**Date Updated:** January 25, 2021

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

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

2525 West End Ave, Suite 450

Nashville, Tennessee 37203-8300

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

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

**Cell Number:** (615) 406-0212

**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:

1. Townsend CA, Plavcan KA, Pal K, Brobst SW, Irish MS, **Ely EW**, Bennett JW. Hydroxyversicolorone: Isolation and characterization of a potential intermediate in aflatoxin biosynthesis. *J. Organic Chem*, 1988; 53:2472.
2. **Ely EW**, Haponik EF. Pneumonia in the elderly. *J. Thoracic Imaging,* 1991; 6:45-61.
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.
6. **Ely EW**, Pegram PS, Haponik EF. Working up the elderly patient with pneumonia, *J. Respir. Disease,* 1994; 15:222-234.
7. **Ely EW**, Bowton DL, Reed JC, Case D, Haponik EF. Portable roentgenograms identify mechanical ventilator-associated hyperinflation, *Chest,* 1994; 106:545-551.
8. **Ely EW**, Moorehead B, Haponik EF. Warehouse workers' headache: Emergency evaluation and management of 30 patients with carbon monoxide poisoning, *Am. J. Med.,* 1995; 98:145-155.
9. **Ely EW**, Seeds MC, Chilton FH, Bass DA. Neutrophil release of arachidonic acid, oxidants, and proteases: causally related or independent? *Biochim. Biophys. Acta*., 1995; 1258:135-144.
10. **Ely EW**, Johnson MM, Chiles CC, Rushing JR, Bowton DL, Freimanis RI, Choplin RH, Haponik EF. Chest X-ray changes in air space disease are associated with parameters of mechanical ventilation in ICU patients, *Am. J. Respir. Crit. Care Med.,* 1996; 154:1543-1550.
11. **Ely EW**, Baker AM, Dunagan DP, Burke HL, Smith AC, Kelly PT, Johnson MM, Browder RW, Bowton DL, Haponik EF. Effect on the duration of mechanical ventilation of identifying patients capable of breathing spontaneously, *N. Engl. J. Med.,* 1996; 335: 1864-1869. [Featured article in the 1996 Yearbook of Medicine and in the American College of Chest Physicians Journal Club].
12. **Ely EW**, Rainer RO. Myelodysplasia? - in “Images in Clinical Medicine.” *N. Engl. J. Med.,* 1997; 336: 1364.
13. **Ely EW**. Pneumonia in the elderly: diagnostic and therapeutic challenges, *Infect. Med.,* 1997; 14: 643-654.
14. **Ely EW**, Smith JM, Haponik EF. Pulmonary embolism and normal oxygenation: application of PIOPED-derived likelihood ratios, *Am. J. Med.,* 1997; 103: 541-544.
15. Johnson MM, **Ely EW**, Chiles CC, Rushing JR, Bowton DL., Freimanis, RI, Choplin, RH, Haponik, EF. Detection of hyperinflation on portable chest X-rays, *Chest,* 1998; 113: 1698-1704.
16. Thomason JWW, **Ely EW**, Chiles C, Ferretti G, Haponik EF. A reappraisal of pulmonary edema using portable supine chest radiographs in mechanically ventilated ICU patients, *Am. J. Respir. Crit. Care Med.,* 1998; 157: 1600-1608.
17. **Ely EW**, Bennett PA, Bowton DL, Murphy SM, Haponik EF. Large scale implementation of a respiratory therapist-driven protocol for ventilator weaning, *Am. J. Respir. Crit. Care Med.,* 1999; 159(2):439-446.
18. **Ely EW**, Evans GW, Haponik EF. Mechanical ventilation in a cohort of elderly patients admitted to an intensive care unit, *Ann. Intern. Med.,* 1999; 131: 96-104. [Feature article in the 1999 AnesthesiaFile and Journal Watch.]
19. **Ely EW**, Baker AM, Evans GW, Haponik EF. The prognostic significance of passing a daily screen of weaning parameters. *Intensive Care Medicine,* 1999; 25: 581-587.
20. **Ely EW**, Hite RD, Baker AM, Johnson MM, Bowton DL, Haponik EF. Venous air embolism from central venous catheterization: A need for increased physician awareness. *Crit Care Med.,* 1999; 27(10): 2113-2117.
21. Kern DG, Kuhn C III, **Ely EW**, Pransky GS, Mello CJ, Fraire AE, Muller J. Flock worker’s lung: broadening the spectrum of clinico-pathology, narrowing the spectrum of suspected etiologies. *Chest,* 2000; 117: 251-259.
22. **Ely EW**, Baker AM, Evans GW, Haponik EF. The distributions of costs of care in mechanically ventilated patients with chronic obstructive pulmonary disease. *Crit. Care Med.,* 2000;28(2): 408-413.
23. Sheretz RJ, **Ely EW**, Westbrook DM, Gledhill KS, Streed SA, Kiger B, Flynn L, Hayes S, Strong S, Cruz J, Bowton DL, Hulgan T, Haponik EF. Education of physicians-in-training can decrease the risk for vascular catheter infection. *Ann. Intern. Med.,* 2000; 132: 641-648.
24. Lynn J, **Ely EW**, McNiff K, Zhong Z, Connors A, Desbiens N, Claessens M. Living and dying with chronic obstructive pulmonary disease, 2000; *J. Am. Geriatrics Soc.,* 48: 91-100.
25. **Ely EW**, The utility of weaning protocols to expedite liberation from mechanical ventilation. *Respir. Care Clin. N. Am.,* 2000; 6(2): 303-319.
26. Milstone AP, Brumble LM, Loyd JE, **Ely EW**, Roberts JR, Pierson RN III, Dummer JS. Active CMV infection before lung transplantation: risk factors and clinical implications, *J. Heart Lung Transp.l,* 2000; 19(8): 744-750.
27. Pierson RN, Milstone AP, Loyd JE, Cheng Y, Lewis BH, Pinson CW, **Ely EW**. Lung transplantation in the United States, 1995-1997: an analysis of equity and utility, *J. Heart Lung Transplantation,* 2000; 19: 846-851.
28. Holcomb BW, Loyd JE, **Ely EW**, Johnson J, Robbins IM. Pulmonary veno-occlusive disease: a case series and new observations. *Chest,* 2000; 118(6): 1671-1679.
29. Bernard GR, Vincent J-L, Laterre P-F, LaRosa SP, Dhainaut J-F, Lopez-Rodriguez A, Steingrub JS, Garber GE, Helterbrand JD, **Ely EW**, Fisher CJ Jr. for the PROWESS Sepsis Study Group, Efficacy and safety of recombinant human activated protein C for treatment of patients with severe sepsis, *N. Engl. J. Med.,* 2001; 344(10): 699-709. [Reviewed by ACP Journal Club, December 2001.]
30. Namen AM, **Ely EW**, Tatter SB, Case DL, Lucia MA, Smith A, Landry S, Wilson JA, Glazier SS, Branch CL, Kelly DL, Bowton DL, Haponik EF. Predictors of successful extubation in neurosurgical patients, *Am. J. Respir. Crit. Care Med.,* 2001; 163: 658-664.
31. Lucia MA, **Ely EW**. Images in clinical medicine: Superficial thrombophlebitis. *N. Engl. J. Med.,* 2001; 344(16):1214.
32. **Ely EW**, Siegel MD, Inouye SK. Delirium in the intensive care unit: an under-recognized syndrome of organ dysfunction, *Sem. Respir. Crit. Care Med.,* 2001; 22(2):115-126. [Featured article of Medscape: <http://www.medscape.com/viewarticle/410883_1> ]
33. **Ely EW**, Margolin R, May FJ, Truman B, Wheeler A, Dittus B, Speroff T, Gautam S, Bernard G, Inouye S. Evaluation of delirium in critically ill patients: Validation of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU), *Crit Care Med.,* 2001; 29(7):1370-1379.
34. **Ely EW**, Smith AC, Chiles C, Aquino SL, Harle TS, Evans GW, Haponik EF. Radiologic determination of intravascular volume status using portable, digital chest radiography: a prospective investigation in 100 patients, *Crit Care Med.,* 2001;29(8):1502-1512.
35. Runo JR, **Ely EW**. Treating dyspnea in a patient with advanced chronic obstructive pulmonary disease, *West J. Med.,* 2001; 175(3): 197-201.
36. Holcomb BW, Wheeler AP, **Ely EW**. New ways to reduce unnecessary variation and improve outcomes in the ICU, *Curr Opin Crit Care,* 2001; 7:304-311.
37. Bernard GR, **Ely EW**, Wright TJ, Helterbrand JD, Yan SB. For the rhAPC Sepsis Study Group, Safety and dose-relationship of recombinant human activated protein C (rhAPC) on coagulopathy in severe sepsis, *Crit. Care Med.,* 2001; 29(11):2051-2059.
38. **Ely EW**, Inouye SK, Bernard GR, Gordon S, Francis J, May L, Truman B, Speroff T, Gautam S, Margolin R, Hart RP, Dittus R. Delirium in mechanically ventilated patients: Validation and reliability of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU), *JAMA*, 2001; 286(21):2703-2710.
39. **Ely EW**, Wheeler AP, Thompson BT, Ancukiewicz M, Steinberg KP, Bernard GR., for the Acute Respiratory Distress Syndrome Network. Recovery rate and prognosis in older persons who develop acute lung injury and the acute respiratory distress syndrome, *Ann. Intern. Med.,* 2002; 136: 24-35. [Selected for publication in the 2003 edition of *Year Book of Critical Care*, Mosby-Year Book, Inc.]
40. MacIntyre N, Cook D, **Ely EW**, Epstein S, Fink J, Heffner J, Hess D, Hubmayr R, Scheinhorn D. Evidence-based guidelines for weaning and discontinuing ventilatory support. A collective task force facilitated by the American Association for Respiratory Care; and the American College of Critical Care Medicine, *Chest,* 2001; 120(6): 375S-395S.
41. **Ely EW**, Meade MO, Haponik EF, Kollef MH, Cook DJ, Guyatt GH, Stoller JK. Mechanical ventilator weaning protocols driven by nonphysician health-care professionals: Evidence based clinical practice guidelines, *Chest,* 2001; 120:454S-463S.
42. **Ely EW**, Gautam S, Margolin R, Francis J., May L, Speroff T, Truman B, Dittus R, Bernard GR, Innouye SK. The impact of delirium in the intensive care unit on hospital length of stay, *Intensive Care Med.,* 2001; 27:1892-1900.
43. Esteban A, Anzueto A, Frutos F, Alía I, Brochard L, Stewart TE, Benito S, Epstein SK, Apezteguía C, Nightingale P, Arroliga AC, Tobin MJ., for the Mechanical Ventilation International Study Group [includes **Dr. Ely**]. Characteristics and outcomes in adult patients receiving mechanical ventilation: a 28-day international study. *JAMA*, 2002; 287:345-355.
44. Brumble LM, Milstone AP, Loyd JE, **Ely EW**, Pierson RN, Gautam, S., Dummer, J.S. Prevention of cytomegalovirus infection and disease after lung transplantation. Results using a unique regimen employing delayed ganciclovir. *Chest,* 2002; 121:407-414.
45. Lawson WE, **Ely EW**. The use of drotrecogin alfa (activated) in the management of the patient with severe sepsis. *Today’s Therapeutic Trends,* 2002;20(2):159-182.
46. **Ely EW**, Haponik EF. Using the chest radiograph to determine intravascular volume status: the role of the vascular pedicle width. *Chest.* 121(3):942-950, 2002. [Featured article in Emergency Medicine Journal Watch, June 2002; [http://jwatch.org/cgi/content/full/ 2002/612/6](http://jwatch.org/cgi/content/full/2002/612/6). Also selected for publication in the 2003 edition of edition of Year Book of Critical Care, Mosby-Year Book, Inc.]
47. Destarac LA, **Ely EW**. Sepsis in older patients: an emerging concern in critical care. *Advances in Sepsis,* 2002; 2(1):15-22.
48. Key NS, **Ely EW**. Coagulation inhibition for sepsis. *Curr Opin Hematol*, 2002; 9(5):416-421.
49. **Ely EW**, Laterre P-F, Angus DC, Helterbrand JD, Levy H, Dhainaut J-F, Vincent J-L, Macias ML, Bernard GR. for the PROWESS Sepsis Study Group. Drotrcogin alfa (activated) administration across clinically important subgroups of patients with severe sepsis, *Crit. Care Med.,* 2003; 31(1)12-19.
50. Angus DC, Linde-Zwirble WT, Clermont G, Ball DE, Basson BR, **Ely EW**, Laterre P-F, Vincent J-L, Bernard G, van Hout B., for the PROWESS Investigators. Cost-effectiveness of drotrecogin alfa (activated) in the treatment of severe sepsis. *Crit Care Med.,* 2003; 31(1)1-11.
51. Martin GS, **Ely EW**, Carroll FE, Bernard GR. Correlation of the portable chest radiograph with fluid balance in critically ill patients. *Chest,* 2003; 122(6):2087-2095.
52. Cox CE, Carson SS, **Ely EW**, Govert JA, Garrett JM, Brower RG, Morris DG, Abraham E, Donnabella V, Spevetz A, Hall JB. Effectiveness of medical residents' education in mechanical ventilation. *Am. J. Respir. Crit. Care Med.,* 2003; 167(1):32-38.
53. McNicoll L, Pisani MA, Zhang Y, **Ely EW**, Siegel MD, Inouye SK. Delirium in the intensive care unit: occurrence and clinical course in older patients. *J Am Geriatr Soc,* 2003; 51:591-598.
54. Truman B, May L, **Ely EW**. Monitoring delirium in the ICU using the CAM-ICU [quiz 37-8] *Crit Care Nurse,* 2003; 23(2):25-36.
55. Jackson JC, Hart RP, Gordon SM, Shintani A, Truman B, May L, **Ely EW**. Six-month neuropsychological outcome of medical intensive care unit patients. *Crit. Care Med.,* 2003; 31(4):1226-1234.
56. **Ely EW**, Kleinpell RM, Goyette RE. Advances in the understanding of clinical manifestations and therapy of severe sepsis: an update for critical care nurses. [quiz 134-5]  *Am J Crit Care,* 2003; 12(2):120-133.
57. Angus DC, Carlet J. Surviving intensive care: a report from the 2002 Brussels Roundtable **(Dr. Ely was part of the roundtable conference and contributed work to this manuscript.)** *Intensive Care Med.,* 2003; 29:368-377.
58. **Ely EW**, Truman B, Shintani A, Thomason JWW, Wheeler AP, Gordon S, Francis J, Speroff T, Gautam S, Margolin R, Dittus R, Bernard G, Sessler CN. Monitoring sedation status over time in ICU patients: the reliability and validity of the Richmond Agitation Sedation Scale (RASS). *JAMA,* 2003; 289:2983-2991.
59. **Ely EW**, Angus DC, Williams MD, Bates B, Qualy R, Bernard GR. Drotrecogin Alfa (activated) treatment of older patients with severe sepsis. *Clin. Infect. Dis,* 2003;37(2):187-195. [Chosen for Year Book of Medicine]
60. **Ely EW**. Optimizing outcomes for older patients treated in the intensive care unit. *Intensive Care Med.,* 2003; 29:2112-5.
61. Wood KA, **Ely EW**. What does it mean to be critically ill and elderly? *Curr Opin Crit Care,* 2003; 9(4):316-320.
62. Lawson EW, **Ely EW**. Managing severe sepsis with activated protein C. [Invited Article] *J Respir Dis,* 2003; 24(9):348-394.
63. Pisani MA, Redlich C, McNicoll L, **Ely EW**, Inouye SK. Underrecognition of preexisting cognitive impairment by physicians in older ICU patients. *Chest,* 2003;124:2267-2274.
64. **Ely EW**, Stephens RK, Jackson JC, Thomason JW, Truman B, Gordon S, Dittus RS, Bernard GR. Current opinions regarding the importance, diagnosis, and management of delirium in the intensive care unit: a survey of 912 healthcare professionals. *Crit Care Med.,* 2004; 32(1):106-112.
65. Esteban A, Anzueto A, Frutos F, Immaculada A, **Ely EW**, Brochard L, Stewart TE, Apezteguia C, Tobin MJ, Nightingale P, Dimitrios M, Pimentel J., for the Mechanical Ventilation International Study Group. Outcome of elderly patients receiving mechanical ventilation. *Intensive Care Med.,* 2004; 30:639-646.
