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## EDUCATION

| Institution; Location | Degree | Dates Attended | Field of Study |
|---|---|---|---|
| Stanford University; Stanford, CA | B.S. | 9/82-6/86 | Biological Sciences |
| Stanford University; Stanford, CA | M.D. | 9/88-6/93 | Medicine |
| Univ. of Washington; Seattle, WA | M.Sc. | 7/98-8/00 | Epidemiology |

## POSTGRADUATE TRAINING

| Institution; Location | Training | Dates Attended | Field of Study |
|---|---|---|---|
| Stanford University; Stanford, CA | Internship | 7/93-6/94 | Internal Medicine |
| Stanford University; Stanford, CA | Residency | 7/94-6/96 | Internal Medicine |
| Stanford University; Stanford, CA | Fellowship | 7/96-6/97 | Intensive Care |
| Univ. of Washington; Seattle, WA | Fellowship | 7/97-6/00 | Pulmonary/Critical Care |

## OTHER TRAINING

7/05 Participant. Georgetown University Heathcare Leadership Institute. Georgetown University School of Business.

9/05 Participant. OARS Team Leadership Training Program. Seattle, WA.

9/05-6/06 Teaching Scholar. University of Washington Department of Medical Education and Biomedical Informatics. Seattle, WA.

## FACULTY POSITIONS HELD

7/00-10/01 Senior Fellow/Acting Instructor. Division of Pulmonary & Critical Care Medicine, University of Washington, Seattle, WA.

10/01-7/07 Assistant Professor of Medicine. Division of Pulmonary & Critical Care Medicine, University of Washington, Seattle, WA.

7/07-12/11 Associate Professor of Medicine. Division of Pulmonary & Critical Care Medicine, University of Washington, Seattle, WA.

1/12- Affiliate Associate Professor of Medicine. Division of Pulmonary & Critical Care Medicine, University of Washington, Seattle, WA.

1/12- Clinical Associate Professor of Medicine. Division of Pulmonary & Critical Care Medicine, Stanford University, Stanford, CA.

## HOSPITAL POSITIONS HELD

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|---|---|
| 11/98-10/01 | Attending Physician, Pulmonary & Critical Care Medicine. Group Health Cooperative/Virginia Mason Medical Center, Seattle, WA. Courtesy appointment; Group Health locum tenens. |
| 7/00-12/11 | Attending Physician, Pulmonary & Critical Care Medicine. Harborview Medical Center, Seattle, WA. |
| 1/06-8/06 | Acting Associate Medical Director (Critical Care). Harborview Medical Center, Seattle, WA. |
| 1/06-8/06 | Director (Acting). Medical Intensive Care Unit. Harborview Medical Center, Seattle, WA. |
| 7/07-12/11 | Director. Medical Intensive Care Unit. Harborview Medical Center, Seattle, WA. |
| 5/08-12/11 | Associate Medical Director (Critical Care). Harborview Medical Center, Seattle, WA. |
| 1/12- | Medical Director. Medical-Surgical Intensive Care Unit & Intermediate Intensive Care Unit. VA Palo Alto Health Care System. Palo Alto, CA. |
| 1/12- | Associate Program Director. Critical Care Fellowship Program. Stanford University, Stanford, CA. |

## HONORS

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|---|---|
| 1986 | Graduated with distinction (top 10% of biological sciences major). |
| 1986 | Recognized at graduation for exceptional contributions to both undergraduate teaching and advising. |
| 1989 | Medical Student Scholarship Award. Awarded to support an independent research project in emergency medicine. |
| 1990-91 | Society for Academic Emergency Medicine Student Scholarship Award. One of four students nationwide to receive this scholarship. |
| 1994, ‘97 | Service in Action Award. Recognized by staff for outstanding patient care. |
| 1995 | Housestaff Teaching Award. Awarded at graduation to five people, chosen from among all housestaff, for their exceptional teaching to medical students. |
| 2004 | Nominated. Harborview CARES Service Excellence Award |
| 2006 | Nominated. Harborview “Heroes for Kids” award. |

2006 Award winner. Harborview CARES Service Excellence Award

2007 Award winner. Lifecenter Northwest Organ Donation Individual Excellence Award

2010 Award winner. King County Healthcare Coalition 2009 Emergency Preparedness and Response Award for "Excellence in Leadership." Awarded for "Facilitation of H1N1 Regional ICU Coordination & Data Tracking."

