CS, Klompas M, Levy MM, Martin GS, Osborn TM, Rhee C, Watson RS. A Framework for the Development and Interpretation of Different Sepsis Definitions and Clinical Criteria. *Critical Care Med*, 2016 March; 44(3):e113-21.
160. Artigas A, Wernerman J, Arroyo V, Vincent JL, Levy M. Role of albumin in diseases associated with severe systemic inflammation: Pathophysiologic and clinical evidence in sepsis and in decompensated cirrhosis. *J Critical Care*, 2016 June; 33:62-70.
161. Levy MM. Clarifying Sepsis Management. *Am J Respiratory Critical Care Med*, June 1, 2016; 193(11):1195-6.
162. Vincent JL, Martin GS, Levy MM. qSOFA does not replace SIRS in the definition of sepsis. *Critical Care*, July 17, 2016; 20(1):210.
163. Kaur A, Levy MM. Role of sepsis in delayed mortality. *Ann Transl Med*, October 2016; 4(19):378.
164. Machado FR, Levy MM, Rhodes A. Fixed minimum volume resuscitation: Pro. *Intensive Care Med*, October 31, 2016; [Epub ahead of print] No abstract available.
165. Schorr C, Odden A, Evans L, Escobar GJ, Gandhi S, Townsend S, Levy M. Implementation of a multicenter performance improvement program for early detection and treatment of severe sepsis in general medical-surgical wards. *J Hosp Med*, November 11, 2016; Suppl 1:S32-S39.
166. Martínez ML, Ferrer R, Torrents E, Guillaumat-Prats R, Gomà G, Suárez D, Álvarez-Rocha L, Pozo Laderas JC, MartínLoeches I, Levy MM, Artigas A; Edusepsis Study Group. Impact of Source Control in Patients with Severe Sepsis and Septic Shock. *Critical Care Med*, January 2017; 45(1):1119.
167. Davidson JE, Aslakson RA, Long AC, Puntillo KA, Kross EK, Hart J, Cox CE, Wunsch H, Wickline MA, Nunnally ME, Netzer G, Kentish-Barnes N, Sprung CL, Hartog CS, Coombs M, Gerritsen RT, Hopkins RO, Franck LS, Skrobik Y, Kon AA, Scruth EA, Harvey MA, Lewis-Newby M, White DB,



The Intensive Connection



- Swoboda SM, Cooke CR, Levy MM, Azoulay E, Curtis JR. Guidelines for Family-Centered Care in the Neonatal, Pediatric, and Adult ICU. *Critical Care Med*, January 2017; 45(1):103-128.
168. Newton DH, Monreal Bosch M, Amendola M, Wolfe L, Perez Ductor C, Lecumberri R, Levy MM. Analysis of noncatherter-associated upper extremity deep venous thrombosis from the RIETE registry. *Journal of Vascular Surgery*, January 2017; 5(1):18-24.e1.
169. Rhodes A, Evans LE, Alhazzani W, Levy MM, Antonelli M, Ferrer R, Kumar A, Sevransky JE, Sprung CL, Nunnally ME, Rochweg B, Rubenfeld GD, Angus DC, Annane D, Beale RJ, Bellingham GJ, Bernard GR, Chiche JD, Coopersmith C, De Backer DP, French CJ, Fujishima S, Gerlach H, Hidalgo JL, Hollenberg SM, Jones AE, Karnad DR, Kleinpell RM, Koh Y, Lisboa TC, Machado FR, Marini JJ, Marshall JC, Mazuski JE, McIntyre LA, McLean AS, Mehta S, Moreno RP, Myburgh J, Navalesi P, Nishida O, Osborn TM, Perner A, Plunkett CM, Ranieri M, Schorr CA, Seckel MA, Seymour CW, Shieh L, Shukri KA, Simpson SQ, Singer M, Thompson BT, Townsend SR, Van der Poll T, Vincent JL, Wiersinga WJ, Zimmerman JL, Dellinger RP. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. *Intensive Care Med*, March 2017; 43(3):304-377.
170. Dellinger RP, Schorr CA, Levy MM. A users' guide to the 2016 Surviving Sepsis Guidelines. *Intensive Care Med*, March 2017; 43(3):299-303.
171. Dellinger RP, Schorr CA, Levy MM. A Users' Guide to the 2016 Surviving Sepsis Guidelines. *Critical Care Med*, March 2017; 45(3):381-385.
172. Rhodes A, Evans LE, Alhazzani W, Levy MM, Antonelli M, Ferrer R, Kumar A, Sevransky JE, Sprung CL, Nunnally ME, Rochweg B, Rubenfeld GD, Angus DC, Annane D, Beale RJ, Bellingham GJ, Bernard GR, Chiche JD, Coopersmith C, De Backer DP, French CJ, Fujishima S, Gerlach H, Hidalgo JL, Hollenberg SM, Jones AE, Karnad DR, Kleinpell RM, Koh Y, Lisboa TC, Machado FR, Marini JJ, Marshall JC, Mazuski JE, McIntyre LA, McLean AS, Mehta S, Moreno RP, Myburgh J, Navalesi P, Nishida O, Osborn TM, Perner A, Plunkett CM, Ranieri M, Schorr CA, Seckel MA, Seymour CW, Shieh L, Shukri KA, Simpson SQ, Singer M, Thompson BT, Townsend SR, Van der Poll T, Vincent JL, Wiersinga WJ, Zimmerman JL, Dellinger RP. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. *Critical Care Med*, March 2017; 45(3):486-552.
173. Rothman M, Levy M, Dellinger RP, Jones SL, Fogerty RL, Voelker KG, Gross B, Marchetti A, Beals J 4th. Sepsis as 2 problems: Identifying sepsis at admission and predicting onset in the hospital using an electronic medical record-based acuity score. *J Critical Care*, April 2017; 38:237-244.
174. Levy, M. Antibiotics in Sepsis: The New Frontier*. *Critical Care Med*, 2017 May; 45(5):e907-908.
175. Corl, KA et al. Inferior vena cava collapsibility detects fluid responsiveness among spontaneously breathing critically-ill patients. *Journal of Critical Care*, 2017 May; (41)130-137.
176. Simmons J, Ventetuolo CE. Edited by Levy MM. Cardiopulmonary monitoring of shock. *Current Opinion in Critical Care*, 2017 June; 23(3):223-231.
177. Postelnicu R, Evans L. Edited by Levy MM. Monitoring of the physical exam in sepsis. 2017 June; 23(3):232-236.
178. Seymour CW et al. Time to Treatment and Mortality during Mandated Emergency Care for Sepsis. *New England Journal of Medicine*, 2017 June; 376(23):2235-2244.

