**Date Updated:** January 25, 2021

**Name:**  E. Wesley Ely, M.D., M.P.H.

**Office Address**: Critical Illness, Brain Dysfunction, and Survivorship (CIBS) Center

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 Nashville, Tennessee 37203-8300

**E-Mail Address:** wes.ely@vumc.org

**Office Phone Number:** (615) 936-2795

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**Citizenship:** United States

**Personal Data:**

Home Address :

3619 Hampton Avenue

Nashville, Tennessee 37215

Home Phone Number:

(615) 463-3114

Spouse:

Kim A. Ely, M.D. (Anatomic/Clinical Pathologist, Vanderbilt University)

Children:

Taylor (b. 1994)

Blair (b. 1996)

Brooke (b. 1996)

**Education:**

08/81-06/85 Tulane University, New Orleans, Louisiana, B.S., Biology (summa cum laude)

08/85-06/89 Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana, M.P.H.

08/85-08/89 Tulane University School of Medicine, New Orleans, Louisiana, M.D.

07/89-06/92 Resident, Internal Medicine, Bowman Gray School of Medicine, Winston-Salem, North Carolina

07/92-06/95 Postdoctoral Fellow, Pulmonary and Critical Care Medicine, Bowman Gray School of Medicine, Winston-Salem, North Carolina

07/95-06/96 Chief Resident, Bowman Gray School of Medicine, Winston-Salem, North Carolina

01/98-06/98 Training in Medical Evaluation and Management of Lung Transplantation and Lung Volume Reduction Surgery, Barnes-Jewish Hospital of Washington University Medical Center, St. Louis, Missouri

**Licensure and Certification:**

Tennessee Medical License/Tennessee Board of Medical Examiners # MD30055

North Carolina Board of Medical Examiners # 39260

American Board of Internal Medicine:

* Internal Medicine, 1992, 2006
* Pulmonary Medicine, 1996, 2006
* Critical Care Medicine, 1997, 2006, 2017 (expires December 2027)

Advanced Trauma Life Support, 1995-1999

Advanced (and Basic) Cardiac Life Support, 2008-2013

Fundamental Critical Care Support Course and Instructor, 2006

**Academic Appointments:**

07/96-06/98 Assistant Professor of Internal Medicine, Section on Pulmonary and Critical Care Medicine, Bowman Gray School of Medicine, Winston-Salem, North Carolina

07/98-06/02 Assistant Professor of Medicine, Department of Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee

07/02-04/07 Associate Professor of Medicine, Department of Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee

04/07-Pres. Professor of Medicine (tenure), Department of Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee

12/17-Pres. Grant W. Liddle, Professor of Medicine, Department of Medicine, Vanderbilt University Medical Center

**Hospital Appointments:**

07/97-06/98 Medical Director, Chronic Lung Failure Clinic, Section on Pulmonary and Critical Care Medicine, Bowman Gray School of Medicine, Winston-Salem, North Carolina

07/98-06/99 Attending Physician, Adult Cystic Fibrosis Clinic, Vanderbilt University Medical Center, Nashville, Tennessee

07/98-06/00 Medical Director of Lung Transplantation, Section on Allergy, Pulmonary, and Critical Care Medicine, Vanderbilt Transplant Center, Vanderbilt University Medical Center, Nashville, Tennessee (Voluntarily discontinued to pursue research activities in Elderly/Critical Care.)

07/98- Pres. Intensivist and Pulmonary/Critical Care Consultant, Vanderbilt University Medical Center staff/attending physician

07/99-Pres. Attending Physician, Department of Veterans Affairs Medical Center, Nashville, Tennessee

**Professional Organizations:**

 American College of Physicians - American Society of Internal Medicine

 (elected Fellow, January, 2000 #00069797), since 2000

 American Geriatrics Society, ID#47918, since 1998

 American College of Chest Physicians (Elected Fellow, March 2000), since 2000

 American Medical Association, since 1992

American Thoracic Society, since 1992

 International Society for Heart and Lung Transplantation, since 1997

 Society of Critical Care Medicine (Elected Fellow, 2003), since 2003

Tennessee Thoracic Society, since 1998

 North Carolina Thoracic Society, since 1992

Association for Patient-Oriented Research, since 2001

European Society of Intensive Care Medicine, since 2001

 Neurocritical Care Society, since 2003

 Association of Subspecialty Professors (ASP), ASP Geriatrics Committee, since 2002

 American Society of Clinical Investigators (ASCI), since 2005

 Association of American Physicians (AAP), since 2013

**Professional Activities:**

 Intramural:

 (School or University Committees, inclusive dates)

1995-1998 Interviewer for Medical School, Bowman Gray School of Medicine, Winston-Salem, North Carolina

1995-1998 Member, Housestaff Executive Committee, Bowman Gray School of Medicine, Winston-Salem, North Carolina

1996-1998 Organized and led weekly "Conjoint Chest Conference" for Departments of Pulmonary/Critical Care, Cardiothoracic Surgery, Radiology and Pathology

1999-2003 Faculty Member, VUMC Resident Research Program Committee, Vanderbilt University Medical Center, Nashville, Tennessee

1999-2003 Committee Member, Ethics Committee, Vanderbilt University Medical Center, Nashville, Tennessee

2000-2003 Member, Program Committee for the Vanderbilt Physician Scientist Development (VPSD) Program, Vanderbilt University Medical Center, Nashville, Tennessee

2003 Reviewer and Judge, Twenty First Annual Research Forum, Vanderbilt University Medical Center, Nashville, Tennessee, April 23

2003-Pres. Mentor Program for 1st year medical students starting research in Vanderbilt EMPHASIS Program

2009-2013 Committee Member, Committee on Appointments and Promotions for the Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee

2010-2013 Delirium Field Advisory Committee, Department of Veterans Affairs Medical Center, Nashville, Tennessee

2017-Pres. Member, ICU Liberation Committee. (To provide oversight and guidance for the ICU Liberation Campaign. The committee serves as a coordinating body that makes recommendations to facilitate the campaign’s evolution by providing web-site content, exploring grant funding for continued research and exploring educational materials related to the campaign’s focus.)

 Extramural:

 (Study groups, site visits, government agencies or private organizations, including offices held with inclusive dates, editorial appointments, ad hoc reviewing)

1999-2000 Topic Leader, Writing Committee for Section on Mechanical Ventilator Protocols (Consensus Statement to be published in Chest, Critical Care Medicine, and Respiratory Care): “Evidence Based Weaning” Project, co-sponsored by the American College of Chest Physicians, the Society of Critical Care Medicine, and the Association for Respiratory Care

1999-Pres. Core Member, The ICU End-of-Life Working Group, part of the “Promoting Excellence in End-of-Life Care” National Program, funded by Robert Wood Johnson Foundation

2002 Faculty Member, Age-Friendly Health Systems Action Community, Age-Friendly Health Systems, Institute for Healthcare Improvement, Cambridge, Massachusetts

2001-2010 Member, Critical Care Assembly Program Committee, American Thoracic Society Annual International Meetings, Seattle, Washington

2008-2014 Faculty Member, Age-Friendly Health Systems Action Community, Age-Friendly Health Systems, Institute for Healthcare Improvement, Cambridge, Massachusetts

2010-Pres. Deputy Undersecretary for Health Operations and Management

 (DUSHOM) National Delirium Field Advisory Committee

2012-Pres. Co-chair; Pain, Agitation, Delirium and Immobility (PADI) Task Force, Society of Critical Care Medicine

2013-2014 Committee Member: Delirium in Older Adults--Finding Order in the Disorder. National Institute on Aging, the American Geriatrics Society, and the John A. Hartford Foundation. (U13 AG 039151)

2013-Pres. Ad hoc reviewer, National Institutes on Aging (NIA) Beeson Scholar Award (K23 and K76 awards)

2014-2015 Principal Investigator for ICU Liberation Task Force 2015-2017, Society of Critical Care Medicine National Collaborative

2017-2018 NIH Reviewer: Reviewed R01grant applications requested by Maurizio Grimaldi, Scientific Review Administrator at the National Institutes of Health in Bethesda, Maryland.

2017-2019 Beeson Award Reviewer: Reviewed K76 Beeson grant applications requested by Alexander Parsadanian, Scientific Review Officer with the National Institute on Aging in Bethesda, Maryland.

2018-Pres. Faculty Member, Age-Friendly Health Systems Action Community, Age-Friendly Health Systems, Institute for Healthcare Improvement, Cambridge, Massachusetts

2019-Pres. NIA Special Emphasis Panel/Scientific Review Group: 2019/05 ZAG1 ZIJ-G (M2)

2019-Pres. Advisory Board Member for EarlyMobility.com

2019-Pres. Member of the AARP & Global Council on Brain Health (GCBH) Committee

2020-Pres. Vanderbilt Memory and Alzheimer’s Center (VMAC) Faculty Member

 Editorial Responsibilities:

2003-Pres. Associate Editor, *Seminars in Respiratory and Critical Care Medicine*

2003-2012 Associate Editor, *American Journal of Geriatric Pharmacotherapy*

2014-Pres. Contributing Editor, *Linacre Quarterly*

Ad hoc reviewer for:

*Lancet*

*New England Journal of Medicine*

*Journal of the American Medical Association (JAMA)*

*Annals of Internal Medicine*

*American College of Physicians’ Journal Club*

*Journal of the American Geriatrics Society*

*American Journal of Respiratory and Critical Care Medicine*

*Chest*

*Critical Care Medicine*

*Intensive Care Medicine*

*Respiratory Care*

*Anesthesiology*

*BMC Geriatrics*

*American Journal of Geriatric Psychiatry*

*Psychosomatics*

*Archives of Internal Medicine*

*Seminars in Respiratory and Critical Care Medicine*

*Journal of the American College of Surgeons*

*General Hospital Psychiatry*

*Health and Quality of Life Outcomes*

*Journal of Gerontology: Medical Sciences*

*Journal of Critical Care*

*Gender Medicine*

*Health Outcomes Research in Medicine*

*The American Journal of Geriatric Pharmacotherapy*

*Clinical Therapeutics*

*Current Therapeutic Research*

*Psychoneuroendocrinology*

*Medical Engineering & Physics*

*Journal of Psychosomatic Research*

*Journal of Psychiatric Research*

*Journal of Clinical Epidemiology*

*Journal of Clinical Anesthesia*

*Journal of Pain and Symptom Management*

*Epilepsy Research*

*Neurochemistry International*

*Annals of Epidemiology*

*Neurobiology of Aging*

*Lancet: Global Health*

*American Journal of Cardiology*

*Journal of Pediatrics*

*Lancet: Psychiatry*

*BMJ Open*

*BMJ Neurology*

 Honors and Awards:

*Undergraduate:*

 Summa Cum Laude, Tulane University, 1985

 Phi Beta Kappa, Tulane University, 1985

 Top Scholar: Tulane Department of Biology, 1985 (#1 in class)

Omicron Delta Kappa (Awarded for combined excellence in academics and leadership) 1984

Kappa Delta Phi (Awarded to 10 students per year for outstanding service to Tulane University) 1983

*Medical School:*

 Alpha Omega Alpha Honor Medical Society, 1988

Thomas A. Giddings' Award (Selected by the Deans and presented annually to a third-year medical student who exemplifies "the warm and compassionate qualities most desirable in physicians.") 1988

CIBA-GEIGY Award for Community Service (Awarded yearly to one member of student body) 1987

Lloyd G. Balfour Fellowship: (a national award based on academics and service) 1986

*Residency:*

1991 Annual House Officer Teaching Award, The Bowman Gray School of Medicine, Winston-Salem, North Carolina. (Awarded annually to one resident for outstanding contributions in the field of clinical teaching. Selected by the student body.)

1991-1992 AMA/Burroughs-Welcome Leadership Award (50 selected among all house officers in the United States.)

 Clinical Evaluative Science Scholars Program Fellow

*Faculty:*

1997 Tinsley R. Harrison Faculty Teaching Excellence Award for Bedside Teaching, The Bowman Gray School of Medicine, Winston-Salem, North Carolina (Selected by Housestaff)

1997 Clinical Faculty Teaching Award, Bowman Gray School of Medicine, Winston-Salem, North Carolina (Awarded annually to one faculty member for outstanding contributions in the field of clinical teaching. Selected by the student body)

2000 The Judge Sidney H. Reiss Faculty Award for Teaching Excellence, Vanderbilt University School of Medicine, Nashville, Tennessee

2000 Merck/AFAR Junior Investigator in Geriatric Clinical Pharmacology

2000 The Paul Beeson Physician Faculty Scholars in Aging Research Award, American Federation for Aging Research (AFAR)

2004 Vanderbilt’s “Wall of Science” of Distinguished Research Efforts - “Delirium and Cognitive Outcomes”

2005 Elliot Newman Award for Excellence in Clinical Research (Awarded to a single investigator for the most important contribution to clinical research in the Department of Medicine at Vanderbilt University)

2006 American Society of Clinical Investigation (ASCI), awarded membership

2007 Association of Specialty Professors (ASP) in Geriatrics (awarded membership)

2008 Blue Ribbon Panel on VA Aging Research: To define VA aging research priorities and how to achieve them

2012 Grant W. Liddle Award for Outstanding Contributions to Clinical Research, awarded once every two years to one person from the medical center enterprise at Vanderbilt selected from among all departments by an independent committee

2013 Presidential Citation from The Society of Critical Care Medicine (SCCM) for outstanding contributions to the SCCM

2013 Member of the Association of American Physicians (AAP) (awarded membership)

2013 Franz-Koehler European Inflammation Award for outstanding efforts in the field of delirium-research, granted by the German Society of Anaesthesiology and Intensive Care Medicine, Berlin, Germany

2013 Myer Rosenthal Honorary Lecturer in Critical Care at Stanford University, Palo Alto, California

2014 Presidential Citation from The Society of Critical Care Medicine (SCCM) for outstanding contributions to the SCCM, awarded by Carol Thompson, PhD, FCCM (President)

2014 3rd Year Residents Favorite Attending Award. Residents vote on faculty who have made a significantly positive impact on them during their time at Vanderbilt. Notified by Thomas Atwater, Resident, Department of Medicine, VUMC

2014 4th Annual Henning Pontoppidan Harvard visiting Professorship Award by the Critical Care Center and Department of Anaesthesia, Critical Care and Pain Medicine at Massachusetts General Hospital (MGH), Harvard Medical School, Boston, Massachusetts

2015 Presidential Citation from The Society of Critical Care Medicine (SCCM) for outstanding contributions to the SCCM. Awarded by Craig M. Coopersmith, MD, FACS, FCCM, SCCM, President.

2016 Star Research Gold Medal Award by the Society of Critical Care Medicine for the abstract: “ICU Liberation: Using the ABCDEF Bundle to Improve Outcomes in 7 California Community ICUs,” February 21-24, 2016

2017 Grant W. Liddle, Professor of Medicine, was awarded to him and his group who have been conducting patient-oriented research at Vanderbilt University Medical Center for almost 20 years around the central theme of brain injury during and following critical illness

2018 2018 Therapeutic Frontiers Lecture Award Winner on behalf of the members and Board of Regents of the American College of Clinical Pharmacy (ACCP). Each year a distinguished scientist is invited to highlight important research that is extending pharmacotherapy into new frontiers at their annual meeting

2018 Outstanding Alumnus of 2018 Award, Tulane Medical Alumni Association, Tulane University, New Orleans, LA

2018 VUMC Biomedical Science Impact Award for significant contributions to the science of medicine

2019 Presidential Citation from The Society of Critical Care Medicine (SCCM) for extraordinary contributions of time, energy and resources to the SCCM

2019 Selected by Vanderbilt Internal Medicine Interns and Residents as one of their Top 10 Favorite Attendings among all Inpatient and Outpatient Clinical Rotations, awarded at End-of-Year Banquet, Vanderbilt University School of Medicine

2019 Two papers awarded by Vanderbilt University Medical Center peers for Top Ten Publications in the Vanderbilt Epidemiology Center of 2018:

* Lancet Respir Med. 2018 Mar;6(3):213-222
* N Engl J Med. 2018 Dec 27;379(26):2506-2516

2019 Excellence in Mentoring Award recognized at the 20th Anniversary of Visting Scholars Day, through the Edge of Scholars Team at Vanderbilt University School of Medicine. Dr. Ely is among only 20 Vanderbilt mentors who have guided five or more scholars with K or equivalent awards. Received for his excellence in mentoring early career faculty to research independence

2019 Evangelium Vitate Award for outstanding service to the pro-life movement. Presented by the Catholic Medical Association

2020 Asan Medical Center in Seoul, South Korea Letter of Appreciation in recognition of invaluable contributions as a lecturer on PADIS, the Importance of ICU Management.

2020 Selected as a Master of Critical Care Medicine (MCCM) on behalf of the Council of the Society of Critical Care Medicine (SCCM) and the American College of Critical Care Medicine (ACCM)

2022 American College of Critical Care Medicine Distinguished Investigator Award

NOTE: Dr. Ely has had several of his research publications singled out for re-publication or abstraction in scholarly collections and reviews of noteworthy accomplishment in science. These are noted in his bibliography.