2010 Seattle Magazine's Top Doctors: Critical Care.

2011 Award Winner. Harborview CARES Service Excellence Award

2011 "Seattle Magazine" and "Seattle Met" Top Doctors: Critical Care

**BOARD CERTIFICATIONS**

Internal Medicine: 1996-present
Pulmonary Disease: 1999-present
Critical Care: 2000-present

**CURRENT MEDICAL LICENSES**

California: 1994-present, # G080330 (Active)
Washington: 1997-present, # MD00034900 (Active)

**PROFESSIONAL ORGANIZATIONS**

American College of Physicians
American Thoracic Society
Society of Critical Care Medicine

**TEACHING RESPONSIBILITIES**

Course/Program Development

1998-01 Medical advisor. Asthma Education Class, Harborview Medical Center.

2001-03 Medical Director. Respiratory Care Training Program, Seattle Central Community College.

2001 Course chair and Speaker. "New Insights Into Sepsis": an educational event sponsored by the University of Washington for the Seattle medical community (Continuing Medical Education). Specific lecture: "Challenges in Sepsis Identification and Definition."

2004-08 Program Development. Developed a training tool, oversaw procedure training, and continue to monitor quality assessment for mini-BAL performance of lead respiratory therapists, Harborview Medical Center

2006-08 Curriculum Development. Developing a core curriculum, orientation, and lecture series for Medical Intensive Care Unit housestaff and fellows.

2010 Central Venous Catheter Training. Oversaw the credentialing of Harborview faculty for CVC placement in the HMC simulation center

Teaching in Courses/Programs

1998,'04,'05 Conference Leader. Human Biology 541: The Respiratory System. University of Washington School of Medicine.

1999-03 Instructor. Respiratory Care Training Program, Seattle Central Community College.

1999- Instructor. Advanced Trauma Life Support.

1999-10 Speaker. Harborview Medical Center Paramedic Training Program. "Inhalation injury." "Blunt Thoracic Trauma." Annual lecture.

2001 Instructor. University of Washington Department of Medicine Invasive Procedures and Infection Control. Instructed first year medicine residents in Central Lines and Pulmonary Artery Catheterization.

2001 Facilitator. Introduction to Clinical Medicine II (ICM II). Coordinated Harborview Medical Center's involvement in this hands-on instruction for medical students of patients with respiratory problems.

2001-10 Lecturer. Medicine 683, Pulmonary Medicine, University of Washington.

2001-10 Lecturer. Housestaff Noon Conference Series, Department of Medicine, University of Washington.

2001-10 Speaker. Pharm 515. University of Washington Acute Care Nurse Practitioner Program. "Pharmacologic Therapies for Acute Respiratory Distress Syndrome." Annual lecture.

2003 Speaker and Panel Member. University of Washington Certificate Program in Clinical Trials. "Clinical Trials: What it's really like to be the PI."

2003,'07 Speaker. "Tuesday Series" continuing education for experienced paramedics, Harborview Medical Center. "Inhalation Injury." "Pulmonary Emergencies in the Field."

2004,'06,'07 Discussant. Chief of Medicine Rounds, Department of Medicine, University of Washington.

2005-07 Instructor. Advanced Cardiac Life Support.

2007,'08,'09 Lecturer. Human Biology: The Respiratory System. University of Washington School of Medicine. "Acute Respiratory Failure."

Invited Educational Presentations

*National:*

2002 ICU Medicine Symposium (Continuing Medical Education), Anchorage Regional Hospital, Anchorage, Alaska. "Pulmonary and Critical Care Issues in Trauma Patients." "Challenges in Sepsis Identification and Treatment." "Acute Lung Injury: Diagnosis and Therapeutic Options."

2005 Army American College of Physicians meeting. Fort Sam Houston, San Antonio, Texas. "Burns and Inhalation Injury."

2005 18th Annual Trauma Symposium, Stanford University, Palo Alto, CA. Lectured at the main symposium and provided in-services to the ICU staff on "Therapies for Blunt Thoracic Trauma."