179. Berger RE, Rivers E, Levy MM. Management of Septic Shock. *New England Journal of Medicine*, June 2017; 376(23):2282-2285.
180. O'Mahony S, Gerhart J, Abrams I, Greene M, McFadden R, Tamizuddin S, Levy MM. A Multimodal Mindfulness Training to Address Mental Health Symptoms in Providers Who Care for an Interact With Children in Relation to End-of-Life Care. *Am Journal of Hospice & Palliative Medicine*, November 2017; 34(9):838-843.
181. Machado FR, Levy MM, Rhodes A. Fixed minimum volume resuscitation: Pro. *Intensive Care Medicine*, November 2017; 43(11):1678-1680.
182. Bloos F, Ruddle H, Thomas-Ruddle D, Schwarzkopf D, Pausch C, Harbarth S, Schreiber T, Grundling M, Marshall J, Simon P, Levy MM, Weiss M, Weyland A, Gerlach H, Schurholz T, Engel C, Matthaus-Kramer C, Scheer C, Bach F, Riessen R, Poidinger B, Dey K, Weiler N, Meier-Hellmann A, Haberie HH, Wobker G, Kaisers UX, Reinhart K, MEDUSA study group. Effect of a multifaceted educational intervention for anti-infectious measures on sepsis mortality: a cluster randomized trial. *Intensive Care Medicine*, November 2017; 43(11):1602-1672.
183. Raman V, Fuentes Lorenzo JL, Stashenko EE, Levy M, Levy MM, Camarillo IG. Lippia organoides extract induces cell cycle arrest and apoptosis and suppresses NF-kappaB signaling in triple-negative breast cancer cells. *International Journal of Oncology*, December 2017; 51(6):1801-1808.
184. Corl KA, Dado C, Agarwal A, Azab N, Amass T, Marks SJ, Levy MM, Merchant RC, Aliotta J. A modified Montpellier protocol for intubating intensive care unit patients is associated with an increase in first-pass intubation success and fewer complications. *Journal of Critical Care*, April 2018; 44:191-195.
185. Phillips GS, Osborn TM, Terry KM, Gesten F, Levy MM, Lemeshow S. The New York Sepsis Severity Score: Development of a Risk-Adjusted Severity Model for Sepsis. *Critical Care Medicine*, May 2018; 46(5):674-683.
186. Prescott HC, Cope TM, Gesten FC, Ledneva TA, Friedrich ME, Iwashyna TJ, Osborn TM, Seymour CW, Levy MM. Reporting of Sepsis Cases for Performance Measurement Versus for Reimbursement in New York State. *Critical Care Medicine*, May 2018; 46(5):666-673.
187. Levy M, Evans L, Rhodes A. The Surviving Sepsis Campaign Bundle: 2018 Update. *Critical Care Medicine*, June 2018; 46(6):997-1000.
188. Cecconi M, Evans L, Levy M, Rhodes, A. Sepsis and septic shock. *Lancet*, June 2018; dx.doi.org/10.1016/S0140-6736(18)30696-2.

BOOKS AND BOOK CHAPTERS

1. Levy MM, Hill NS (Eds.) *Ventilator Strategies in Critical Care*, MarcelDekker Inc, 199.
2. Ward NS, Levy MM. Pulmonary oxygen toxicity in man: emerging concepts in pathogenesis and prevention. In: 2000 Yearbook of Intensive Care and Emergency Medicine. Vincent J-L (ed), Springer, 2000.
3. Levy MM. Pulmonary Oxygen Toxicity in Man: Emerging Concepts in Pathogenesis and Prevention. In: 2000 Yearbook of Intensive Care Medicine (ed. J-L Vincent), Springer-Verlag 2000.