*Extramural:*

2019 Award recipient for “Be Happy Haiti” foundation from the Haitian Community of Tennessee

**Teaching Activities:**

1992-1997 Instructor in Physical Diagnosis for Medical Students as part of the Bowman Gray School of Medicine Curriculum.

1995-1996 Drafted and edited the "Physical Diagnosis History and Physical Examination" template adopted by the Bowman Gray School of Medicine curriculum for use by all medical students.

1998-2011 Tutor in Physiology, Vanderbilt University School of Medicine

1998-2001 Regular lecturer for 2nd year medical course, "Transplantation," Vanderbilt University School of Medicine

1998-2013 Regular lecturer for 2nd year medical students physical diagnosis course: “Examination of the Chest," Vanderbilt University School of Medicine

1999-2013 Mentor and Tutor for Physical Diagnosis Course to Second Year Medical Students, Vanderbilt University School of Medicine

2002-2014 Regular lecturer on "Introduction to Clinical Research," and "Clinical Trial Design," 2nd year medical school IRB course, Vanderbilt University School of Medicine

2003-2014 Regular lecturer on "Introduction to Clinical Trials and Outcomes Research" 1st year medical students' course: "Introduction to Biomedical Research," Vanderbilt University School of Medicine

2003-2014 Mentor of medical students on their research projects that arise from the course "Introduction to Biomedical Research"

2008-2012 Regular lecturer for Fundamental Critical Care Support Course (FCCS)

2010-2015 Regular lecturer for “Spirituality in Medicine” elective for medical students

2017-Pres. Regular lecturer for Healthy Aging & Quality Dying Integrated Science course with Dr. Mariu Duggan

2019 Faculty lecturer for for Vanderbilt Student “Hotspotting” Elective. Hotspotting is an interprofessional course that extends its curriculum over a 12 month period to students of nursing, medicine, pharmacy, and social work. This course uses patient stories and an interactive teaching approach to develop an understanding about social determinants of health and how to care for complex patients as patient advocates, similar to the role of a community health worker or care navigator, elevating these aspects of training to the same level of importance as scientific facts and technical knowledge.

 Trainees:

 Cari (Loss) Levy, MD

 Position when training with Ely: Chief Resident

 Trained with Dr. Ely: 1998 - 2000

 Research Focus: End of Life care in Nursing Homes

 Current Position: Professor of Medicine, Division of Health Care Policy and Research, University of Colorado Health Science Center, Denver, CO

 Brenda Truman Pun, R.N, MSN, ACNP, DNP

 Assistant Professor of Nursing, Vanderbilt University School of Nursing

 Trained with Dr. Ely: 1998 - 2002

 Research Focus: ICU Delirium

 Current Position: Program Clinical Manager, Vanderbilt University Medical Center, Nashville, TN

 Eric Milbrandt, MD, MPH

Postdoctoral Fellow in Pulmonary and Critical Care Medicine

Trained with Dr. Ely: 1999-2003

Research Focus: Critical Care. Delirium and Sedation in Critically Ill.

Current Position: Physician – Munroe Professional Services Intensivist Program, Munroe Regional Medical Center, Ocala, FL

Richard Wall, MD, MPH

Postdoctoral Fellow in Respiratory Diseases, University of Washington, Seattle

Trained with Dr. Ely: 1999 - 2002

Research Focus: Patient Safety and Quality in health care settings, especially the ICU

Current Position: Medical Director – Critical Care Unit at Valley Medical Center, Renton, WA

James C. Jackson, PsyD

Assistant Professor of Medicine and Psychiatry, Division of Pulmonary Critical Care, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2000-Pres.

Research Focus: Cognitive Assessment of the ICU Patient and Long-Term Cognitive Impairment Follow-Up Investigations

Current Position: Associate Professor of Medicine and Psychiatry, Vanderbilt University, Assistant Director of the ICU Recovery Center at Vanderbilt, Nashville, TN

Margaret Pisani, MD, MPH

Professor of Medicine, Yale University

Trained with Dr. Ely: 2000 - 2005

Research Focus: Sleep in critically ill patients and its impact on delirium and other patient centered outcomes.

Current Position: Associate Professor of Medicine, Program Director of Pulmonary and Critical Care Medicine Fellowship, Co-Director of Sleep in the ICU Task Force, Yale University, New Haven, CT

 Jason Thomason, M.D., D-ABSM, FCCP

 Postdoctoral Fellow in Pulmonary and Critical Care Medicine

 Trained with Dr. Ely: 2001 - 2005

 Research Focus: Pulmonary and Critical Care Medicine

Current Position: Physician – Salem Chest Associates, Winston-Salem, NC

 Nicole Longanecker Charkoudian, MD

 Medical Student, Vanderbilt University School of Medicine

 Trained with Dr. Ely: 2001 – 2005

Recipient of the 2002-2003 AFAR Hartford Geriatric Medical Student Scholarship

Research Focus: Internal Medicine

Current Position: Hospitalist at New Hanover Regional Medical Center, Wilmington, NC

 Josh F. Peterson MD, MPH

Assistant Professor of Medicine, Vanderbilt University School of Medicine

 Trained with Dr. Ely: 2002 - 2005

Research Focus: Delirium in the ICU: modeling implementation of sedation protocol and delirium monitoring

Current Position: Associate Professor of Medicine, Associate Professor of Biomedical Informatics, Vanderbilt University Medical Center, Nashville, TN

 Pratik Pandharipande, MD, MSCI

Professor, Critical Care of Anesthesia, Vanderbilt University School of Medicine

 Trained with Dr. Ely: 2002 – 2014

Research Focus: Critical Care, Geriatric Assessment. Delirium in the ICU, and Alternative Sedation Strategies for Ventilated Patients

Current Position: Professor of Anesthesia and Surgery Chief, Division of Anesthesiology Critical Care Medicine, Vanderbilt University Medical Center, Nashville, TN

Timothy D. Girard, MD, MSCI

Associate Professor of Medicine

Trained with Dr. Ely: 2003 – Pres.

Research Focus: Geriatric Critical Care and Delirium/Mechanical Ventilation Weaning, ICU Sedation and Delirium

Current Position: Visiting Associate Professor, Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA

Rasheeda Stephens Hall, MD

Medical Student, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2004 - 2005

Research Focus:  Geriatric Nephrology

Current Position: Medical Instructor, Department of Medicine, Duke University School of Medicine, Durham, NC

 Lee Morrow, MD, MS

 Assistant Professor of Medicine (Pulmonary and Critical Care Medicine)

 Creighton University

 Trained with Dr. Ely: 2004 - 2006

Research Focus: Ventilator associated pneumonia, pulmonary fibrosis, pulmonary hypertension and lung transplantation

 Current Position: Professor of Medicine (Pulmonary and Critical Care Medicine)

 Creighton University, Omaha, NE

Stephen Cook, BA

Medical Student, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2005 - 2006

Research Focus: Treatment of Delirium

Current Position: Research, Duke University Medical Center, Durham, NC

Russell Miller, MD, MPH

Postdoctoral Fellow in Pulmonary and Critical Care Medicine

Trained with Dr. Ely: 2005 - 2007

Research Focus: Development of a Delirium Severity Scoring System

Current Position: Assistant Professor in Pulmonary and Critical Care Medicine, IMC Respiratory ICU and LDSH Pulmonary Department, Salt Lake City, UT

Rina Patel, MD

Medical Student, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2005 - 2007

Research Focus: Conducted International Survey of Clinical Management of Delirium in ICU patients

Current Position: Specializes in Diagnostic Radiology, Loyola University, Maywood, IL

Natalie Jacobowski, BS

Medical Student, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2005 - 2006

Research Focus:  End of Life in the ICU

Current Position: Psychiatrist, Vanderbilt University Medical Center, Nashville, TN

Paula L. Watson, MD

Assistant Professor of Medicine, Pulmonary, Critical Care and Sleep Medicine

Trained with Dr. Ely: 2006 - Pres.

Research Focus: Sleep Disturbances in the ICU, EEG Monitoring in the ICU

Current Position: Assistant Professor of Medicine, Pulmonary, Critical Care and Sleep Medicine, Vanderbilt University School of Medicine, Nashville, TN

Jin H. Han, MD, MSc

Assistant Professor of Emergency Medicine

Trained with Dr. Ely: 2006 - Pres.

Research Focus: Geriatrics, Delirium, Emergency Medicine

Current Position: Associate Professor of Emergency Medicine, Vanderbilt University School of Medicine, Nashville, TN

Max Gunther, PhD

Clinical Neuropsychologist

Trained with Dr. Ely: 2006 - 2010

Research Focus: MRI, fMRI, Designing and implementing neuroimaging research aimed at understanding ICU delirium and its associated long-term cognitive impairment

Current Position: Psychologist, Neuroimaging & Neuropsychology Research Instructor, Nashville VA, Nashville, TN

Jason B. Martin, MD

Postdoctoral Fellow in Pulmonary and Critical Care Medicine

Trained with Dr. Ely: 2007 - 2008

Research Focus: Using Information Technology to Modify Practice in Critical Care

Current Position: Director of ICU/Assistant Professor of Medicine – Meharry Medical College, Nashville, TN

Eduard Vasilevskis, MD, MSCI

Assistant Professor of Medicine, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2008 - Pres.

Research Focus: Better Understanding the relationship between quality/safety processes and acute brain dysfunction in the acute care setting

Current Position: Assistant Professor of Medicine, Vanderbilt University Medical Center, Nashville, TN

Brett A. English, PharmD, PhD

Research Fellow, Division of Allergy, Pulmonary and Critical Care Medicine, Vanderbilt University

Trained with Dr. Ely (clinical mentor), Jeff Conn, PhD (Professor of Pharmacology and Director of the Vanderbilt Program in Drug Discovery), Carrie Jones, PhD (Assistant Professor of Pharmacology and Director of *In-Vivo* Pharmacology, Vanderbilt Program in Drug Discovery)

Research Focus: Preclinical models of cognitive impairment and ICU-related delirium. Behavioral pharmacology.

Current Position: Associate Director, Clinical Development, Dart NeuroScience LLC, San Diego, CA

Heidi Smith, MD, MSCI

Assistant Professor of Pediatric Critical Care and Anesthesiology

Trained with Dr. Ely: 2009-Pres.

Research Focus: Pediatric Delirium, developer of the Pediatric CAM-ICU (PCAM)

Current Position: Assistant Professor of Anesthesiology, Vanderbilt University Medical Center, Nashville, TN

Mike Hooper, MD

Research Fellow, Division of Allergy, Pulmonary and Critical Care Medicine, Vanderbilt University

Trained with Dr. Ely: 2009 - 2010

Current Position: Assistant Professor of Medicine and Critical Care, Eastern Virginia Medical School, Norfolk, VA

Nathan Brummel, MD, MSCI

Postdoctoral Clinical Fellow in Pulmonary and Critical Care Medicine, Vanderbilt University School of Medicine

Trained with Dr. Ely: 2010 - Pres.

Research Focus: ICU delirium and ICU acquired physical and cognitive dysfunction, specifically the rehabilitation of these disorders and the role of early physical and cognitive therapy in their prevention and treatment.

Current Position: Clinical Instructor, Division of Pulmonary, Critical Care and Sleep Medicine. The Ohio State University ,Wexner Medical Center, Columbus, OH

Michele Balas, PhD, RN, APRN-NP, CCRN

Mentored by Dr. Ely: 2010 – Pres.

Research Focus: Interdisciplinary Nursing Quality Research Initiative (INQRI) on Delirium in the ICU

Current Position: Associate Professor in the College of Nursing, Ohio State University, Columbus, OH

Matthew Kirchner, PhD

Undergraduate Research Assistant

Trained with Dr. Ely: 2010 – 2011

Research Focus: Neurophysiology of Oxytocin and Vasopressin Neurons

Research Focus with Dr. Ely: Evaluating ICU Delirium

Current Position: Postdoctoral Research Fellow, Georgia State University

Malaz Boustani, MD, MPH

Associate Professor of Medicine, Indiana University School of Medicine

Mentored by Dr. Ely: 2010 - 2013, now collaborators

Research Focus: Pharmacological Management of Delirium

Current Position: Professor of Medicine, Indiana University School of Medicine, Research Director, Healthy Aging Brain Center, Indianapolis, IN

Dustin Hipp, MD, MBA

Vanderbilt University School of Medicine, Class of 2013

Trained with Dr. Ely: 2011 - 2013

Current Position: Vanderbilt University Medical Center, Department of Pediatrics, Assistant Professor of Pediatrics, Critical Care Medicine

Andrew M. Naidech, MD MSPH

Assistant Professor of Neurology, Neurosurgery and Anesthesiology, Northwestern University

Mentored by Dr. Ely: 2011 – Pres.

Research Focus: Evaluation of the importance of delirium symptoms in neuro-ICU patients in terms of regions of injury, prognosis, and potential interventional options.

Current Position: Associate Professor, Neurology, Anesthesiology, Medical Social Sciences, Neurological Surgery and Preventive Medicine, Northwestern University, Evanston, IL

Jessica Adams Wilson, MD, MSCI

Assistant Professor Endocrinology, Department of Medicine

University of Pennsylvania, Philadelphia, Pennsylvania

Mentored by Dr. Ely: 2011 – Pres.

Babar Khan, MD

Physician-Pulmonary/Critical Care, Indiana University Health

Trained with Dr. Ely: 2012 – Pres.

Research Focus: To improve delirium recognition and care, numerous serum biomarkers have been investigated as potential tools for risk stratification, diagnosis, monitoring, and prognostication of delirium

Current Position: Associate Professor of Medicine, Indiana University School of Medicine, Indianapolis, IN

Mary Elizabeth Wilcox MD, FRCPC, MPH
Research Fellow, Interdepartmental Division of Critical Care Medicine, University of Toronto
Mentored by Dr. Ely: 2012 – Pres.
Research Focus: To identify novel biomarkers (e.g. ApoE e4) and risk factors (e.g. sleep disruption) for post-critical illness cognitive impairment, and develop strategic interventions to reduce risk in vulnerable ICU survivors.

Current Position: Critical Care Faculty, University of Toronto, Toronto, Ontario

L. Dupree Hatch, MD

Clinical Fellow in Neonatal-Perinatal Medicine

Trained with Dr. Ely: 2013 – Pres.

Research Focus: Quality Improvement in the Intensive Care Setting, Neonatal Endotracheal Intubation

Current Position: Assistant Professor, Division of Neonatology, Vanderbilt School of Medicine, Nashville, TN

April 2018 – Dupree Hatch was awarded one of the Dodd Scholars slots. The committee was most impressed by his application, his promise for success, and to Dr. Ely as his mentor. Bill Cooper, MD, MPH, Associate Dean of Faculty Affairs presented the information.

Brett Norman, MD

Clinical and Research Fellow in Pulmonary and Critical Care Medicine

Trained with Dr. Ely: 2013 – Pres.

Research Focus: Health Policy in Critical Care

Current Position: Assistant Professor, Pulmonary & Critical Care Medicine, Meharry Medical College, Nashville, TN

Jo Ellen Wilson, MD, MPH., PhD

Psychosomatic Medicine Fellow

Trained with Dr. Ely: 2013 – Pres.

Research Focus: Catatonia in the Critical Care Setting

Current Position: Assistant Professor of Psychiatry, Vanderbilt University Medical Center and VA Quality Scholar at Tennessee Valley Health Services (TVHS), Nashville, TN

Stephen Patrick, MD, MPH, MS

Scholar, Vanderbilt Center for Health Services Research

Trained with Dr. Ely: 2013 – Pres.

Research Focus: Neonatal Abstinence Syndrome, Medicaid policy, Health Services Research in Neonatology

Current Position: Associate Professor of Pediatrics Division of Neonatology, Vanderbitl University Medical Center, Nashville, TN

Justin Banerdt, MD, MPH

Vanderbilt Medical Student

Trained with Dr. Ely: 2013 – Pres.

Research Focus: Zambia Research – Implementing the ABCDEF Bundle in an African ICU: Improving Outcomes for Critically Ill Patients in Zambia.

Vanderbilt University School of Medicine

Current Position: Student, Vanderbilt University School of Medicine, Nashville, TN

Annachiara Marra, MD, PhD

Trained with Dr. Ely: 2015 – Present

Research Focus: Role of EEG as a biomarker of delirium

Current Position: Anesthesiologist and intensivist at the University of Naples “Federico II”

Ricky C. Shinall, Jr., MD, PhD

Assistant Professor of Surgery

Trained with Dr. Ely: 2016 – Pres.