66. **Ely EW**, Truman B, Manzi DJ, Sigl JC, Shintani A, Bernard GR. Consciousness monitoring in ventilated patients: Bispectral (BIS) EEG monitors arousal not delirium. *Intensive Care Med.,* 2004; 30:1537-1543.
67. **Ely EW**, Shintani A, Truman B, Speroff T, Gordon SM, Harrell FE Jr., Inouye SK, Bernard GR, Dittus RS. Delirium as a predictor of mortality in mechanically ventilated patients in the intensive care unit. *JAMA,* 2004;291(14):1753-1762. [Elliot Newman Prize awarded for the outstanding clinical research paper at Vanderbilt University 2004] \* Chosen for the 2004 Yearbook in Medicine.
68. Milbrandt EB, Deppen S, Harrison PL, Shintani AK, Speroff T, Stiles RA, Truman B, Bernard GR, Dittus RS, **Ely EW**. Costs associated with delirium in mechanically ventilated patients. *Crit Care Med.,* 2004; 32(4):955-962.
69. Truman B, Gordon S, **Ely EW**. Delirium: A neglected danger in the ICU. *Ann Long-Term Care*, 2004; 12:18-22.
70. Bernard GR, Margolis BD, Shanies HM, **Ely EW**, Wheeler AP, Levy H, Wong K, Wright JT. ENHANCE US: A single-arm, phase 3B, multicenter study of drotrecogin alfa (activated) in severe sepsis. *Chest*, 2004;125(6):2206-2216.
71. Angus DC, Laterre P-F, Helterbrand J, **Ely EW**, Ball DE, Weissfeld LA, Bernard G, for the PROWESS Investigators. The effect of drotrecogin alfa (activated) on hospital outcomes and long-term survival after severe sepsis. *Crit Care Med.,* 2004; 32:2199-2206.
72. Jackson JC, Gordon SM, **Ely EW**, Burger C, Hopkins RO. Research Issues in the evaluation of cognitive impairment in ICU survivors. *Intensive Care Med.,* 2004; 30:2009-2016.
73. Gordon SM, Jackson JC, **Ely EW**, Burger C, Hopkins, RO. Clinical identification of cognitive impairment in ICU survivors: Insights for intensivists. *Intensive Care Med.,* 2004; 30:1997-2008.
74. Polderman KH, **Ely EW**, Badr AE, Girbes AR. Induced hypothermia in traumatic brain injury: considering the conflicting results of meta-analyses and moving forward. *Intensive Care Med.,* 2004; 30(10):1860-1864.
75. Pun BT, **Ely EW**. The delirium dilemma in the intensive care unit: current concepts in monitoring and management. *Primary Psychiatry*, 2004; 11:59-64.
76. Goyette RE, Key NS, **Ely EW**. Hematologic changes in sepsis and their therapeutic implications. *Sem Respir Crit Care Med.,* 2004; 25:645-659.
77. Zeiher BG, Artigas A, Vincent JL, Dmitrienko A, Jackson K, Thompson BT, Bernard G. **(Dr. Ely served as a Coordinating Center Physician for this study)** Neutrophil elastase inhibition in acute lung injury: results of the STRIVE study. *Crit Care Med.,* 2004; 32:1695-1702.
78. Girard TD, Opal SM, **Ely EW**. Insights into severe sepsis in older patients: from epidemiology to evidence-based management. *Clin Infect Dis,* 2005; 40:719-27.
79. Levy CR, **Ely EW**, Payne K, Engelberg RA, Patrick DL, Curtis JR. Quality of dying and death in two medical ICUs: perceptions of family and clinicians. *Chest,* 2005; 127(5):1775-1783.
80. Thomason JWW, Shintani A, Peterson JF, Pun BT, Jackson J, **Ely EW**. Intensive care unit delirium is an independent predictor of longer hospital stay: a prospective analysis of 261 non-ventilated patients. *Crit Care,* 2005; 9:R375-R381.
81. Pun BT, Gordon SM, Peterson JF, Shintani AK, Jackson JC, Foss J, Harding SD, Bernard GR, Dittus RS, **Ely EW**. Large-scale implementation of sedation and delirium monitoring in the intensive care unit: A report from two medical centers. *Crit Care Med.,* 2005; 33(6):1199-1205.
82. Pisani MA, Redlich CA, McNicoll L, **Ely EW**, Friedkin RJ, Inouye SK. Short-term outcomes in older intensive care unit patients with dementia. *Crit Care Med.,* 2005; 33(6):1371-1376.
83. Pandharipande P, **Ely EW**. Maze M. Alpha-2 agonists: can they modify the outcomes in the Postanesthesia Care Unit? *Curr Drug Targets,* 2005; 6(7):749-754.
84. Pandharipande P, Jackson J, **Ely EW**. Delirium: acute cognitive dysfunction in the critically ill. *Curr Opin Crit Car*e, 2005; 11(4):360-368.
85. Wall RJ, **Ely EW**, Elasy TA, Dittus RS, Foss J, Wilkerson KS, Speroff T. Using real time process measurements to reduce catheter related bloodstream infections in the intensive care unit. *Qual Saf Health Care,* 2005; 14(4):295-302.
86. Opal SM, Girard TD, **Ely EW**. The immunopathogenesis of sepsis in the elderly. *Clin Infect Dis.,* 2005; 41:S504-12.
87. McNicoll L, Pisani MA, **Ely EW**, Gifford D, Inouye SK. Detection of delirium in the intensive care unit: comparison of Confusion Assessment Method for the Intensive Care Unit with confusion assessment method ratings. *J Am Geriatr Soc,* 2005; 53:495-500.
88. Peterson JF, Pun BT, Dittus RS, Thomason JW, Jackson JC, Shintani AK, **Ely EW**. Delirium and its motoric subtypes: a study of 614 critically ill patients. *J Am Geriatr Soc.,* 2006; 54:479-84.
89. Miller RR, **Ely EW**. Radiographic measures of intravascular volume status: the role of vascular pedicle width. *Curr Opin Crit Care,* 2006; 12:255-62.
90. Pandharipande P, **Ely EW**. Sedative and analgesic medications: risk factors for delirium and sleep disturbances in the critically ill. *Crit Care Clin,* 2006; 22:313-327.
91. Miller RR, **Ely EW**. Delirium and cognitive dysfunction in the intensive care unit. *Semin Respir Crit Care Med.,* 2006; 27:210-20.
92. Miller RR, **Ely EW**. Delirium and cognitive dysfunction in the intensive care unit. *Curr Psychos Ther Rep,* 2006; 4:55-64.
93. Nelson JE, Tandon N, Mercado AF, Camhi SL, **Ely EW**, Morrison RS. Brain dysfunction: another burden for the chronically critically ill. *Arch Intern Med.,* 2006; 166(18):1993-1999.
94. Pandharipande PP, Shintani A, Peterson J, Pun BT, Wilkinson GR, Dittus R, Bernard G, **Ely EW**. Lorazepam is an independent risk factor for transitioning to delirium in intensive unit patients. *Anesthesiology,* 2006; 104:21-26.
95. Pisani MA, Araujo KL, Van Ness PH, Zhang Y, **Ely EW**, Inouye SK. A research algorithm to improve detection of delirium in the intensive care unit. *Crit Care,* 2006; 10 (4):R121.
96. Miller RR, **Ely EW**. Radiographic measures of intravascular volume status: the role of vascular pedicle width. *Curr.Opin.Crit Care,* 2006; 12(3):255-262.
97. Nelson JE, Tandon N, Mercado AF, Camhi SL, **Ely EW**, Morrison RS. Brain dysfunction: another burden for the chronically critically ill. *Arch.Intern.Med.,* 2006; 166 (18):1993-1999.
98. **Ely EW**, Girard TD, Shintani AK, Jackson JC, Gordon SM, Thomason JWW, Pun BT, Canonico AE, Light RW, Pandharipande P, Laskowitz DT. Apolipoprotien E4 polymorphism as a genetic predisposition to delirium in critically ill patients. *Crit Care Med.,* 2007; 35:112-117.
99. Jackson JC, Obremskey W, Bauer R, Greevy W, Cotton BA, Anderson V, Song Y, **Ely EW**. Long-term cognitive, emotional, and functional outcomes in trauma intensive care unit survivors without intracranial hemorrhage. *J. Trauma,* 2007; 62 (1):80-88.
100. Jackson JC, Hart RP, Gordon SM, Hopkins RO, Girard TD, **Ely EW**. Post-traumatic stress disorder and post-traumatic stress symptoms following critical illness in medical intensive care unit patients: assessing the magnitude of the problem. *Crit Care,* 2007; 11 (1):R27.
101. Girard TD, Shintani AK, Jackson JC, Gordon SM, Pun BT, Henderson MS, Dittus RS, Bernard GR, **Ely EW**. Risk factors for posttraumatic stress disorder symptoms following critical illness requiring mechanical ventilation: a prospective cohort study. *Crit Care,* 2007; 11(1):R28.
102. Christie JD, Robinson N, Ware LB, Plotnick M, De Andre J, Lama V, Milstone A, Orens J, Weinacker A, DeMissie E, Bellamy S, Kawut SM. **(Dr. Ely served as a physician on the Lung Transplant Outcomes Group.)** Association of Protein C and Type 1 Plasminogen Activator Inhibitor with Primary Graft Dysfunction. *Am J Respir Crit Care Med.,* 2007; 175: 69-74.
103. Girard TD, **Ely EW**. Bacteremia and sepsis in older patients. *Clin Geriatr Med.,* 2007; 23(3):633-647.
104. Levi M, Levy M, Williams MD, Douglas I, Artigas A, Antonelli M, Wyncoll D, Janes J, Booth FV, Wang D, Sundin DP Marcias WL. Prophylactic Heparin in patients with severe sepsis treated with Drotrecogin Alfa (Activated). [**Dr. Ely** served on the Data Safety Monitoring Board (DSMB) for this investigation.]  *Am J Respir Crit Care Med., 2007;* 176:483-490.
105. Pun B, **Ely EW**. The importance of diagnosing and managing ICU delirium. *Chest,* 2007; 132:624-636.
106. Gunther ML, Jackson JC, **Ely EW**. The cognitive consequences of critical illness: Practical recommendations for screening and assessment. *Crit Care Clin, 2007;* 23:491-506.
107. Hopkins RO, **Ely EW**, Jackson JC. The role of future longitudinal studies in ICU survivors: understanding determinants and pathophysiology of brain dysfunction. *Curr Opin Crit Care,* 2007; 13:497-502.
108. Masica AL, Girard TD, Wilkinson GR, Thomason JWW, Pun BT, Nair UB, Light RW, Canonico AE, Dunn J, Pandharipande P, Shintani AK, **Ely EW**. Clinical sedation scores as indicators of sedative and analgesic drug exposure in intensive care unit patients. *Am J Geriatr Pharmacother,* 2007; 5(3):218-231.
109. Gunther ML, Jackson JC, **Ely EW**. Loss of IQ in the ICU brain injury without the insult. *Med Hypotheses,* 2007; 69(6):1179-82.
110. Pandharipande PP, Pun BT, Herr DL, Maze M, Girard TD, Miller RR, Shintani AK, Thompson JL, Jackson JC, Deppen SA, Stiles RA, Dittus RS, Bernard GR, **Ely EW**. Effect of sedation with dexmedetomidine vs lorazepam on acute brain dysfunction in mechanically ventilated patients: the MENDS randomized controlled trial. *JAMA,* 2007; 298(22):2644-2653.
111. Pandharipande PP, Cotton BA, Shintani A, Thompson J, Costabile S, Pun BT, Dittus R, **Ely EW**. Motoric subtypes of delirium in mechanically ventilated surgical and trauma intensive care unit patients. *Intensive Care Med.,* 2007; 33(10):1726-1731.
112. Girard TD, Kress JP, Fuchs BD, Thomason JWW, Schweickert WD, Pun BT, Taichman DB, Dunn JG, Pohlman AS, Kinniry PA, Jackson JC, Canonico AE, Light RW, Shintani AK, Thompson JL, Gordon SM, Hall JB, Dittus RS, Bernard GR, **Ely EW**. Efficacy and safety of a paired sedation and ventilator weaning protocol for mechanically ventilated patients in intensive care (Awakening and Breathing Controlled trial): a randomised controlled trial. *Lancet,* 2008; 371:126-134. *[Rated “F1000 Factor 10.0: Exceptional” in the Faculty of 1000 Medicine]*
113. Nelsestuen GL, Harvey SB, Zhang Y, Kasthuri RS, Sinaiko AR, **Ely EW**, Bernard GR, Homoncik M, Jilma B. Top-down proteomic analysis by MALDI-TOF profiling: Concentration-independent biomarkers. *Proteomics Clin Appl,* 2008; 2(2):158-166.
114. Pandharipande P, Girard TD, Sanders RD, Thompson JL, Maze M, **Ely EW**. Comparison of sedation with dexmedetomidine versus lorazepam in septic ICU patients. *Crit Care,* 2008; 12(Suppl 2):275.
115. Girard T, **Ely EW**. Protocol-driven ventilator weaning: Reviewing the evidence. *Clin Chest Med.,* 2008; 2(29):241-252.
116. Gunther ML, Morandi A, **Ely EW**. Pathophysiology of delirium in the intensive care unit. *Crit Care Clin,* 2008; 24(1):45-65.
117. Girard TD, Pandharipande PP, **Ely EW**. Delirium in the intensive care unit. *Crit Care,* 2008; 12(Suppl 3):S3.
118. Girard TD, **Ely EW**. Delirium in the critically ill patient. *Handb Clin Neurol,* 2009; 90:39-56.
119. Morandi A, Gunther ML, **Ely EW**, Pandharipande PP. The pharmacological management of delirium in critical illness. *Curr Drug Ther,* 2008; (3):148-157.
120. Morandi A, Pandharipande P, Trabucchi M, Rozzini R, Mistraletti G, Trompeo AC, Gregoretti C, Gattinoni L, Ranieri MV, Brochard L, Annane D, Putensen C, Guenther U, Fuentes P, Tobar E, Anzueto AR, Esteban A, Skrobik Y, Salluh JI, Soares M, Granja C, Stughaug A, de Rooij SE, **Ely EW**. Understanding the international differences in terminology for delirium and other types of acute brain dysfunction in critically ill patients. *Intensive Care Med.,* 2008; 34:1907-1915.
121. Watson PL, Shintani AK, Tyson R, Pandharipande PP, Pun BT, **Ely EW**. Presence of electroencephalogram burst suppression in sedated, critically ill patients is associated with increased mortality. *Crit Care Med.,* 2008; 36(12):3171-3177. *[Rated “F1000 Factor 3.0: Recommended” by the Faculty of 1000 Medicine]*
122. Wall RJ, **Ely EW**, Talbot TR, Weinger MB, Williams MV, Reischel J, Burgess LH, Englebright J, Dittus RS, Speroff T, Deshpande JK. Evidence-based algorithms for diagnosing and treating ventilator-associated pneumonia. *J Hosp Med.,* 2008; 3:409-422.
123. Pandharipande P, Cotton BA, Shintani A, Thompson J, Pun BT, Morris JA, Dittus R, **Ely EW**. Prevalence and risk factors for development in delirium in surgical and trauma intensive care patients. *J Trauma,* 2008; 65:34-41.
124. Soja SL, Pandharipande PP, Fleming SB, Cotton BA, Miller LR, Weaver SG, Lee BT, **Ely EW**. Implementation, reliability testing, and compliance monitoring of the Confusion Assessment Method for the Intensive Care Unit in trauma patients. *Intensive Care Med.,* 2008; 34(7):1263-1268.
125. Tsuruta R, Girard TD, **Ely EW**, Fujimoto K, Ono T, Tanaka R, Oda Y, Kasaoka S, Maekawa T. Associations between markers of inflammation and cholinergic blockade and delirium in intensive care unit patients: a pilot study. *Bull Yamaguchi Med School,* 2008; 55:35-42.
126. Harvey SB, Zhang Y, Wilson-Grady J, Monkkonen T, Nelsestuen GL, Kasthuri RS, Verneris MR, Lund TC, **Ely EW**, Bernard GR, Zeisler H, Homoncik M, Jilma B, Swan T, and Kellogg TA. The O-glycoside biomarker of Apolipoprotein C3: Responsiveness to obesity, bariatric surgery and therapy with metformin, to chronic or severe liver disease and to mortality in severe sepsis and graft vs. host disease. *J Proteome Res, 2009;* 8(2): 603-612.
127. Riker RR, Shehabi Y, Bokesch PM, Ceraso D, Wisemandle W, Koura F, Whitten P, Margolis BD, Byrne DW, **Ely EW**, Rocha MG. Dexmedetomidine vs Midazolam for sedation of critically ill patients: The SEDCOM randomized trial. *JAMA*, 2009; 301(5):489-499.