The Intensive Connection



4. Nicholas Hill and Mitchell Levy, editors. Ventilator Management Strategies for Critical Care, Marcel Dekker Inc. Chapter: B Kimble and M Levy. Closed Loop Mechanical Ventilation, p. 233-241, 2001.
5. Ward NS and Levy MM. Clinical information systems in the ICU. In: 2001 Yearbook of Intensive Care and Emergency Medicine (ed. J-L Vincent). Springer – Verlag 2001.
6. Levy MM. Book Chapter: Making a Personal Relationship with Death. In: Managing Death in the Intensive Care Unit: The Transition from Cure to Comfort (ed. JR Curtis and GD Rubenfeld), Oxford University Press, 2001.
7. Ward NS, Levy MM. Book Chapter: Clinical Systems in the ICU, p. 685-694. In: 2001 Yearbook of Intensive Care and Emergency Medicine, (J-L Vincent, ed.), Springer-Verlag 2001.
8. Levy MM. Titrating Optimal PEEP at the Bedside: Where are we now? In: 2001 Yearbook of Intensive Care and Emergency Medicine, March 2002.
9. Levy MM. Book Chapter: Patient 56: An 83-year-old woman with acute respiratory failure and a do-not-intubate status whose daughter requests non-invasive ventilation, p. 177-179. In: End-of-Life Pearls (I Bayock and J Heffernan, eds.), Hanley & Belfus, Philadelphia, 2002.
10. Levy MM. Book Chapter: Caregiver burden in the ICU. In: 2002 Yearbook of Intensive Care and Emergency Medicine (JH-L Vincent, ed.), Springer-Verlag 2002.
11. Levy MM. Treatment of a “Classic” Intensive Care Patient, p. 153-161. In: Three Patients – International Perspective on Intensive Care at the End-of-Life (D Crippen, J Kilcullen, D Kelly eds.), Kluwer Academic Publishers 2002.
12. Levy MM. The Burden of Caregiving on Families of ICU Survivors, p. 64-71. In: Surviving Intensive Care (D Angus, J Carlet, eds.), Springer-Verlag 2003.
13. Bledsoe TA, Levy MM. Chapter: Ethical Issues in the Intensive Care Unit. In: Textbook of Critical Care, Fifth Edition, Elsevier Saunders, Chapter 253:2159-2162, 2005.
14. Ward NS, Levy MM. Chapter: End-of-Life Issues in the Intensive Care Unit. In: Textbook of Critical Care, Fifth Edition, Elsevier Saunders, Chapter 255:2169-2172, 2005.
15. Ramsay G, Rubulotta F, Levy MM. The Practical Guide to Medical Ethics and Law, Second Edition (ed C-M Baxter, M Brennan, Y Coldicott, M Möller). Pastest Ltd, Chapter 6, Ethics and Law in Practice, Case 3:276-283, 2005.
16. Levy MM. Rationing in the ICU: Fear, Fiction and Fact. In: Update in Intensive Care and Emergency Medicine – Intensive Care Medicine in 10 Years, (Fink MP, Suter PM, Sibbald WJ, Editors) Springer-Verlag, pp. 363-374, 2006.
17. Bille J, Bringer M-A, Brun-Buisson C, Jaton K, Kumar A, Levy MM, Masur H, Opal S, Orenstein A, Palencia E, Prod’hom G, Reinhart K, Sakr Y, Sansonetti P, Schorr C, Van der Poll T, Vincent J-L, Wunderlink R. Sepsis Handbook: Early Diagnosis of Sepsis: Special ISF Preview Version (P Dellinger and J Carlet, Editors), Coordination Philippe Thevenot, Editions Biomerieux, Sep 2007.
18. Powrie RO, Levy MM. Acute Lung Injury and Acute Respiratory Distress Syndrome. In: Medical Care of the Pregnant Patient, Second Edition (K. Rosene-Montella, E Keely, L Barbour, R Lee, Editors; Women’s Health Series Editor: P Charney). ACP Press, Section VI.
19. Mitchell M. Levy MD, Guest Editor. Biomarkers in the Critically Ill Patient in Critical Care Clinics. WB Saunders Company, Vol 27(2), April 2011.



20. Allison S. Friedenber MD, Mitchell M. Levy MD FCCM FCCP, J Randall Curtis MD MPH. The Family Meeting in the ICU in Principles and Practice of Hospital Medicine, Section 3: Critical Care. McGraw-Hill Companies, 2012, 1119-1125. OTHER NON-PEER REVIEWED PUBLICATIONS.
21. Prowess: Evaluation of Drotrecogin alfa (activated) in Severe Sepsis – North American and European trial. Site investigator. Sponsor: Eli Lilly and Company. Results published in New England Journal of Medicine, Feb 2001.
22. Evaluation of Heparin and Drotrecogin alfa (activated) in Severe Sepsis. North American principal investigator. Sponsor: Eli Lilly and Company. Planned enrollment: 2,000 patients in 200 centers. Trial started North American and Europe, November 2003.
23. Epo II: Evaluation of Epopoietin in Critically Ill Patients for Reduction in Transfusion Requirements. Protocol development and writing committee. Sponsor: Ortho Biotech Products LP. Published. JAMA, 2003.

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.
2. Levy MM, Montaya M, Bransford E. Work of breathing in flow-triggers and pressure-triggered ventilators: Variations based on location of trigger sensing. Clinical Intensive Care 1994; 4:4 (supp.).
3. Yu M, Meyers S, Takaguchi S, Levy MM. A prospective controlled Lima C, Levy MM. The impact of an onsite intensivist on patient charges and length of stay in the Medical Intensive Care Unit. Critical Care Med 1995; 23(1): A238 (supp.).
4. Levy MM, Omizo R, Johnson K. Incidence of prolonged paralysis with neuromuscular blocking agents. Clinical Intensive Care, 1995; 5:5.
5. Levy MM, Sakai D, Klinger JR. Pulmonary capillary pressure in sepsis and cardiogenic shock. American Journal Respiratory Critical Care Med, 1996; 153(4):A600.
6. Mehta S, Short K, Schwartz W, Nelson D, Levy MM, Hill NS, Simms H, Klinger JR. A controlled trail of inhaled NO inpatients with the acute respiratory distress syndrome (ARDS). American Journal Respiratory Critical Care Med, 1996; 153(4): A591.
7. Levy MM, Miyasaki A. Evaluating Work of Breathing Measurements in Weaning. Chest, May 1996; 109(5):1409.
8. Levy MM, Gabriel S. Bedside estimation of work of breathing. Critical Care Med, 1996; 24(1):109.
9. Mehta S, Nelson D, Klinger JR, Buzco G, Levy MM. Evaluation of pre-extubation work of breathing on T-piece vs. pressure support. American Journal Respiratory Critical Care Med, 1997; 155(4):A510.
10. Levy MM, Simms H, Cioffi W, Schwartz W, Klinger JR. High frequency percussive ventilation in ARDS. Critical Care Med, 1997; 25(1):A205.
11. Mehta S, Nelson D, Buczko G, Levy MM. The effect of endotracheal tube size on respiratory frequency. American Journal Respiratory Critical Care Med, 1998; 157(3):A224.