2006 University Healthcare Consortium: Medical Leadership & Clinical Evaluative Sciences Councils. Chicago, Illinois. "Rapid Response Team."

2006 AirLift Northwest Regional Conference. Juneau, AK. "Case Review: Management of ARDS and MRSA Pneumonia"

2006 Society of Critical Care Medicine: Excellence in Quality and Safety in Critical Care Conference. Baltimore, MD. "Communication in the ICU: Barriers and Challenges."

2007 Invited speaker. American Thoracic Society meeting. "Defining Acute Lung Injury: Are we missing something?"

2007 Invited speaker and session moderator. American Association of Respiratory Care: "The IRB and You." "Acute Severe Asthma"; "Chart Reviews"; "Informed Consent."

2008 Invited speaker. American Thoracic Society meeting. "Attributes and outcomes of patients with ALI and initial Pulmonary Artery Pressure greater than 18."

2010 Invited speaker. Society of Critical Care Medicine International Conference. "H1N1: What Have We Learned?"

*Regional (Puget Sound):*

1999,'03,'06 American Association of Critical Care Nurses Symposium: Puget Sound Chapter (Continuing Education). "When Weaning from the Ventilator Isn't Easy." "Acute Lung Injury: Diagnosis and Therapeutic Options." "Acute Respiratory Failure."

2000 Respiratory Care Society of Washington (Puget Sound Chapter) Annual Critical Care Seminar (Continuing Education). "When Weaning Isn't Easy."

2001 Respiratory Care Society of Washington: 28th Pacific Northwest Regional Care Conference (Continuing Education). "Burns and Inhalation Injury"

2003 American Association of Critical Care Nurses Educational Dinner: Puget Sound Chapter (Continuing Education). "Identification and Treatment of Severe Sepsis."

2006 Respiratory Care Society of Washington: Current Topics in Respiratory Critical Care Conference (Continuing Education). "Challenges in Ventilation: the 'Tight' or Obese Abdomen."

2006 Critical Care Conference (Continuing Education), Seattle, WA. "Mechanical Ventilation: Proven Methods and New Approaches."

2006 Neuroscience Lecture. Swedish Hospital---Providence, Seattle, WA. "Acute Lung Injury: Diagnosis and Therapeutic Options."

2006 "Lung Rangers Support Group." Providence-Everett Pulmonary Rehabilitation Program. "Lung Disease."

2006 29th Annual Pacific Northwest Conference for Primary and Acute Care Practitioners. "Acute Respiratory Failure: How to Diagnose it, Manage it, and Predict the Outcomes."

2007 Invited speaker. Internal Medicine CME Course. Seattle, WA. "Hmeodynamic Monitoring."

2007 Seattle Area Chest Grand Rounds: 2nd Hour Conference, Seattle, WA. "Hemodynamic Monitoring."

2008 Invited Speaker. Western Regional Emergency Medical Services (WREMS) Conference. "Pulmonary Emergencies in the Field." Ocean Shores, WA.