Research Focus: Palliative Care in Surgical Patients, Health Services Research in Palliative Care

Current Position: Assistant Professor, Hospice and Palliative Medicine, Division of General Internal Medicine and Public Health, Vanderbilt University Medical Center, Nashville, TN

Mina Nordness, MD

Title: Surgical Resident in Research

Trained with Dr. Ely: 2016 – present

Research Focus: Cognitive Impairment after Traumatic Injury and Critical Illness, Cognitive Rehabilitation, Survivorship after the ICU

Current Position: Surgical Resident in Research, Vanderbilt University Medical Center, Nashville, TN

Matthew Mart, MD

Clinical Fellow - Pulmonary Disease and Critical Care

Trained with Dr. Ely: 2017 - Present

Research Focus: Cardiorespiratory Fitness and Cognitive Impairment after Critical Illness; Long-term Outcomes of ICU Survivors

Current Position: Clinical Fellow - Division of Allergy, Pulmonary, and Critical Care Medicine, Vanderbilt University Medical Center, Nashville, TN

Christina Boncyk, MD

Assistant Professor

Trained with Dr. Ely: 2017 – Present

Research Focus: Impact of Inappropriate Prescribing on Survivors of Critical Illness Current Position: T32 Research Fellow, Vanderbilt University Medical Center, Nashville, TN

Shawniqua Williams Roberson, MEng., MD

Assistant Professor

Trained with Dr. Ely: 2018 – Present

Research Focus: Neurophysiology of Consciousness and Cognition

Current Position: Assistant Professor of Neurology, Vanderbilt University Medical Center, Nashville, TN

Sarah Welch, DO, MA

Title: Resident Physician, Department of Physical Medicine and Rehabilitation

Trained with Dr. Ely: 2018 – Present

Research Focus: Rehabilitation, mobility, cognition, transitions of care

Current Position: Resident Physician, Vanderbilt University Medical Center, Nashville, TN

Leanne Boehm, PhD, RN, ACNS-BC

Title: Assistant Professor

Trained with Dr. Ely: 2018 - Present

Research Focus: Implementation of multidisciplinary evidence-based practices in critical care and ICU recovery services.

Current Position: Faculty, Vanderbilt University School of Nursing, Nashville, TN

**Other Significant Activities:**

Haiti Medical trips with Visitation Hospital Foundation:

Visitation Clinic, Petite Riviere de Nippes

Petite Guave

LaVallee/Jacmel

Master's Swimming

Triathlons (Olympic, Half-Iron, full Ironman age group competition)

**Research Program:**

Dr. Ely’s research has focused on improving the care and outcomes of critically ill patients with ICU-acquired brain disease (manifested acutely as delirium and chronically as long-term cognitive impairment or an acquired/accelerated dementia). Dr. Ely founded the ICU Delirium and Cognitive Impairment Study Group which later became the Critical Illness, Brain Dysfunction, and Survivorship (CIBS) Center ([www.icudelirium.org](http://www.icudelirium.org)).  His research team developed one of the two primary tools (CAM-ICU, translated into 35+ languages) by which delirium is measured in ICU-based trials and clinically at the bedside in ICUs worldwide. Dr. Ely has been continuously funded (NIA and/or VA) since 2001 and coordinated critical care trials of >1,000 patients via our Vanderbilt Coordinating Center (VCC) for Sepsis/ARDS and now in his own coordinating center for Delirium and Cognitive impairment. This work has precipitated more than 450 peer-reviewed publications and over 50 published book chapters and editorials.

Original Science Investigations

1 R61 HL142697-01 04/01/20 – 03/31-21

NIH/NHLBI $494,141

Prinicpal Investigator: Smith

Role of Dr. Ely: Co-Investigator

“Maximizing Efficacy of Targeted Sedation and Reducing Neurological Dysfunction in Mechanically Ventilated Infants and Children Study (mini-MENDS)”

1 R01 AG056742-01 01/01/20 – 12/31/20

NIA $498,990

Principal Investigator: Han

Role of Dr. Ely: Co-Investigator

“Cognitive Outcomes in the Pragmatic Investigation of Optimal Oxygen Targets (CO-PILOT) Trial”

1 R01 AG065249-01 10/01/19 – 09/30/23

NIA $1,783,415

Principal Investigator: Han

Role of Dr. Ely: Co-Investigator

“Early Cognitive Training and Rehabilitation to Prevent Cognitive Decline in Older Hospitalized Adults with Delirium”

VA I-01 (MERIT) RX002992 10/01/19 – 09/30/23

Principal Investigator: Ely/Patel $1,044,206 (total) [Percentile: 5%]

“Returning to Everyday Tasks Utilizing Rehabilitation Networks-III Pilot Randomized Clinical Trial (RETURN-III Pilot RCT)”

Millions of patients survive care in medical and surgical Intensive Care Units (ICUs) every year, only to suffer from a new or accelerated dementia-like process, called post-ICU long-term cognitive impairment (ICU-LTCI). ICU-LTCI causes considerable problems with personal relationships, return to work, and everyday tasks, such as managing medicines and money. No treatment for these patients is currently available. Technology using computerized cognitive rehabilitation could improve ICU-LTCI by harnessing the healing potential of the brain (i.e., neuroplasticity). This intervention is scalable, portable, and economical. We will evaluate the effectiveness of computerized cognitive rehabilitation in a randomized controlled trial of 160 VA patients with ICU-LTCI. We hypothesize that this intervention could improve cognition, and brain structure shown by MRI. This research has high potential to influence rehabilitation strategies for Veteran and civilian ICU survivors.

1 R01 NR017622-01A1 09/24/19 – 07/31/22

NIH $1,488,433

Principal Investigator: Leung

Role of Dr. Ely: Co-Investigator

“The Role of Genomics in Postoperative Delirium and Sedation”

Dr. Ely and his team will collaborate with Dr. Leung to coordinate the transfer of detailed phenotypical data and have DNA samples. In addition, he will work closely with Dr. Leung to identify the developmental cohort from both the Vanderbilt and UCSF sites for aim 1.  He will also collaborate with Drs. Leung, Kroetz, and Witte to develop the prediction model described in aim 2.  He will be involved in all aspects of the final analysis and dissemination of the results for presentation and manuscripts preparation.

1 R01 AG061384-01 02/15/19 – 11/30/22

NIH/NIA

Principal Investigator: Colantuoni

Role of Dr. Ely: Consultant

“Improving the statistical design and analysis of randomized controlled trials of delirium prevention and treatment for critically ill older adults”

The grant will conduct an evaluation of how the endpoint of delirium is operationalized (e.g. duration of delirium, delirium incidence, delirium free days) and analyzed in RCTs of preventative and therapeutic interventions in critically ill adults, with special attention to the competing risks of ICU discharge and death.  First, I will be conducting a systematic review of delirium endpoint definitions and analytic approaches followed by simulation studies (based on patterns of delirium, ICU discharge and death observed in completed trials) to highlight pros/cons of the identified endpoint definitions and analyses.  Then I will be extending some existing statistical methods (joint recurrent event in the presence of a single competing event) to allow for both ICU discharge and death as competing events.  Lastly, more simulation studies in order to make overall recommendations on which endpoint definitions and analyses are appropriate under various conditions in the trial (e.g. what is optimal the treatment doesn't affect mortality, what is optimal if the treatment does affect mortality).

1 R01 HL146781-01 05/01/19 – 04/30/20

NIH/NHLBI $9,000 (Ely)

Principal Investigator: Balas

Role of Dr. Ely: Co-Investigator

“Determinants of Implementation Success Coordinating Ventilator, Early Ambulation and Rehabilitation Efforts in the ICU (DISCOVER-ICU)”

The proposed research is relevant to public health because it supports the development and testing of multi-level implementation strategies to improve adoption of intensive care unit sedation, mobility, and symptom management practices that improve physical and cognitive outcomes in the millions of adults admitted to critical care units annually. The proposed research is also congruent with the National Heart, Lung, and Blood Institute’s objective of optimizing clinical and implementation research to improve health and reduce disease.

1 R01 AG058639-01A1 04/15/19 – 01/31/24

NIA $2,357,987

Principal Investigator: Ely

“BRAIN-ICU-2 Study: Bringing to Light the Risk Factors And Incidence of Neuropsychological Dysfunction (Dementia) in ICU Survivors, 2nd Study”

Annually around the world, millions of old (and even young) people cared for in Intensive Care Units (ICUs)suffer through a period of confusion or delirium. These ICU survivors have new life-altering, long-lasting, and often permanent cognitive impairment, which looks like Alzheimer’s disease and/or related dementias. This BRAIN-ICU-2 Study will define the relationship between ICU delirium and dementia, will explain this unfortunate and life-changing brain damage in ICU survivors, and will pave the way for preventive programs, strategic rehabilitation, and targeted future interventions.

1 R01 HL146781-01 03/01/19 - 02/28/22

NHLBI $1,151,920

Principal Co-Investigators:Vasilevskis, Pun, Harmon

Role of Dr. Ely: Consultant

“Determinants of Implementation Success Coordinating Ventilator, Early Ambulation and Rehabilitation Efforts in the ICU (DISCOVER-ICU) Study”

The proposed research is relevant to public health because it supports the development and

testing of multi-level implementation strategies to improve adoption of intensive care unit sedation, mobility, and symptom management practices that improve physical and cognitive outcomes in the millions of adults admitted to critical care units annually. The proposed research is also congruent with the National Heart, Lung, and Blood Institute’s objective of optimizing clinical and implementation research to improve health and reduce disease.

1 R01 AG061161-01 01/01/19 – 12/31/23

NIA $498,990

Principal Investigator: Hughes

Role of Dr. Ely: Co-Investigator

“Cognitive and Physical Exercise to Improve Outcomes after Surgery in the Elderly”

Canadian Institutes of Health Research (CIHR)

Principal Investigator: Fiest 2019-2023

Role of Dr. Ely: Co-Investigator $1,107,400

“Co-designing a Patient and Family Caregiver-Oriented Transitions in Care Bundle.”

Moving from the ICU to other parts of the hospital can be confusing and stressful for a patient and family because there will be new doctors and nurses and it will look and work differently than the ICU. The goal of this study is to develop an evidence-informed bundle to transform the care of critically ill patients during and after their intensive care unit stay. This tool will teach patients and families about the care a patient got in the ICU, the care the patient needs after the ICU, and medical problems the patient may still have. Once built, this tool will make the care that a patient receives better and more adapted to that patient’s needs.

1 R01 HL141567-01A1 07/01/18 – 06/30/21

NIH/NHLBI $623,182

Principal Investigator: Han, Jackson

Role of Dr. Ely: Co-Investigator

“Vitamin D to Improve Outcomes by Leveraging Early Treatment: Long-term Brain Outcomes in Vitamin D Deficiency Patients (VIOLET-BUD)”

This randomized control trial to evaluate the effects of Vitamin D treatment on cognitive outcomes among critically ill patients at risk for ARDS and have Vitamin D deficiency (plasma 25-hydroxyvitamin D < 20 ng/ml). Our trial, entitled Vitamin D to Improve Outcomes by Leveraging Early Treatment: Long-term Brain Outcomes in Vitamin D Deficient Patients (VIOLET-BUD), has the following specific aims: (1) Determine if early administration of a single, high dose (>540,000 IU), enteral vitamin D3 (cholecalciferol) treatment improves 6-month global cognition and executive function as determined by comprehensive neuropsychological testing compared with placebo; and (2) Determine if serum biomarkers of systemic inflammation (IL-6, TNF-, IL-1C-reactive protein [CRP], endothelial dysfunction (E-selectin), and BBB injury (S100B) are associated with poorer 6-month global cognition and executive function and determine if they are mediators for any relationships observed between Vitamin D treatment and these cognitive outcomes.

1 R01 AG056368-01A1 7/01/18 – 06/30/21

NIA $759,695

Principal Investigator: Dae Hyun Kim

Role of Dr. Ely: Co-Investigator

“Epidemiology and Risk of Antipsychotic Use in Hospitalized Elderly with Delirium”

This study proposes to determine the risk of adverse clinical events associated with off-label antipsychotic drug use and to identify the determinants of hospital-level variations by analyzing national inpatient databases.

Project Grant 2017 2018 – 2021

University of Calgary $428,400

Principal Investigator: Fiest

Role of Dr. Ely: Co-Investigator

“Family-administered delirium detection in the critically ill”

This study will validate two family-administered delirium detection tools developed outside of the ICU: the FAM-CAM and the Sour Seven. The results of the family-administered tools will be compared to a reference standard assessment completed by trained ICU research nurses. Focus groups will be conducted following the validation to explore nurse, clinician, patient, and family perceptions of family involvement in delirium detection.

1 UL1 TR 002243-01 06/01/17 – 02/28/22

NIH/NCATS $5,303,606 (current year direct)

Program Director: Bernard

Role of Dr. Ely: Domain Specialist, Critically Ill Populations

“Vanderbilt Institute for Clinical and Translational Research (VICTR)”

The Vanderbilt Institute for Clinical and Translational Research (VICTR) is a highly functional

and integrated clinical and translational (C&T) research infrastructure that has raised the quality

and scientific rigor of the research conducted at Vanderbilt and longstanding partner Meharry,

the nation’s oldest historically black academic health science institution. *VICTR will contribute to the mission of the CTSA program while leveraging unique resources and expertise within*

*VICTR’s Hub*. Dr. Ely will provide his guidance with respect to critically ill populations, in terms of recruitment and enrollment and to be available to provide expert guidance in the event questions arise regarding integrating special populations.

Clinical Research Agreement 03/01/17 – 02/28/20

Dr. Franz Kohler Chemie GMBH - Germany $260,917 (total years direct cost)

Principal Investigator: Ely

“Cholinesterase Activity and DeliriUm during Critical illness Study (CADUCeuS)”

A geriatric research (clinical trial?) conducted by E. Wesley Ely and Christopher G. Hughes from the Departments of Medicine and Anesthesiology at Vanderbilt University Medical Center and from the Geriatric Research, Education and Clinical Center (GRECC) Service, Department of Veterans Affairs Medical Center. This main objective of this study is to examine whole blood acetylcholinesterase (AChE) and buyrylcholinesterase (BuChE) activities as biomarkers for delirium during critical illness and for long-term cognitive impairment in survivors of critical illness. This will be accomplished within the framework of the ICU Delirium and Cognitive Impairment Study Group’s ongoing clinical trials in critically ill patients, including the MIND-USA Study, MENDS 2 Study, and MOSAIC Study.

1 R24 AG 054259-01 (Ely) 09/01/16 – 08/31/21

NIH/NIA – Sub. with Harvard $13,052

Principal Investigator: Inouye

Role of Dr. Ely: Site PI

“Network for Investigation of Delirium Across the U.S. (NIDUS)”

This grant will create a network of investigators around the country focusing on Delirium and educational issues. Sponsored by the NIA, the overall goal is to advance the field of delirium through this research and educational program to ensure future advances for vulnerable patients succumbing to Delirium across the treatment spectrum.

1 R01 GM 120484-01A1 (Patel) 09/01/16 – 08/31/21

NIH/NIGMS $400,000

Principal Investigator: Patel

Role of Dr. Ely: Co-Investigator

“The INSIGHT-ICU Study: Illuminating Neuropsychological Dysfunction and Systemic Inflammatory Mechanisms Gleaned after Hospitalization”

Both primary and secondary brain injury are associated with Long-term cognitive impairment (LTCI), yet they have not been studied together. HYPOTHESIS 1: delirium duration is an independent risk for the severity of LTCI, controlling for primary brain injury, polytrauma, and critical illness. AIM 1 will address this hypothesis by defining the independent risks of primary and secondary brain injury on the severity of LTCI among 900 trauma ICU survivors. HYPOTHESIS 2: hospital discharge plasma biomarkers of neuroinflammation and endothelial dysfunction will be independent risks for the severity of LTCI. AIM 2 will address this hypothesis by delineating the role of plasma inflammatory biomarkers on the severity of LTCI among 900 trauma ICU survivors.

NIH R01NR016702 01/2017-12/2018

Principal Investigator: Munro $509,788

Role of Dr. Ely: Consultant

“[Reorientation Intervention for Delirium in the ICU](https://taggs.hhs.gov/Detail/AwardDetail?arg_AwardNum=R01NR016702&arg_ProgOfficeCode=136)”

The primary specific aim of the project is to test the effect of the Family Automated Voice Reorientation (FAVoR) intervention on delirium in critically ill, mechanically ventilated adults during hospitalization in the ICU. Secondary aims are to: (1) explore if the effect of FAVoR on delirium is mediated by sleep, (2) explore if selected biobehavioral factors may potentially moderate the effects of FAVoR on delirium, and (3) examine the effects of FAVoR on short term (immediately after ICU discharge) and long term (1 and 6 months after hospital discharge) outcomes, including cognitive function and patient-reported health status. A prospective, randomized, experimental design will be used to accomplish the specific aims.

CIHR SPOR Grant 03/01/17 – 03/01/18

Principal Investigator: Fiest $49,913

Role of Dr. Ely: Co-Applicant

“Delirium Assessment in the Critically Ill: A Patient and Family-Centered Approach”

This project aims to determine if family members of critically ill patients can identify delirium using two tools previously validated outside of the intensive care unit. The feasibility and acceptability of this process will be explored among patients, family members, nurses, and clinicians.