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12. 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. *American Journal Respiratory Critical Care Med* 1998; 157(3): A305.
13. 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. *American Journal Respiratory Critical Care Med*, 1998; 157(3):A678.
14. Haze D, Ross S, Gray G, Levy MM. Using ICU Clinical Information System to Monitor Protocol Utilization and Variance. *American Journal Respiratory Critical Care Med*, 2000; 161(3):A397.
15. Lin DY, Li DC, Houtchens JL, Nelson DL, Levy MM. Comparison Between Visual and Mathematical Determinations of Lower Inflection Point in Patients with ARDS. *American Journal Respiratory Critical Care Med*, 2000; 161(3):A487.
16. Levy MM, Ross S, Haze D, Gray G, Ward N. Using an ICU Clinical Information System to Evaluate End-of-Life Care. *Am J Respiratory Critical Care Med*, 2000; 161(3):A548.
17. Corwin HL, Abraham E, Fink M, Gettinger A, Levy MM, Macintyre N, Pearl R, Shabot M, Shapiro M. Anemia and Blood Transfusion in the Critically Ill: Current Clinical Practice in the U.S. – The Critical Study. *Supplement to Critical Care Med*, 2000; 219(12):A2.
18. Kimble B, Ward N, Nelson D, Levy MM. Determination of Lower Inflection Point and Maximal Compliance at Three Tidal Volumes in a Population of Patients with ARDS. *Supplement to Critical Care Med*, 2000; 219(12):A27.
19. Ho VM, Stozek MA, Levy MM. Factors Affecting Discussions of Advance Directives with Patients by Medical House Staff at Brown University Medical Residency Programs. *American Thoracic Society 98th International Conference*, May 2002, Atlanta, GA.
20. Levy MM. Early Response to Therapy Predicts Eventual Survival in Severe Sepsis, #273, p. S74. In: *Intensive Care Med*, ESICM 16th Annual Congress, Netherlands: Abstracts & oral presentations; September 2003; 9(1) Supp. 1.
21. Ryan M, Levy MM. Clinical review: fever in intensive care unit patients. *Critical Care*, 2003 June; 7(3):221-5. epub 2003 Mar 08. Review.
22. Baram M, Walsh P, Sucoy A, Levy MM. Early Goal Directed Therapy – Can We Make It Happen? *Am J Respiratory Critical Care Med (supplement: Abstracts 2004 International Conference)*, April 2004; 169(7):A37.
23. Lee CJ, Levy MM, Nelson DL, McCool FD. Determination of Tidal Volume in High Frequency Oscillatory Ventilation (HFOV): A Lung Model Study. *Am J Respiratory Critical Care Med (supplement: Abstracts 2004 International Conference)*, April 2004; 169(7):A347.
24. Ward NS, Levy MM, Teno JM. Role of the ICU in Care for Dying Patients: Transfers and Quality of End-of-Life Care. *Am J Respiratory Critical Care Med (supplement: Abstracts 2004 International Conference)* April 2004; 169(7):A624.
25. Stanchina ML, Kimble B, Ryan M, Nelson DL, Ward NS, Levy MM. Decremental Maximal Effective Compliance, Oxygenation or End -Expiratory Lung Volume Curves: Targeting PEEP in ARDS Patients. *Am J Respiratory Critical Care Med (supplement: Abstracts 2004 International Conference)* April 2004; 169(7):A720.



26. Chalfin D, Danis M, Rapoport J, Levy MM, Katz LM, Siegartel LR, Bergemann R, Stern LS, Doyle JJ. Recursive Partitioning & Amalgamation (RECPAM) to Predict ICU Survival and Length of Stay. *Critical Care Med*, December 2004; 32(12):96.
27. Friedenbergs MD AS, Lee MD MD, Levy MM MD, Mukpo D, Conray K. 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.
28. Lee MD MD, Ward NS MD, Teno JM MD MS, Badger JM PhD CS, O'Conner BB PhD, Ross SJ RN BSNC, Levy MM MD. Palliative Care Intervention for Intensive Care Unit. Poster Session C46 (Poster: B54), American Thoracic Society Annual Meeting, San Diego, CA, May 2005.
29. Ventetuolo C, Lee MD, Palmisciano A, Townsend S, Levy MM. Surviving SCHOLARLY WORK PUBLISHED IN OTHER MEDIA Sepsis: Assessing Clinical Practice. ATS 2006 San Diego International Conference (Submitted Oct 2005).
30. 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.
31. Levy M, Williams M, Mignini M, Wang D, Janes J. Safety Profile of Drotrecogin Alfa (Activated) and Low -Dose Heparin Co-administration in Severe Sepsis. 19th ESICM Annual Congress, Barcelonalljj, Spain, September 2006.
32. 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* October 2006; 130:149S.
33. 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 Published online: *Intensive Care Med*, 03 Dec 2014. Videotape: *Compassionate Care in the ICU – Creating a Human Environment* (professional and family versions: host) Produced by David's Productions Inc, Montville NJ, from an educational grant provided by OrhoBiotech, 2001.

INVITED PRESENTATIONS (2003-present)

1. Surviving Sepsis Campaign Initiative. January 2003. Amsterdam, Netherlands.
2. 32nd Congress Society of Critical Care Medicine. January 2003.
3. 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.



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5. Bi-monthly 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.
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, New Jersey Medical School/University Hospital. May 2003. New Jersey.
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 Medicine at the Bedside (Co-Chair). September 2003. Providence, RI.
18. 7th Conference of International Trauma, Anesthesia & Critical Care Society (Indian Chapter). September 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. 6th Annual Meeting Tuscany Critical Care Group. October 2003. Florence, Italy.
25. National Institutes of Health, National Heart, Lung and Blood Institute Working Group and Respiratory Failure from SARS. October 2003. Bethesda, MD.