2009 Invited participant. H1N1 Case Review. Virginia Mason Medical Center, Seattle, WA.

2010 Invited speaker. H1N1: Prevention, Management, and Outcomes. Virginia Mason Respiratory/Nursing Education Day.

2010 Airlift Northwest Regional Competency Day. Review of difficult cases and ventilatory strategies.

*Local (Seattle):*

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| 2000-11 | Advanced ICU Workshop (Nursing). Harborview Medical Center. "Interpretation of Chest Radiographs in the Critically Ill Patient." "Difficult Pulmonary Cases and Therapies." "Sedation in the ICU." "Bronchoscopy in the ICU." "Ventilator Associated Pneumonia" "Novel Therapies for Severe Hypoxemia." "Challenging Cases of Mechanical Ventilation." "Ventilator Associated Pneumonia (VAP): How do we stop it?" "H1N1 Management" (Semi-annual lecture.) |
| 2001 | Pharmaceutical Science Update. Harborview Medical Center. "Activated Protein C: A Possible Therapy for Severe Sepsis." |
| 2003, '07 | Lung Day, University of Washington. "Does this patient *really* have ARDS"? "Status Asthmaticus" |
| 2003 | Neurointensive Care Education Day, Harborview Medical Center. "Lung Protective Ventilation." |
| 2003 | Transfusion Medicine—Blood Core (Continuing Education), Harborview Medical Center. "Disseminated Intravascular Coagulation. |
| 2003-04 | Respiratory Core Day for Acute Care Nurses. Harborview Medical Center. "Pneumonia," "ARDS," and "Sleep Apnea." |
| 2004 | Co-host and speaker. ACCP-Altana International Physician Mentoring Program. University of Washington. "Critical Care Trials: Translating Results to Practice." |
| 2004 | The Association of Clinical Research Professionals (ACRP); Continuing Education. "Clinical Trials: What It's Really Like to Be the PI." |
| 2005 | Department of Medicine Grand Rounds, University of Washington. "Institutional Review Boards: Balancing Research Demands with Human Subjects Protection." |
| 2006 | Transplant Grand Rounds, University of Washington. "Organ Donation Update." |
| 2006, '07 | Survival Skills for the Research Years. University of Washington Research Fellows Conference: "The IRB: Friend or Foe?" |
| 2006 | Harborview Respiratory Therapy Retreat. "Professionalism at Harborview Medical Center." |
| 2006 | University of Washington Anesthesiology Grand Rounds. "Clinical Trials in Pulmonary Medicine." |
| 2007 | Harborview Emergency Department: "Organ Donation Update." |

2007 Surgical Intensive Care Unit Retreat. "Acute Lung Injury Update."

2007 University of Washington Internal Medicine Resident Career Day.

2007 Resuscitation Outcomes Conference: "Acute Lung Injury Update."

2007 Nursing Education Course. Respiratory Disease: Acute and Chronic. "Pneumonia, Acute Lung Injury, Asthma, COPD, and Sleep Apnea"

2009 Panel Member. Introduction to Clinical Medicine, University of Washington School of Medicine. "Life Balance"

2009 Trauma Conference, Department of Surgery, Harborview Medical Center. "H1N1 Update."

2010 Burn ICU Chalk Talk. "ARDS and Refractory Hypoxemia"

2010 Residency Orientation (University of Washington School of Medicine): "MD-RN communication in the ICU."

2010 Grand Rounds, Department of Orthopedic Surgery, University of Washington. "Lungs and Bones."

2011 "Lung Day." University of Washington Division of Pulmonary & Critical Care. "H1N1: A Lesson in Teamwork." Seattle, WA.

**EDITORIAL RESPONSIBILITIES**

2005 Medical reviewer. Facts on File: Encyclopedia of Medicine (Pulmonary).

2007-08 Guest Editor. Special edition *Respiratory Care*: "The IRB and You."

**SPECIAL NATIONAL RESPONSIBILITIES**

2000-02 Reviewer. Practical Reviews in Critical Care Medicine.

2001-11 Co-Investigator. National Institutes of Health Acute Respiratory Distress Syndrome Network (ARDSnet), Harborview Medical Center.

2003-05 Instructor. Fundamentals of Critical Care Support.

2003-06 Co-Investigator. National Institutes of Health Specialized Centers of Clinically Oriented Research (SCCOR) in Acute Lung Injury. Project 3: Clinical Trials Incubator Unit. Harborview Medical Center.

2004- Member. American Thoracic Society, Assembly on Critical Care.

2005-08 Medical Monitor. Cystic Fibrosis Therapeutic Diagnostics Network. Provide safety monitoring for multi-center clinical trials in Cystic Fibrosis patients.

2006-09 Principal Investigator (Project 3). National Institutes of Health Specialized Centers of Clinically Oriented Research (SCCOR) in Acute Lung Injury. Project 3: Clinical Trials Incubator Unit. Harborview Medical Center.

2006-09 Member. Society of Critical Care Medicine (SCCM) Graduate and Resident Education Committee.

2006 Participant and Speaker. International Sepsis Forum Colloquium: Enabling Clinical Research in Sepsis. Park City, Utah. "Multi-center Clinical Trials: Ethical Issues"

2007-11 Member, Ethics Committee. National Institutes of Health Acute Respiratory Distress Syndrome Network (ARDSnet).

2007-11 Member. Partnership for Excellence in Critical Care.

2009-10 Member. Pulmonary Technical Advisory Panel: National Quality Forum.