Pilot Study Grant 2017 – Faculty of Health 11/29/16 - 11/28/18

University of Technology, Sydney, Australia $200,000

National Breast Cancer Foundation (NBCF)

Principal Investigator: Hosie

Role of Dr. Ely: Co-Investigator

“Phase II (pilot) cluster randomized controlled trial of a multi-component multi-disciplinary non-pharmacological intervention to prevent delirium for hospitalised people with advanced breast cancer”

5 R01 HL 111111-05 07/01/12 - 06/30/18

Principal Investigator: Pandharipande $2,869,750

Co-Investigator: Ely

NIH/NHLBI

“Altering Sedation Paradigms to Improve Brain Injury and Survival in Severe Sepsis” (MENDS II Trial)

Data indicate that GABA-ergic and alpha-2 agonist agents have very different effects on innate immunity, apoptosis, arousability, and respiratory drive. MENDS and SEDCOM provided guidance to clinicians when selecting between sedatives, yet no trial has explored the mechanisms underlying the differences in outcomes MENDS II will randomize patients to receive either dexmedetomidine or propofol to determine whether an alpha-2 agonist vs. a GABA-ergic agent may improve brain function, time on mechanical ventilation, and survival for septic mechanically ventilated patients.

6 R01 AG 035117-06 03/15/11 - 02/28/19

NIH/NIA $6,756,337 (Total Direct)

Principal Investigator: Dr. Ely

“The MIND-USA Study”

Millions of critically ill patients every year develop confusion (delirium) while in Intensive Care Units (ICUs), and though a large portion of these patients go undetected and untreated, ICU teams most often use typical and atypical antipsychotics to treat such patients despite no support from placebo-controlled trials.  The MIND-USA trial will be the first study ever to answer the question of whether haloperidol or an atypical antipsychotic (ziprasidone) is better or worse than a placebo as treatment for delirious medical and surgical ICU patients.  This investigation will determine if either haloperidol or ziprasidone shorten delirium duration, improve survival, affect length of stay in the hospital, or improve long-term brain function and quality of life at 1-year follow-up.

GRECC (Geriatric Research Education Clinical Center) 12/01/99 - 09/30/18

Department of Veterans Affairs (VA) $3,363,616 (FY16)

Program Director: Dittus

Role of Dr. Ely: Co-Investigator and Associate Director of Research (ADR)

The goal of this project is to establish a geriatric research, education, and clinical center within the Nashville VAMC with impact throughout VISN 9. Dr. Dittus is the overall program director.

VA T21 Project 10/01/12 – 09/30/14

Principal Investigator: Ely $200,000

“IMproving Post-Acute Care Transitions (IMPACT) Study”

An evidence-based, innovative intervention to improving transitions of older patients from ICU and hospital setting for acute illnesses into post-acute care facilities in order to reduce

rehospitalization and nursing home placement.

1 R01 AG 027472-01A1 08/01/06 - 06/30/11

NIH NIA $2,467,325 (total direct)

Principal Investigator: Ely

“The BRAIN ICU Study”

Major threats to recovery for ICU survivors are acquired cognitive and functional decline that can last years, especially in older patients. To pave the way for future preventive and interventional strategies, the BRAIN ICU cohort will determine to what degree delirium and potent sedatives and analgesics are risk factors for long-term cognitive impairment and functional decline following critical illness.

Merit Review Award 10/01/06 - 06/30/10

Department of Veterans Affairs $589,745

Principal Investigator: Ely

"MIND ICU Study: Delirium and Dementia in Veterans Surviving ICU Care"

The ramifications of ICU-accelerated dementia and deficits in HRQL are particularly critical for the Veterans Administration, considering that veterans over the age of 85 are expected to triple over the next 5 years, a growth peak 20 years in advance of that projected for the general U.S. population.  This investigation will determine if delirium and psychoactive drug exposure are independent determinants of long-term cognitive impairment and quality of life in veterans with interactions being considered for post traumatic stress disorder and baseline neuropsychological deficits such as mild cognitive impairment or early dementia.  The Veterans Administration is a unique site in which to conduct such a cohort study in that many veterans will have undergone pre-ICU neuropsychological testing with which we can compare post-ICU testing results.

Dissemination Grant 2007 – 2008

Alzheimer’s Society UK $35,000

“Delirium is Bad, What’s the Confusion?”

Principal Investigator: Ely

The Alzheimer’s Society UK provided ₤18,000 (around $35,000) to highlight the problem of delirium in critically ill patients, including the association with long-term cognitive impairment. This included a lecture tour by Dr. Wes Ely, followed by a project on the monitoring and treatment of delirium in UK critical care units.

Aspect Medical System 05/01/07 – 06/30/08

Investigator Initiated Unrestricted Grant $262,000

Co-Principal Investigator: Watson

Co-Principal Investigator: Ely

“Sedation Optimization via Monitoring Neurological Status”

This study is a randomized control trial investigating the effect on clinical outcomes of using the bispectral index monitor to prevent over-sedation in mechanically ventilated patients. In addition, this study will characterize polysomnography findings at various BIS levels.

Paul B. Beeson Rehabilitation Grant 08/07 - 08/08

Principal Investigator: Ely $400,000

Principal Investigator: Hoenig

“The Cognitive and Physical Rehabilitation of Survivors of Critical Illness: a randomized clinical trail of in-home rehabilitation”

This project is a randomized, controlled trial to determine if cognitive and physical rehabilitation initiated at hospital discharge and implemented using in-home visits and tele-technology will result in improved recovery of neuropsychological and physical function, and quality of life.

Research Grant 08/01/03 - 07/31/07

St. Thomas Foundation $376,438 - No Salary for Dr. Ely

Principal Investigator: Ely

“ABC Trial (Awakening and Breathing Controlled)”

The purpose of this project is to evaluate a novel protocolized approach to care of mechanically ventilated patients that incorporates state of the art concepts for ventilator weaning.

Research Grant 06/31/06 – 06/31/08

Orthopaedic Research and Education Foundation $100,000

Principal Investigator: Obremskey

Role of Dr. Ely: Co-Investigator

“Long Term Cognitive Deficits in Trauma patients without Head Injury”

Multiple trauma patients without evidence of closed head injury (CHI) on computed tomography, a group that numbers in the millions annually in the U.S. alone, are considered to be low risk (or “at little risk”) for acquired neuropsychological dysfunction, yet we have

found recently in a retrospective investigation that nearly 60% of such patients have long-term cognitive impairment up to one year following their injury.  These observations should be confirmed prospectively to determine the magnitude with which such acquired deficits affect patients’ recovery and quality of life, as well as to determine risk factors that might direct orthopedic surgeons’ future management decisions acutely and on patient follow-up.

5 U18 HS 15934-02 07/01/05 - 06/30/07

Agency for Health Care Research and Quality $599,734

Principal Investigator: Speroff

Role of Dr. Ely: Co-Investigator

“Safe Critical Care: Testing Improvement Strategies”

Project aims are to: 1) Implement a campaign for Improving Critical Care (blood-stream infections and ventilator-associated pneumonia) as part of the IHI 100,000 Lives Campaign, 2) Develop tool kits for reducing blood-stream infections and ventilator-associated pneumonia, 3) Conduct a randomized controlled trial to compare the effectiveness of a Collaborative versus Campaign and Tool Kit strategy for implementing an improvement initiative, and 4) Examine the organizational and provider factors that contribute toward and enable successful performance improvement.

5 K23 AG 01023-05 08/01/01 - 07/31/06

NIH/NIA $578,000 (total direct) salary award

Principal Investigator: Ely

“Cognitive Impairment in the ICU: Evaluation and Outcomes”

This study examines the multiple risk factors for cognitive impairment in ICU patients and their interactions with recovery from acute respiratory failure, as well as protocol development to optimize the delivery of psychoactive medications in conjunction with weaning from mechanical ventilation.

Investigator Initiated Unrestricted Grant 04/01/04 - 04/01/06

Pfizer Pharmaceutical, Inc. $154,449

Principal Investigator: Ely

“Ziprasidone for the Treatment of Delirium in the ICU"

This investigation will be the first placebo controlled trial of delirium prevention/treatment, in or out of the ICU.  The specific aims are to determine whether antipsychotics reduce the incidence and duration of delirium in high risk mechanically ventilated patients and to determine whether antipsychotics reduce the severity of neuropsychological dysfunction at hospital discharge in high risk mechanically ventilated patients.

Grant No. 10016949 07/01/04 - 06/30/05

Eli Lilly and Company $7,143

Principal Investigator: Ely

"Regional Educational Initiative on Implementation of Sepsis Therapy: Evidence Based Sepsis Dozen"

This is an unrestricted education grant which is an outgrowth of Vanderbilt's mission to improve the educational caliber for all physicians and nurses. This program is implemented due to the concern that therapy for severe sepsis is not being optimized. This program will educate practicing physicians and nurses in Nashville to a new concept in critical care shown to improve outcomes for severe sepsis patients.

Investigator Initiated Unrestricted Grant 01/01/04 – 12/31/05

Hospira Laboratories $471,005

Principal Investigator: Ely

“Achieving goal-directed sedation in the Medical ICU:  a comparison of dexmedetomidine versus a standard sedative strategy”

This study is a prospective investigation in which patients will be randomized to either of two sedation strategies.  The aim of this study is to see whether dexmedetomidine provides sedation as well as lorazepam. Additionally patients in the ICU often have severe confusional states (delirium), which may be related to the sedatives that they are on. Our second aim of the study would like to look at the occurrence of delirium in patients sedated with dexmedetomidine versus lorazepam.

Research Grant 07/01/00 - 06/30/02

AFAR/Merck $60,000

Principal Investigator: Ely

“Delirium in the ICU: Measurement and Outcomes”

This project obtained funds to enhance and support training for the P.I.’s career as an independent investigator in the specific area of improved care for the elderly in the ICU. This funding will enable the awardee to conduct studies under expert supervision designed to improve the care of mechanically ventilated patients and to evaluate other aspects of elderly patient evaluation and treatment in the ICU.

FIK-MC-EVBC (Bernard) 11/01/00 - 10/31/02

Eli Lilly $613,215

Role of Dr. Ely: Co-Investigator

“Treatment with Recombinant Human Activated Protein C in Severe Sepsis”

The primary objective of this study is to make rhAPC available for the treatment use of severe sepsis, a life-threatening condition, in adult and pediatric patients. The secondary objective is to obtain additional safety data on rhAPC in adult and pediatric patients with severe sepsis.

The Paul Beeson Physician Faculty 07/01/01 - 06/30/02

American Federation for Aging Research (AFAR) $437,616 (Scholarship Award)

Principal Investigator: Ely

“Risk Factors and Prognosis of Delirium in Intensive Care Unit Patients”

This is a career development award. The research project proposed has three specific aims: 1) To determine the frequency of delirium and its association with clinical outcomes in patients recovering from critical illnesses; 2) to determine if sedative and analgesic dose and pharmacological inter-individual variability have an independent role in the development of persistent delirium; 3) to determine factors associated with neuropsychological deficits in older persons at 6 months following their ICU stay.

ASPECT 990321 03/01/00 - 02/28/01

ASPECT Medical Systems, Inc. $57,250

Principal Investigator: Ely

“A Prospective Investigation of Intensive Care Patients: The Development of Delirium and Its Associated Outcomes”

This project sought to 1) develop and validate a systematic approach to measuring cognitive impairment in mechanically ventilated patients; 2) determine the frequency of cognitive impairment and its association with clinical outcomes in patients recovering from critical illnesses; 3) determine if the dose of sedatives and analgesics has an independent role in the development of persistent cognitive impairment.

**Projects as Mentor to Junior Faculty (no salary)**

VFRS Award 07/01/17 – 06/30/20

Principal Investigator: Wilson

Role of Dr. Ely: Mentor

“Delirium and Catatonia (DeCat) Prospective Cohort Investigation: Exploring Risk Factors and Clinical Outcomes in Critical Illness”

This study will aim to use the DeCat (Delirium and Catatonia in Critical Illness) Prospective Cohort to explore the following aims: 1) To describe the predictive risk factors for catatonia, 2) To determine the interaction of catatonia and delirium on cognitive and psychological sequelae of critical illness, 3) To identify if catatonia is a risk factor for mortality in critically ill patients.

5 K76 AG 054864-02 09/30/16 – 05/31/21

NIH/NIA $799,995

Principal Investigator: Brummel

Role of Dr. Ely: Mentor

Nearly two-thirds of all patients hospitalized for a critical illness are age 65 years or older. While these patients are more likely than ever to survive their illness, up to 75% will suffer with newly acquired or worsened disabilities. Thus, there is a looming and under-addressed public health problem that is emerging in the form of large and growing numbers of survivors of a critical illness with life-altering disabilities. A better understanding of the underlying risk factors for disability following critical illness is greatly needed. The Specific Aims of the proposed research are: a) To test the hypothesis that greater activity during critical illness will be independently associated with a lower prevalence, less severity and shorter duration of disability in activities of daily living and mobility at 3- and 12-month follow-up, b) To test the hypothesis that greater activity during critical illness will be independently associated with better physical function and cognitive function at 3- and 12-month follow-up, and c) To test the hypothesis that greater physical activity during critical illness will reduce biomarkers of systemic inflammation and coagulation at hospital discharge.

Vanderbilt Faculty Research Scholars 07/01/17 – 06/30/18

Career Development Award (KL2, CTSA) $85,000 (salary) $25,000 (research)

Principal Investigator: Wilson

Co-Applicant: Ely

“Operationalizing Catatonia: Exploring Risk Factors and Outcomes”

This career development award aims to explore unique clinical and demographic risk factors for catatonia in critical illness. This project aims to explore potential morbidity (depression, post-traumatic stress disorder, long-term cognitive impairment) as well as mortality from the independent exposure of catatonia as well as the joint exposure of catatonia plus delirium in critical illness.

5 K23 AG 032355-05 07/01/10 – 06/30/15

NIH/NIA $745,065

Principal Investigator: Han

Role of Dr. Ely: Mentor

“Delirium in the Emergency Department: Novel Screening and Natural Course”

This 5-year study will focus on a cohort of older emergency department (ED) patients. The first phase of this study will seek to validate a novel delirium surveillance system specifically tailored for the ED setting by validating two brief delirium assessments. The second phase will be devoted investigated ED delirium’s natural course and its relationship to 6-month mortality and functional status. This study will attempt to identify modifiable risk factors, which will be used to develop ED specific delirium interventions.

5 K23 AG 034257-05 09/01/09 - 06/30/14

NIH/NIA $632,150 (total)

Principal Investigator: Girard

Role of Dr. Ely: Mentor

“Predictors of Cognitive Impairment in Survivors of Critical Illness”

This Mentored Patient-Oriented Research Career Development Award (K23) will provide Dr. Timothy D. Girard the opportunity to develop his career as a clinical investigator in the field of geriatric critical care and to establish an independent program of aging research focused on the clinical and molecular epidemiology of critical-illness associated cognitive impairment. The primary scientific goal of this proposal is to identify and study the clinical and molecular predictors of long-term cognitive impairment (LTCI) after critical illness. Utilizing a prospective cohort investigation, Dr. Girard will identify those ICU patients at highest risk for LTCI and quantify the contribution of important risk factors to LTCI after critical illness. Specifically, the candidate will identify clinical risk factors for an increased incidence and severity of long-term cognitive impairment after critical illness (Aim 1). Furthermore, he will determine whether inflammation and coagulopathy are risk factors for an increased incidence and severity of LTCI after critical illness (Aim 2). Finally, Dr. Girard will determine which categories of delirium defined by clinical risk factors in critically ill patients are associated with an increased incidence and severity of LTCI after critical illness (Aim 3).

5 K23 AG 031322-05 09/15/08 – 08/31/14

NIH/NIA $550,000

Principal Investigator: Jackson

Role of Dr. Ely: Mentor

“Executive Dysfunction and Functional Impairment in Elderly ICU Survivors”

This 5-year study will focus on a cohort of largely geriatric ICU survivors and will seek to determine both the incidence and prevalence of executive dysfunction in these patients as well as the functional correlations of executive dysfunction.  This investigation will examine the trajectory of decline in study subjects with and without pre-existing executive dysfunction and will utilize neuropsychological and functional assessments at 3 and 12 months post ICU.  Along with examining global relationships between executive dysfunction and functional decrements globally, this study will seek to determine whether specific components of executive dysfunction contribute to particular types of functional limitations.  Additionally, this study will attempt to identify modifiable risk factors contributing to new or worsening executive dysfunction.

Career Development Award 2008 - 2011

Department of Veterans Affairs $656,250

Principal Investigator: Pandharipande

Role of Dr. Ely: Mentor

“Risk Factors for Delirium and PTSD in Critically Ill Veterans”

This is a study focused on ICU-related delirium as a risk factor for the development of PTSD (either new or worsening) among survivors of critical illness.  This study will take place in a cohort of ICU-survivors (all veterans) and will involved the use of detailed PTSD related assessment tools which will be employed at 2-follow up time points after discharge.