*[Rated “F1000 Factor 8.5: Exceptional” by the Faculty of 1000 Medicine]*

1. Han JH, Zimmerman EE, Cutler N, Schnelle J, Morandi A, Dittus RS, Storrow AB, **Ely EW**. Delirium in older emergency department patients: Recognition, risk factors, and psychomotor subtypes. *Acad Emerg Med.,* 2009; 16(3):193-200.
2. Patel RP, Gambrell M, Speroff T, Scott TA, Pun BT, Okahashi J, Strength C, Pandharipande P, Girard TD, Burgess H, Dittus RS, Bernard GR, **Ely EW**. Delirium and sedation in the intensive care unit: Survey of behaviors and attitudes of 1384 healthcare professionals. *Crit Care Med.,* 2009; 37(3):825-832.
3. Han JH, Morandi A, **Ely EW**, Callison C, Zhou C, Storrow AB, Dittus RS, Habermann R, Schnelle J. Delirium in the nursing home patients seen in the emergency department. *J Am Geriatr Soc,* 2009; 57(5): 889-894.
4. Morandi A, Solberg LM, Habermann R, Cleeton P, Peterson E, **Ely EW**, Schnelle J. Documentation and management of words associated with delirium among elderly patients in postacute care: A pilot investigation. *J Am Med Dir Assoc,* 2009; 10:330-334.
5. Pandharipande PP, Shintani AK, Hagerman HE, St Jacques PJ, Rice TW, Sanders NW, Ware LB, Bernard GR, **Ely EW**. Derivation and validation of Spo2/Fio2 ratio to impute for Pao2/Fio2 ratio in the respiratory component of the Sequential Organ Failure Assessment score. *Crit Care Med.,* 2009; 37(4):1317-1321.
6. Morandi A, Jackson JC, **Ely EW**. Delirium in the intensive care unit. *Int Rev Psychiatry,* 2009; 21(1):43-58.
7. Morandi A, Watson PL, Trabucchi M, **Ely EW**. Advances in sedation for critically ill patients. *Minverva Anestesiologica,* 2009; 75(6):385-391.
8. Smith HAB, Fuchs DC, Pandharipande PP, Barr FE, **Ely EW**. Delirium: An emerging frontier in the management of critically ill children. *Crit Care Clin,* 2009; (3) 25:593-614.
9. Pandharipande P, **Ely EW**. Sedation and analgesia in the ICU--pharmacology, protocolization, and clinical consequences. Preface. *Crit Care Clin,* 2009; 29(4): xv-xvi.
10. Guenther U, Popp J, Koecher L, Muders T, Wrigge H, **Ely EW**, Putensen C. Validity and Reliability of the CAM-ICU Flowsheet to diagnose delirium in surgical ICU patients. *J Crit Care,* 2009; 24(1):144-51.
11. **Ely EW**. Physician assisted death. *Crit Care Med.,* 2009; 37(8):2492-2493.
12. [Morandi A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Morandi%20A%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstract), [Han JH](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Han%20JH%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstract), [Callison C](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Callison%20C%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstract), [**Ely EW**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Ely%20EW%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstract), [Schnelle JF](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Schnelle%20JF%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstract). Delirium in nursing home residents across care transitions: a preliminary report. [*J Am Geriatr Soc*,](javascript:AL_get(this,%20'jour',%20'J%20Am%20Geriatr%20Soc.');) 2009; 57(10):1956-1958.
13. Shintani AK, Girard TD, Eden SK, Arbogast PG, Moons KGM, **Ely EW**. Immortal time bias in critical care research: Application of time-varying Cox regression for observational cohort studies. *Crit Care Med.,* 2009; 37(11): 2939-2945.
14. Pandharipande PP, Morandi A, Adams JR, Girard TD, Thompson JL, Shintani AK, **Ely EW**. Plasma tryptophan and tyrosine levels are independent risk factors for delirium in critically ill patients. *Intensive Care Med.,* 2009; 35(11): 1886-1892.
15. Weinhouse GL, Schwab RJ, Watson PL, Patil N, Vaccaro B, Pandharipande P, **Ely EW**. Bench-to-bedside review: Delirium in ICU patients- importance of sleep deprivation. *Critical Care,* 2009; 13:234.
16. King MS, Render ML, **Ely EW**, Watson PL. Liberation and animation: strategies to minimize brain dysfunction in critically ill patients. *Semin Respir Crit Care Med.,* 2010; 31(1): 87-96.
17. Tobar E, Romero C, Galleguillos T, Fuentes P, Cornejo R, Lira MT, de la Barrera L, Sanchez JE, Bozan F, Bugedo G, Morandi A, **Ely EW**. [Confusion assessment method for diagnosing delirium in ICU patients (CAM-ICU): Cultural adaptation and validation of the Spanish version.] *Med Intensiva,* 2010; 43: 14-21.
18. Guenther U, Popp J, Koecher L, Muders T, Wrigge H, **Ely EW**, Putensen C. Validity and reliability of the CAM-ICU Flowsheet to diagnose delirium in surgical ICU patients. *J Crit Care,* 2010; 25(1):144-151.
19. Pandharipande PP, Sanders RD, Girard TD, McGrane S, Thompson JL, Shintani AK, Herr DL, Maze M, **Ely EW**. Effect of Dexmedetomidine versus Lorazepam on outcome in patients with sepsis: an a priori-designed analysis of the MENDS randomized controlled trial. *Crit Care,* 2010; 14(2):R38. *[Rated “F1000 Factor 4.8: Must Read” by the Faculty of 1000 Medicine]*
20. Pandharipande PP, Banerjee A, McGrane S, **Ely EW**. Liberation and animation for ventilated ICU patients: the ABCDE bundle for the back-end of critical care. *Crit Care,* 2010; 14(3):157.
21. Mac Sweeney R, Barber V, Page V, **Ely EW**, Perkins GD, Young JD, McAuley DF for the Inensive Care Foundation. A national survey of the management of delirium in UK intensive care units. *Q J Med.,* 2010; 103(4):243-51.
22. Girard TD, Pandharipande PP, Carson SS, Schmidt GA, Wright PE, Canonico AE, Pun BT, Thompson JL, Shintani AK, Meltzer HY, Bernard GR, Dittus RS, **Ely EW**. Feasibility, efficacy, and safety of antipsychotics for intensive care unit delirium: The MIND randomized, placebo-controlled trial. *Crit Care Med.,* 2010; 38(2):428-437. *[Rated “F1000 Factor 3.2: Recommended” by the Faculty of 1000 Medicine]*
23. Girard TD, Jackson JC, Pandharipande PP, Pun BT, Thompson JL, Shintani AK, Gordon SM, Canonico AE, Dittus RS, Bernard GR, **Ely EW**. Delirium as a predictor of long-term cognitive impairment in survivors of critical illness. *Crit Care Med.,* 2010; 38(7):1513-1520. *[Rated “F1000 Factor 6.0: Must Read” by the Faculty of 1000 Medicine]*
24. Vasilevskis EE, Pandharipande PP, Girard TD, **Ely EW**. A screening, prevention, and restoration model for saving the injured brain. *Crit Care Med.,* 2010; 38(10): S683-S691.
25. Mahler DA, Selecky PA, Harrod CG, Benditt JO, Carrieri-Kohlman V, Curtis JR, Manning HL, Mularski RA, Varkey B, Campbell M, Carter ER, Chiong JR, **Ely EW**, Hansen-Flaschen J, O'Donnell DE, Waller A. American College of Chest Physicians consensus statement on the management of dyspnea in patients with advanced lung or heart disease. *Chest,* 2010; 137(3):674-691.
26. Han JH, Wilson A, **Ely EW**. Delirium in the older emergency department patient: a quiet epidemic. *Emerg Med Clin North Am,* 2010; (28)3:611-631.
27. Janz DR, Abel TW, Jackson JC, Gunther ML, Heckers S, **Ely EW**. Brain autopsy findings in intensive care unit patients previously suffering from delirium: A pilot study. *J Crit Care*, 2010; (25): 538.e7-538.e12.
28. Chumbler NR, Quigley P, Sanford MA, Griffiths P, Rose D, Morey M, **Ely EW**, Hoenig H. Implementing telerehabilitation research for stroke rehabilitation with community dwelling veterans: Lessons learned. *Intl J Telerehab* 2010; 2(1):15-21.
29. Morandi A, Gunther ML, Vasilevskis EE, Girard TD, Hopkins RO, Jackson JC, Pandharipande PP, **Ely EW**. Neuroimaging in delirious intensive care unit patients: A preliminary case series report. *Psychiatry,* 2010; 7(9):28-33.
30. Milbrandt EB, Eldadah B, Nayfield S, Hadley E, Angus DC. Toward an integrated research agenda for critical illness in aging. *Am J Respir Crit Care Med.,* 2010; 182(8): 995-1003. *[Dr. Ely is listed as a participant in Appendix I]*
31. Vasilevskis EE, **Ely EW**,Speroff T, Pun BT, Boehm L, Dittus RS*.* Reducing iatrogenic risks:  ICU-acquired delirium and weakness – crossing the quality chasm. *Chest,* 2010; 138(5):1224-1233.
32. Han JH, Shintani AK, Eden S, Morandi A, Solberg L, Schnelle J, Dittus RS, Storrow AB, **Ely EW**. Delirium in the Emergency Department: An independent predictor of 6-month mortality. *Ann Emerg Med.,* 2010; 56(3):244-252. *[Top 25 downloaded PDFs during July-September 2010.]*
33. Toro AC, Escobar LM, Franco JG, Díaz-Gómez JL, Muñoz JF, Molina F, Bejarano J, Yepes D, Navarro E, García A, **Ely EW**, Esteban A. [Spanish version of the CAM-ICU (Confusion Assessment Method for the Intensive Care Unit). Pilot study of validation.](http://www.biomedexperts.com/Experts/Abstract.aspx?pid=20233574)  *Medicina Intensive,* 2010; 34(1):14-21.
34. Shehabi Y, Riker R, Bokesch PM, Wisemandle W, Shintani A, **Ely EW**. Delirium duration and mortality in lightly sedated, mechanically ventilated intensive care patients\* *Crit Care Med.,* 2010;38(12):2311-2318.
35. Agarwal V, O'Neill PJ, Cotton BA, Pun BT, Haney S, Thompson J, Kassebaum N, Shintani A, Guy J, **Ely EW**, Pandharipande P. Prevalence and risk factors for development of delirium in burn intensive care unit patients. *J Burn Care Res.,* 2010;31(5):706-715.
36. Jacobowski NL, Girard TD, Mulder JA, **Ely EW**. Communication in Critical Care: Family rounds in the intensive care unit. *Am J Crit Care,* 2010; 19(5):421-430.
37. Speroff T, Nwosu S, Greevy R, Weinger MB, Talbot TR, Wall RJ, Deshpande JK, France DJ, **Ely EW**, Burgess H, Englebright J, Williams MV, Dittus RS. Organizational culture: Variation across hospitals and connection to patient safety climate. *Qual Saf Health Care,* 2010;19(6):592-596.
38. Jackson JC, Girard TD, Gordon SM, Thompson JL, Shintani AK, Thomason JWW, Pun BT, Canonico AE, Dunn JG, Bernard GR, Dittus RS, **Ely EW**. Long-term cognitive and psychological outcomes in the Awakening and Breathing Controlled Trial. *Am J Respir Crit Care Med.,* 2010; 182(2):183-191.
39. Iwashyna TJ, **Ely EW**, Smith DS, Langa KM. Long-term cognitive impairment and functional disability among survivors of severe sepsis. *JAMA,* 2010; 304(16):1787-1794.
40. Zou HJ, Mei W, Zhang CH, Li YS, Liu SK, Zhang ZG, **Ely EW**, Tian YK. Reliability and validilty of revised Chinese version of Confusion Assessment Method for the Intensive Care Unit in postoperative settings: a preliminary study. *Chinese Journal of Behavioral Medicine and Brain Science*, 2010; 19(11):1046-1047.
41. Han JH, Wilson A, **Ely EW**. Delirium in the older emergency department patient: A quiet epidemic. *Emerg Med Clin North Am,* 2010;28:611-63.
42. Vasilevskis EE, Pandharipande PP, Girard TD, **Ely EW**. A screening, prevention, and restoration model for saving the injured brain in intensive care unit survivors. *Crit Care Med.,* 2010;38(10 Suppl):S683-91.
43. Vasilevskis E, Han JH, Shintani A, Girard TD, **Ely EW**. Delirium and mortality risk prediction: A story in evolution. *Critical Care,* 2010; 14:449.
44. Morandi A, Brummel NE, **Ely EW**. Sedation, delirium and mechanical ventilation: the ‘ABCDE’ approach. *Curr Opin Crit Care,* 2011;17:43-49.
45. Kleinpell R, **Ely EW**, Williams G, Liolios A, Ward N, Tisherman SA. Web-based resources for critical care education. *Crit Care Med.,* 2011; 39(3):541-553.
46. Rice TW, Ware LB, Haponik EF, Chiles C, Wheeler AP, Bernard GR, Steingrub JS, Hite RD, Matthay MA, Wright P, **Ely EW** for the NIH NHLBI ARDS Network. Vascular pedicle width in acute lung injury: correlation with intravascular pressures and ability to discriminate fluid status. *Crit Care,* 2011; 15(2):R86.
47. McGrane S, Girard TD, Thompson JL, Shintani AK, Woodworth A, **Ely EW**, Pandharipande PP. Procalcitonin and C-reactive protein levels at admission as predictors of duration of acute brain dysfunction in critically ill patients. *Crit Care,* 2011; 15:R78.
48. Morandi A, Vasilevskis EE, Pandharipande PP, Girard TD, Solberg LM, Neal EB, Koestner T, Torres R, Thompson JL, Shintani AK, Han JH, Schnelle J, Fick DM, **Ely EW**, Kripalani S. Inappropriate medications in elderly ICU survivors: where to intervene? *Arch Intern Med.,* 2011;171(11):1032-1034.
49. Rice TW, Ware LB, Haponik EF, Chiles C, Wheeler AP, Bernard GR, Steingrub JS, Hite RD, Matthay MA, Wright P, **Ely EW**; the NIH NHLBI ARDS Network. Vascular pedicle width in acute lung injury: correlation with intravascular pressures and ability to discriminate fluid status. *Crit Care,* 2011;15(2):R86.
50. Speroff T, **Ely EW**, Greevy R, Weinger MB, Talbot TR, Deshpande JK, France DJ, Nwosu S, Burgess H, Dittus RS. Quality improvement projects targeting healthcare-associated infections: Comparing collaborative and toolkit approaches. *J Hosp Med.,* 2011; 6(5):271-278.
51. Morandi A, Gunther ML, Pandharipande PP, Jackson JC, Thompson JL, Shintani AK, **Ely EW**, Girard TD. Insulin-like growth factor-1 and delirium in critically ill mechanically ventilated patients: a preliminary investigation. *Int Psychogeriatr,* 2011;23(7):1175-1181.
52. Smith HA, Boyd J, Fuchs DC, Melvin K, Berry P, Shintani A, Eden SK, Terrell MK, Boswell T, Wolfram K, Sopfe J, Barr FE, Pandharipande PP, **Ely EW**. Diagnosing delirium in critically ill children: Validity and reliability of the Pediatric Confusion Assessment Method for the Intensive Care Unit. *Crit Care Med.,* 2011;39(1):150-157.