**SPECIAL REGIONAL/LOCAL RESPONSIBILITIES**

Research

1998-03 Investigator. Clinical research, Harborview Medical Center. Coordinated the clinical activities of the bronchoalveolar lavage program in Acute Lung Injury.

1999-00 Principal Investigator. Clinical research study, Harborview Medical Center. Prospective clinical trial evaluating the use of non-bronchoscopic techniques in the evaluation of patients with respiratory failure.

2001-03 Principal Investigator. Clinical research study, Harborview Medical Center. Prospective study evaluating edema fluid and bronchoalveolar lavage fluid to distinguish patients with heart failure from those with Acute Lung Injury.

2003-06 Medical Monitor and Member, Data Safety Monitoring Board. The Effect of Hypertonic Resuscitation for Blunt Trauma (NIH sponsored study, PI: Dr. Eileen Bulger), Harborview Medical Center.

2004-06 Member. Data Safety Monitoring Board. Hypothermia Study in Out-of-hospital Cardiac Arrest (pilot study). PI: Dr. Frances Kim, Harborview Medical Center

2006 Member. CTSA Regulatory Support Team.

2006 Safety Monitor for Bronchoscopies. Bronchoalveolar Lavage-Collected Alveolar Macrophages as a Reservoir for HIV (PI: Jeffrey Schouten, MD).

2006-11 Member. Bronchoscopy Oversight Committee. Epithelial Basis of Exercise-Induced Bronchoconstriction. (PI: Teal Hallstrand, MD)

2007- Member. Data Safety Monitoring Board. Hypothermia Study in Out-of-hospital Cardiac Arrest. PI: Dr. Frances Kim, Harborview Medical Center

2010- Safety Officer. "Physician Modified Endovascular Grafts for the Treatment of Elective, Symptomatic, or Ruptured Juxtarenal Aortic Aneurysms." PI: Dr. Benjamin Starnes.

University/Hospital

1998-11 Member. ICU Research Committee, Harborview Medical Center.

1998-08 Chair. ICU Research Committee, Harborview Medical Center.

2000-03 Member. Hypothermia Study Group, Harborview Medical Center.

2002-08 Co-chair. Code Blue Committee. Harborview Medical Center

2002-11 Member. Critical Care Advisory Committee. Harborview Medical Center

2003-11 Member. Institutional Review Board, University of Washington.

2003 Member. Fellowship selection committee. Division of Pulmonary & Critical Care Medicine, University of Washington.

2003-11 Member. Selection committee, Surgical Critical Care Fellowship. Harborview Medical Center.

2003-11 Educator. Developed guidelines and materials for clinical use and instructed nurses, respiratory therapists, and housestaff in their use. (Topics: Lung Protective Ventilation, Activated Protein C, Acute Lung Injury Fluid Management.)

2005, '07 Member. Search Committee, Assistant Professor of Medicine, University of Washington, Harborview Medical Center.

2005-08 Member. Clinical Research Education Committee. University of Washington.

2005-09 Member. University of Washington Institutional Review Board Policy Board.

2005-09 Co-Chair. Committee D, Institutional Review Board, University of Washington.

2006-08 Physician Liason. Life Center Northwest Organ Donation Program. Harborview Medical Center.

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| 2006 | Chair (Acting). Critical Care Advisory Committee. Harborview Medical Center. |
| 2006-08 | Member. Code Review Committee, Harborview Medical Center |
| 2006 | Member. University Hospital Consortium initiative: Ventilator Bundle (Ventilator Associated Pneumonia) |
| 2006-11 | Member. Clinical Education Task Force, University of Washington, Division of Pulmonary & Critical Care. |
| 2007 | Member. University of Washington Medicine: Clinical Research Billing Process Improvement Project |
| 2007-09 | Member. Search Committee. Assistant Professor of Medicine, Division of Cardiology. University of Washington. |
| 2007-09 | Member. Patient and Family Centered Care work group. Harborview Medical Center. |
| 2007-11 | Quality Improvement Project: Revision of "Do Not Attempt Resuscitation" documentation and process. |
| 2008-11 | Chair. Critical Care Advisory Committee. Harborview Medical Center, Seattle, WA |
| 2008-11 | Member. UW Medicine ICU Committee. (Chair, 2010-2011) |
| 2009-11 | Member. Animals on Medical Center Campus. Harborview Medical Center, Seattle, WA. |
| 2009-11 | Member. ICU Metrics Workgroup to develop a Quality Safety Dashboard, Harborview Medical Center. |
| 2009-10 | Member. Anesthesia Chair Search Committee. Harborview Medical Center. |
| 2009-11 | Member, Patient Safety Educational Planning & Oversight Committee (EPOC), for the UW-HMC ISIS (Institute for Simulation and Interprofessional Studies). |
| 2009-10 | Leader, King County Healthcare Coalition H1N1 ICU Taskforce---assessment and organization of regional ICU resources during H1N1 pandemic. |
| 2010-11 | Physician representative. Medication Administration Committee, Harborview Medical Center. |
| 2010 | Member. Physician On-boarding committee, UW Medicine. |