Emergency Medicine Foundation Career 2009-2010

Development Award $50,000

Principal Investigator: Han

Role of Dr. Ely: Mentor

“Improving Delirium Assessment in the Emergency Department”

This one-year study will focus on a cohort of older emergency department (ED) patients and will seek to develop a novel delirium surveillance system specifically tailored for the ED setting. A brief triage delirium screen will be developed that will be highly sensitive and moderately specific. In addition, the Confusion Assessment for the Intensive Care Unit, which is a delirium assessment that takes less than two minutes to perform, will be validated for the ED.

Vanderbilt Physician Scientist Development Program 07/01/07 - 06/30/09

Principal Investigator: Girard $190,000 (total)

Role of Dr. Ely: Mentor

“Factors of ICU Delirium Preceding Cognitive Impairment in Older Patients”

This program is designed to provide an enriching scientific environment and salary support to allow newly-appointed faculty physicians with significant research experience to receive additional mentored investigative training.

Research Grant 07/01/05- 06/30/07

Foundation of Anesthesia Education and Research (FAER) $255,000

Principal Investigator: Pandharipande

Role of Dr. Ely: Mentor

“A randomized, double-blind trial in ventilated ICU patients comparing treatment with an alpha2 agonist versus a gamma aminobutyric acid (GABA)-agonist to determine delirium rates, efficacy of sedation and analgesia, and clinical outcomes including duration of mechanical ventilation and 3 month cognitive status"

Junior Investigator Awards in 07/01/04 - 06/30/06

Geriatric Clinical Pharmacology $180,000

Merck/AFAR (American Federation for Aging Research)

Principal Investigator: Peterson

Role of Dr. Ely: Mentor

"Guided Prescription of Psychotropic Medications for Geriatric Inpatients"

This project will develop a knowledge base of psychotropic drug dosing and preferred drugs for geriatric inpatients and present this information to physicians at the time of order entry.  A block randomized study will evaluate the effect of the intervention on cognitive outcomes.

Geriatric Development Research Award 07/01/04 – 06/30/06

American College of Chest Physicians $120,000

Principal Investigator: Morrow

Role of Dr. Ely: Mentor

“A Multidisciplinary Intervention to Optimize the Recovery of Elderly Patients Hospitalized with Community-Acquired Pneumonia”

The goal of this project is to determine if an early, patient-focused, multidisciplinary intervention will positively impact the duration of stay and quality of life of elderly patients hospitalized with community acquired pneumonia. Dr. Morrow is working under the advisement of Dr. Ely, with the work being conducted at both Vanderbilt University Medical Center and Creighton University in Omaha.

Vanderbilt Physician Scientist Development Award 07/01/03 - 06/30/05

Vanderbilt University $180,000 (total)

Principal Investigator: Pandharipande

Role of Dr. Ely: Mentor

“Exploring the Role of Sedative Regimens on the Development of Delirium and Long-Term Cognitive Impairment in Mechanically Ventilated Patients”

This study focuses on the investigation of acute cognitive impairment (delirium) in mechanically ventilated patients and possible alternative methods of providing sedation to reduce this element of brain dysfunction. This will be done via a randomized controlled trial to study a novel method of sedation and analgesia using an alpha-2 agonist vs. the traditional approach using a combination of benzodiazepines and narcotics.

Vanderbilt Physician Scientist Development Award 07/01/02 - 06/30/04

Vanderbilt University $150,000

Principal Investigator: Peterson

Role of Dr. Ely: Mentor

"Systems Interventions to Reduce Delirium and Improve Sedation in Hospitalized Patients"

The main goal of the project is to implement a series of quality improvement interventions to improve physician and nurse management of sedation. Interventions include systematic sedation monitoring, physician targeted sedation, and computerized decision support for common sedatives. The physician and nurse response to the interventions and the impact on delirium and ICU and hospital length of stays will be measured.

**Training Grants** (participation as mentor to fellows and non-faculty trainees) – no salary

5 K12 CA 090625-18 07/01/17 – 06/30/21

NIH/NCI

Vanderbilt Clinical Oncology Research Career Development

Principal Investigator: Rathmell

Trainee: Ricky Shinall

Role of Dr. Ely: Trainee Co-Mentor

Project: “Surgery for Cancer with Option of Palliative Care Expert (SCOPE) Trial”

This 3-year study is a randomized controlled trial of an early palliative care intervention in patients undergoing surgery for selected neoplasms. The study will attempt to identify and quantify any benefit that early palliative care in surgical patients can bring in terms of surgical outcomes, oncologic outcomes, and patient centered outcomes including quality of life.

5 T32 HL 087738-11 04/01/17 – 03/31/22

Program Director: Bernard 04/01/12 – 03/31/17

Role of Dr. Ely: Trainee Co-Mentor

“Clinical and Translational Research Training in Pulmonary and Critical Care Medicine”

This critical care training program for post doctoral MD and PhD’s is comprised of 3 major components: 1) Hands-on design and conduct of field research culminating in a thesis, 2) participation in formal career development and mentoring activities throughout the fellowship period which are harmonized to secure the ultimate optimal outcome, that is, for all trainees to become fully prepared for a competitive research career in academics, and 3) participation in the existing MSCI (or MPH) programs which includes a closely mentored research apprenticeship.

5 T32 EB 001628-07 05/01/08 - 04/30/13

NIH/NIBIB

Program Director: Gore

Role of Dr. Ely: Trainee Co-Mentor

“Postdoctoral Training in Biomedical MRI and MRS”

This application seeks support for a comprehensive postdoctoral training program in magnetic resonance imaging (MRI) and spectroscopy (MRS) at Vanderbilt University.

Medical Student Geriatric Scholars Program 06/01/02 - 05/30/03

The John A. Hartford Foundation/AFAR $4,000 Student Award

Principal Investigator: Longanecker $1,000 Home Institution-Directed Activity

Role of Dr. Ely: Trainee Co-Mentor

"Public Health Geriatric Research: Caregiver Detection of Delirium"

This project is designed to determine if there is agreement between caregivers’ detection of symptoms of delirium and a physician’s ascertainment of delirium status and to assess the predictors of caregiver agreement.

Advisory Committee / Project Consultant

5 R24 AG 054259-02 (Inouye) 09/30/16 - 04/30/21

NIH/NIA $2,775,934

“Network for Investigation of Delirium Across the U.S. (NIDUS)”

Role of Dr. Ely: Co-Leader of the Mentorship and Career Development Task Force

Network for Investigation of Delirium across the U.S. (NIDUS). This is the first NIH grant to establish a national network for the advancement of delirium research across the spectrum of patient care, with a method of capitalizing on available databases and ongoing trials as well as building future investigators.

2 U13 AG 040938-06 07/15/17 – 05/31/20

Principal Investigator: High $65,678

Role of Dr. Ely: Consultant

“Workshop on Contributors and Correlates of Functional Impairment across Specialties”

This is a history of the Association of Specialty Professors (ASP) project, “Integrating Geriatrics into the Specialties of Internal Medicine: Capitalizing on Forward Momentum” and NIA U13.

5 R01 AG 034205-05 05/01/10 – 04/30/16

Principal Investigator: Boustani $3,326,350

Role of Dr. Ely: Consultant

“Pharmacological Management of Delirium”

The primary goal of this five-year randomized controlled clinical trial is to evaluate the efficacy of a multi-component pharmacological intervention in reducing delirium severity and duration and subsequently decrease ICU and hospital length of stay. A major advantage of the proposed individualized intervention is reducing exposure to potentially harmful medications and using low dose of haloperidol during the critical early days of ICU care.

5 U13 AG 039151-02 08/15/12 - 07/31/15

Principal Investigator: Kuchel $100,000

Role of Dr Ely: Consultant

“Conference Series in Geriatrics: From Bedside to Bench”

This is a competing renewal for a U13 Bedside to Bench conference grant written on behalf of the American Geriatrics Society and the Geriatrics and Clinical Gerontology Branch of the National Institute on Aging. In this revised application, we present evidence of impact of the previous 6 conferences. Our goal remains to heighten research attention on geriatrics issues that are of pressing clinical concern and have the potential to greatly improve clinical care or prevention for older adults.

5 P01 AG 031720-05 04/15/10 - 03/31/15

NIH/NIA $9,134,878 (total direct cost)

Principal Investigator: Inouye

Role of Dr. Ely: Advisor

“Interdisciplinary Study of Delirium and its Long-Term Outcomes”

This Program Project seeks to elucidate novel risk markers (including biomarkers, neuroimaging and reserve markers) and to examine the contribution of delirium to long-term cognitive and functional decline. This Program Project will utilize the innovative interdisciplinary approaches that will facilitate the translation of findings from the laboratory to the patient.

VA HSR&D IIR 11-109-1 10/01/11 - 09/30/14

Principal Investigator: Iwashyna

Role of Dr. Ely: Consultant

“Longterm Consequences for Veterans with Sepsis”

This project will examine the extent to which VHA hospitals systematically vary in their risk- and reliability-adjusted long-term outcomes of their patients after acute illness, using severe sepsis as a model system

Robert Wood Johnson Foundation 11/01/10 - 04/30/12

Principal Investigators: Balas and Burke $300,000

Role of Dr. Ely: Consultant

“Interdisciplinary Nursing Quality Research Initiative (INQRI) on Delirium in the ICU”

The goal of this project is studying the efforts to implement and spread evidence-based ICU delirium interventions that have been shown to improve patient outcomes, through a nurse led, inter-professional, multi-component program.

**Publications and Presentations:**

Journal Articles:

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3. Donofrio PD, Stanton C, Miller VS, Oestreich L, Lefkowtiz DS, Walker FO, **Ely EW**. Demyelinating polyneuropathy in eosinophilia-myalgia syndrome. *Muscle and Nerve*, 1992; 15:796-805.
4. **Ely EW**, Stump D, Hudspeth AS, Haponik EF. Thoracic complications of dental procedures: Hazards of the dental drill, *Am. J. Med.,* 1994; 95:456-465.
5. **Ely EW**, Pegram PS, Haponik EF. Management and Prevention of Pneumonia in the Elderly Patient. *J. Respir. Disease,* 1994; 15:295-311.
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*[Chosen by Vanderbilt University Medical Center peers as one of the Top Ten Publications in the Vanderbilt Epidemiology Center of 2018]*

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7. Harris R (Host), **Ely EW** (10 October 2018). How to prevent brain-sapping delirium in the ICU. *NPR*; <https://www.npr.org/sections/health-shots/2018/10/10/654898309/how-to-prevent-brain-sapping-delirium-in-the-icu>
8. Harris R. (Host), **Ely EW**. (22 October 2018). Antipsychotic drugs don't ease ICU delirium. *NPR*; <https://www.npr.org/sections/health-shots/2018/10/22/658644131/antipsychotic-drugs-dont-ease-icu-delirium-or-dementia>
9. Woods, J (Interviewer), **Ely EW.** Second lawsuit filed alleging deadly dosage of fentanyl by Mount Carmel doctor. *Columbus Dispach.* January 16, 2019. <https://www.dispatch.com/news/20190115/second-lawsuit-filed-alleging-deadly-dosage-of-fentanyl-by-mount-carmel-doctor>
10. **Ely EW.** Death by Organ donation: Euthanizing patients for their organs gains frightening traction. *USA Today.* May 2, 2019. <https://www.usatoday.com/story/opinion/voices/2019/05/02/organ-donation-physician-assisted-suicide-death-disability-column/3628448002/>
11. Newman K (Reporter), **Ely EW**. New Jersey Enacts Medical Aid-in-Dying Law. *U.S. News & World Report* 1 August 2019. Last accessed August 1, 2019. <https://www.usnews.com/news/best-states/articles/2019-08-01/medical-aid-in-dying-law-goes-into-effect-in-new-jersey>
12. **Ely EW**. Spiritual Communion when there’s no Eucharist available. *Catholic Weekly.* March 28, 2020. <https://www.catholicweekly.com.au/spiritual-communion-when-theres-no-eucharist-available/>

COVID-19 Opinion Editorials (Op-Eds):

1. **Ely EW**. Opinion: 9/11 hero Victor Correa died in coronavirus era. Reflect on his sacrifices and gain inspiration. *The Tennessean.* April 1, 2020. <https://www.tennessean.com/story/opinion/2020/04/01/coronavirus-victor-correa-911-hero/5098732002/>
2. **Ely EW**, Lamas D. ICU doctors already know how to get covid-19 patients off ventilators faster. *The Washington Post.* April 10, 2020. <https://www.washingtonpost.com/outlook/2020/04/10/ventilators-icu-safety-bundle/>
3. **Ely EW**. Doctors fear the coronavirus. Is that affecting their medical decisions? *The Washington Post*. April 14, 2020. <https://www.washingtonpost.com/outlook/2020/04/14/doctors-fear-coronavirus-is-that-affecting-their-medical-decisions/>
4. **Ely EW**. Treating coronavirus is brutal. But our hunt for better medicine keeps us going. *The Washington Post*. June 30, 2020. <https://www.washingtonpost.com/outlook/2020/06/30/coronavirus-medical-research-icu/>
5. **Ely EW**, Lamas D. COVID-19 and the brain: brain disorder delirium should be taken seriously | Opinion. *The Tennessean*. July 27, 2020. <https://www.tennessean.com/story/opinion/2020/07/27/covid-19-cases-show-delirium-symptoms-what-means-patients/5519290002/>
6. Awdish R, **Ely EW.** Keeping loved ones from visiting our coronavirus patients is making them sicker. *The Washington Post*. August 6, 2020. <https://www.washingtonpost.com/outlook/2020/08/06/coronavirus-icu-patients-families/>

COVID-19 Media:

1. Johnson CY, Eunjung Cha, A (Authors), **Ely EW**. The dark side of ventilators: Those hooked up for long periods face difficult recoveries. *The Washington Post.* April 3, 2020. <https://www.washingtonpost.com/health/2020/04/03/coronavirus-survivors-recovery/>
2. Zubin D (Host), **Ely EW**. (8 April 2020) You Survived COVID, But At What Cost? *ZDoggMD****;*** [https://www.youtube.com/watch?v=0Kvw47UzVJc&feature=emb\_logo](https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D0Kvw47UzVJc%26feature%3Demb_logo&data=02%7C01%7Cholly.stevens%40vumc.org%7C937e2ccd78c54037a89808d7f038bca8%7Cef57503014244ed8b83c12c533d879ab%7C0%7C0%7C637241998776584916&sdata=GODyWGDFo7cugEWGrAQ6T%2F9lU22Bdsif5rVJ%2FsMmZjg%3D&reserved=0)
3. Levenson E (Author), **Ely EW**. When the ventilator comes off, the delirium comes out for many coronavirus survivors. *CNN.* April 15, 2020.<https://www.cnn.com/2020/04/15/us/coronavirus-icu-delirium/index.html>
4. Edwards E (Author), **Ely EW**. Her father's delirium was a first sign of coronavirus. He's not the only one. *NBC News.* April 15, 2020. <https://www.nbcnews.com/health/health-news/her-father-s-delirium-was-first-sign-coronavirus-he-s-n1184296>
5. Zubin D (Host), **Ely EW**. (30 April 2020). COVID-19 Ventilator management and sedation: Improving survival. *ZDoggMD****;*** <https://www.youtube.com/watch?time_continue=1&v=ug75BW_ppo4&feature=emb_logo>
6. Buder E, Pasztor A, Darbha V (Authors), **Ely EW**. COVID-19 is a delirium factory. *The Atlantic.* May 8, 2020. <https://www.theatlantic.com/video/archive/2020/05/icu-delirium/611155/>
7. Belluck Pam (Reporter), **Ely EW** (28 June 2020). ‘They want to kill me’: Many COVID Patients Have Terrifying Delirium. *New York Times*. <https://www.nytimes.com/2020/06/28/health/coronavirus-delirium-hallucinations.html>
8. Anderson B (Interviewer), **Ely EW**. (30 June 2020). *Connect the Word with Becky Anderson.*
9. Axelrod J (Reporter), **Ely EW**. (20 June 2020). Some coronavirus survivors face long road to recovery after ICU stays. *CBS Evening News with Norah O’Donnell.* <https://www.cbsnews.com/video/some-coronavirus-survivors-face-long-road-to-recovery-after-icu-stays/>
10. Dorstewitz M (Author), **Ely EW**. People Recovered From COVID-19 Facing Another Dangerous Condition. *Newsmax*. July 8 2020. <https://www.newsmax.com/platinum/recovery-pics-ventilator-icu/2020/07/08/id/976231/>
11. Gold, J (Author), **Ely EW**. Covid-19 Might Lead To A ‘Mental Health Pandemic’. *Forbes.* August 6, 2020. <https://www.forbes.com/sites/jessicagold/2020/08/06/covid-19-might-lead-to-a-mental-health-pandemic/#7eacaae0706f>

Abstracts:

Dr. Ely’s published abstracts are too numerous to include.

Invited Lectures and Presentations (selected):

Slide Presentation: "Primed Release of Arachidonic Acid and Oxidants from Human Neutrophils: Causally Related or Independent?" American Thoracic Society/American Lung Association Annual International Meetings, **Boston, Massachusetts**, May, 1994.