53. Han JH, Bryce SN, **Ely EW**, Kripalani S, Morandi A, Shintani A, Jackson JC, Storrow AB, Dittus RS, Schnelle J. The effect of cognitive impairment on the accuracy of the presenting complaint and discharge instruction comprehension in older emergency department patients. *Ann Emerg Med.,* 2011;57(6):662-671.
54. Mitasova A, Kostalova M, Bednarik J, Michalcakova R, Kasparek T, Balabanova P, Dusek L, Vohanka S, **Ely EW**. Poststroke delirium incidence and outcomes: Validation of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU). *Crit Care Med.,* 2011;40:484-490*.*
55. Guenther U, Weykam J, Andorfer U, Theuerkauf N, Popp J, **Ely EW**, Putensen C. Implications of objective vs subjective delirium assessment in surgical intensive care patients. *Am J Crit Care*, 2011;21(1):e12-e20.
56. Vasilevskis EE, Morandi A, Boehm L, Pandharipande PP, Girard TD, Jackson JC, Thompson JL, Shintani A, Gordon SM, Pun BT, **Ely EW**. Delirium and sedation recognition using validated instruments: Reliability of bedside intensive care unit nursing assessments from 2007 to 2010. *J Am Geriatr Soc.,* 2011;59:S249-S255.
57. Guillamondegui O, Richards JE, **Ely EW**, Jackson JC, Archer-Swygert K, Norris PR, Obremskey WT. Does hypoxia affect intensive care unit delirium or long-term cognitive impairment after multiple trauma without intracranial hemorrhage? *J Trauma,* 2011;70(4):910-915.
58. Jackson JC, Archer KR, Bauer R, Abraham CM, Song Y, Greevey R, Guillamondegui O, **Ely EW**, Obremskey W. A prospective investigation of long-term cognitive impairment and psychological distress in moderately versus severely injured trauma intensive care unit survivors without intracranial hemorrhage. *J Trauma,* 2011;71(4):860-866.
59. Richards JE, Guillamondegui O, Archer KR, Jackson JC, **Ely EW**, Obremskey WT. The association of reamed intramedullary nailing and long-term cognitive impairment. *J Orthop Trauma,* 2011;25:707-713.
60. Choi L, Caffo BS, Kohli U, Pandharipande PP, Kurnik D, **Ely EW**, Stein CM. A Bayesian hierarchical nonlinear mixture model in the presence of artifactual outliers in a population pharmacokinetic study. *J Pharmacokinet Pharmacodyn*, 2011;38(5):613-636.
61. Hipp, DM, **Ely EW**. Pharmacological and nonpharmacological management of delirium in critically ill patients. *Neurotherapeutics*, 2011;9(1):158-175.
62. Deutschman CS, Ahrens T, Cairns CB, Sessler CN, Parsons PE. Multisociety Task Force for Critical Care Research: Key issues and recommendations. *Crit Care Med.,* 2012;40(1): 254-260. [Dr. Ely served on the Critical Care Societies’ Collaborative Task Force on Critical Care Research]
63. Kohli U, Pandharipande P, Muszkat M, Sofowora GG, Friedman EA, Scheinin M, Wood AJ, **Ely EW**, Tyndale RF, Choi L, Stein CM, Kurnik D. CYP2A6 genetic variation and dexmedetomidine disposition. *Eur J Clin Pharmacol.,* 2012; 68(6):937-942.
64. Vasilevskis EE, Girard TD, **Ely EW**. The bedside diagnosis of ICU delirium: specificity is high, let's optimize sensitivity. *Am J Respir Crit Care Med.,* 2012;185(1):107-8.
65. Deutschman CS, Ahrens T, Cairns CB, Sessler CN, Parsons PE. Multisociety Task Force for Critical Care Research: Key Issues and Recommendations. *Chest,* 2012;141:201-209. [Dr. Ely was a member of this task force and contributed to the document as noted in the published Appendix of this publication.]
66. Jackson JC, **Ely EW**, Morey MC, Anderson VM, Denne LB, Clune J, Seibert CS, Archer KR, Torres R, Janz D, Schiro E, Jones J, Shintani AK, Levine B, Pun BT, Thompson JL, Brummel NE, Hoenig H. Cognitive and physical rehabilitation of intensive care unit survivors: Results of the RETURN randomized controlled pilot investigation. *Crit Care Med.,* 2012; 40(4):1088-1097.
67. Adams JRW, Morandi A, Girard TD, Thompson JL, Boomershine CS, Shintani AK, **Ely EW**, Pandharipande PP. The association of the kynurenine pathway of tryptophan metabolism with acute brain dysfunction during critical illness. *Crit Care Med.,* 2012; 40(3): 835-841.
68. Ranieri VM, Thompson BT, Barie PS, Dhainaut JF, Douglas IS, Finfer S, Gårdlund B, Marshall JC, Rhodes A, Artigas A, Payen D, Tenhunen J, Al-Khalidi HR, Thompson V, Janes J, Macias WL, Vangerow B, Williams MD; the PROWESS-SHOCK Study Group. Drotrecogin Alfa (Activated) in adults with septic shock. *N Engl J Med.,* 2012;366(22):2055-64. *[****Dr. Ely*** *was one of four coordinating center physicians who ran the entire PROWESS-SHOCK study as noted in the N Engl J Med publication.]*
69. Gunther ML, Morandi A, Krauskopf E, Pandharipande P, Girard TD, Jackson JC, Thompson J, Shintani AK, Geevarghese S, Miller RR 3rd, Canonico A, Merkle K, Cannistraci CJ, Rogers BP, Gatenby JC, Gore JC, Hopkins RO, **Ely EW**. The association between brain volumes, delirium duration, and cognitive outcomes in intensive care unit survivors: The VISIONS cohort magnetic resonance imaging study.\* *Crit Care Med.,* 2012;40(7):2022-2032.
70. Seymour CW, Pandharipande PP, Koestner T, Hudson LD, Thompson JL, Shintani AK, **Ely EW**, Girard TD. Diurnal sedative changes during intensive care: Impact on liberation from mechanical ventilation and delirium\*. *Crit Care Med., 2012;* 40(10):2788-2796.
71. Balas MC, Vasilevskis EE, Burke WJ, Boehm L, Pun BT, Olsen KM, Peitz GJ, **Ely EW**. Critical care nurses' role in implementing the "ABCDE bundle" into practice. *Crit Care Nurse,* 2012;32(2):35-38, 40-47.
72. Vasilevskis EE, Han JH, Hughes CG, **Ely EW**. Epidemiology and risk factors for delirium across hospital settings. *Best Pract Res Clin Anaesthesiol,* 2012;26:277-87.
73. Brummel NE, Jackson JC, Girard TD, Pandharipande PP, Schiro E, Work B, Pun BT, Boehm L, Gill TM, **Ely EW**. A combined early cognitive and physical rehabilitation program for people who are critically ill: The Activity and Cognitive Therapy in the Intensive Care Unit (ACT-ICU) Trial, *Physical Therapy,* 2012; 92:1580-1592.
74. Morandi A, Pandharipande PP, Jackson JC, Bellelli G, Trabucchi M, **Ely EW**. Understanding terminology of delirium and long-term cognitive impairment in critically ill patients. *Best Pract Res Clin Anaesthesiol,* 2012; 26(3):267-276.
75. Girard TD, Ware LB, Bernard GR, Pandharipande PP, Thompson JL, Shintani AK, Jackson JC, Dittus RS, **Ely EW**. Associations of markers of inflammation and coagulation with delirium during critical illness. *Intensive Care Med.,* 2012; 38(12):1965-1973.
76. **Ely EW**, Dittus RS, Girard TD. Point: should benzodiazepines be avoided in mechanically ventilated patients? Yes. *Chest,* 2012;142(2):281-284; discussion 289-290.
77. Wang C, Wu Y, Yue P, **Ely EW**, Huang J, Yang X, Liu Y. Delirium assessment using Confusion Assessment Method for the Intensive Care Unit in Chinese critically ill patients*. J Crit Care,* 2013; 28(3):223-9. PMID: 23159138
78. Morandi A, Barnett N, Miller RR 3rd, Girard TD, Pandharipande PP, **Ely EW**, Ware LB, Vitamin D and delirium in critically ill patients: a preliminary investigation. *J Crit Care,* 2013; 28(3):230-5. PMID: 22884531
79. De Grahl C, Luetz A, Gratopp A, Gensel D, Mueller J, Smith H, **Ely EW**, Krude H, Spies C. The Pediatric Confusion Assessment Method for the Intensive Care Unit (p-CAM): Translation and cognitive debriefing for the German-speaking area. *German Medical Science*, 2012; 10:1-10.
80. Vasilevskis EE, **Ely EW**, Dittus RS. Quality and safety challenges in critical care: preventing and treating delirium in the intensive care unit [Perspective]. AHRQ WebM&M [serial online]. December 2012. Available at: <http://webmm.ahrq.gov/perspective.aspx?perspectiveID=134>
81. Barr J, Fraser GL, Puntillo K, **Ely EW**, Gelinas C, Dasta JF, Davidson JE, Devlin JW, Kress JP, Joffe AM, Coursin DB, Herr DL, Tung A, Robinson BRH, Fontaine DK, Ramsay MA, Riker RR, Sessler CN, Pun BT, Skrobik Y, Jaeschke, R. Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit: Executive summary. *Am J Health-Syst Pharm.,* 2013; 70:53-58.
82. Barr J, Fraser GL, Puntillo K, **Ely EW**, Gelinas C, Dasta JF, Davidson JE, Devlin JW, Kress JP, Joffe AM, Coursin DB, Herr DL, Tung A, Robinson BRH, Fontaine DK, Ramsay MA, Riker RR, Sessler CN, Pun BT, Skrobik Y, Jaeschke, R. Clinical practice guidelines for the management of pain, agitation, and delirium in adult patients in the intensive care unit. *Crit Care Med.,* 2013;41(1):263-306.
83. McPherson JA, Wagner CE, Boehm LM, Hall JD, Johnson DC, Miller LR, Burns KM, Thompson JL, Shintani AK, **Ely EW**, Pandharipande PP. Delirium in the Cardiovascular ICU: Exploring modifiable risk factors\*. *Crit Care Med.,* 2013;41(2):405-413.
84. Morandi A, McCurley J, Vasilevskis EE, Fick DM, Bellelli G, Lee P, Jackson JC, Shenkin SD, Trabucchi M, Schnelle J, Inouye SK, **Ely EW**, MacLullich A. Tools to detect delirium superimposed on dementia: A systematic review. *J Am Geriatri Soc.,* 2013;61(1):174.
85. **Ely EW**, Barr J. Pain/Agitation/Delirium. *Semin Respir Crit Care Med.,* 2013;34:151-152.
86. Devlin JW, Fraser GL, **Ely EW**, Kress JP, Skrobik Y, Dasta JF. Pharmacological management of sedation and delirium in mechanically ventilated ICU patients: Remaining evidence gaps and controversies. *Semin Respir Crit Care Med.,* 2013; 34:201-214.
87. Jackson JC, **Ely EW**. Cognitive impairment after critical illness: Etiologies, risk factors, and future directions. *Semin Respir Crit Care Med.,* 2013;34:216-222.
88. Smith HAB, Berutti T, Brink E, Strohler B, Fuchs DC, **Ely EW**, Pandharipande PP. Pediatric critical care perceptions on analgesia, sedation, and delirium. *Semin Respir Crit Care Med.,* 2013;34:244-261.
89. Ferrell BA, **Ely EW**. Mechanical ventilation liberation: Critical decisions [serial online]; August, 2012:1. Accessed at [www.critical-decsions.org](http://www.critical-decsions.org) [On-line only]
90. Morandi A, Vasilevskis E, Pandharipande PP, Girard T.D., Solberg L.M., Neal E.B., Koestner T, Torres RE, Thompson JL, Shintani AK, Han JH, Schnelle JF, Fick DM, **Ely EW**, Kripalani S. Inappropriate medication prescriptions in elderly adults surviving an intensive care unit hospitalization. *J Am Geriatr Soc.*, 2013; 61(7):1128-34.
91. Peitz GJ, Balas MC, Olsen KM, Pun BT, **Ely EW**. Top 10 myths regarding sedation and delirium in the ICU. *Crit Care Med.,* 2013;41(9):S46-S56.
92. Wilcox ME, Brummel NE, Archer K, **Ely EW**, Jackson JC, Hopkins RO. Cognitive dysfunction in ICU patients: Risk factors, predictors, and rehabilitation interventions. *Crit Care Med.,* 2013; (41)9:S81-S98.
93. Balas MC, Burke WJ, Gannon D, Cohen MZ, Colburn L, Bevil C, Franz D, Olsen KM, **Ely EW**, Vasilevskis EE. Implementing the Awakening and Breathing coordination, Delirium Monitoring/Management, and Early Exercise/Mobility Bundle into everyday care: Opportunities, challenges, and lessons learned for implementing the ICU Pain, Agitation, and Delirium Guidelines. *Crit Care Med.,* 2013;41(9):S116-S127.
94. Needham DM, Dinglas VD, Morris PE, Jackson JC, Hough CL, Mendez-Tellez PA, Wozniak A, Colantuoni E, **Ely EW**, Rice TW, Hopkins RO. Physical and cognitive performance of acute lung injury patients one year after initial trophic vs full enteral feeding: EDEN trial follow-Up. *Am J Respir Crit Care Med.,* 2013; 188(5):567-576.
95. Carrothers KM, Barr J, Spurlock B, Ridgely MS, Damberg CL, **Ely EW**. Contextual issues influencing implementation and outcomes associated with an integrated approach to managing pain, agitation, and delirium in adult ICUs. *Crit Care Med.,* 2013; 41(9):S128-S135. PMID: 23989090
96. Page VA, **Ely EW**, Gates S, Zhao XB, Alce T, Shintani A, Jackson JC, Perkins GD, McAuley DF. Effect of intravenous haloperidol on the duration of delirium and coma in critically ill patients (Hope-ICU): a randomised, double-blind, placebo-controlled trial. *Lancet: Respir Med.,* 2013; 1(7):515-23.
97. Brummel NE, **Ely EW**. Sedation level and the prevalence of delirium. *Intensive Care Med.,* 2014; 40(1):135.
98. Naidech AM, Beaumont JL, Rosenberg NF, Maas MB, Kosteva AR, Ault ML, Cella D, **Ely EW**. Intracerebral hemorrhage and delirium symptoms: Length of stay, function and quality of life in a 114-patient cohort. *Am J Respir Crit Care Med.,* 2013; 188(11):1331-7. PMID: 24102675
99. Calvo-Ayala E, Khan BA, Farber MO, **Ely EW**, Boustani MA. Interventions to improve the physical function of ICU survivors: A systematic review. *Chest,* 2013; 144(5):1469-80. PMID: 23949645
100. Khan BA, Farber MO, Campbell N, Perkins A, Prasad NK, Hui SL, Miller DK, Calvo-Ayala E, Buckley JD, Ionescu R, Shekhar A, **Ely EW**, Boustani MA, S100 calcium binding protein B as biomarker of delirium duration in the intensive care unit – an exploration analysis. *Int J Gen Med.,* 2013; 6:855-61.
101. Needham DM, Dinglas VD, Morris PE, Jackson JC, Hough CL, Mendez-Tellez PA, Wozniak AW, Colantuoni E, **Ely EW**, Rice TW, Hopkins RO, for the NIH NHLBI ARDS Network. Physical and cognitive performance of patients with Acute Lung Injury 1 year after initial trophic versus full enteral feeding, Eden Trial Follow-up. *Am J Respir Crit Care Med.,* 2013; 188(5): 567-76.
102. Hsieh SJ, **Ely EW**,Gong MN. Can intensive care unit delirium be prevented and reduced? Lessons learned and future directions. *Ann Am Thorac Soc.,* 2013; 10(6):648-56.