26. Toronto Critical Care Medicine Symposium 2003. October – November 2003. Toronto, Canada.
27. Conference on Ethical Conduct of Clinical Research Involving Critically Ill Subjects. November 2003. Washington, DC.
28. VERICC Task Force Meeting. January 2004. Scottsdale, AZ.
29. 10th Annual Conference of the Indian Society of Critical Care Medicine. February 2004. Mumbai, India.
30. CNN Headline News, live interview: Surviving Sepsis & Guidelines. March 2004. Atlanta, GA.
31. 3rd Annual International Summit on Innovations in Critical Care Delivery: Managing Risk and Uncertainty. March 2004. Miami, FL.
32. 24th International Symposium on Intensive Care and Emergency Medicine. March – April 2004. Brussels, Belgium.
33. American Thoracic Society International Conference 2004 (Faculty). May 2004. Orlando, FL.
34. Brazilian Congress of Intensive Medicine (Faculty). June 2004. Curitiba, Brazil.
35. 2nd Asia Pacific Centre of Excellence on Critical Care Interventions. July – August 2004. Hyderabad, India.
36. “New Insights in Mechanical Ventilation” Symposium (sponsored by CHEST). August 2004. Monterey, CA.
37. Surviving Sepsis Campaign, “The Guidelines: Implementation for the Future. September 2004. Catania, Italy.
38. CHEST 2004 Annual Conference (Faculty). October 2004. Seattle, WA.
39. ESICM 17th Annual Congress. October 2004. Berlin, Germany.
40. 6th International Bioethics Conference, The St. Francis International Center for Healthcare Ethics. October 2004. Honolulu, HI.
41. Scottish Intensive Care Society Audit Group. November 2004. Scotland.
42. Northern Irish Intensive Care Group. November 2004. Belfast, Ireland.
43. Irish Intensive Care Society. November 2004. Limerick, Ireland.
44. SCCM 2005 Critical Care Congress (Faculty). January 2005. Phoenix, AZ.
45. Presbyterian Saint Luke’s Medical Center. Denver, CO. Penrose Hospital and Memorial Hospital, Timing of Treatment in High-Risk Severe Sepsis. January 2005. Colorado Springs, CO.
46. 10th International Symposium on Infections in the Critically Ill Patient, Porto. January 2005. Portugal.
47. Puerto Rico American College of Physicians Chapter Regional Meeting. February 17-19, 2005. San Juan, Puerto Rico.
48. 25th International Congress on Intensive Care & Emergency Medicine. March 2005. Brussels, Belgium.
49. 7th Annual Conference in Mechanical Ventilation: New Trends 2005 (Faculty). April 2005. Boston, MA.
50. Computers in the ICU Revisited: An Expert Roundtable (Faculty). April 2005. Chicago, IL.



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51. International Consensus Conference in Intensive Care Medicine 2005: Weaning from Mechanical Ventilation (Faculty). April – May 2005. Budapest, Hungary.
52. Ocean State Ethics Conference, Brown University. May 2005. Providence, RI.
53. American Thoracic Society 2005 International Conference. May 2005. San Diego, CA.
54. 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.
55. Comprehensive Care of the Hospitalized Patient 2005; sponsored by the University of Washington School of Medicine. June 2005. Seattle, WA.
56. Surviving Sepsis Campaign. June 2005. United Kingdom.
57. 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine. August 2005. Buenos Aires, Argentina.
58. 2nd International Meeting German Sepsis Society. September 2005. Weimar, Germany.
59. A Multidisciplinary Approach to Critical Care Medicine (Faculty). September 2005. New York, NY.
60. CHEST 2005, the 71st Annual International Scientific Assembly of the American College of Chest Physicians (Faculty). October – November 2005. Montreal, Canada.
61. Surviving Sepsis Workshop. November 3-5, 2005. San Juan, Puerto Rico.
62. SCCM End-of-Life Conference. February 2006. Miami, FL.
63. Lectures/Clinic Workshops (Edwards Lifesciences). February – March 2006. Beijing and Guangzhou, China.
64. Invited Jury Member, International Consensus Conference. April 2006. Paris, France.
65. Guang Dong Critical Care Medicine Conference (Faculty). May 2006. Guang Dong, China.
66. American Thoracic Society Annual Conference (Faculty and Session Chair). May 2006. San Diego, CA.
67. 14th Congress of Asia Pacific Association of Critical Care Medicine (Invited Speaker). August 2006. Beijing, China.
68. Tuscany Critical Care Group Annual Meeting (Invited Speaker). September 2006. Florence, Italy.
69. 19th Annual Congress of the European Society of Intensive Care Medicine (Invited Speaker). September 2006. Barcelona, Spain.
70. American College of Chest Physicians Annual Meeting, CHEST 2006 (Invited Speaker). October 2006. Salt Lake City, UT.
71. Implementing an Idealized Model for Critical Care, sponsored by IHI (Faculty). November 2006. San Diego, CA.
72. 33rd Annual Critical Care Symposium AACN. November 2006. Portland, OR.
73. 2nd Dutch Surviving Sepsis Campaign. December 2006. Ede, Netherlands.
74. Annual Conference of the American Society for Parenteral and Enteral Nutrition (Keynote Speaker). January 2007. Phoenix, AZ.
75. 5th Annual UCLA Update in Pulmonary and Critical Care Medicine. March 2007. Santa Monica, CA.