2010-11 Medical oversight for Critical Care Advanced Practice Nurses (ARNP)

2011-11 Member. CPOE Advisory Committee. University of Washington (UW Medicine)

2011 Member, King County Healthcare Coalition "Crisis Standards of Care" Workshop Planning Committee.

**RESEARCH (EXTRA-MURAL) FUNDING**

Past Support

1999-01 Site Co-Investigator. Ortho Biotech, Inc. "Efficacy of rHuEPO (Recombinant Human Erythropoietin) in the Critically Ill Patient: A Randomized, Double-Blind, Placebo Controlled Trial." 10% support.

2000-01 National Research Service Award Individual Postdoctoral Fellowship. National Institutes of Health. "Bronchoalveolar lavage to identify permeability edema." $49,412/yr.

2000 American Heart Association Postdoctoral Fellowship Award. "Bronchoalveolar lavage fluid to identify patients with permeability pulmonary edema." Award declined (alternative award to above NRSA which was accepted).

2000-01 Site Co-Investigator. Chiron Corp. "Multicenter, Double Blind, Placebo-Controlled, Randomized, Phase III Study of Tifacogin [Recombinant Tissue Factor Pathway Inhibitor] in Severe Sepsis.

2001-03 Site Investigator. National Institutes of Health Specialized Center of Research (SCOR) in Acute Lung Injury (PI: Leonard Hudson, MD). 20% support

2001 Site Principal Investigator. Eli Lilly& Co. "An Open-Label Study of Recombinant Human Activated Protein C in Severe Sepsis: A Phase IIIb Clinical Trial."

2002 Site Principal Investigator. Suntory Pharmaceutical, Inc. "A Phase II Evaluation of the Safety and Efficacy of α-hANP in Patients with ARDS."

2002 Site Principal Investigator. Eli Lilly & Co. "A Phase IIb Study to Determine the Efficacy and Safety of LY315920 in Patients with Severe Sepsis."

2003-05 Site Principal Investigator. Eli Lilly & Co. "A Randomized, Double-Blind, Placebo-Controlled Trial of Prophylactic Heparin in Patients with Severe Sepsis and Higher Disease Severity Who are Undergoing Treatment with Drotrecogin Alfa (Activated).

2003-04 Site Principal Investigator. Eli Lilly & Co. "Efficacy and Safety of Drotrecogin Alfa (Activated) in Adult Patients with Early Stage Severe Sepsis.

2003-06 Co-Investigator. National Institutes of Health Specialized Centers of Clinically Oriented Research (SCCOR) in Acute Lung Injury (PI: Thomas Martin, MD). Project 3: Clinical Trials Incubator Unit (Project PI: Avery Nathens, MD). Harborview Medical Center. (20% support)

2003-06 Medical Monitor. The Effect of Hypertonic Resuscitation for Blunt Trauma (NIH sponsored study; PI: Eileen Bulger, MD), Harborview Medical Center. (5% support)

2005-08 Medical Monitor. Cystic Fibrosis Therapeutic Diagnostics Network, Seattle, WA. (5-10% support)

2005-10 Co-Investigator. National Institutes of Health Acute Respiratory Distress Syndrome Network (ARDSnet). (2.5-5% support)

2006 Acting Associate Medical Director (Critical Care). Harborview Medical Center (40% support)

2005-07 Site Principal Investigator. Chiron Corp. "TFP008: 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."