Slide Presentation: "An Objective Protocol in Ventilated Patients Shortens Weaning Time." American Thoracic Society/American Lung Association Annual International Meetings, **New Orleans, Louisiana**, May, 1996.

Slide Presentation: "Mechanically-Ventilated Patients Who Fail Simple Screening Criteria have an Ominous Prognosis." American Thoracic Society/American Lung Association Annual International Meetings, **San Francisco, California**, May, 1997.

Invited Speaker: "Advances in Lung Transplantation." North Carolina Thoracic Society, University of North Carolina, **Chapel Hill, North Carolina**, March, 1997.

Invited Speaker and Committee Member: "Mechanical Ventilation in the Elderly." First Geriatric Educational Retreat for Lung Diseases in the Elderly, **St. John, U.S. Virgin Islands**, April, 1998.

Invited Speaker: Mechanical Ventilation Symposium: "Protocols in the Intensive Care Unit." American Thoracic Society/American Lung Association Annual International Meetings, **Chicago, Illinois**, April, 1998.

Invited Speaker: "Weaning from Mechanical Ventilation" (sunrise session seminar). American Thoracic Society/American Lung Association Annual International Meetings, **Chicago, Illinois**, April, 1998.

Invited Speaker: "Defining the Radiographic Definition of Acute Lung Injury," American Thoracic Society Committee Meeting, **Seattle, Washington**, August 28-30, 1998.

Invited Speaker: "Predicting Outcomes for Mechanically Ventilated Patients." American College of Chest Physicians International Scientific Assembly and XIX World Congress on Diseases of the Chest, **Toronto, Canada**, November, 1998.

Invited Speaker: Postgraduate Seminar: “Protocols in the Intensive Care Unit.” American Thoracic Society Annual International Meetings, **San Diego, California**, April 15, 1999.

Visiting Professor and Invited Speaker: “Cognitive Impairment in the ICU: How Do We Monitor Our Patients?” University of Washington, **Seattle, Washington**, November 15-16, 1999.

Visiting Professor and Invited Speaker: “Mechanical Ventilation in the Elderly.” University of Washington, **Seattle, Washington**, November 17-18, 1999.

Panel Moderator: Society of Critical Care Medicine/American College of Chest Physicians Expert Panel Recommendation. 30th International Conference, Society of Critical Care Medicine, **San Francisco, CA**, February 13, 2000.

Invited Speaker: “Acute Management of Respiratory Failure and Weaning from Mechanical Ventilation.” Presented, 14th Annual Society of Critical Care Medicine Board Review Course in Pulmonary and Critical Care Medicine, **Washington, D.C.**, March 22-26, 2000.

Visiting Professor and Speaker: “Weaning and Prolonged Mechanical Ventilation,” 27th Annual Harvard Intensive Care Medicine Course, “Respiratory and Critical Care - 2000," Harvard Medical School, **Boston, Massachusetts**, April 15-16, 2000.

Invited Speaker: “Can We Predict Extubation Outcome?” Presentation in the seminar: Advances in Translaryngeal Extubation, American Thoracic Society Annual International Meetings, **Toronto, Canada**, May 5-10, 2000.

Invited Speaker: “Advances in Weaning from Mechanical Ventilation.” Sponsored by the Respiratory Care Society, **Barcelona, Spain**, June 7-10, 2000.

Invited Speaker: “Weaning Techniques.” Postgraduate review course on Mechanical Ventlation: ARDS and Weaning. 30th International Conference, Society of Critical Care Medicine, **San Francisco, CA**, February 10, 2001.

Invited Speaker: “Weaning Protocols.” Postgraduate review course on Mechanical Ventlation: ARDS and Weaning. 30th International Conference, Society of Critical Care Medicine, **San Francisco, CA**, February 10, 2001.

Invited Speaker: Activated Protein C in Sepsis: Results of Phase II Trials and Phase II Trial Design 30th International Conference, Society of Critical Care Medicine, **San Francisco, CA**, February 10, 2001.

Presenter: “Weaning Strategies Adapted to Patient Populations,” “Cognitive Impairment in the Critically Ill,” “Outcome of Elderly with Acute Respiratory Failure,” 21st International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium**, March 20-23, 2001.

Visiting Professor: Yale University School of Medicine and Invited Speaker, Connecticut Thoracic Society, “Cognitive Impairment in Critically Ill Patients: Advances in Central Nervous System Monitoring in the ICU”. **New Haven, CT**, April 24, 2001.

Core Faculty/Invited Lectureship: The National Initiative for Sepsis Education (NISE) lectures are a day long series of CME lectures designed in conjunction with Vanderbilt University’s CME group, which will comprehensively educate clinicians regarding the salient issues that are necessary in caring for critically ill patients with severe sepsis. As one of 10 core faculty members, Dr. Ely designed this national CME initiative, which will be given on 25 different weekends in 2001 throughout the United States. Dr. Ely will also be a Faculty lecturer for a selected number of these courses.

Invited Speaker: 12th Congreso Argentino de Terapia Intensiva, “Delirium and Cognitive Impairment in the ICU,” “Recombinant C Protein in Severe Sepsis and Shock Septic Treatment,” “Weaning,” “ARDS and Mechanical Ventilation in Young-Old Patients” **Buenos Aires, Argentina**, September 9-10, 2001.

Invited Speaker: “Activated Protein C: Biology and Therapeutic Applications,” 2001 World Congress in Nephrology, **San Francisco, CA**, October 15, 2001.

Invited Speaker: “Evolution in the Management of Sepsis,” “The Consensus Guidelines of the ACCP Weaning from Mechanical Ventilation,” “The Evidence-Based Weaning Project: A Clinical Practice Guideline for Weaning from Mechanical Ventilation.” American College of Chest Physicians International Conference, **San Francisco, CA**, October 24-26, 2001.

Invited Lecture: "Monitoring and Protocol Management in the Use of Sedative Agents," "Delirium in the ICU--Mechanism and Monitoring," Annual Meeting, American College of Chest Physicians, **Philadelphia, Pennsylvania**, November 5-6, 2001.

Anaesthesia, Pain, Intensive Care and Emergency Medicine International Symposium on Critical Care Medicine, 16th Congress, **Trieste, Italy**, November 16-20, 2001.

Visiting Professorship: Grand Rounds: "Severe Sepsis Diagnostic and Therapeutic Strategies," Massachusetts General Hospital Ether Dome, **Boston, Massachusetts**, January 9, 2002.

Visiting Professorship: Grand Rounds: "Delirium and Cognitive Impairment following ICU Care and Mechanical Ventilation." Brigham and Womens Hospital, **Boston, Massachusetts**, January 10, 2002.

Ground Rounds: "Severe Sepsis: Diagnostic and Therapeutic Strategies," Mayo Clinic, **Rochester, Minnesota**, January 17, 2002.

Fellows' Conference: "Delirium and Cognitive Impairment Following Mechanical Ventilation in the ICU." Mayo Clinic, **Rochester, Minnesota**, January 17, 2002.

Co-Chairman and Moderator: "The Pathophysiology and Management of Severe Sepsis: From Bench to Bedside." 31st Critical Care Congress, Society of Critical Care Medicine, **San Diego, California**, January 27, 2002.

Grand Rounds: “Sepsis: Advances in the Pathophysiology and Management of our Sickest Patients,” University of Pennsylvania, **Philadelphia, Pennsylvania**, February 11, 2002.

Grand Rounds: “Sepsis: Advances in the Pathophysiology and Management of our Sickest Patients,” Temple University, **Philadelphia, Pennsylvania,** February 12, 2002.

Guest Lecturer: "Assessment and Management of the Patient with Sepsis." 7th Clinical State of the Art Course in Pulmonary and Critical Care Medicine, American Thoracic Society, **San Diego, California**, February 28, 2002.

Guest Lecturer: "Surviving the ICU" and "Older Persons and Their Survival Following ICU Care." International Roundtable Consensus Conference, **Brussels, Belgium**, March 16-18, 2002.

Invited Speaker: “Applying Evidence Based Medicine to Management of Sepsis Patients.” Michigan State Critical Care Society annual meeting, Henry Ford Hospital, **Detroit, Michigan**, April 24, 2002.

Visiting Professor, Geriatrics and Pulmonary and Critical Care Divisions, University of Michigan, **Ann Arbor, MI**, Invited by Galen Toews, M.D., April 25, 2002.

Invited Speaker: “Delirium Across the Continuum.” American Geriatrics Society meeting, **Washington, D.C.**, May 10, 2002.

Invited Lecturer, “Prevention of Delirium.” Post-graduate Course on Prevention of Complications in the ICU, American Thoracic Society International Conference, **Atlanta, Georgia**, May 18, 2002.

Symposium Chair and Speaker, “Using the Portable CXR in the ICU–Utility in Determining Intravascular Volume Status.” Radiology in the ICU Symposium, American Thoracic Society International Conference, **Atlanta, Georgia**, May 20, 2002.

Invited Speaker: Delirium in the ICU–Diagnosis and Treatment.” Symposium on Sedation and Delirium in the ICU, **Atlanta, GA,** May 22, 2002.

Invited Moderator, "Understanding the Mechanism of Injury and Repair." Margaux Conference on Critical Illness, **Sentra, Portugal**, November 17-22, 2002.

Poster Presentation: Wall R.J., **Ely, E.W**., Speroff, T., Dittus, R.S., Elasy, T.A. "Using process measurements to reduce risk factors for central venous catheter infections." Accepted for Presentation, VA Health Services Research and Development National Meeting.

Invited Speaker: "Monitoring Intravascular Volume Status Using the Portable Supine Chest X-ray - Role of the Vascular Pedicle Width." SCCM Annual International Meeting, **San Antonio, Texas**, January 30, 2003.

Invited Speaker: "Delirium is Associated with Important Clinical Outcomes in Mechanically Ventilated Patients." SCCM Annual International Meeting, **San Antonio, Texas**, January 31, 2003.

Invited Speaker: "Weaning Protocols--International Application and Advances in Implementation.” Roundtable on "Advances in Mechanical Ventilation." International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium**, March 15-17, 2003.

Invited Speaker: "Long-Term Neuropsychological Outcomes of Mechanically Ventilated Patients" and "Optimizing Outcomes of Elderly ICU Patients." International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium**, March 18-19, 2003.

Invited Speaker: "Clinical Practice Guidelines of the ACCP/SCCM/AARC for Weaning from Mechanical Ventilation" and "Delirium - an important new outcomes measure in the ICU." National Association of Medical Directors of Respiratory Care, **Phoenix, Arizona**, March 21-22.

Co-Chair, Critical Care Tracks (Monday, May 19): "Five Special Problems in the ICU: Cirrhosis, Alcohol Abuse, Pregnancy, HIV, and Care of the Elderly." American Thoracic Society Annual International Meetings, **Seattle, Washington**, May 16-24, 2003.

Speaker: "Critical Care and the Elderly." Critical Care Tracks (Monday, May 19): "Five Special Problems in the ICU: Cirrhosis, Alcohol Abuse, Pregnancy, HIV, and Care of the Elderly." American Thoracic Society Annual International Meetings, **Seattle, Washington**, May 16-24, 2003.

Invited Speaker: Pulmonary and Critical Care Grand Rounds: "Delirium is a Predictor of Outcomes in Mechanically Ventilated Patients Including Loss in Mobility." Washington University Medical Center, **St. Louis, Missouri**, June 12, 2003.

Faculty member and speaker: "Improving the Recognition of Delirium--Using the CAM-ICU." The Intersection of Delirium and Frailty: A Multidisciplinary Conference, Pepper Older Americans Independence Center, University of Michigan Geriatrics Center, and Ann Arbor Veterans Affairs Medical, **Ann Arbor, Michigan**, September 25-26, 2003.

Faculty: The Intersection of Delirium and Frailty: A Multidisciplinary Conference, Pepper Older Americans Independence Center, University of Michigan Geriatrics Center, and Ann Arbor Veterans Affairs Medical, **Ann Arbor, Michigan**, September 25-26, 2003

Course Speaker, Critical Care Literature Review: "Sedation/Analgesia and Weaning." American College of Chest Physicians (ACCP) Annual Meeting, **Orlando, Florida**, October 26, 2003.

Plenary Presentation: "Liberation from Mechanical Ventilation: Wake-up and Breathe." American College of Chest Physicians (ACCP) Annual Meeting, **Orlando, Florida**, October 27, 2003.

Luncheon Plenary Address: "Acute care for the elderly: addressing high risk co-morbid conditions" CME Symposium: Improving Health Outcomes in Older Adults, **Nashville, Tennessee**, November 7, 2003.

Faculty: Eighteenth Annual Comprehensive Update and Board Review. Sponsored by Center for Bio-Medical Communications, Inc. and Society of Critical Care Medicine, **Washington, D.C.**, April 20-25, 2004.

Workshop Leader: "Delirium and Sedation During Mechanical Ventilation." Sixth Annual Conference in Mechanical Ventilation, **Boston, Massachusetts**, April 29-30, 2004.

Faculty: Sixth Annual Conference in Mechanical Ventilation, Boston, Massachusetts, April 29-30, 2004.

Invited Speaker: “Severe Sepsis - case based teaching of evidence”,”ICU Care for Elderly - the new century” and “Delirium in the ICU - monitoring and mortality” Mexico Critical Care Society, **Mexico**, July 16-17, 2004.

Co-chair poster Session on Resuscitation and emergency room medicine. European Society of Intensive Care Medicine, **Berlin, Germany**, October 10-13, 2004.

Invited Speaker: “Delirium” European Society of Intensive Care Medicine, **Berlin, Germany**, October 10-13, 2004.

Invited Speaker: “Sedation, Paralysis and Delirium in the Ventilated Patient,” “Weaning from Mechanical Ventilation - State of the Art,” “Optimizing the Approach to Sedation: Monitoring and Treatment of Delirium,” “Assessment Management of ICU Delirium,” “ICU Delirium and Long Term Outcomes,” “Protocolized Weaning” Society of Critical Care Medicine, **Phoenix, Arizona** January 16-18, 2005.

Moderator: The Consequences of What We Do: Impacting Long-term Recovery from Critical Illness- Society of Critical Care Medicine, **Phoenix, Arizona** January 16-18, 2005.

Invited Speaker: “Monitoring the brain in ICU: Updates for the clinician,” “Delirium and Mortality.” European Society of Critical Care Winter Meeting – **Gstaad, Switzerland**, January 2005.

Invited Speaker: Postgraduate Course “Impact of Monitoring on Clinical Outcomes in the ICU” topic: “How Do I Monitor Delirium?”, American Thoracic Society Annual International Meetings, **San Diego, California**, May 20-25, 2005.

Invited Speaker: Meet the Professor Seminar “Sedation Scale and Delirium Monitoring in Critically Ill Patients: Implementing Validated Tools in the ICU”, American Thoracic Society Annual International Meetings, **San Diego, California**, May 20-25, 2005.

Invited Speaker: “Delirium- how it affects ventilated patients”, Toronto Critical Care Society Meeting, **Toronto, Canada**, October 25-27, 2005.

Invited Speaker: Controversies in Critical Care) - TALK: Weaning Protocols represent a scientific advance Toronto Critical Care Society Meeting, **Toronto, Canada**, October 25-27, 2005.

Invited Speaker: Delirium in the ICU - “How I treat delirium.” Toronto Critical Care Society Meeting, **Toronto, Canada**, October 25-27, 2005.

Invited Speaker: Sedation in the critically ill patient from Neurophysiology to Clinical Application: **Verona, Italy**, November 11, 2005.

Faculty: A Practical Approach to Targeted Sedation and Analgesia; The Academy for Continued Healthcare Learning, **San Francisco, CA**, 2006.

Faculty: Talks on Delirium Management, Ventilator Weaning and Bundles, Predicting Mortality in ICU Delirium, Sleep in the ICU, and chairing symposia. Society of Critical Care Medicine, **San Francisco, CA**, January 7-11, 2006.

Keynote Speaker: New York State Society of Pulmonary and Critical Care Medicine, **West Point, Academy, NY**, February 3-4, 2006.

Invited Speaker: Wake Forest University, Multi-disciplinary Critical Care Grand Rounds, **Winston-Salem, NC**, February 9, 2006.

Faculty: UCLA Critical Care Course, Multiple Lectures on Delirium and Mechanical Ventilation and Sedation Strategies. **Santa Monica, CA**, February 17-19, 2006.

Faculty: Western Frontier Critical Care Society Meeting, **Jackson Hole, WY**, February 24-26, 2006.

Faculty: Duke Delirium Conference, a special international gathering of investigators to discuss ongoing and new research areas in many different models and patient populations, **Durham, NC**, April 20-21, 2006.

Faculty: Twentieth Annual Comprehensive Update and Board Review. Sponsored by Center for Bio-Medical Communications, Inc. and Society of Critical Care Medicine, **Washington, D.C.**, April 22-26, 2006.

Invited Speaker: American Thoracic Society Annual International Meetings, multiple lectures and chairing sessions, as well as heading the Critical Care Planning Assembly for the ATS Conference, **San Diego, California**, May 20-24, 2006.