76. 7th World Congress on Trauma, Shock, Inflammation and Sepsis. March 2007. Munich, Germany.
77. 27th International Symposium on Intensive Care and Emergency Medicine (ISICEM). March 2007. Brussels, Belgium.
78. Grand Rounds Lecture, Women & Infants' Hospital: Sepsis 2007. April 2007. Providence, RI.
79. 9th Annual Conference on Mechanical Ventilation, New Trends. April 2007. Boston, MA.
80. American Thoracic Society 2007 International Conference. May 2007. San Francisco, CA.
81. Naropa University Center for Contemplative End-of-Life Care and Elder Care 5th Annual Conference, Integrating Spirit and Caregiving. May 2007. Boulder, CO.
82. Critical Care Grand Rounds, Mayo Clinic. August 2007. Rochester, MN.
83. Center for Excellence in Critical Care, Updated in Critical Care 2007, sponsored by University of Minnesota. September 2007. Minneapolis, MN.
84. Grand Rounds, Lenox Hill Hospital. September 21, 2007. New York, NY.
85. 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. September 28-29, 2007. Las Vegas, NV.
86. Tuscany Critical Care Group Annual Meeting. October 2007. Siena, Italy.
87. 20th ESICM (European Society Intensive Care Medicine) Annual Congress. October 2007. Berlin, Germany.
88. 37th Critical Care Congress, Society of Critical Care Medicine. February 2008. Honolulu, HI.
89. 14th Annual National Conference of Indian Society of Critical Care Medicine. February 2008. Bhopal, India.
90. 13th International Symposium on Infections in the Critically Ill Patient. February 2008. Athens, Greece.
91. 2008 Kern Visiting Professorship in Critical Care and Glen Duffie Memorial Lecture: Distinguished Visiting Professor. April 2008. Portland, OR.
92. ESICM-Sponsored Surviving Sepsis Campaign Planning Meeting at the International Consensus Conference. April 2008. Florence, Italy.
93. XIII Brazilian Congress of Intensive Care Medicine. May 2008. Salvador, Bahia, Brazil.
94. ATS 2008 International Conference (Invited Speaker). May 2008. Toronto, Canada.
95. 2008 Update in Critical Care: Implementing Bedside Practice (Conference Chair and Speaker). June 2008. Providence, RI.
96. Improving Outcomes for High-Risk and Critically Ill Patients, Institute for Healthcare Improvement. June 2008. Atlanta, GA.
97. Fifth International Sepsis Forum (Invited Speaker). June 2008. São Paulo, Brazil.
98. ESICM 21st Annual Congress (Invited Speaker). September 2008. Lisbon, Portugal.
99. Baltimore City Hospital and John Hopkins Bayview Medical Center Critical Care Symposium (Invited Speaker). September 2008. Baltimore, MD.
100. 3rd Annual Conference: Honoring & Caring for Veterans at the End-of-Life, VA New England Healthcare System. October 2008. Newington, CT.



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101. Criticare 2009, International Critical Care Congress & 15th Annual Conference of Indian Society of Critical Care Medicine. February 2009. Agra, India.
102. 3rd Congress of Critical Care Medicine of China. May 2009. Harbin, China.
103. 10th Congress of the World Federation of Societies of Intensive and Critical Care Medicine. August – September 2009. Florence, Italy.
104. 22nd Annual Congress European Society of Intensive Care Medicine. October 2009. Vienna, Austria.
105. Critical Care Canada Forums. October 2009. Toronto and Ontario, Canada.
106. ATS 2010 International Conference. May 2010. New Orleans, LA.
107. Safar Symposium Life and Death in the ICU: Ethical Treatment in 2010; Johns Hopkins. May 2010. Baltimore, MD.
108. HICPAC Meeting (CDC). June 2010. Atlanta, GA.
109. Expert Meeting and Workshop: HAI Prevention in Acute Care Hospitals. September 2010. Arlington, VA.
110. ARDS DSMB Meeting. September 2010. Bethesda, MD.
111. European Respiratory Society (ERS) Annual Congress 2010. September 2010. Barcelona, Spain.
112. European Society of Intensive Care Medicine (ESICM) 23rd Congress. October 2010. Barcelona, Spain.
113. CHEST 2010. October 30 – November 4, 2010. Vancouver, BC Canada.
114. Society of Critical Care Annual Congress. January 15-19, 2011. San Diego, CA.
115. 17th Annual Congress of the Indian Society of Critical Care Medicine & International Critical Care Congress 2011. February 16-21, 2011. Delhi, India.
116. Università degli Studi di Firenze, Dept. of Medical and Surgical Critical Care, Sepsis Presentation. April 29 – June 3, 2011. Florence, Italy.
117. American Thoracic Society 2011. May 13-18, 2011. Denver, CO.
118. National Quality Forum Measure Applications Partnership Ad Hoc Safety Workgroup Meeting. July 11-12, 2011. Washington, DC.
119. 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. September 19, 2011. Atlanta, GA.
120. 24th Annual Congress of the European Society of Intensive Care Medicine. October 1-5, 2011. Berlin, Germany.
121. Spanish Society of Intensive Care Medicine. November 2011. Barcelona, Spain.
122. 24th Congresso Nazionale della Società Italiana di Terapia Intensiva. November 2011. Florence, Italy.
123. 1st Annual Critical Care Surviving Sepsis Conference. December 10-11, 2011. New Delhi, India.
124. Patan Hospital, ICU Medicine and Evidence Based Medicine (Invited Speaker). December 13, 2011. Kathmandu, Nepal.