1. Pandharipande PP, Girard TD, Jackson JC, Morandi A, Thompson JL, Pun BT, Brummel NE, Hughes CG, Vasilevskis EE, Shintani AK, Moons KG, Geevarghese SK, Canonico A, Hopkins RO, Bernard GR, Dittus RS, **Ely EW**. Long-term cognitive impairment after critical illness. *N Engl J Med.,* 2013; 369(14):1306-16. PMID: 24401069 (Received a Vanderbilt University Epidemiology Center 2013 Top 10 Paper Award; selected by the Epidemiology Center as one of the 10 leading papers published by Vanderbilt Medical School authors in a given calendar year).
2. Isabel, C.T, Almeida, Márcio Soares, Fernando A. Bozza, Cassia Righy Shinotsuka, Renata Bujokas, Vicente Cés Souza-Dantas, E. **Wesley Ely**, Jorge I. F. Salluh. The impact of acute brain dysfunction in the outcomes of mechanically ventilated cancer patients. *PLoS One,* 2014; 9(1):1-7.
3. Brummel NE, Jackson JC, Pandharipande PP, Thompson JL, Shintani AK, Dittus RS, Gill TM, Bernard GR, **Ely EW**, Girard TD. Delirium in the ICU and subsequent long-term disability among survivors of mechanical ventilation. *Crit Care Med.,* 2014; 42(2):69-77. PMID: 24158172
4. Page PJ, Davis D, Zhao XB, Norton S, Casarin A, Brow T, **Ely EW**, McAuley DF. Statin use and risk of delirium in the critically ill. *Am J Respir Crit Care Med.,* 2014; 189(6):666-73.
5. Han JK, Wilson A, Graves AJ, Shintani A, Schnelle JF, Dittus RS, Powers JS, Vernon J, Storrow AB, **Ely EW**. Validation of the Confusion Assessment Method for the Intensive Care Unit in older emergency department patients. A*cad Emerg Med.,* 2014; 21(2):180-87.
6. Neufeld KJ, Nelliot A, Inouye SK, **Ely EW**, Bienvenu OJ, Lee HB, Needham DM. Delirium diagnosis methodology used in research: A survey-based study, *The* *Am J Geri Psych.*, 2014; 22(12):1513-21.
7. Campbell NL, Cantor BB, Hui SL, Perkins A, Khan BA, Farber MO, Nazir A, Garrett SL, **Ely EW**, Boustani MA. Race and documentation of cognitive impairment in hospitalized older adults. *J Am Geriatr Soc.*, 2014; 62(3):506-11.
8. Needham DM, Wozniak AW, Hough CL, Morris PE, Dinglas VD, Jackson JC, Mendez-Tellez PA, Shanholtz C, **Ely EW**, Colantuoni E, Hopkins RO, Risk factors for physical impairment after Acute Lung Injury in a national, multicenter study. *Am J Respir Crit Care Med.,* 2014; 189(10):1214-1224.
9. Morandi A, Hughes CG, Thompson JL, Pandharipande PP, Shintani A, Vasilevskis EE, Han JH, Jackson JC, Laskowitz DT, Bernard GR, **Ely EW**, Girard TD. Statins and delirium during critical illness: A multicenter, prospective cohort study. *Crit Care Med.,* 2014; 42(8):1899-909.
10. Jackson JC, Santoro MJ, Ely TM, Boehm L, Kiehl AL, Anderson LS, **Ely EW**. Improving patient care through the prism of psychology: Application of Maslow’s hierarchy to sedation, delirium, and early mobility in the intensive care unit. *J Crit Care*, 2014; 29(3):438-44.
11. Jackson JC, Pandharipande PP, Girard TD, Brummel NE, Thompson JL, Hughes CG, Pun BT, Vasilevskis EE, Morandi A, Shintani AK, Hopkins RO, Bernard GR, Dittus RS, **Ely EW**. Depression, post-traumatic stress disorder, and functional disability in survivors of critical illness in the BRAIN-ICU study: a longitudinal cohort study. *Lancet Respir Med.,* 2014; 2(5):369-79.
12. Balas, MC, Vasilevskis EE, Olsen KM, Schmid KK, Shostrom V, Cohen MZ, Peitz G, Gannon DE, Sisson J, Sullivan J, Stothert JC, Lazure J, Nuss SL, Jawa RS, Freihaut F, **Ely EW**, Burke WJ. Effectiveness and safety of the awakening and breathing coordination, delirium monitoring/management, and early exercise/mobility bundle. *Crit Care Med.,* 2014; 42(5):1024-36.
13. Gaspardo P, Peressoni L, Comisso I, Mistraletti G, **Ely EW**, Morandi A. Delirium among critically ill adults: Evaluation of the psychometric properties of the Italian 'Confusion Assessment Method for the Intensive Care Unit'. *Intensive Crit Care Nurs.*, 2015; 30:283-291.
14. Andresen JM, Girard TD, Pandharipande PP, Davidson MA, **Ely EW**, Watson, PL. Burst suppression on processed electroencephalography as a predictor of postcoma delirium in mechanically ventilated ICU patients. *Crit Care Med.,* 2014; 42(10):2244-51. PMID 25072756
15. Meagher DJ, Morandi A, Inouye SK, **Ely EW**, Adamis D, Maclullich AJ, Rudolph JL, Neufeld K, Leonard M, Bellelli G, Davis D, Teodorczuk A, Kriesel S, Thomas C, Hasemann W, Timmons S, O Regan N, Grover S, Jabbar F, Cullen W, Dunne C, Kamholz B, Van Munster BC, De Rooij SE, De Jonghe J, Trzepacz PT. Concordance between DSM-IV and DSM-5 criteria for delirium diagnosis in a pooled database of 768 prospectively evaluated patients using the delirium rating scale-revised-98. *BMC Med.,* 2014; 12(1):164. PMID: 25266390
16. European Delirium Association and American Delirium Society (includes **Dr. Ely**). The DSM-5 criteria, level of arousal and delirium diagnosis: inclusiveness is safer. *BMC Medicine,* 2014; 12:141. [Corresp. Auth.: Daniel Davis, UCL, daniel.davis@ucl.ac.uk]
17. Khan BA, Fadel WF, Tricker JL, Carlos WG, Farber MO, Hui SL, Campbell NL, **Ely EW**, Boustani MA. Effectiveness of implementing a Wake Up and Breathe program on sedation and delirium in the ICU. *Crit Care Med.,* 2014; 42(12):e791-5.
18. Abraham CM, Obremskey WT, Song Y, Jackson JC, **Ely EW,** Archer KR. Hospital delirium and psychological distress at 1 year and health-related quality of life after moderate-to-severe traumatic injury without intracranial hemorrhage. *Arch Phys Med Rehabil.*, 2014; 95(12):2382-9.
19. Card E, Pandharipande P, Tomes C, Lee C, Wood J, Nelson D, Graves A, Shintani A, **Ely EW**, Hughes, C. Emergence from general anaesthesia and evolution of delirium signs in the post-anaesthesia care unit. *Br J Anaesth.*, 2014; 115(3):411-7.
20. Klompas M, Anderson D, Trick W, Babcock H, Kerlin MP, Li S, Sinkowitz-Cochran R, **Ely EW**, Jernigan J, Magill S, Lyles R, O’Neil C, Kitch BT, Arrington E, Balas MC, Kleinman K, Bruce C, Lankiewicz J, Murphy MV, Cox C, Lautenbach E, Sexton D, Fraser V, Weinstein A, Platt R, and for the CDC Prevention Epicenters. The preventability of ventilator-associated events: The CDC Prevention Epicenters’ Wake Up and Breathe Collaborative. *Am J Respir Crit Care Med.,* 2015; 191(30):292-301.
21. Koga Y, Tsuruta R, Murata H, Matsuo K, Ito T, **Ely EW**, Shintani A, Wakamatsu H, Sanui M, Yamase H. Reliability and validity assessment of the Japanese version of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU). *Intensive Crit Care Nurs.,* 2015; 31(3):165-70. PMID: 25467740
22. Bassett R, McCutcheon-Adams K, Danesh V, Groat PM, Haugen A, Kiewel A, Small C, VanLeuven M, Venus S, **Ely EW**. Rethinking Critical Care: Decreasing sedation, increasing delirium monitoring, and increasing patient mobility. *Jt Comm J Qual Patient Saf.*, 2015; 41(2):61-74.
23. Bloodworth M, Bloodworth N, **Ely EW**. A template for non-religious-based discussions against euthanasia. *The Linacre Quarterly*, 2015; 82(1)49-54.
24. The American Geriatrics Society/National Institute on Aging Bedside-to-Bench Conference: Research Agenda on Delirium in Older Adults (includes **Dr. Ely**). *J Am Geriatr Soc.*, 63(5):843-852, 2015. [Corresp. Auth.: Anna Mikhailovich, AGS/NIA Writing Group on Delirium in Older Adults. AMikhailovich@americangeriatrics.org]
25. Pfoh E, Chan KS, Dinglas VD, Girard TD, Jackson JC, Morris PE, Hough CL, Mendez-Tellez PA, **Ely EW**, Huang M, Needham DM, Hopkins RO with the NIH NHLBI ARDS Network. Cognitive screening among acute respiratory failure survivors:  A cross-sectional evaluation of the mini mental state examination. *Critical Care*, 2015; 19:220. doi 10. 1186/s13054-015-0934-5.
26. Stollings JL, Foss JL, **Ely EW**, Ambrose AM, Rice TW, Girard TD, Wheeler AP. Pharmacist leadership in ICU quality Improvement: Coordinating spontaneous awakening and breathing trials. *Ann Pharmacother*, 2015; 49(8):883-92.
27. Patrick SW, Dudley J, Martin PR, Harrell FE, Warren MD, Hartmann KE, **Ely EW**, Grijalva CG, Cooper WO. Prescription opiod epidemic and infant outcomes. *Pediatrics*, 2015; 135(5):842-50.
28. Inoue S, Vasilevskis EE, Pandharipande PP, Girard TD, Graves AJ, Thompson J, Shintani A, **Ely EW**. The impact of lymphopenia on delirium in ICU Patients. *PLoS One*, 2015; 10(5):e0126216. doi: 10.1371/journal.pone.0126216
29. Burry L, Mehta S, Williamson DR, Hutton B, **Ely EW**, Adhikari NKJ, Egerod I, Fergusson DA, Rose L. Pharmacological interventions for the treatment of delirium in critically ill patients (Protocol). *Cochrane Database of Systematic Reviews 2015*, Issue 6. Art. No.: CD011749. doi: 10.1002/14651858.CD011749
30. Archer KR, Coronado RA, Haislip LR, Abraham CM, Vanston SW, Lazaro AE, Jackson JC, **Ely EW**, Guillamondegui OD, Obremskey WT. Telephone-based goal management training for adults with mild traumatic brain injury: study protocol for a randomized controlled trial. *Trials*, 2015; 16:244. doi 10.1186/s13063-015-0775-1
31. Han JH, Vasilevskis EE, Schnelle JF, Shintani A, Dittus RS, Wilson A, **Ely EW**. The diagnostic performance of the Richmond Agitation Sedation Scale for detecting delirium in older emergency department patients. *Acad Emerg Med.,* 2015; 22(7):878-82. PMCID: PMC4516221
32. Vasilevskis EE, Pandharipande PP, Graves AJ, Shintani A, Tsuruta R, **Ely EW**, Girard TD. Validity of a modified sequential organ failure assessment score using the Richmond Agitation-Sedation Scale. *Crit Care Med.,* 2016; 44(1):138-46.
33. Hughes CG, Brummel NE, Girard TD, Graves AJ, **Ely EW**, Pandharipande PP. Change in endothelial vascular reactivity and acute brain dysfunction during critical illness. *Br J Anaesth.*, 2015, 115(5):794-5. PMID 26475809
34. Hatch LD, Grubb PH, Lea AS, Walsh WF, Markham MH, Whitney GM, Slaughter JC, Stark AR, **Ely EW**. Endotracheal intubation in neonates: A prospective study of adverse safety events in 162 infants. *J Pediatr.*, 2016; 168:62-6.
35. Smith HA, Gangopadhyay M, Goben CM, Jacobowski NL, Chestnut MH, Savage S, Rutherford MT, Denton D, Thompson JL, Chandrasekhar R, Acton M, Newman J, Noori HP, Terrell MK, Williams SR, Griffith K, Cooper TJ, **Ely EW**, Fuchs DC, Panharipande PP. The preschool confusion assessment method for the ICU: Valid and reliable delirium monitoring for critically ill infants and children. *Crit Care Med.,* 2016; 44(3):592-600. PMID: 26565631
36. Yevchak AM, Han JH, Doherty K, Archambault EG, Kelly B, Chandrasekhar R, **Ely EW**, Rudolph JL. Impaired arousal in older adults is associated with prolonged hospital stay and discharge to skilled nursing facility. *J Am Med Dir Assoc*, 2015; 586-9. PMCID: PMC4668713
37. Casarin, A, McAuley DF, Alce TM, Zhao X, **Ely EW**, Jackson JC, McDowell C, Agus A, Murphy L, Page, VJ. Evaluating early administration of the hydroxymethylgutaryl-CoA reductase inhibitor simvastatin in the prevention and treatment of delirium in critically ill ventilated patients (MoDUS trial): study protocol for a randomized controlled trial. *Trials*, 2015, 16:218. doi 10.1186/s13063-015-0731-0. PMCID: PMC4440514
38. Brummel NE, Balas MC, Morandi A, Ferrante LE, Gill TM, **Ely EW**. Understanding and reducing disability in older adults following critical illness. *Crit Care Med.,* 2015; 43(6):1265-75. PMCID: PMC4640688
39. Jackson JC, Morandi A, Girard TD, Merkle K, Graves AJ, Thompson JL, Shintani AK, Gunther ML, Cannistraci CJ, Rogers BP, Gore JC, Warrington HJ, **Ely EW**, Hopkins RO. VISualizing Icu SurvivOrs Neuroradiological Sequelae (VISIONS) Investigation. Functional brain imaging in survivors of critical illness: A prospective feasibility study and exploration of the association between delirium and brain activation patterns. *J Crit Care*, 2015; 30(3):653.e1–7. PMCID: PMC4489139
40. Trogrlić Z, van der Jagt M, Bakker J, Balas MC, **Ely EW**, van der Voort PHJ, Ista E. A systematic review of implementation strategies for assessment, prevention, and management of ICU delirium and their effect on clinical outcomes. *Crit Care*, 2015;19:157. PMCID: PMC4428250
41. Needham DM, Colantuoni E, Dinglas VD, Hough CL, Wozniak AW, Jackson JC, Morris PE, Mendez-Tellez PA, **Ely EW**, Hopkins RO. Rosuvastatin versus placebo for delirium in intensive care and subsequent cognitive impairment in patients with sepsis-associated acute respiratory distress syndrome: an ancillary study to a randomised controlled trial. *Lancet Respir Med.,* 2016; 4(3):203-12. PMID: 26832963.
42. Balas MC, Devlin, JW, Verceles, AC, Morris, P, **Ely EW**, Adapting the ABCDEF Bundle to Meet the Needs of Patients Requiring Prolonged Mechanical Ventilation in the Long-Term Acute Care Hospital Setting: Historical Perspectives and Practical Implications. *Semin Respir Crit Care Med.,* Feb 2016, 37(1): 119-35. doi: 10.1055/s-0035-1570361. PMID:26820279
43. Patel MB, Jackson JC, Morandi A, Girard TD, Hughes CG, Thompson JL, Kiehl AL, Elstad R, Wasserstein ML, Goodman RB, Beckham JC, Chandrasekhar R, Dittus RS, **Ely EW,** Pandharipande PP. Incidence and risk factors for ICU-related posttraumatic stress disorder in veterans and civilians. *Am J Respir Crit Care Med.,* 2016; 193(12):1373-81. doi: 10.1164/rccm.201506-1158OC. PMID 26735627
44. Tomichek JE, Stollings JL, Pandharipande P, Chandrashekhar R, **Ely EW**, Girard TD. Antipsychotic prescribing patterns during and after critical illness: a prospective cohort study. Crit Care 2016;20:378-86. PMCID:[PMC5122157](http://www.ncbi.nlm.nih.gov/pmc/articles/pmc5122157/). DOI:[10.1186/s13054-016-1557-1](https://doi.org/10.1186/s13054-016-1557-1)
45. Goligher EC, **Ely EW**, Sulmasy DP, Bakker J, Raphael J, Volandes AE, Patel BM, Payne K, Hosie A, Churchill L, White DB, Downar J. Physician-assisted suicide and euthanasia in the intensive care unit: A dialogue on the core ethical issues. *Crit Care Med.,* 2017; 45(2):149-155. doi: 10.1097/CCM.0000000000001818
46. Dinglas VD, Hopkins RO, Wozniak AW, Hough CL, Morris PE, Jackson JC, Mendez-Tellez PA, Bienvenu OJ, **Ely EW**, Colantuoni E, Needham DM. One-year outcomes of Rosuvastatin vs. placebo in sepsis-associated Acute Respiratory Distress Syndrome:  Prospective follow-up of SAILS Randomized Trial. *Thorax*, 2016; 71(5):401-10.
47. Chan KS, Friedman LA, Dinglas VD, Hough CL, Morris PE, Mendez-Tellez PA, Jackson JC, **Ely EW**, Hopkins RO, Needham DM. Evaluating physical outcomes in ARDS survivors: validity, responsiveness & minimal important difference of 4-meter gait speed test. *Crit Care Med.,* 2016; 44(5):859-68.
48. Hughes CG, Pandiharipande PP, Thompson JL. Chandrasekhar R, Ware LB, **Ely EW**, Girard TD. Endothelial activation and blood-brain barrier injury as risk factors for delirium in critically ill patients. *Crit Care Med.,* 2016; 44(9):e809-17. PMID: 27088157
49. Zimmerman JJ, Watson RS, **Ely EW**. Daily sedation interruption in children warrants further study. *Intensive Care Med.,* 2016; 42(6):1101-2.
50. Stollings JL, Wilson JE, Jackson JC, **Ely EW**. Executive dysfunction following critical illness: Exploring risk factors and management options in geriatric populations. *Curr Behav Neurosci Rep.*, 2106; 3:176-84. doi 10.1007/240473-016-0076-3