Invited Speaker: University of Nevada, Internal Medicine Grand Rounds on Acute Neurological Illness of ICU Patients, **Las Vegas, Nevada**, July 14, 2006.

Invited Speaker/Faculty: European Society of Intensive Care Medicine, several sessions teaching and chairing for ESICM, speaking on delirium and sedation protocolization in ICU patients, **Barcelona, Spain**, September 24-28, 2006.

Invited Keynote Speaker: Harvard/Brigham Woman’s Anesthesia Critical Care Grand Rounds, Neurological Injury in the ICU Patient, with a focus on Delirium Research Advances, **Boston, MA**, October 5-6, 2006.

Invited Keynote Speaker: Uruguay Critical Care Society, lecturing on monitoring delirium in South American society, as well as on management issues related to brain dysfunction, **Montivideo, Uruguay**, October 25-28, 2006.

Invited Keynote Speaker: Harvard/Brigham Woman’s Anesthesia Critical Care Grand Rounds, Neurological Injury in the ICU Patient, with a focus on Delirium Research Advances, **Boston, MA**, October 5-6, 2006.

Invited Keynote Speaker: Uruguay Critical Care Society, lecturing on monitoring delirium in South American society, as well as on management issues related to brain dysfunction, **Montivideo, Uruguay**, October 25-28, 2006.

Visiting Professor: Grand Rounds, A new frontier in critical care: saving the injured brain, **Mt. Sinai, NY**, February 7, 2007.

Invited Speaker: Society of Critical Care Medicine, Sedation and Delirium - Current Concepts In 2007, **Orlando, FL**, February 17-21, 2007.

Invited Speaker: Lehigh Valley Hospital, Medical Grand Rounds, “Sepsis Guidelines that improve outcomes,” **Allentown, Pennsylvania**, March, 12-13, 2007.

Invited Speaker: Ohio State University Visiting Professor, “A new frontier in critical care: saving the injured brain” and “Building the Clinical Research Enterprise,” **Columbus, OH**, March 14-15, 2007.

Invited Speaker: “Delirium in the ICU,” Department of Veterans Affairs (national), **Chicago, IL**, April 24, 2007.

Invited Speaker: American Geriatric Society Annual Meeting, Improved Assessment and Management of Delirium Across the Continuum: Lessons Learned through the VA GRECC System, Implementing delirium screening in the ICU setting and recent management advances from randomized controlled trials, **Seattle, WA**, May 4-5, 2007.

Invited Speaker: American Thoracic Society Annual International Meetings, multiple lectures and chairing sessions. **San Francisco, California**, May 19-22, 2007.

Invited Speaker: 6th Annual Summer International Sepsis Forum (ISF) Colloquium, “Chronic health outcomes of patients surviving from severe sepsis and implications for future clinical trial design,” chaired multiple presentations, **Annapolis, Maryland**, June 8-9, 2007.

Invited Speaker: John Radcliffe Hospital,“The Delirium Dilemma,” St. Thomas’ Hospital, “Delirium in the ICU: detecting & managing brain dysfunction,” **London, England**, August 6-7, 2007.

Keynote Speaker: The Christie Hospital, “Delirium and Cognitive Impairment in Critical Care,” **London**, **England**, August 9, 2007.

Invited Speaker: 3rd International Congress: Sepsis and multiorgan dysfunction, “Longterm sequelae of sepsis and SIRS,” **Weimar, Germany**, September 3-5, 2007.

Invited Moderator and Speaker: National Institute on Aging (NIA) Exploratory Workshop: Critical Illness and Critical Care in Older Patients: Translational Approaches, “Mechanical ventilation: special issues and challenges in elderly patients,” **Bethesda, Maryland**, September 17-18, 2007.

Invited Speaker: Congressional Briefing for the Alliance for Aging Research (AFAR), “Post-Operative Delirium,” Capitol Hill, **Washington, DC**, September 20, 2007.

Invited Lecturer: The Rio de Janeiro Society of Intensive Care, “Monitoring for septic encephalopathy (Delirium),” **Rio de Janeiro, Brazil**, September 27-29, 2007.

Invited Speaker: 61st SIAARTI National Congress, “Delirium in Anesthesia and Intensive Care,” “Sedation and Delirium in Intensive Care,” **Turin, Italy**, October 17-20, 2007.

Invited Speaker: The Intensive Care Society State of the Art 2007 Meeting, “Delirium in the ICU,” “MENDS,” **London, England**, December 16-19, 2007.

Invited Speaker: 16th Winter Symposium on Intensive Care Medicine, “Saving the Injured Brain,” “How good sedation improves outcome,” **Steamboat, CO**, January 27-31, 2008.

Invited Speaker: Diagnosing and Managing ICU Delirium in Critical Care Departments: “The Older Patient at Risk: Treatment of the Risk, the Patient or both?,” **Amsterdam, The Netherlands**, February 26-29, 2008.

Invited Speaker: 22nd Annual Comprehensive Update and Board Review, “Mechanical Ventilation II: Management of Acute Respiratory Failure,” “Difficult Management Problems,” “Delirium in the ICU: Causes and Management,” **McLean, VA**, April 5-9, 2008.

Invited Speaker: GlaxoSmithKline Symposia, **Oslo, Norway**, April 20-23, 2008.

Invited Speaker: 21st ESICM Annual Congress, “How do I diagnose delirium in the ICU?,” “Delirium - can our ICU monitor routinely and is it modifiable?,” “Saving lives with a ‘wake up and breathe’ approach to sedation in the ICU.” **Lisbon, Portugal**, September 21-24, 2008.

Keynote Speaker: 3rd Scientific Congress on Delirium, “Delirium in the Intensive Care Unit.” **Helsinki, Finland**, October 9-10, 2008.

Invited Speaker: University of Massachusetts Memorial Medical Center, Surgical Grand Rounds; St. Vincent’s Hospital, Luncheon Conference and Massachusetts General Hospital, Critical Care Conference, **Boston, MA**, October 28-29, 2008.

Invited Speaker: 2008 Chilean Critical Care Medicine Congress, **La Serena, Chile**, November 12-15, 2008.

Invited Speaker and Moderator: Society of Critical Care Medicine’s 38th Annual Critical Care Congress, **Nashville, TN**, January 31- February 4, 2009.

Invited Speaker: 2009 Geriatrics Symposium presented by Hartford/Jahnigan Center of Excellence in Geriatrics, **Denver, CO**, February 12, 2009.

Invited Speaker: 32nd NAMDRC Annual Meeting and Educational Conference, “Surviving Sepsis- Strategies, Outcomes, Controversies.” **Dallas, TX**, March 26-28, 2009.

Invited Speaker and Co-Chair: 23rd Annual Comprehensive Update and Board Review, Critical Care Medicine 2009, **McLean, VA**, April 3-7, 2009.

Invited Speaker: Johns Hopkins Hospital, Grand Rounds. This half-day seminar included 2 grand rounds and widespread institutional in-servicing on topic of delirium monitoring to many different interdisciplinary ICUs throughout Johns Hopkins., **Baltimore, MD**, April 22-23, 2009.

Invited Speaker: Institute for Healthcare Improvement (IHI) Meeting, “ICU Delirium as a New Frontier in Critical Care: Saving the Injured Brain.” **Nashville, TN**, May 28-29, 2009. This half-day symposium was the results of an invitation by this 80 hospital IHI community who were implementing widespread delirium and RASS/CAM-ICU monitoring. It was both didactic and hands on.

Invited Speaker: Intensive Care Forum, The Changing Face of ICU – **London, England**, September 23-26, 2009.

Invited Speaker: 22nd European Society of Intensive Care Medicine (ESICM) Annual Conference, **Vienna, Austria**, October 10-14, 2009.

Invited Speaker: National Forum of Institute for Healthcare Improvement (IHI), “A New Frontier in Critical Care: Saving the Injured Brain.” **Orlando, FL**, December 8-9, 2009.

Invited Speaker: Intensive Care Society State of the Art 2009 Meeting, **London, England**, December 14-15, 2009.

Invited Speaker: Round Table Conference, “Thinking Outside the Box: the Future of Critical Care, “Handle the Brain with Care.” **Brussels, Belgium**, March 6-8, 2010.

Invited Speaker: 30th International Symposium on Intensive Care and Emergency Medicine (ISICEM), “Saving the Injured Brain”, “Ending life-support: Could we do it earlier”, “Should we score delirium?”, “The harmful effects of sedation in sepsis.” **Brussels, Belgium** March 9-12, 2010.

Invited Speaker: Adult Multiprofessional Critical Care Board Review Course (MCCBRC), “Management of acute respiratory failure”, “Delirium in the ICU: Causes and Management.” **Chicago, IL**, July 26-27, 2010.

Invited Speaker: Australian and New Zealand Intensive Care Society (ANZICS), "New concepts in sedation and analgesia that may impact on mortality", "Sedation in the ICU - The intersection between sedation and mechanical ventilation" **Melbourne, Australia**, October 14-15, 2010.

Keynote Speaker: European Delirium Association (EDA) Meeting, **Amsterdam, the Netherlands**, November 11, 2010.

Invited Speaker: Neurocritical Care Meeting, **Birmingham, England**, November 13, 2010.

Invited Speaker: Japanese Intensive Care Medicine Meeting (JSICM), “A New Era for Sedation and Delirium in ICU: Recent Advances.” **Yokohama, Japan**, February 22-24, 2011.

Invited Speaker: CAM-ICU & RASS Scale Workshops, Queen Mary Hospital and Rutonjee Hospital, as well as Keynote Speaker at the Meeting of Hong Kong Society of Critical Care, **Hong Kong**, February 28, 2011.

Invited Speaker: American Delirium Society Meeting, “Advancing Delirium Care through Research,” **Indianapolis, IN**, June 5-7, 2011.

Invited Speaker: Adult Multiprofessional Critical Care Board Review Course (MCCBRC), “Management of Acute Respiratory Failure,” “Delirium in the ICU: Causes and Management.” **Chicago, IL**, August 16-17, 2011.

Invited Speaker: 21st Argentine Congress on Intensive Care, “Madness and Morbidity: Critical Illness and the Brain,” “How to prevent weaning failure? New Approach,” “Delirium and weaning failure,” “Diagnosis and Pathophysiology of Delirium,” “Mechanical Ventilation in the Elderly Patient in the ICU.” **Puerto Madryn, Chubut, Argentina**, August 27-29, 2011.

Invited Speaker: Institute for Healthcare Improvement (IHI), "Short and long term complications of oversedation and delirium" and "Taking actions to reduce cognitive complications.” **Washington, D.C.**, November 1-3, 2011.

Invited Speaker: Critical Care Canada Forum (CCCF), “What is Delirium and how do we reduce it?” and “Delirium Prevention.” **Toronto, Canada**, November 13-15, 2011.

Invited Speaker: IX Panamerican and Iberic Critical Care Congress, “Sedation, delirium and mechanical ventilation: the‘ABCDE’ approach,” “Sedation in the ICU.” **Cartagena de Indias, Colombia**, November 29-December 3, 2011.

Invited Speaker: Visiting Professor at the University Medical Center **Utrecht, Netherlands**, March 18-19, 2012.

Invited Speaker: International Symposium on Intensive Care and Emergency Medicine (ISICEM), “The Best Practices: Sedation & Analgesia.” **Brussels, Belgium**, March 20-22, 2012.

Invited Speaker: PhD Defense Congress, “Delirium, CAM-ICU, cognitive impairment”, **Odense, Denmark**, March 23-25, 2012.

Invited Speaker: International symposium on delirium and liberation from mechanical ventilation, “Pathophysiology and triggers of delirium,” “Evaluation of delirium and drug selection for treatment,” **Buenos Aires, Argentina**, April 18-20, 2012.

Invited Speaker: CDC Wake Up and Breathe Quality Improvement Collaborative Meeting, **Atlanta, Georgia**, April 24, 2012.

Invited Speaker: The Institute for Healthcare Improvement (IHI) Rethinking Critical Care Seminar, “Short and Long-term Complications of Over-sedation and Delirium,” “Taking Action to Reduce Cognitive Complications,” **San Diego, California**, May 14-16, 2012.

Invited Speaker: Jikei Univeristy Hospital and Kyoto Prefectural University of Medicine Hospital, “Delirium impact on the Critically Ill Patient and the role of timely assessment.” **Tokyo** and **Osaka, Japan**, May 28-31, 2012.

Invited Speaker: Annual Congress of the Critical Care Society of Southern Africa (CCSSA), “Delirium and its consequences and implications in the critically ill,” “ICU-acquired delirium and weakness-crossing the quality chasm,” “Delirium, sleep and mental health disturbance in critical illness,” “End of life decisions. Quality of death and dying,” “Physician assisted death,” “Family Rounds in the ICU.” **Sun City, South Africa**, August 29-September 2, 2012.

Invited Speaker: Less is More: Raising the Bar - Educational Workshops, Vancouver and **Edmonton, Canada**, September 17-19, 2012.

Invited Speaker: 81st Annual Educational Conference of the Catholic Medical Association, “Faith at the End-of-Life: An Intensivist’s Perspective.” **St. Paul, Minnesota**, September 28-29, 2012.

Invited Speaker: Aquinas College, “True Devotion to the Blessed Mary.” **Nashville, TN**, October 9, 2012.

Invited Speaker: Korean Ventilation Workshop, “Delirium in the ICU,” “Protocol based weaning – ABCDEs,” “NM Blockade in Every ARDS Patient?” **Seoul, South Korea**, October 19-20, 2012.

Invited Speaker: CHEST 2012, “Less is more": Interventions methods to improve patient care outcomes in ICU,” “The Deranged Brain: Delirium and Drugs of Abuse –Panel Discussion.” **Atlanta, GA**, October 24-25, 2012.

Moderator: CDC sVAP Wake up & Breathe Collaborative Meeting, “Optimizing SAT and SBT performance.” **Atlanta, GA**, October 30, 2012.

Invited Speaker: ACCP/ACP Mechanical Ventilation Course, “Ventilator Discontinuation Process,” “Sedation and Paralysis during Mechanical Ventilation in the ICU.” **Chicago, IL**, November 9-10, 2012.

Invited Speaker: 19th Annual Congress of the Indian Critical Care Society for 2013, **Kolkata, India**, March 1-4, 2013.

Invited Speaker: 2013 Beijing Symposium, “Delirium: what does it mean to the elderly patients?” “Progress in the prevention of delirium and its effects on the outcome.” **Beijing, China**, June 22, 2013.

Invited Speaker: Malaysian Society of Intensive Care, “Monitoring and Management of Delirium in the Critically Ill.” **Kuala Lumpur, Malaysia**, June 24, 2013.

Invited Speaker: International Conference in Medicine and Public Health (ICMPH) 2013. “ICU Symposium II,” **Bangkok, Thailand**, June 26, 2013.

Invited Speaker: Annual Critical Care Conference Thailand, “Acute brain dysfunction in shock patients,” “How to manage delirium in patients with hemodynamic instability.” **Pattaya, Thailand**, June 27-28, 2013.

Invited Speaker: Mechanical Ventilation/ Critical Medicine Forum, “Acute Brain Injury in the ICU,” “Optimizing Change to Improve the Prognosis of Patients,” “PAD Guidelines.” **Mexico City, Mexico**, July 11-13, 2013.

Invited Speaker: Society of Critical Care Medicine (SCCM) 2013 Multiprofessional Critical Care Board Review Course, “Mechanical Ventilation III: Management of Acute Respiratory Failure,” “Delirium in the ICU: Causes and Management,” “Difficult Ventilator Management Problems.” **Washington, DC**, August 9-10, 2013.

Invited Speaker and Award Recipient: German Society for Anesthesiology and Intensive Care Medicine 15th Capital City Congress, “The American Perspective: The ABCDE-Bundles,” Award: Franz-Koehler Inflammation Award, **Berlin, Germany**, September 19, 2013.

Invited Speaker: 8th Annual Meeting of the European Delirium Association, “BRAIN-ICU Cohort Study and Long-Term Brain Injury: new data,” **Leuven, Belgium**, September 20-21, 2013.

Invited Speaker: Annual Meeting of the Texas Society of Critical Care Medicine, “Modifying the ICU Experience to Incorporate the ABCDEs as Evidence Based Bundle,” **Houston TX**, November 8, 2013.

Invited Speaker: Myer Rosenthal Honorary Lecturer in Critical Care at Stanford University, “15 years of Discovery in Delirium and Long-term Cognitive Impairment After Critical Illness: epidemiology, interventions, next steps.” **Palo Alto, CA**, November 11, 2013.

Invited Moderator and Speaker: Moderator for “Denied ICU Admissions” and “After Cardiac Arrest”; Speaker on “How to provide a good death”, “We should mobilize both body and brain”, “Long term Outcomes, Acquired dementia following ICU stay” and “Trials of sedation have advanced our practice”. Sponsored by the 34th Annual International Symposium on Intensive Care and Emergency Medicine, **Brussels, Belgium**, March 18 – 21, 2014.