125. 17th International Symposium on Infections in the Critically Ill Patient. February 2-3, 2012. Barcelona, Spain.
126. SCCM 41st Critical Care Congress. February 4-7, 2012. Houston, TX.
127. Criticare India 2012 (ISCCM/Indian Society of Critical Care Medicine). February 15-19, 2012. Pune, India.
128. Guy's and St. Thomas Hospital: Patient Safety by Groups and Surviving Sepsis. March 9, 2012. London, England.
129. National Quality Forum, Pulmonary and Critical Care Endorsement Maintenance Meeting. March 21-22, 2012. Washington, DC.
130. New Jersey Hospital Association, Sepsis 202: What's Hot and What's Not; Results of the Surviving Sepsis Campaign. March 23, 2012. Trenton, NJ.
131. The National Summit on Critical Care Policy. July 2012. Washington, DC.
132. National Quality Forum Measure Applications Partnership Safety & Care Coordinator Task Form Meeting. July 2012. Washington, DC.
133. SSC Moore Foundation Focus Group Meeting. August 2012. Palo Alto, CA.
134. ARDS DSMB In-person Meeting. September 2012. Bethesda, MD.
135. Surviving Sepsis Campaign Scientific Meeting. September 2012. Florence, Italy.
136. ESICM. October 2012. Lisbon, Portugal.
137. 2012 SCAL Sepsis Summit. November 2012. Pomona, CA.
138. Dignity in Death, Applying the Lessons of Mindfulness to Improve the Quality of End-of-Life Care. November 2012. Montreal, Canada.
139. AACN Critical Care Fall Symposium. November 2012. Portland, OR.
140. 2012 Shanghai Workshop on Critical Care Nephrology and Acute Kidney Injury. November 2012. Shanghai, China.
141. ESICM – SCCM Surviving Sepsis Campaign Planning Meeting. November 2012. New York, NY.
142. MAP Hospital Workgroup Meeting, (National Quality Forum). December 2012. Washington, DC.
143. SCCM Congress 2013. January 2013. San Juan, Puerto Rico.
144. ATS Nominating Committee In-Person Meeting. March 2-3, 2013. San Diego, CA.
145. Joint Commission / SCCM Grant Meeting. March 4, 2013. Chicago, IL.
146. CMS Sepsis Grand Rounds, CMS Offices. March 2013. Baltimore, MD.
147. Annual New England Critical Care Pharmacy Symposium, Northeastern University School of Pharmacy. May 2013. Boston, MA.
148. ATS 2013 Congress (Faculty Presenter). May 17-22, 2013. Philadelphia, PA.
149. Steering Committee Meeting: Prevalence Study for World Sepsis Day – Reanimation Medical, Hopital Cochin. July 27-28, 2013. Paris, France.
150. Round Table Group Meeting at World Federation of Societies of Intensive and Critical Care Medicine (WFSICCM). August 28 – September 1, 2013. Durban, South Africa.



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151. Critical Care Program presentation, Guy's & St. Thomas Hospital. September 2013. London, England.
152. ICU Visiting Professor Program, Awareness Day for Sepsis / World Sepsis Day. September 24-25, 2013. Riyadh Saudi, Arabia.
153. ESICM 26th Annual Congress (Faculty). October 5-9, 2013. Paris, France.
154. Society of Critical Care Medicine Annual Congress. January 9-13, 2014. San Francisco, CA.
155. Harborview Medical Center 2nd Regional Conference. February 7-9, 2014. Seattle, WA.
156. CritiCARE 2014 20th Annual Conference of Indian Society of Critical Care Medicine and 18th Asia/Pacific Congress of Critical Care Medicine. February 11-16, 2014. Jaipur, India.
157. 34th Annual International Symposium on Intensive Care and Emergency Medicine (Faculty). March 18-21, 2014. Square, Brussels.
158. "Let's Talk about Death Seminar", UCSF. May 20-24, 2014. San Francisco, CA.
159. American Thoracic Society Annual Conference. May 16-21, 2014. San Diego, CA.
160. ESICM LIVES 2014 Annual Conference. September 26 – October 2, 2014. Barcelona, Spain.
161. ESICM Lives 2014. September 26- October 2, 2014. Barcelona, Spain.
162. NYC Mindfulness and Communication Program; New York University. October 17-19, 2014. New York, NY.
163. Grand Rounds Speaker with Adventist Health. October 20-21, 2014. Orlando, FL.
164. Buddhist Contemplative Care Symposium; Garrison Institute. November 6-9, 2014. Garrison, NY.
165. Society of Critical Care Medicine Annual Critical Care Congress. January 17-21, 2015. Phoenix, AZ.
166. Sepsis Scientific Input Engagement; Le Meridien. February 11, 2015. Philadelphia, PA.
167. New York University Grand Rounds; NYU. February 25-26, 2015. New York, NY.
168. Barcelona Sepsis Program. March 6-9, 2015. Barcelona, Spain.
169. ATS International Conference. March 15-20, 2015. Denver, CO.
170. 12th Congress of the World Federation of Societies of Intensive and Critical Care Medicine. August 27 September 1, 2015. Seoul, Korea.
171. Center for Disease Control Annual Data Sharing Sepsis Meeting; Emory Conference Center. September 9, 2015. Atlanta, GA.
172. Sepsis Without Walls Sepsis Conference. September 24, 2015. Baltimore, MD.
173. ACCEPTS Meditation Instruction. September 26-27, 2015. Chicago, IL.
174. Michigan Health & Hospitals Association Keystone ICU Collaborative. September 29, 2015. Flint, MI
175. 45th Critical Care Congress. February 20-24, 2016. Orlando, FL.
176. German National Academy of Science. March 8-12, 2016. Jena, Germany.
177. 18th Congress on Intensive Care Medicine. April 6-10, 2016. Turkey.