51. Brummel NE, **Ely EW**. Update in critical care medicine: Evidence published in 2015. *Ann Intern Med.,* 2016; 164(9):W15-W20.
52. Rice KL, Bennett MJ, Berger L, Jennings B, Eckhardt L, Fabre-LaCoste N, Doughton D, Vidal G, Gropen T, Diggs E, Barry E, St. John J, Mathew S, Egger A, Ryan S, Egger R, Galarneau D, Gaines K, **Ely EW**. A pilot randomized controlled trial of the feasibility of a multicomponent delirium prevention intervention versus usual care in acute stroke. *J Cardiovasc Nurs.*, 2017; 32(1):E1-E10.
53. Colantuoni E, Dinglas VD, **Ely EW**, Hopkins RO, Needham DM. Statistical methods for evaluating delirium in the ICU. *Lancet Respir Med.,* 2016; 4(7):534-6.
54. Pollock JS, Hollenbeck RD, Wang L, Homes B, Young MN, Peters M, **Ely EW**, McPherson JA, Vasilevskis EE. Delirium in survivors of cardiac arrest treated with mild therapeutic hypothermia. *Am J Crit Care*, 2016; 25(4):e81-89.
55. Hughes CG, Patel MB, Jackson JC, Girard TD, Geevarghese SK, Norman BC, Thompson JL, Chandrasekhar R, Brummel NE, May AK, Estad MR, Wasserstein ML, Goodman RB, Moons KG, Dittus RS, **Ely EW**. Pandharipande PP. Surgery and anesthesia exposure is not a risk factor for cognitive impairment after major noncardiac surgery and critical illness. *Ann Surg.*, 2017; 265(6):1126-1133.
56. Bond SM, Dietrich MS, Gilbert J, **Ely EW**, Jackson JC, Murphy BA. Neurocognitive function in patients with head and neck cancer undergoing primary or adjuvant chemoradiation treatment. *Support Care Cancer*, 2017; 24(10), 4433-4442. doi: 10.1007/s00520-016-3284-1
57. **Ely EW**, Swimming pool in the ICU. *Intensive Care Med.,* 2016; 42(9):1502-3. doi: 10.1007/s00134-016-4434-0
58. Smith HAB, Han JH, **Ely EW**. Meeting the challenges of delirium assessment across the aging spectrum. *Crit Care Med.,* 2016; 44(9):1775-7.
59. Sulmasy DP, Travaline JM, Mitchell LA, **Ely EW**. Non-faith-based arguments against physician-assisted suicide and euthanasia. *The Linacre Quarterly*, 2016; 83(3):246-257.
60. Goligher EC, Del Sorbo L, Cheung AM, Alibhai SM, Liao L, Easson A, Halpern J, **Ely EW**, Sulmasy DP, Hwang SW. Why conscientious objection merits respect. *CMAJ*, 2016; 188(11):822-3.
61. Duggan MC, Wang L, Wilson JE, Dittus RS, **Ely EW**, Jackson JC. The relationship between executive dysfunction, depression, and mental health-related quality of life in survivors of critical illness: Results from the BRAIN-ICU investigation. *J Crit Care*, 2016; 37:72-79.
62. Hatch LD, Grubb PH, Lea AS, Walsh WF, Markham MH, Maynord PO, Whitney GM, Stark AR, **Ely EW**. Interventions to improve patient safety during intubation in the neonatal intensive care unit. *Pediatrics*, 2016; 138(4):e20160069.
63. Golder B, **Ely EW**, Raphael J, Fernandes AK, Hosie A. Assisted Nutrition and Hydration as Supportive Care during Illness: Bedside Application of Catholic moral Teaching. *The National Catholic Bioethics Quarterly*, 2016; 16(3): 435-448.
64. Khan BA, Guzman O, Campbell NL, Walroth T, Tricker J, Hui SL, Perkins A, Zawahiri M, Buckley JD, Farber MO, **Ely W**, Boustanti MA. Comparison and agreement between the Richmond Agitation-Sedation Scale and the Riker Sedation-Agitation Scale in evaluating patients’ eligibility for delirium assessment in the ICU. *Chest,* 2012; 142(1):48-54. doi: 10.1378/chest.11-2100
65. Sulmasy DP, **Ely EW**, Sprung CL. Euthanasia and physician assisted suicide. *JAMA*, 2016; 316(15):1600.
66. Norman BC, Jackson JC, Graves JA, Girard TD, Pandharipande PP, Brummel NE, Wang L, Thompson JL, Chandrasekhar R, **Ely EW**. Employment outcomes after critical illness: An analysis of the bringing to light the risk factors and incidence of neuropsychological dysfunction in ICU survivors cohort. *Crit Care Med.,* 2016; 44(11): 2003-9.
67. Hutton B, Burry LD, Kanji S, Mehta S, Guenette M, Martin CM, Fergusson DA, Adhikari NK, Egerod I, Williamson D, Straus S, Moher D, **Ely EW**, Rose L. Comparison of sedation strategies for critically ill patients: a protocol for a systematic review incorporating network meta-analysis. *Syst Rev.*, 2016; 5(1):157.
68. Han JH, Wilson A, Graves AJ, Shintani A, Schnelle JF, **Ely EW**. A quick and easy delirium assessment for nonphysician research personnel. *Am J Emerg Med.,* 2016; 34(6):1031-6.
69. Han JH, Brummel NE, Chandrasekhar R, Wilson JE, Liu X, Vasilevskis EE, Girard TD, Carlo ME, Dittus RS, Schnelle JF, **Ely EW**. Exploring delirium’s heterogeneity: Association between arousal subtypes at initial presentation and 6-month mortality in older emergency department patients. *Am J Geriatr Psychiatry*, 2016; 25(3):233-242.
70. **Ely EW**, Pandharipande PP. The evolving approach to brain dysfunction in critically ill patients. *JAMA*, 2016; 315(14):1455-6.
71. Choi L, Ferrell BA, Vasilevskis EE, Pandharipande PP, Heltsley R, **Ely EW**, Stein CM, Girard TD. Population pharmacokinetics of Fentanyl in the critically ill. *Crit Care Med.,* 2016; 44(1):64-72.
72. Morandi A, Piva S, **Ely EW**, Myatra SN, Salluh JIF, Amare D, Azoulay E, Bellelli G, Csomos A, Fan E, Fagoni N, Girard TD, Heras La Calle G, Inoue S, Lim CM, Kaps R, Kotfis K, Koh Y, Misango D, Pandharipande PP, Permpikul C, Cheng Tan C, Wang DX, Sharshar T, Shehabi Y, Skrobik Y, Singh JM, Slooter A, Smith M, Tsuruta R, Latronico N. Worldwide Survey of the "Assessing Pain, Both Spontaneous Awakening and Breathing Trials, Choice of Drugs, Delirium Monitoring/Management, Early Exercise/Mobility, and Family Empowerment" (ABCDEF) Bundle. *Crit Care Med*, 2017; 45: e1111-e1122.
73. Barnes-Daly MA, Phillips G, **Ely EW**. Improving hospital survival and reducing brain dysfunction at seven California community hospitals: Implementing PAD guidelines via the ABCDEF Bundle in 6,064 patients. *Crit Care Med.,* 2017; 45(2):171-8. doi: 10.1097/CCM.0000000000002149
74. Siew ED, Fissell WH, Tripp CM, Blume JD, Wilson MD, Clark AJ, Vincz AJ, **Ely EW**, Pandharipande PP, Girard TD. Acute kidney injury as a risk factor for delirium and coma during critical illness. *Am J Respir Crit Care Med.,* 2017; 195(12):1597-1607.
75. **Ely, EW**. The ABCDEF Bundle: Science and philosophy of how ICU liberation serves patients and families. *Crit Care Med.,* 2017; 45(2):321-30. doi:10.1097/CCM.0000000000002175
76. Davis DHJ, Muniz-Terrera G, Keage HAD, Stephan BCM, Fleming J, Ince PG, Matthews FE, Cunningham C, **Ely EW**, MacLullich AMJ, Brayne C, for the Epidemiological Clinicopathological Studies in Europe (EClipSE) Collaborative Members. Association of delirium with cognitive decline in late life: A neuropathologic study of 3 population-based cohort studies. *JAMA Psychiatry*, 2017; 74(3):244-254.
77. Rasulo FA, Bellelli G, **Ely EW**, Morandi A, Pandharipande P, Latronico, N. Are you Ernest Shackleton, the polar explorer? Refining the criteria for delirium and brain dysfunction in sepsis. *J Intensive Care*, 2017; 5:23. eCollection. doi: 10.1186/s40560-017-0218-z
78. Marra A, **Ely EW**, Pandharipande PP, Patel MB. The ABCDEF Bundle in critical care. *Crit Care Clin.,* 2017; 33(2): 225-243. <http://dx.doi.org/10.1016/j.ccc.2016.12.005>
79. Latronico N, Herridge M, Hopkins RO, Angus D, Hart N, Hermans G, Iwashyna T, Arabi Y, Citerio G, **Ely EW**, Hall J, Mehta S, Puntillo K, Van den Hoeven J, Wunsch H, Cook D, Dos Santos C, Rubenfeld G, Vincent JL, Van den Berghe G, Azoulay E, Needham DM. The ICM research agenda on intensive care unit-acquired weakness. *Intensive Care Med.,* 2017; 43(9): 1270-1281. doi: 10.1007/s00134-017-4757-5
80. Chanques G, Garnier O, Carr J, Conseil M, de Jong A, Rowan CM, **Ely EW**, Jaber S. The CAM-ICU has now a French “official” version. The translation process of the 2014 updated Complete Training Manual of the Confusion Assessment Method for the Intensive Care Unit in French (CAM-ICU.fr). *Anaesth Crit Care Pain Med.,* 2017; 36: 297-300.
81. Boehm LM, Vasilevskis EE, Dietrich MS, Wells N, **Ely EW**, Pandharipande P, Mion LC. Domains and variation in attitudes of intensive care providers toward the ABCDE Bundle. *Am J Crit Care*. 2017; 26(3):e18-e28. doi:https://doi.org/10.4037/ajcc2017297
82. Kannankeril PJ, Moore JP, Cerrone M, Priori SG, Kertesz NJ, Ro PS, Batra AS, Kaufman ES, Fairbrother DL, Saarel EV, Etheridge SP, Kanter RJ, Carboni MP, Dzurik MV, Fountain D, Chen H, **Ely EW**, Roden DM, Knollmann BC. Efficacy of Flecainide in the treatment of catecholaminergic polymorphic ventricular tachycardia: A randomized clinical trial. JAMA Cardiol., 2017; 2(7): 759-766. doi:10.1001/jamacardio.2017.1320
83. Fick DM, Auerbach AD, Avidan MS, Busby-Whitehead J, **Ely EW**, Jones RN, Marcantonio ER, Needham DM, Pandharipande P, Robinson TN, Schmitt EM, Travison TG, Inouye SK. Network for Investigation of Delirium across the U.S. (NIDUS): Advancing the field of delirium with a new interdisciplinary research network. *J Am Gerontol Nurs*., 2017; 43(5):4-6. doi:10.3928/00989134-20170411-01
84. Kotfis K, Zegan-Baranska M, Szydlowski L, Zukowski M, **Ely EW**. Methods of pain assessment in adult intensive care unit patients-Polish version of the CPOT (Critical Care Pain Observation Tool) and BPS (Behavioral Pain Scale). *Anaesthesiol Intensive Ther.,* 2017; 49(1):66-72. doi: 10.5603/AIT.2017.0010.
85. Mira J, **Ely EW**, Halfkann D, Schoen J, Sedemund-Adib B, Klotz S, Radtke F, Steher S, Hueppe M. Acetylcholinesterase and butyrylcholinesterase in cardiosurgical patients with postoperative delirium. *J Intensive Care*, 2017; 5(29). doi 10.1186/s40560-017-0224-1
86. Smith HAB, Gangopadhyay M, Goben CM, Jacobowski NL, Chestnut MH, Thompson JL, Chandrasekhar R, Williams SR, Griffith K, **Ely EW**, Fuchs DC, Pandharipande PP. Delirium and benzodiazepines associated with prolonged ICU stay in critically ill infants and young children. *Crit Care Med.,* 2017; 45(9): 1427-1435. doi: 10.1097/CCM.0000000000002515.
87. Pandharipande PP, **Ely EW**, Arora RC, Balas MC, Boustani MA, La Calle GH, Cunningham C, Devlin JW, Elefante J, Han JH, MacLullich AM, Maldonado JR, Morandi A, Needham DM, Page VJ, Rose L, Salluh JIF, Sharshar T, Shehabi Y, Skrobik Y, Slooter AJC, Smith HAB. The intensive care delirium research agenda: a multinational, interprofessional perspective. *Intensive Care Med.,* 2017; 43(9): 1329-1339. doi: 10.1007/s00134-017-4860-7
88. Fick DM, Auerbach AD, Avidan MS, Busby-Whitehead J, **Ely EW**, Jones RN, Marcantonio ER, Needham DM, Pandharipande P, Robinson TN, Schmitt EM, Travison TG, Inouye SK, for the NIDUS Delirium Network. Network for the Investigation of Delirium across the U.S.: Advancing the field of delirium with a new interdisciplinary research network. *J Am Geriat Soc*., 2017; 65(10): 2158-2160. doi: 10.1111/jgs.14942.
89. Boehm LM, Dietrich MS, Vasilevskis EE, Wells N, Pandharipande P, **Ely EW**, Mion LC. Perceptions of Workload Burden and Adherence to ABCDE Bundle among Intensive Care Providers. *Am J Crit Care*, 2017; 26(4):e38-e47. doi: 10.4037/ajcc2017544.
90. Giuseffi JL, Borges NE, Boehm LM, Wang L, McPherson JA, Fredi JL, Ahmad RM, **Ely EW**, Pandharipande PP. Delirium after Transcatheter Aortic Valve Replacement. *Am J Crit Care*. 2017; 26(4) e58-e64. doi: 10.4037/ajcc2017474.
91. Wilson JE, Carlson R, Duggan MC, Pandharipande PP, Girard TD, Wang L, Thompson JL, Chandrasekhar R, Francis A, Nicolson SE, Dittus RS, Heckers S, **Ely EW**, for the Delirium and Catatonia (DeCat) Prospective Cohort Investigation. Delirium and Catatonia in Critically Ill Patients: The Delirium and Catatonia Prospective Cohort Investigation. *Crit Care Med.,* 2017; 45(11); 1837-1844. doi: 10.1097/CCM.0000000000002642.
92. Chan KS, Friedman LA, Dinglas VD, Hough CL, Shanholtz C, **Ely EW**, Morris PE, Mendez-Tellez PA, Jackson JC, Hopkins RO, Needham DM. Are physical measures related to patient-centered outcomes in ARDS survivors? *Thorax,* 2017; 72(10): 884-892. doi: 10.1136/thoraxjnl-2016-209400.
93. Kotfis K, Zegan-Baranska M, Zukowski M, Kusza K, Kaczmarczyk M, **Ely EW**. Multicenter assessment of sedation and delirium practices in the intensive care units in Poland – is this common practice in Eastern Europe? *BMC Anesthesiol*, 2017; 17(1)120. doi: 10.1186/s12871-017-0415-2.
94. Walston J, Robinson TN, Zieman S, McFarland F, Carpenter CR, Althoff KN, Andrew MK, Blaum CS, Brown PJ, Buta B, **Ely EW**, Ferrucci L, High KP, Kritchevsky SB, Rockwood K, Schmader KE, Sierra KM, Sink RV, Hurria A. Integrating Frailty Research into the Medical Specialties—Report from a U13 Conference. *JAGS*, 2017; 65(10): 2134-39.
95. Brummel NE, Boehm LM, Girard TD, Pandharipande PP, Jackson JC, Hughes CG, Patel MB, Vasilevskis EE, Thompson JL, Chandrasekhar R, Bernard GR, Dittus RS, **Ely EW**. Subsyndromal Delirium and Institutionalization Among Patients With Critical Illness. *Am J Crit Care*, 2017; 26(6) 447-55.
96. Mesa P, Previgliano IJ, Altez S, Favretto S, Orellano M, Lecor C, Soca A, **Ely EW**. *Delirium* in a Latin American intensive care unit. A prospective cohort study of mechanically ventilated patients. *Rev Bras Ter Intensiva*. 2017; 29(3): 337-345.
97. Glasmeyer S, Creutzenberg M, Eder F, Graf BM, Schlitt HJ, **Ely EW**, Bein T. Gender-specific differences in nursing staff’s administration patterns of ‘pro re nata’ medication: A prospective observational study. *Nurs Palliat Care*, Dec 2017; 2(6) 1-5.
98. Raphael JJ, Vacca MA, Hosie A, Rodden N, Fernandes AK, **Ely EW.** Common, Difficult Questions about Providing Nutrition at End of Life: Bedside Application of Catholic Moral Teaching. *Linacre Q*, 2020; 87: 122-130.
99. Chan KS, Mourtzakis M, Friedman LA, Dinglas VD, Hough CL, **Ely EW**, Morris PE, Hopkins RO, Needham DM with the National Institutes of Health NHLBI ARDS Network. Upper arm anthropometrics versus DXA scan in survivors of acute respiratory distress syndrome. *Eur J Clin Nutr*., 2018; 72:613-617.
100. Cohen-Almagor R, **Ely EW**. Euthanasia and palliative sedation in Belgium. *BMJ Support Palliat Care*, 2018; 8(3): 307-313. doi:10.1136/bmjspcare-2017-001398
101. Todd A, Blackley S, Burton JK, Stott DJ, **Ely EW**, Tieges Z, MacLullich AMJ, Shenkin SD. Reduced level of arousal and increased mortality in adult acute medical admissions: a systematic review and meta-analysis. *BMC Geriatr*., Dec 2017; 17(1): 283.
102. Gelinas C, Berube M, Chevrier A, Pun BT, **Ely EW**, Skrobik Y, Barr J. Delirium Assessment Tools for Use in Critically Ill Adults: A Psychometric Analysis and Systematic Review. *Critical Care Nurse*, Feb 2018; 38(1): 38-50.
103. Girard TD, Thompson JL, Pandharipande PP, Brummel NE, Jackson JC, Patel MB, Hughes CG, Chandrasekhar R, Pun BT, Boehm LM, Elstad MR, Goodman RB, Bernard GR, Dittus RS, **Ely EW**. Clinical phenotypes of delirium during critical illness and severity of subsequent long-term cognitive impairment: A prospective cohort study. *Lancet Respir Med.,* 2018 Mar; 6(3):213-222.