Invited Speaker: “Delirium Impact and Prevention”, “Less sedation more Rehabilitation”, “Implementing Guidelines on Pain, Agitation, and Delirium, using the ABCDEs of Critical Care”. Sponsored by the ECCC Conference, **Dubai, United Arab Emirates (UAE)**, **Jeddah and Riyadh of Saudi Arabia**, April 3–7, 2014.

Visiting Professorship at Johns Hopkins: ACCM Grand Rounds, John Hopkins University School of Medicine, “A New Frontier in Critical Care: Saving the Injured Brain”. **Baltimore, MD,** May 15, 2014.

Invited Speaker: Center for Medicare and Medicaid Services (CMS) Grand Rounds, US Department of Health and Human Services, “Importance of Delirium in Modern American Medicine: the case for accountability and opportunities for system improvement”,

*Grand Rounds organized to forge a relationship with CMS to continue implementation of delirium as a quality indicator in U.S. hospitals.* **Washington, DC**.July 22, 2014.

Invited Speaker: 23rd International Congress of the Israel Society of Anesthesiologists & Critical Care, “A New Frontier in Critical Care: Saving the Injured Brain” and “Pain, agitation and delirium in the ICU- tips for successful implementation of the ABCDEs and new PAD guidelines”. **Tel Aviv, Israel**, September 16 –18, 2014,

Visiting Professorship/Faculty; Weill Cornell Medical College, Annual Lectureship and Emergency Medicine Grand Rounds, “A New Frontier: Saving the Injured Brain”. **New York City, NY**, October 7 – 90, 2014.

Visiting Professorship/Faculty; Massachusetts General Hospital at Harvard Medical School, Annual Lectureship, Anesthesia Grand Rounds, Emergency Medicine Grand Rounds and Pediatric Critical Care Grand Rounds. “A New Frontier in Critical Care: Saving the Injured Brain”. **Boston, MA**, October 22 – 23, 2014.

Invited Speaker: 12th Annual Canadian Critical Care Conference, “Just let your patient wake up and breathe”. **Toronto, ON**, October 29 – November 1, 2014.

Invited Speaker: Scottish Intensive Care Society Annual Scientific Meeting, “Monitoring and Managing Acute Brain Failure and Pain, Anxiety and Delirium: Implementing the Bundle”. **Edinburgh, Scotland**, January 22 – 23, 2015.

Faculty and Principle Investigator; ICU Liberation ABCDEF-Bundle, sponsored by Society of Critical Care Medicine, “A New Frontier: Saving the Injured Brain”. **Phoenix, AZ,** January 17 – 19, 2015.

Invited Speaker: Canadian Critical Care Conference, “A New Frontier: Saving the Injured Brain and a debate “You must be delirious in the ICU to order benzodiazepines”. **Whistler, BC**, February 24 – 27, 2015.

Invited Speaker: Grants for Early Medical/Surgical Specialists’ Transition to Aging Research (GEMSTAR) U13 Conference organized by the American Geriatrics Society (AGS) and the Alliance for Academic Internal Medicine (AAIM) and jointly funded by the National Institute on Aging (NIA) and the John A Harford Foundation, “A New Frontier: Saving the Injured Brain”. **Bethesda, MD**, March 2 – 4, 2015.

Visiting Professorship/Faculty; Annual Lectureship and Hicks Memorial Medical Grand Rounds at Northwestern University, “A New Frontier: Saving the Injured Brain”. **Chicago, IL**, April 6 – 7, 2015.

Visiting Professorship/Faculty; Annual Lectureship, Sidney Kimmel Medical College at Thomas Jefferson University, “A New Frontier: Saving the Injured Brain”. **Philadelphia, PA**, April 16 – 17, 2015.

Invited Speaker: Quality Care and Safety Symposium for Niagara Health System, “A New Frontier: Saving the Injured Brain”. **Niagara Falls, ON**, April 29 – May 3, 2015.

Faculty/Principle Investigator; American Association of Critical-Care Nurses (AACN) Conference, “ABCDEF Bundle Revamped: What’s new from AACN and SSCM?”. **San Diego, CA**, May 18 – 20, 2015.

Faculty/Principle Investigator; ICU Liberation Faculty Meeting, “A New Frontier: Saving the Injured Brain”. **Chicago, IL**, May 22 – 23, 2015.

Invited Speaker: 22nd International Mondsee Medical Meeting (IMMM) sponsored by EVER Neuro Pharma GmbH, “A New Frontier: Saving the Injured Brain”. **Salzburg, Austria**, May 26 – 29, 2015.

Invited Speaker: 2015 Adult Multiprofessional Critical Care Board Review Course sponsored by the Society of Critical Care Medicine, “A New Frontier: Saving the Injured Brain”. **Chicago, IL**, August 10 – 12, 2015.

Faculty and Principle Investigator; ICU Liberation ABCDEF-Bundle sponsored by Society of Critical Care Medicine (SCCM) “A New Frontier: Saving the Injured Brain”. **Napierville, IL**, August 13 – 14, 2015.

Faculty and Principle Investigator; ICU Liberation ABCDEF-Bundle sponsored by Society of Critical Care Medicine (SCCM) “A New Frontier: Saving the Injured Brain”. **Charlotte, NC**, August 17 – 19, 2015.

Invited Speaker: 12th Congress of the World Federation of Societies of Intensive and Critical Care Medicine (WFSICCM Seoul 2015) “Optimizing Culture Change to improve patient outcomes and Controversies in the control of pain, anxiety, and delirium in the ICU”. **Seoul, Korea**, August 29 – September 1, 2015.

Visiting Professorship/Faculty; Annual Lectureship and Division of Medicine Grand Rounds, Critical Care Rounds, Quality-Forum, ICU Liberation Collaborative Round Table, and Nursing Delirium Rounds, “Disability after critical illness- is Delirium the culprit?” and “Delirium in the Critically Ill”. **Cleveland OH**, September 16 – 17, 2015.

Invited Speaker: Rounding with VA Medical Specialty Fellows followed by lecture at the Veteran’s Administration Medical Center at Wade Park, “Disability after critical illness – is Delirium the culprit?”. **Cleveland OH**, September 18, 2015.

Faculty/Principle Investigator; ICU Liberation ABCDEF-Bundle sponsored by Society of Critical Care Medicine (SCCM), “A New Frontier: Saving the Injured Brain”. **Sacramento, CA**, September 21 -23, 2015.

Invited Speaker: ICU Workshop at the MHA Keystone Center, “Resting on Evidence and Experience: A Patient-centered approach to Sedation and Delirium Management”. **Dearborn, MI**, September 28 – 29, 2015.

Invited Speaker: NHLBI Implementation Science in Critical Care Workshop, “A Collaborative to Implement the ABCDEF Bundle”. **Bethesda, MD**, April 6-7, 2016.

Visiting Professorship, Columbia Presbyterian Hospital, Lecture and Grand Rounds, “Research Frontiers in Long-term Outcomes in Critical Care Illness”, and “Saving the Injured Brain from Acquired Dementia: A New Frontier in Critical Care”. **New York City, NY**, April 27-28, 2016.

Invited Faculty, American College of Physicians (ACP) for the Internal Medicine Meeting 2016 “Update in Critical Care Medicine”. **Washington, D.C.**, May 4-5, 2016.

Keynote Speaker, Mayo School of Continuous Professional Development, Neuro Critical Care Review Workshops: Fundamentals and Complex Multidisciplinary Care, “Cognitive Decline in Critical Illness” **Orlando, FL**, May 12, 2016.

Waltman Visiting Professorship, Medicine Grand Rounds at Dartmouth-Hitchcock Medical Center, “A New Frontier in Critical Care: Saving the Injured Brain” **Lebanon, New Hampshire**, June 15-17, 2016.

Speaker at the 1st World Sepsis Day Congress Session 13 on “Prevention of Post Sepsis Sequelae”. The program was chaired by Simon Finfer and Konrad Reinhart. The 1st World Sepsis Congress (WSC) takes place completely online and brings together highly ranked representatives of international and national healthcare authorities, NGOs, policy makers, patients, patient advocate groups, most renowned clinical scientists, researchers and pioneers in health care improvement. **On-Line**, September 9, 2016.

Plenary Keynote Speaker at the 41st ANZICS/ACCN Intensive Care Conference Session one “The science and pragmatics of managing ICU delirium.” Session two “Sedation and Delirium.” Session three was a panel discussion regarding “Sedation, Delirium and ICU Outcomes”. **Perth, Australia**, October 20-22, 2016.

Expert Consultant at the Pfizer “Ask the Expert”. Title "Death of the Benzo and Birth of ICU Liberation and the ABCDEF Bundle". **New York City, NY**, November 7, 2016.

Ake Grenvik Honorary Lecture at the Plenary Session at the Society of Critical Care Medicine (SCCM) Title: ABCDE and F Bundle: the science behind liberating ICU patients and families. **Honolulu, HI**, January 21-24, 2017.

Guest speaker at the Personalized Care in Critical Illness, the Impact on Quality Safety and Outcomes 5th National Multidisciplinary Intensive Care Study Day at the Education Centre, Tallaght Hospital, Dublin 24. Title: The ABCDEF Bundle and Impact on Survival and Survivorship-the evidence. **Dublin, Ireland**, March 10, 2017.

Invited Speaker: Royal College Physicians ICU Delirium Implementation Conference. Over 150 intensivists came from the United Kingdom. Title: “The Future Direction of the ICU”. **United Kingdom**, March 13, 2017.

Invited Speaker: “End-of-Life Care in America: A Complex Systems Perspective on Biology, Beliefs, and Behaviors” at the Santa Fe Institute. Title: Physician-Assisted Suicide and Euthanasia in the ICU: A Dialogue on Core Ethical Issues. **Chicago IL**, March 23, 2017.

Principal Investigator: ICU Liberation ABCDEF Collaborative-Final Meeting at the Offices of the Society of Critical Care Medicine (SCCM). **Naperville, IN**, April 3, 2017.

Instructor: Multiprofessional Critical Care Review Course, sponsored by Society of Critical Care Medicine, **Chicago IL**, July 25, 2017.

Invited Speaker to the New York Hospital Association (NYHA) a collaborative of 183 hospitals across the state of New York, sponsored by CMS to implement the ICU Liberation program created by the SCCM using the ABCDEF Bundle. **New York and Syracuse NY**, September 25-27, 2017.

Invited Lecturer: Loma Linda University Medical Center in **Loma Linda, CA**. The title “The Brain in Critical Illness: ICU Liberation & ABCDEF’s” was provided to an interdisciplinary audience of about 150 people with breakout sessions. December 6, 2017 and March 30, 2018.

Invited Speaker: ISICEM in **Brussels, Belguim**, on the “balance” and importance of an arousable/awake and communicative patient, as well as the role of dexmedetomidine in critically ill patients. Also served as Chair for the symposium. March 19, 2018 – March 23, 2018.

Invited Speaker: “Neuroinflammation meets cholinergic inflammatory pathway” Symposium in **Heidelberg, Germany**, 2018. April 12-14, 2018. Sponsor is Dr. Franz Köhler and Frauke Schüßler from Koehler-Chemie, a pharmaceutical company in Germany.

Invited Speaker: Annual Pfizer Symposium in **Buenos Aires, Argentina**, June 6 – 7, 2018. Titles are “Sedation in the ICU: When and drug Choice” and “Delirium: Prevention and treatment. The importance of family integration”. The audience consisted of nurses and ICU physicians, residents and physiotherapists.

“HOT TOPICS” late breaker for European Society of Intensive Care Medicine (ESICM LIVES) 2018 congress in **Paris, France**, October 20 – 24, 2018.

Keynote Lecturer: 2018 EDA Annual meeting in **Utrecht, Netherlands**, Oct 30 – Nov 3, 2018. The emphasis of the program will be on neurophsychiatry in critical care medicine. “A New Frontier in Critical Care: Saving the Injured Brain”.

Invited Speaker: Annual Swedish National Intensive Care meeting in **Stockholm, Sweden** November 12-16, 2018.

Invited Speaker: 2018 American College of Clinical Pharmacy Global Conference, October 20– 23, 2018 in **Seattle, WA.**

Invited Speaker: AARC Congeress 2018 Conference, December 5 and 6, 2018 in **Las Vegas, NV**. Donald F Egan Lecture: “The ABCDEF Bundle and the Role of the Respiratory Therapist”.

Invited Speaker: *Wasserman Visiting Lecturer*, UCLA Harbor Medical Center, March 5, 2019 in **Torrance, CA.** “A New Frontier in Critical Care: Saving the Injured Brain”.

Invited Speaker: 2019 ISICEM Annual Meeting, March 19 – 22, 2019 in **Brussels, Belgium.**

Invited Speaker: Medicine Grand Rounds, Tulane Medical Center, March 27, 2019, **New Orleans, LA.**

Invited Speaker: Alpha Omega Alpha Honor Medical Society (AOA) Banquet, Tulane University School of Medicine, March 27, 2019, **New Orleans, LA.**

Invited Speaker: Medicine Grand Rounds, LSU Medical Center, March 28, 2019, **New Orleans, LA.**

Invited Speaker: Tampa Jesuit High School, April 7, 2019, **Tampa, FL**.

Plenary Speaker: 2019 SG-ANZICS Asia Pacific Intentive Care Forum, April 18 – 22 in **Singapore, Malaysia**. “Exploring New Data: MIND USA and ABCDEF Bundle to Advance Care of the Injured Brain”.

Invited Speaker: Northwest Anesthesia Seminars: Critical Care, The Team Approach, June 20, 2019 in **Nashville, TN**.

Invited Speaker: Santa Barbara Trauma Conference, July 12th, 2019 in **Santa Barbara, CA**.

Invited Speaker: 36th International Congress on Law and Mental Health (IALMH), July 20 – 26, 2019 in **Rome, Italy**. “Humanizing Treatment of Dying ICU Patients: Fulfilling Duty to Care without Intending Death”.

Invited Collaborator: Global Council on Brain Health, *A Collaborative From AARP,* GCBP Delirium Issue Specialist Meeting, July 30 – August 1, 2019 in **Boston, MA**.

Invited Speaker: Society of Critical Care Medicine 2019 ICU Liberation Simulation Conference, September 10-11, 2019 in **Nashville, TN**.

Keynote Speaker: Advances in Critical Care Conference, September 13, 2019 in **Houston, TX.** “Analgesia, Sedation, & Delirium Management Advances in ICU Liberation to Save Lives”.

Keynote Speaker: West Virginia Trauma Symposium, September 19th, 2019 in **Roanoke, WV**.

Invited Speaker: The Hospital and Healthsystem Association of Pennsylvania, September 23, 2019. “Ventilator Associated Infections”. Virtual webinar.

Invited Speaker: Catholic Medical Association (CMA) Convention Forum, September 25 – 28, 2019 in **Nashville, TN.** “Suffering and Caring for Patients in the ICU in the Age of PAS-E”, “Dignity at the End of Life – Discussion of PAS-E”.

Invited Lecturer: Lipscomb University College of Pharmacy, October 4, 2019 in **Nashville, TN.**

Keynote Speaker: Hospital Quality Institute Conference, October 15, 2019 in **Sacramento, CA**. “Improving the Humanness of Care and ICU Outcomes with the A2F Bundle”.

Invited Speaker: St. Mary’s Ascension Hospital, October 17, 2019 in **Alma, MI**.

Invited Speaker: 2019 NIDUS Delirium Boot Camp, October 27 – 29,2019 in **State College, PA**.

Invited Faculty Lecturer: Vanderbilt Student “Hotspotting” Elective, December 11, 2019 at Vanderbilt Univserity School of Medicine in **Nashville, TN**. Hotspotting is an interprofessional course that extends its curriculum over a 12 month period to students of nursing, medicine, pharmacy, and social work. This course uses patient stories and an interactive teaching approach to develop an understanding about social determinants of health and how to care for complex patients as patient advocates, similar to the role of a community health worker or care navigator, elevating these aspects of training to the same level of importance as scientific facts and technical knowledge.

Invited Speaker: Rush University Medical Center Grand Rounds, January 8, 2020 in **Chicago, IL**.

Keynote Speaker: 5th Annual Asan Medical Center Surgical Critical Care Symposium, January 16 – 18, 2020 in **Seoul, South Korea**.

Presentation Collaborator: Alberta Society of Intensive Care Physicians Meeting , January 25, 2020 in **Lake Louise, Alberta**. “Development and validation of delirium prediction models for critically ill adults based on admission acuity”.

Invited Speaker: Creighton University Medical Center Grand Rounds, January 27, 2020 in **Omaha, NE**.

Presentation Collaborator: University of Calgary Peer Beyond Graduate Symposium, January 28, 2020 in Calgary, Alberta. “Development and Validation of Delirium Prediction Models for Critically Ill Adults Based on Admission Acuity”.

Invited Speaker: Brown University, Brown Investigators in Respiratory Diseases “BIRDS”, February 3, 2020 in **Providence, RI**.

Invited Speaker: Virtual e-ISICEM Annual Meeting, September 15-19, 2020.

Invited Speaker: 2020 Virtual NIDUS Delirium Boot Camp, October 28– 29, 2020.