178. 35th Annual Congress of the KSCCM. April 22-23, 2016. Seoul, Korea.
179. ATS International Conference. May 13-18, 2016. San Francisco, CA.
180. Thai Society of Critical Care Meeting (TSCCM). October 12-16, 2016. Bangkok, Thailand.
181. CHEST Conference. October 22-26, 2016. Los Angeles, CA.
182. SCCM: ACEP Sepsis Meeting. November 7, 2016. Chicago, IL.
183. 3rd International Consensus Definitions for Sepsis and Septic Shock: A Step Forward. December 1-4, 2016. Florence, Italy.
184. The New Surviving Sepsis Guidelines and Sepsis Definitions. March 18, 2017. Barcelona, Spain.
185. Grand Rounds for Institute for Family Health; Mount Sinai Beth Israel. April 7, 2017. New York, NY.
186. New York Department of Health Sepsis Advisory Workgroup. April 16-17, 2017. New York, NY.
187. 36th Annual Conference of the KSCCM. April 20-23, 2017. Seoul, Korea.
188. XIV International Forum of Sepsis 2017. May 4-5, 2017. Sao Paulo, Guarulh, Brazil.
189. ATS International Conference. May 19-20, 2017. Washington, DC.
190. NEJM Group Open Forum; Online. May 22-31, 2017.
191. WHA Side Event; Pre-Recorded, Global Sepsis Alliance. May 24, 2017. Germany.
192. Colorado Hospital Association (CHA): Sepsis Reduction Seminar. June 12, 2017. Denver, CO.
193. 23rd Annual Research Forum, Brown University. June 28, 2017. Providence, RI.
194. WSC Spotlight: Maternal and Neonatal Sepsis; Online Congress. September 12, 2017.
195. National Sepsis Summit. September 4, 2017. Dublin, Ireland.
196. Presentation of Data at Careggi University Hospital. September 15, 2017. Florence, Italy.
197. SSC Planning Meeting. September 18 – 19, 2017. Budapest, Hungary.
198. ESICM Lives 30th Annual Congress, September 24 – 27, 2017. Vienna, Austria.
199. Mindfulness Workshop, Bellevue Hospital Center. November 30, 2017. New York, New York.
200. 2017 CHEST Conference. Monday, October 30 – November 1, 2017. Toronto, Canada
201. SCCM/Lawrence Livermore Collaboration. January 17 – 18, 2018. Mount Prospect, Illinois.
202. Protocol Synopsis ApoCell. January 21, 2018. Tel Aviv, Israel.
203. Good Death Talk – Wellesley College. March 19, 2018. Wellesley, Massachusetts.
204. 11th Annual Blood & Beyond Conference. April 28 – 29, 2018. Halifax, Nova Scotia.
205. Dalhousie Faculty of Medicine 150th Anniversary Honorary Lecture. May 1, 2018. Nova Scotia.



GRANTS

1. Caregivers' Attitudes Toward End-of-Life Issues. McMaster University and Hewlett- Packard Corp: \$12,000; 1997.
2. Principal Investigator: Low- Molecular Weight Heparin in MICU Patients. Rhone- Poulenc Rorer Pharmaceuticals Inc.: \$70,000; 1997.
3. Principal Investigator: Phase II Trial of Neutrophil Elastase Inhibitor. Zeneca Pharmaceuticals: \$8,000; 1998.
4. Principal Investigator: Pressure vs Flow Triggering in Mechanical Ventilation. Siemens Corp: \$20,000; 1997-1998.
5. Principal Investigator: Evaluation of the Impact of Antipyretics in the Critically Ill: A Randomized Trial. Unfunded: 07/2000-2001.
6. 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.
7. 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.
8. Principal Investigator: An Open- Label Study of Recombinant Human Activated Protein C in Severe Sepsis. Eli Lilly and Company: \$17,097; January 2001.
9. Primary Investigator: Care Protocols in Intensive Care Project Survey. DEIO Corp: \$18,000; June 2001.
10. 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.
11. 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.
12. Rationing in Critical Care. Unrestricted education grant, Eli Lilly and Company: \$1.8 million. Grant period: 18 months; November 2002.
13. End-of-Life Care Audit Tool. Robert Wood Johnson Foundation: \$150,000. Grant period: 18 months; November 2002.
14. Early Goal Directed Therapy. Edwards Lifesciences: \$30,000; July 2003.
15. Principal Investigator: Measuring the Quality of Palliative Care in the Intensive Care Unit. The Robert Wood Johnson Foundation: \$250,000; July 2002- December 2003.
16. PEEP in ARDS. Siemens Corp: \$30,000, September 2003.
17. A Double Blind, Placebo- Controlled Study of E5664, a Lipid Antagonist, Administered by Twice Daily Intravenous Infusions in Patients with Severe Sepsis (Lipid Antagonist). EISAI, Inc./PPD: \$71,824, September 2003.



18. Evaluation of Efficacy and Safety of Epoetin Alfa in Critically Ill Subjects (EPO-ICU-002). Johnson & Johnson Interventional Systems/CARESTAT; \$225,498, January 2004.
19. 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 Coordinating Center). Chiron Corporation: \$401,200, April 2004.
20. Double-Blind Randomized Study for safety and efficacy of GR270773 in Treatment of Gram-negative Severe Sepsis in Adults. GlaxoSmithKline: \$81,832.94, 7/1/2004-6/30/2005.
21. 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.
22. 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.
23. PCT in Microcirculation: PCT levels and Microcirculatory Abnormalities in Septic Patients. Brahms Diagnostics: \$6,000, 9/27/2007-present.
24. 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, 5/1/2008-present.
25. 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, 3/20/2008-present.
26. 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.
27. Mathematical modeling of disease progression in patients at risk for sepsis: A prospective cohort study. Immunetrics: \$383,100, 2009- present.
28. Validation of the Procalcitonin (PCT) Assay using the ADVIA Centaur System (Extension). Siemens: \$23,781, February 2011-September 2011.
29. 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 infectionnegative SIRS. Sponsor: Immunexpress; Start date: 5/7/2015 – present Amount: \$147,275.
30. Randomized Trial of Ticagrelor in Severe Community Acquired Pneumonia. Sponsor: Vanderbilt University Medical Center/ASTRAZENECA; Start: 12/18/2014 – present. Amount: \$180,813.
31. 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.
32. 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.



The Intensive Connection





UNIVERSITY TEACHING ROLES

1. Dalhousie University (1988 - 1990) * Established Critical Care Noon Lecture Series for Internal Medicine house staff: 1 hour every other week: 9 months/year; responsible for all lectures in series.
2. Critical Care Lecture Series, coordinator for IM House staff and medical students: 1 hour lecture, 4 days/week, all year; responsible for coordination of faculty; presented half of all lectures in series * Developed Journal Club for Critical Care Faculty: 2 hours/month, 12 months/year; coordinated topics and faculty * 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 .
3. Brown University (1997 - present)* 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.
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. * 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.