*[Chosen by Vanderbilt University Medical Center peers as one of the Top Ten Publications in the Vanderbilt Epidemiology Center of 2018]*

1. Azoulay E, Vincent JL, Angus DC, Arabi YM, Brochard L, Brett SJ, Citerio G, Cook DJ, Curtis JR, Dos Santos CC, **Ely EW**, Hall J, Halpern SD, Hart N, Hopkins RO, Iwashyna TJ, Jaber S, Latronico N, Mehta S, Needham DM, Nelson J, Puntillo K, Quintel M, Rowan K, Rubenfeld G, Van den Berghe G, Van der Hoeven J, **Wunsch H**, Herridge M.

*Crit Care*, 2017; 21(1):296. doi: 10.1186/s13054-017-1887-7.

1. Chanques G, **Ely EW**, Garnier O, Perrigault F, Eloi A, Carr J, Rowan CM, Prades A, de Jong A, Moritz-Gasser S, Molinari N, Jaber S (2018). The 2014 updated version of the Confusion Assessment Method for the Intensive Care Unit compared to the 5th version of the Diagnostic and Statistical Manual of Mental Disorders and other current methods used by intensivists. *Annals of Intensive Care*, 2018; 8:33.
2. Marra A, Jackson JC, **Ely EW**, Graves AJ, Schnelle JF, Dittus RS, Wilson A, Han JH. Focusing on Inattention: The Diagnostic Accuracy of Brief Measures of Inattention for Detecting Delirium. *J Hosp Med*, 2018; 13: 551-557.
3. Jackson JC, Mozaffarian D, Graves AJ, Brown NJ, Marhioli R, Kiehl AL, **Ely EW**. Fish Oil Supplementation Does Not Affect Cognitive Outcomes in Cardiac Surgery Patients in the Omega-3 Fatty Acids for Prevention of Post-Operative Atrial Fibrillation (OPERA) Trial. *J Nutr*., 2018; 148(3):472-79. doi: 10.1093/jn/nxx002
4. Chan KS, Mourtzakis M, Friedman LA, Dinglas VD, Hough CL, **Ely EW**, Morris PE, Hopkins RO, Needham DM with the National Institutes of Health NHLBI ARDS Network. Evaluating muscle mass in survivors of ARDS: a 1-year multi-center longitudinal study. *Crit Care Med.,* Aug 2018; 46(8):1238-46.
5. Cirbus J, MacLullich AM, Noel C, **Ely EW**, Chandrasekhar R, Han JH. Delirium Etiology Subtypes and Their Effect on 6-Month Function and Cognition in Older Emergency Department Patients. *Int Psychogeriatr,* 2018; 1-10. doi: 10.1017/S1041610218000777
6. Marra A, Pandharipande PP, Girard TD, Patel MB, Hughes CG, Jackson JC, Thompson JL, Chandrasekhar R, **Ely EW**, and Brummel NE. Cooccurrence of Post-Intensive Care Syndrome Problems Among 406 Survivors of Critical Illness. *Crit Care Med.,* May 2018; 46(9):1393-1401. doi: 10.1097/CCM.0000000000003218.
7. **Ely EW**. Benediction of Vanderbilt Christian Medical Student Graduates. *The Linacre Quarterly*, publication of the Catholic Medical Asociation. June 2018. https://doi.org/10.1177/0024363918779841
8. [Barnes-Daly MA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Barnes-Daly%20MA%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Pun BT](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pun%20BT%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Harmon LA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Harmon%20LA%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Byrum DG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Byrum%20DG%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Kumar VK](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kumar%20VK%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Devlin JW](https://www.ncbi.nlm.nih.gov/pubmed/?term=Devlin%20JW%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Stollings JL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stollings%20JL%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Puntillo KA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Puntillo%20KA%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Engel HJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Engel%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Posa PJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Posa%20PJ%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Barr J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Barr%20J%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Schweickert WD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Schweickert%20WD%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Esbrook CL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Esbrook%20CL%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Hargett KD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hargett%20KD%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Carson SS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Carson%20SS%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Aldrich JM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Aldrich%20JM%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [**Ely EW**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ely%20EW%5BAuthor%5D&cauthor=true&cauthor_uid=29729659), [Balas MC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Balas%20MC%5BAuthor%5D&cauthor=true&cauthor_uid=29729659). Improving Health Care for Critically Ill Patients Using an Evidence-Based Collaborative Approach to ABCDEF Bundle Dissemination and Implementation. *Worldviews Evid Based Nurs*. June 2018; 15(3):206-16.
9. Kotfis K, Marra A, **Ely EW**. ICU Delirium – a diagnostic and therapeutic challenge in the intensive care unit. *Anaesthesiol Intensive Ther*., 2018; 50(2):160-7. doi: 10.5603/AIT.a2018.0011.
10. Sevin CM, Bloom SL, Jackson JC, Wang L, **Ely EW**, Stollings JL. Comprhensive care of ICU survivors: Development and implementation of an ICU recovery center. *J Crit Care*., 2018; 46: 141-8. doi: 10.1016/j.jcrc.2018.02.011.
11. [Rosgen B](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rosgen%20B%5BAuthor%5D&cauthor=true&cauthor_uid=29671281), [Krewulak K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Krewulak%20K%5BAuthor%5D&cauthor=true&cauthor_uid=29671281), [Demiantschuk D](https://www.ncbi.nlm.nih.gov/pubmed/?term=Demiantschuk%20D%5BAuthor%5D&cauthor=true&cauthor_uid=29671281), [**Ely EW**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ely%20EW%5BAuthor%5D&cauthor=true&cauthor_uid=29671281), [Davidson JE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Davidson%20JE%5BAuthor%5D&cauthor=true&cauthor_uid=29671281), [Stelfox HT](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stelfox%20HT%5BAuthor%5D&cauthor=true&cauthor_uid=29671281), [Fiest KM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fiest%20KM%5BAuthor%5D&cauthor=true&cauthor_uid=29671281). Validation of Caregiver-Centered Delirium Detection Tools: A Systematic Review. *J Am Geriatr Soc*., 2018; 66: 1218-25.
12. Patel MB, Bednarik J, Lee P, Shehabi Y, Salluh JI, Slooter AJ, Klein KE, Skrobik Y, Morandi A, Spronk PE, Naidech AM, Pun BT, Bozza FA, Marra A, John S, Pandharipande PP, Ely EW, (2018) Delirium Monitoring in Neurocritically Ill Patients: A Systematic Review. *Crit Care Med*., 46: 1832-1841
13. Krewulak, K. D., Stelfox, H. T., Leigh, J. P., Ely, E. W., & Fiest, K. M. (2018). Incidence and Prevalence of Delirium Subtypes in an Adult ICU: A Systematic Review and Meta-Analysis. *Crit Care Med*., 2018; 46(12), 2029-2035. doi:10.1097/CCM.0000000000003402
14. Kotfis K, Strzelbicka M, Zegan-Barańska M, Safranow K, Brykczyński M, Żukowski M, **Ely EW**; POL-BPS Study Group. [Validation of the behavioral pain scale to assess pain intensity in adult, intubated postcardiac surgery patients: A cohort observational study - POL-BPS.](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ncbi.nlm.nih.gov%2Fpubmed%2F30235728&data=02%7C01%7Cwes.ely%40vumc.org%7Ca1f281c7f49646d68a7c08d62159e485%7Cef57503014244ed8b83c12c533d879ab%7C0%7C0%7C636733067309141824&sdata=wUTG%2Bjt2bDH0SnkFk%2B3mYWAAXzdY9ADbL5yLLqq%2FOnQ%3D&reserved=0) *Medicine*, 2018; Sep; 97(38):e12443. doi: 10.1097/MD.0000000000012443
15. Wilson JE, Duggan MC, Chandrasekhar R, Brummel NE, Dittus RS, **Ely EW**, Patel MB, Jackson JC. Deficits in Self-Reported Initiation Are AssociatedWith Subsequent Disability in ICU Survivors. *Psychosomatics*, 2019; 60: 376-384.
16. Kim DH, Mahesri M, Bateman BT, Huybrechts KF, Inouye SK, Marcantonio ER, Herzig SJ, **Ely EW**, Pisani MA, Levin R, Avorn J. Longitudinal Trends and Variation in Antipsychotics Use After Cardiac Surgery. *J Am Geriatr Soc*., 2018; 66:1491-98.
17. Marra A, Pandharipande PP, Shotwell MS, Chandrasekhar R, Girard TD, Shintani AK, Peelen LM, Moons KGM, Dittus RS, **Ely EW**, Vasilevskis EE. Acute Brain Dysfunction: Development and Validation of a Daily Prediction Model. *Chest,* 2018; 154: 293-301.
18. Marra A, Pandharipande, PP, Girard TD, Patel MB, Hughes CG, Jackson JC, Thompson JL, Chandrasekhar R, **Ely EW**, Brummel NE. Co-occurrence of post-intensive care syndrome problems among 406 survivors of critical illness. *Crit Care Med*., Sept 2018; 46(9):1393-1401.
19. Girard TD, Exline MC, Carson SS, Hough CL, Rock P, Gong MN, Douglas IS, Malhotra A, Owens RL, Feinstein DJ, Khan B, Pisani MA, Hyzy RC, Schmidt GA, Schweickert WD, Hite RD, Bowton DL, Masica AL, Thompson JL, Chandrasekhar R, Pun BT, Strength C, Boehm LM, Jackson JC, Pandharipande PP, Brummel NE, Hughes CG, Patel MB, Stollings JL, Bernard GR, Dittus RS, **Ely EW** for the MIND-USA Investigators. Haloperidol and Ziprasidone for treatment of delirium in critical illness. *N Engl J Med*., 2018; 379: 2506-2516. doi: 10.1056/NEJMoa1808217.

*[Chosen by Vanderbilt University Medical Center peers as one of the Top Ten Publications in the Vanderbilt Epidemiology Center of 2018]*

1. Sprung CL, Somerville MA, Radbruch L, Collet NS, Duttge G, Piva JP, Antonelli M, Sulmasy DP, Lemmens W, **Ely EW**. Physician-Assisted Suicide and Euthanasia: Emerging Issues From a Global Perspective. *J Palliat Care*, 2018; 33(4):197-203. doi: 10.1177/0825859718777325
2. Selim, A, Kandeel, N, Elokl, M, Khater, MS, Saleh, AN, Bustami, R, **Ely, EW**. The validity and reliability of the Arabic version of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU): A prospective cohort study. *Int J Nurs Stud*, 2018; 80:83-89. doi:10.1016/j.ijnurstu.
3. Grahl JJ, Stollings JL, Rakhit S, Person A, Wang L, Thompson JL, Pandharipande PP, **Ely EW**, Patel MB. Antimicrobial exposure and the risk of delirium in critically ill patients. *Critical Care Med.,* 2018 Dec 12; 22:337. doi.org/10.1186/s13054-018-2262-z.
4. Kleinpell R, Vasilevskis EE, Fogg L, **Ely EW**. Exploring the association of hospice care on patient experience and outcomes of care. *BMJ Support Palliat Care*, 2019; 9: e13
5. James BD, Wilson RS, Capuano AW, Boyle PA, Shah RC, Lamar M, **Ely EW**, Bennett DA, Schneider JA. Cognitive decline after elective and nonelective hospitalizations in older adults. *Neurology*, 2019; 92(7):1-10. doi:10.1212/WNL.0000000000006918.
6. Mixon AS, Yeh VM, Simmons S, Powers J, **Ely EW**, Schnelle J, Vasilevskis EE. Improving Care Transitions for Hospitalized Veterans Discharged to Skilled Nursing Facilities: A Focus on Polypharmacy and Geriatric Syndromes. *Geriatrics,* 2019; 4(19). DOI:10.3390/geriatrics4010019
7. Stollings JL, Devlin JW, Pun BT, Puntillo KA, Kelly T, Hargett KD, Morse A, Esbrook CL, Engel HJ, Perme C, Barnes-Daly MA, Posa PJ, Aldrich JM, Barr J, Carson SS, Schweickert, WD Byrum, DG, Harmon L, **Ely EW**, Balas MC. Implementing the ABCDEF Bundle: Top 8 Questions Asked During the ICU Liberation ABCDEF Bundle Improvement Collaborative. *Crit Care Nurse*, 2019; 39: 36-45.
8. Pun BT, Balas MC, Barnes-Daly MA, Thompson JL, Aldrich JM, Barr J, Byrum D, Carson SS, Devlin JW, Engel HJ, Esbrook CL, Hargett KD, Harmon L, Hielsberg C, Jackson JC, Kelly TL, Kumar V, Millner L, Morse A, Perme CS, Posa PJ, Puntillo KA, Schweickert WD, Stollings JL, Tan A, D'Agostino McGowan L, **Ely EW**. Caring for Critically Ill Patients with the ABCDEF Bundle: Results of the ICU Liberation Collaborative in Over 15,000 Adults. *Crit Care Med*, 2019; 47: 3-14.
9. Balas MC, Pun BT, Pasero C, Engel HJ, Perme C, Esbrook CL, Kelly T, Hargett KD, Posa PJ, Barr J, Devlin JW, Morse A, Barnes-Daly MA, Puntillo KA, Aldrich JM, Schweickert WD, Harmon L, Byrum DG, Carson SS, **Ely EW**, Stollings JL. Common Challenges to Effective ABCDEF Bundle Implementation: The ICU Liberation Campaign Experience. Crit Care Nurse, 2019; 39: 46-60.
10. Marra A, Kotfis K, Hosie A, MacLullich AMJ, Pandharipande PP, **Ely EW**, Pun BT. Delirium Monitoring: Yes or No? That Is The Question. *Am J Crit Care*, 2019; 28: 127-135.
11. Krewulak KD, Sept BG, **Ely EW**, Davidson JE, Ismail Z, Fiest KM. Feasibility and acceptability of family administration of delirium detection tools in the intensive care unit: a patient-oriented pilot study. *CMAJ Open*, 2019; 7(2). doi: 10.9778/cmajo.20180123.
12. Golder E, **Ely EW**, Raphael J, Fernandes A, Hosie A. Assisted Nutrition and Hydration as Supportive Care During Illness: Bedside Application of Catholic Moral Teaching. *National Catholic Bioethics Quarterly*, 2016; 16:435-448
13. **Ely EW**, Azoulay E, Sprung CL. Eight things we would never do regarding end-of-life care in the ICU. *Intensive Care Med*, 2019; 45: 1116-1118.

*[Has been included in F1000Prime as being of special significance in its field by F1000 Faculty]*

1. Morandi A, Thompson JL, Bellelli G, Lucchi E, Turco R, Gentile S, Trabucchi M, MacLullich A, Meagher D, **Ely EW**, Pandharipande P, Smith H. Delirium in patients with dementia and in children: Overlap of symptoms profile and possible role for future diagnosis. *Eur J Intern Med*, 2019; 65: 44-50.
2. Hosie A, Phillips J, Lam L, Kochovska S, Noble B, Brassil M, Kurrle S, Cumming A, Caplan GA, Chye R, **Ely EW**, Lawlor PG, Bush SH, Davis JM, Lovell M, Parr C, Williams S, Hauser K, McArdle S, Jacquier K, Phillipson C, Kuwahata L, Kerfoot J, Brown L, Fazekas B, Cheah SL, Edwards L, Green A, Hunt J, Attwood R, Assen T, Garcia M, Wilcock J, Agar M. A Multicomponent Nonpharmacological Intervention to Prevent Delirium for Hospitalized People with Advanced Cancer: A Phase II Cluster Randomized Waitlist Controlled Trial (The PRESERVE Pilot Study). *J Palliat Med*, 2020; 23: 1314-1322.
3. **Ely EW**. Death by organ donation: euthanizing patients for their organs gains frightening traction. *Intensive Care Med*, 2019; 45: 1309-1311.
4. Han JH, Chen A, Vasilevskis EE, Schnelle JF, **Ely EW**, Chandrasekhar R, Morrison RD, Ryan TP, Daniels JS, Sutherland JJ, Simmons SF. Supratherapeutic Psychotropic Drug Levels in the Emergency Department and Their Association with Delirium Duration: A Preliminary Study. *J Am Geriatr Soc*, 2019; 67: 2387-2392.
5. James BD, Wilson RS, Capuano AW, Boyle PA, Shah RC, Lamar M, **Ely EW**, Bennett DA, Schneider JA. Hospitalization, Alzheimer's Disease and Related Neuropathologies, and Cognitive Decline. *Ann Neurol*, 2019; 86: 844-852.
6. Shinn JR, Kimura KS, Campbell BR, Sun Lowery A, Wootten CT, Garrett CG, Francis DO, Hillel AT, Du L, Casey JD, **Ely EW**, Gelbard A. Incidence and Outcomes of Acute Laryngeal Injury After Prolonged Mechanical Ventilation. *Crit Care Med*, 2019; 47: 1699-1706.
7. Sasannejad C, **Ely EW**, Lahiri S. Long-term cognitive impairment after acute respiratory distress syndrome: a review of clinical impact and pathophysiological mechanisms. *Crit Care*, 2019; 23: 352.
8. James BD, Wilson RS, Capuano AW, Boyle PA, Shah RC, Lamar M, **Ely EW,** Bennett DA, Schneider JA. Hospitalization, Alzheimer's Disease and Related Neuropathologies, and Cognitive Decline. *Ann Neurol*, 2019; 86: 844-852.
9. Scheunemann LP, Leland NE, Perera S, Skidmore ER, Reynolds CF, Pandharipande PP, Jackson JC, **Ely EW**, Girard TD. Sex Disparities and Functional Outcomes after a Critical Illness. *Am J Respir Crit Care Med*, 2020; 201: 869-872.
10. Kruser JM, Aaby DA, Stevenson DG, Pun BT, Balas MC, Barnes-Daly MA, Harmon L, **Ely EW**. Assessment of Variability in End-of-Life Care Delivery in Intensive Care Units in the United States. *JAMA Network Open*, 2019; 2: e1917344-e1917344.
11. **Ely EW**, Azoulay E, Sprung CL. Distinction between good palliative care and intending death. *Intensive Care Med*, 2020; 46: 147-148.

*[Has been included in F1000Prime as being of special significance in its field by F1000 Faculty]*