2005-09 Co-Chair. Committee D, Institutional Review Board, University of Washington. ($5000/year)

2006-09 Principal Investigator (Project 3). National Institutes of Health Specialized Centers of Clinically Oriented Research (SCCOR) in Acute Lung Injury (PI: Thomas Martin, MD). Project 3: Clinical Trials Incubator Unit. Harborview Medical Center. (5% support)

2008-11 Associate Medical Director (Critical Care), Harborview Medical Center. (50% support)

2008-11 Medical Director, Medical Intensive Care Unit, Harborview Medical Center. (10% support)

## BIBLIOGRAPHY

### Manuscripts in refereed journals:

1. Rasmussen L, Nelson M, Neff M, Merigan T. Characterization of two different human cytomegalovirus glycoproteins which are targets for virus neutralizing antibody. Virology 1988; 163:308-318.

2. Chiu A, Neff M, Garcia G. Late complications of infection with Opisthorchis viverrini. West J Med 1996; 164:174-176.

3. Nathens A, Neff M, Goss C, Maier R, Rivara F. Effect of an older sibling and birth interval on the risk of childhood injury. Inj Prev 2000; 6(3): 219-222.

4. Nathens AB, Neff MJ, Jurkovich GJ, Klotz P, Farver K, Ruzinski JT, Radella F, Garcia I, Maier RV. Randomized, prospective trial of antioxidant supplementation in critically ill surgical patients. Ann Surg 2002 Dec;236(6): 814-22.

5. Rosengart MR, Nathens AB, Arbabi S, Neff MJ, Garcia I, Martin TR, Maier RV. Mitogen-activated protein kinases in the intensive care unit: prognostic potential. Ann Surg 2003 Jan;237(1):94-100.

6. Kahn JM, Andersson L, Karir V, Polissar NL, Neff MJ, Rubenfeld GD. Low tidal volume ventilation does not increase sedation use in patients with acute lung injury. Crit Care Med 2005;33:766-71.

7. Rubenfeld GD, Caldwell E, Peabody E, Weaver J, Martin DP, Neff M, Stern EJ, Hudson LD. Incidence and outcomes of acute lung injury. N Engl J Med. 2005 Oct 20;353(16):1685-93.

8. Pham TN, Neff MJ, Simmons JM, Gibran NS, Heimbach DM, Klein MB. The clinical pulmonary infection score poorly predicts pneumonia in patients with burns. J Burn Care Res. 2007 Jan-Feb;28(1):76-9

9. Bulger EM, Jurkovich GJ, Nathens AB, Copass MK, Hanson S, Cooper C, Liu PY, Neff M, Awan A, Warner K, Maier RV. Hypertonic resuscitation of hypovolemic shock after blunt trauma: a randomized controlled trial. Arch Surg. 2008;143(2):139-48.

10. Lamaye AP, Kirby KA, Rubenfeld GD, Leisenring WM, Bulger EM, Neff MJ, Gibran NS, Huang ML, Santo TK, Corey L, Boeckh M. Cytomegalovirus reactivation in critically-ill immunocompetent patients. JAMA. 2008 Jul 23;300(4):413-22.

11. Chaiwat O, Vavilala MS, Philip S, Malakouti A, Neff MJ, Deem S, Treggiari MM, Wang J, Lang JD. Intraoperative adherence to a low tidal volume ventilation strategy in critically ill patients with preexisting acute lung injury. J Crit Care. 2010 Sept 22; [Epub ahead of print]

12. Glavan BJ, Holden TD, Goss CH, Black RA, Neff MJ, Nathens AB, Martin TR, Wurfel MM; ARDSnet Investigators. Genetic variation in the FAS gene and associations with acute lung injury. Am J Respir Crit Care Med. 2011 Feb 1;183(3):356-63.

13. Stapleton RD, Martin TR, Crowley JJ, Gundel SJ, Nathens AB, Akhtar SR, Ruzinski JT, Caldwell E, Curtis JR, Heyland DK, Weiss NS, Watkins TR, Martin JM, Parsons PE, Hallstrand TS, Sims KA, Neff MJ. A Phase II Randomzied Placebo-Controlled Trial of Omega-3 Fatty Acids for the Treatment of Acute Lung Injury. Crit Care Med 2011 Mar 17, [Epub ahead of print].

14. Chan JD, Pham TN, Wong J, Hessel M, Cuschieri J, Neff M, Dellit TD. "Clinical Outcomes of Linezolid versus Vancomycin in the Treatment of Methicillin-Resistant *Staphylococcus aureus* Ventilator-Associated Pneumonia: Retrospective Analysis." *J Intensive Care Med* 2011 26: 385.

**Book chapters:**

1. Neff M. Sections on shock, Frank-Starling curves, pulmonary emboli. In: Neff J, Kidd P, editors. Trauma nursing: The Art and Science. St. Louis: Mosby Yearbook, 1993.

2. Neff MJ, Rubenfeld GD. Clinical Epidemiology of Acute Lung Injury. Semin Respir Crit Care Med 2001; 22(3): 237-246.

3. Neff MJ, Steinberg KP. Acute Respiratory Distress Syndrome. In: Hess DR, MacIntyre N.R., Mishoe SC, Galvin WF, Adams AB, Saposnik AB, editors. Respiratory Care: Principles & Practice. New York: W.B. Saunders Company, 2002: 1022-1034

4. Neff MJ. The Role of Nitric Oxide in Sepsis and Respiratory Failure. In: Karmy-Jones R, Nathens A, Stern E, editors. Thoracic Trauma and Critical Care. Boston: Kluwer Academic Publishers, 2002: 497-501.

5. Neff MJ. The Epidemiology and Definition of the Acute Respiratory Distress Syndrome. Respir Care Clin 2003;9:273-282.

6. Rubenfeld GD and Neff MJ. Epidemiology of Acute Lung Injury: a public health perspective. In: Matthay M, editor. Acute Respiratory Distress Syndrome (Lung Biology in Health and Disease). New York: Marcel Dekker, Inc., 2003: 37-54.

7. Neff MJ and Rubenfeld GD. Crossing the chasm between evidence and practice: changing ventilator management in patients with acute lung injury. In: Dreyfuss D, Saumon G, Hubmayr R, eds. ARDS Lung Biology Series. New York: Informa-Taylor & Francis, 2006: 611-626.

8. Neff MJ and Neff JA. Thoracic and Neck Trauma. In: Oman & Koziol-McLain, editors. Emergency Nursing Secrets, 2nd edition. St. Louis: Mosby Elsevier, 2007: 299-314.

9. Neff MJ. University of Washington School of Medicine. Human Biology 541 Core Text: Chapter 25, Introduction to Critical Care. 2008.

10. Neff MJ and Hudson LD. Acute Respiratory Distress Syndrome. (in press)

11. Rubenfeld GD and Neff MJ. Epidemiology of Acute Lung Injury: a public health perspective. In: Choi A, editor. Acute Respiratory Distress Syndrome (Lung Biology in Health and Disease), 2nd edition. New York: Informa Healthcare, 2010: 17-30.

**Other Publications:**

1. Neff MJ. Back From Iraq, but Still Fighting. Letter to the Editor, The New York Times, January 29, 2006.

2. Luks AM and Neff MJ. Pneumocystis jiroveci pneumonia. Teaching Case of the Month. Respir Care. 2007 Jan; 52 (1): 59-63.

3. Neff MJ. Institutional review board consideration of chart reviews, case reports, and observational studies. Respir Care. 2008 Oct;53(10):1350-3.

4. Neff MJ. Informed consent: What is it? Who can give it? How do we improve it? Respir Care. 2008 Oct;53(10):1337-41.

5. Neff MJ. The institutional review board and you. Respir Care. 2008 Oct;53(10):1324.

**Scholarly Works Submitted:**

1. Vavilala M, Lee J, Philip S, Lindberg K, Mack C, Neff MJ, Cottingham C, Cuschieri J, Ebel B, Archer D, Jurkovich G. "Risk Factors for Intensive Care Unit Readmission or Death at 24 Hours in Trauma Patients." Submitted (J Trauma).

**Abstracts:**

1. Neff M, Rubenfeld G, Caldwell E, Hudson L, Steinberg K. Exclusion of patients with elevated pulmonary capillary wedge pressure from acute respiratory distress syndrome. Am J Respir Crit Care Med 1999; 159 (3): A716.

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