1. Krewulak KD, Stelfox HT, **Ely EW**, Fiest KM. Risk factors and outcomes among delirium subtypes in adult ICUs: A systematic review. *J Crit Care*, 2020; 56: 257-264.
2. **Ely EW**. Fake news on euthanasia and organ donation. Author's Reply. *Intensive Care Med*, 2020; 46: 566-567.
3. Slooter AJC, Otte WM, Devlin JW, Arora RC, Bleck TP, Claassen J, Duprey MS, **Ely EW**, Kaplan PW, Latronico N, Morandi A, Neufeld KJ, Sharshar T, MacLullich AMJ, Stevens RD. Updated nomenclature of delirium and acute encephalopathy: statement of ten Societies. *Intensive Care Med*, 2020; 46: 1020-1022.
4. Shinn JR, Campbell BR, **Ely EW**, Gelbard A. The authors reply. *Read Online: Critical Care Medicine | Society of Critical Care Medicine*, 2020; 48: e338-e339.
5. Scheunemann LP, Leland NE, Perera S, Skidmore ER, Reynolds CF, Pandharipande PP, Jackson JC, **Ely EW**, Girard TD. Sex Disparities and Functional Outcomes after a Critical Illness. *Am J Respir Crit Care Med*, 2020; 201: 869-872.
6. Kotfis K, Williams Roberson S, Wilson JE, Dabrowski W, Pun BT, **Ely EW**. COVID-19: ICU delirium management during SARS-CoV-2 pandemic. *Crit Care*, 2020; 24: 176.
7. Fiest KM, Krewulak KD, **Ely EW**, Davidson JE, Ismail Z, Sept BG, Stelfox HT. Partnering With Family Members to Detect Delirium in Critically Ill Patients. *Crit Care Med*, 2020; Epub ahead of print.
8. Raphael JJ, Vaccca MA, Hosie, A, Rodden N, Fernandes AK, **Ely EW**.  Common and Difficult Questions about Providing Nutrition at End-of-Life: Bedside Application of Catholic Moral Teaching. *Linacre Quarterly*. 2020;87:122-130
9. Hayhurst CJ, Marra A, Han JH, Patel MB, Brummel NE, Thompson JL, Jackson JC, Chandrasekhar R, **Ely EW**, Pandharipande PP, Hughes CG. Association of Hypoactive and Hyperactive Delirium With Cognitive Function After Critical Illness. *Crit Care Med*, 2020; 48: e480-e488.
10. Boehm LM, Pun BT, Stollings JL, Girard TD, Rock P, Hough CL, Hsieh SJ, Khan BA, Owens RL, Schmidt GA, Smith S, **Ely EW**. A multisite study of nurse-reported perceptions and practice of ABCDEF bundle components. *Intensive Crit Care Nurs*, 2020; 102872.
11. Fiest KM, Krewulak KD, Sept BG, Spence KL, Davidson JE, **Ely EW**, Soo A, Stelfox HT. A study protocol for a randomized controlled trial of family-partnered delirium prevention, detection, and management in critically ill adults: the ACTIVATE study. *BMC Health Serv Res*, 2020; 20: 453.
12. Raphael JJ, Vacca MA, Hosie A, Rodden N, Fernandes AK, **Ely EW**. Common, Difficult Questions about Providing Nutrition at End of Life: Bedside Application of Catholic Moral Teaching. *The Linacre Quarterly*, 2020; 87: 122-130.
13. Williams Roberson S, Patel MB, **Ely EW**. Diagnosing Delirium in Neurocritically Ill Patients Using New Data. *Crit Care Med*, 2020; 48: e635-e636.
14. Fiest KM, Krewulak KD, **Ely EW**, Davidson JE, Ismail Z, Sept BG, Stelfox HT. Partnering With Family Members to Detect Delirium in Critically Ill Patients\*. *Crit Care Med*, 2020; 48: 954-961.
15. LaHue SC, James TC, Newman JC, Esmaili AM, Ormseth CH, **Ely EW**. Collaborative Delirium Prevention in the Age of COVID-19. *J Am Geriatr Soc*, 2020; 68: 947-949.
16. Brummel NE, Girard TD, Pandharipande PP, Thompson JL, Jarrett RT, Raman R, Hughes CG, Patel MB, Morandi A, Gill TM, **Ely EW**. Prevalence and Course of Frailty in Survivors of Critical Illness. *Crit Care Med*, 2020; 48: 1419-1426.
17. Devlin JW, O’Neal HRJ, Thomas C, Barnes Daly MA, Stollings JL, Janz DR, **Ely EW**, Lin JC. Strategies to Optimize ICU Liberation (A to F) Bundle Performance in Critically Ill Adults With Coronavirus Disease 2019. *Critical Care Explorations*, 2020; 2: e0139.
18. O’Neal HRJ, Lin JC, Devlin JW, **Ely EW**. Coronavirus Disease 2019: Harnessing Healthy Fear via Knowledge, Attitudes, and Behavior. *Critical Care Explorations*, 2020; 2: e0149.
19. Hatch LD, Scott TA, Slaughter JC, Xu M, Smith AH, Stark AR, Patrick SW, **Ely EW**. Outcomes, Resource Use, and Financial Costs of Unplanned Extubations in Preterm Infants. *Pediatrics*, 2020; 145: e20192819.
20. Mart MF, Willaims Roberson S, Salas B, Pandharipande PP, **Ely EW**. Prevention and Management of Delirium in the Intensive Care Unit. *Semin Respir Crit Care Med*, 2020; Epub ahead of print.
21. Dabrowski W, Siwicka-Gieroba D, Gasinska-Blotniak M, Zaid S, Jezierska M, Pakulski C, Williams Roberson S, **Ely EW**, Kotfis K. Pathomechanisms of Non-Traumatic Acute Brain Injury in Critically Ill Patients. *Medicina (Kaunas)*, 2020; Epub ahead of print.
22. Krewulak KD, Bull MJ, **Ely EW**, Davidson JE, Stelfox HT, Fiest KM. Effectiveness of an intensive care unit family education intervention on delirium knowledge: a pre-test post-test quasi-experimental study. *Canadian Journal of Anesthesia/Journal canadien d'anesthésie*, 2020; Epub ahead of print.
23. Karnatovskaia LV, Johnson MM, Varga K, Highfield J, Wolfrom BD, Philbrick KL, **Ely EW**, Jackson JC, Gajic O, Ahmad SR, Niven AS. Stress and Fear: Clinical Implications for Providers and Patients (in the Time of COVID-19 and Beyond). *Mayo Clinic Proceedings*, 2020; 95(11): 2487-2498.
24. Wilson JE, Mart MF, Cunningham C, Shehabi Y, Girard TD, MacLullich AMJ, Slooter AJC, **Ely EW***.* Delirium. *Nature Reviews Disease Primers* 6:90 (2020). <https://www.nature.com/articles/s41572-020-00236-z>
25. Duggan MC, Van J, **Ely EW**. Delirium Assessment in Critically Ill Older Adults: Considerations During the Covid-19 Pandemic. *Critical Care Clinics*, 2021; 37(1): 175-190.
26. Williams Roberson S, Azeez NA, Taneja R, Pun BT, Pandharipande PP, Jackson JC, **Ely EW**. Quantitative EEG During Critical Illness Correlates With Patterns of Long-Term Cognitive Impairment. *Clin EEG Neurosci*, 2020; Epub ahead of print.
27. Chanques G, Constantin JM, Devlin JW, **Ely EW**, Fraser GL, Gélinas C, Girard TD, Guérin C, Jabaudon M, Jaber S, Mehta S, Langer T, Murray MJ, Pandharipande P, Patel B, Payen JF, Puntillo K, Rochwerg B, Shehabi Y, Strøm T, Olsen HT, Kress JP. Analgesia and sedation in patients with ARDS. *Intensive Care Med*, 2020; 1-15.
28. Carpenter CR, Hammouda N, Linton EA, Doering M, Ohuabunwa UK, Ko KJ, Hung WW, Shah MN, Lindquist LA, Biese K, Wei D, Hoy L, Nerbonne L, Hwang U, Dresden SM. Delirium Prevention, Detection, and Treatment in Emergency Medicine Settings: A Geriatric Emergency Care Applied Research (GEAR) Network Scoping Review and Consensus Statement. *Acad Emerg Med*, 2020;

*[Dr. Ely was a formal consultant on this project and created the Appendix for this publication as acknowledged in the main manuscript.]*

1. Krewulak KD, Hiploylee C, Ely EW, Stelfox HT, Inouye SK, Fiest KM. Adaptation and Validation of a Chart-Based Delirium Detection Tool for the ICU (CHART-DEL-ICU). *J Am Geriatr Soc*, 2020; Epub ahead of print.
2. Roberson SW, Patel MB, Dabrowski W, **Ely EW**, Pakulski C, Kotfis K. Challenges of Delirium Management in Patients with Traumatic Brain Injury: From Pathophysiology to Clinical Practice. *Curr Neuropharmacol*, 2021; Epub ahead of print.
3. Mart MF, Williams Roberson S, Salas B, Pandharipande PP, **Ely EW**. Prevention and Management of Delirium in the Intensive Care Unit. *Semin Respir Crit Care Med*, 2021; 42: 112-126.

Books and Book Chapters:

1. **Ely EW**. Pulmonary and Critical Care Problems in the Elderly. In: *Chest Medicine: Essentials in Pulmonary and Critical Care Medicine*, 4th edit., Williams & Wilkins, Baltimore, 1999, pp. 501-513.
2. **Ely EW**, Bowton DL, Haponik EF. Optimizing the efficiency of weaning from mechanical ventilation.” In: *Mechanical Ventilation: State of the Art on Weaning*, Marcel Dekker, New York, 1999, pp. 531-578.
3. **Ely EW**. Pulmonary and critical care medicine in the elderly. In: *Chest Medicine: Essentials in Pulmonary and Critical Care Medicine*, 4th edit., R. George, R. Light, M. Matthay, R. Matthay, eds., Lippincott Williams & Wilkins, Baltimore, 2000, pp. 501-513.
4. **Ely EW**. Weaning from mechanical ventilation (part 1): evidence supports the use of protocols. In: *Yearbook of Critical Care and Emergency Medicine*. J-L. Vincent, ed., Springer-Verlag, 2001, pp. 491-495.
5. **Ely EW**. Weaning from mechanical ventilation (part 2): strategies for implementing protocols. In: *Yearbook of Critical Care and Emergency Medicine.* J-L. Vincent, ed., Springer-Verlag, 2001, pp. 496-510.
6. Balk RA, **Ely EW**, Goyette RE. *The Sepsis Handbook*, 1st edit., National Initiative in Sepsis Education Series, copyright, 2001, 114 p. [80,000 copies printed and distributed]
7. **Ely EW**. The importance of clinical algorithms. In: *Mechanical Ventilation and Weaning.* (Vol. 36 in the series: Update in Intensive Care and Emergency Medicine. J. Mancebo, A. Net, L. Brochard, eds., Springer, 2001, pp. 248-263.
8. **Ely EW**. Strategies for implementation of weaning algorithms in the clinical arena. The importance of clinical algorithms. In: *Mechanical Ventilation and Weaning.* (Vol. 36 in the series: *Update in Intensive Care and Emergency Medicine.* J. Mancebo, A. Net, L. Brochard, eds., Springer, 2001, pp. 264-278.
9. **Ely EW**. Respiratory Diseases and Disorders in the Elderly. In: *The Geriatrics Review Syllabus: A Core Curriculum in Geriatric Medicine* *(GRS5)*. A. Sherman, ed., American Geriatric Society, 2002, pp. 316-321.
10. **Ely EW**. Weaning from Mechanical Ventilatory Support. In: *Critical Care Medicine--Perioperative Management.* 2nd edit. M.J. Murray, D.B. Coursin, R.G. Pearl, D. Prough (eds). Lippincott, Williams and Wilkens, Philadelphia, pp. 460-473, 2002.
11. **Ely EW**. Weaning from mechanical ventilation: acute and chronic. (Lesson) In: *(PCCU) Pulmonary and Critical Update Online.* Vol. 15. S.A. Sahn, editor, American College of Chest Physicians, 2002, pp. 460-474. *\*Selected for both the first and the second edition of Pulmonary and Critical Care versions of Best of PCCU (Pulmonary and Critical Care Updates)* <http://www.chestnet.org/education/online/pccu/vol15/lessons9_10/lesson10.php>
12. **Ely EW**. Understanding outcomes of critically ill older patients. In: *Update in Intensive Care and Emergency Medicine*: Surviving Intensive Care.” D.C. Angus, J. Carlet, eds., Berlin, Springer, 2002, pp. 85-106.
13. **Ely EW**. Understanding outcomes of critically ill older patients. In: *Update in Emergency and Intensive Care Medicine*. D.C. Angus, J. Carlet, eds., Springer, 2002, pp. 85-106.
14. Kacmarik JP, Prendergast TJ, Runo JR, **Ely EW**. Chronic lung disease and cancer. In: *Geriatric Palliative Care*, R.S. Morrison, D.E. Meier, eds., Oxford University Press, 2003, pp. 173-191.
15. **Ely EW**. Respiratory diseases and disorders. In: *Geriatric Nursing Review Syllabus: A Core Curriculum in Advanced Practice Geriatric Nursing*. E. Flaherty, T. Fulmer, M. Mezey, eds., American Geriatrics Society, New York, 2003, pp. 316-3231.
16. Levy C, **Ely EW**. Critical care in the elderly: optimizing outcomes for older patients admitted to intensive care. Chapter 15 In: *Principles of Geriatric Medicine and Gerontology.* Hazzard, et al., ed., McGraw Hill, New York, 2003, pp. 169-180.
17. Thomason JWW, **Ely EW**. In: Update in Intensive Care and Emergency Medicine: Liberating patients from mechanical ventilation: what have we learned about protocolizing care? In: *Mechanical Ventilation.* J.L. Vincent, ed., Springer, 2003, pp. 135-151.
18. Balk RA, **Ely EW**, Goyette RE. *The Sepsis Handbook*, 2nd edit., Society of Critical Care Medicine, 2004.
19. Levy CR, Pisani MA, **Ely EW**. Pulmonary and critical care among elderly patients admitted to the intensive care unit. In: *Chest Medicine: Essentials of Pulmonary and Critical Care Medicine.* 5th edit., R. George, R. Light, M. Matthay, R. Matthay, eds., Lippincott Williams and Wilkins, 2005: 478-496.
20. Girard TD, Opal SM, **Ely EW**. Severe sepsis in the elderly. In: J.L. Vincent, ed. *2005 Yearbook of Intensive Care and Emergency Medicine*. New York: Springer, 2005, pp. 437-48.
21. **Ely EW**, Bernard GB. *Contemporary Diagnosis and Management of Sepsis*. Newton Handbooks in Health Care Co., 2005, 168 p.
22. **Ely EW**. Delirium in the intensive care unit. In: J.B. Hall, G.A. Schmidt, L.D.H. Wood, eds. *Principles of Critical Care*. New York: McGraw-Hill, 2005, pp. 975-984.
23. **Ely EW**, Goyette RE. Sepsis with acute organ dysfunction. In: J.B. Hall, G.A. Schmidt, L.D.H. Wood, eds. *Principles of Critical Care*. New York: McGraw-Hill, 2005, pp. 699-734.
24. Girard TD, **Ely EW**. Delirium in septic patients: an unrecognized vital organ dysfunction. In: *Sepsis*. Ortiz-Ruiz G., ed., New York: Springer-Verlag, 2006, pp. 136-150.
25. Pisani MA, **Ely EW**. Monitoring and treatment of pain, anxiety and delirium in the ICU. In: *Texbook of Critical Care.* Hall and Wood, eds., Elsevier, 2006, pp. 51-59.
26. Girard TD, **Ely EW**. Delirium, confusional states. In: Markides K.S., ed. *Encyclopedia of Health and Aging*. Los Angeles: Sage Publications, 2007, pp. 137-139.
27. **Ely EW**, Girard TD. Bacteremia and Sepsis in Older Adults. In: High K. ed. *Clinics in Geriatric Medicine.* Philadelphia: Elsevier, 2007, pp. 649-668.
28. Pandharipande P, Jackson J, **Ely EW**. Delirium, sleep, and mental health disturbances in critical illness. In: Parrillo J.E., Dellinger R.P., eds. *Critical Care Medicine: Principles of Diagnosis and Management in the Adult.* 3rd ed. Elsevier, 2007, pp. 1531-1546.
29. Girard TD, **Ely EW**. Caring for the critically ill older patient. In: Irwin R.S.S., Rippe J.M., eds. *Irwin and Rippe's Intensive Care Medicine*. 6th ed. Lippincott Williams & Wilkins, 2008, pp. 2360-2369.
30. Gunther ML, Jackson JC, **Ely EW**. Cognitive impairment and critical illness: The immediate and long-term consequences. In: Kuhlen R., Moreno R., Ranieri M., Rhodes A., eds. *25 Years of Progress and Innovation in Intensive Care Medicine.* Berlin: MWV. 2007, pp. 439-447.
31. Girard TD, **Ely EW**. Delirium in the ICU. In: Rehm CG, Fuhrman TM, eds. *12th Critical Care Refresher*. Society of Critical Care Medicine, 2008, pp. 101-107.
32. Pandharipande PP, **Ely EW**. Scoring and Managing Delirium in the PICU. In: Shanley TP, Zimmerman JJ, eds. *Current Concepts in Pediatric Critical Care*. Society of Critical Care Medicine, 2008, pp. 69-77.
33. Girard TD, **Ely EW**. Delirium in the critically ill patient. In: Young G.B., Wijdicks E.F., eds. *Disorders of Consciousness*. *Handbook of Clinical Neurology,* vol. 90, 3rd edit. Elsevier, 2008, pp. 39-56.
34. Miller RR, **Ely EW**. Sedation, paralysis and analgesia. In: Mackenzie I, ed. *Core Topics in Mechanical Ventilation.* Cambridge University Press, 2008, pp. 160-183.
35. Girard TD, **Ely EW**. Delirium in the ICU. In: Rehm CG, ed. *13th Critical Care Refresher.* Society of Critical Care Medicine, 2009, pp. 11-17.
36. Pisani M, **Ely EW**. Respiratory Diseases and Disorders. In: Pacala JT, Sullivan GM, eds. *Geriatrics Review Syllabus: A Core Curriculum in Geriatric Medicine,* 7th ed. New York, NY: American Geriatrics Society; 2010, pp. 399-405.
37. Girard TD, **Ely EW**. Delirium in the ICU. In: Gilchrist, IC, ed. *Current Concepts in Adult Critical Care.* Society of Critical Care Medicine, 2010, pp 9-15.
38. Pisani M, **Ely EW**. Respiratory diseases and disorders. In: GRS Teaching Slides. NY: American Geriatrics Society; 2010. *GRS Teaching Slides* web site <http://www.frycomm.com/ags/teachingslides/>
39. Sanders RD, Pandharipande PP, **Ely EW**, Maze M. What is the role of alpha-2 adrenergic receptor agonists in the intensive care unit. In: C.S. Deutschman, P.J. Neligan, eds. *Evidence-Based Practice of Critical Care*, Saunders-Elsevier Inc., Philadelphia, 2010, pp. 548-552.
40. McPherson JA, Wagner CE, **Ely EW**. Acute cognitive disorders: recognition and management of delirium in the intensive cardiac care unit. In: M. Tubaro, ed. *The ESC Textbook of Intensive and Acute Cardiac Care,* 2011, pp. 756-763.
41. Page V, **Ely EW.** *Delirium in critical care* (first edit.). A. Vuylsteke, series ed. University Press, Cambridge, UK, 2011, 236 p.
42. Banerjee A, **Ely EW**, Pandharipande PP. Agitation and delirium. In: *Textbook of Critical Care*. J-L. Vincent, E. Abraham, F.A. Moore, P.M. Kochanek, M.P. Fink, eds. Elsevier, Philadelphia, 2011, pp. 7-10.
43. Hughes CG, **Ely EW**, Pandharipande PP. Management of pain, anxiety, and delirium. In: *Textbook of Critical Care*. J-L. Vincent, E. Abraham, F.A. Moore, P.M. Kochanek, M.P. Fink, eds. Elsevier, Philadelphia, 2011, pp. 1492-1498.
44. Sonneville R, **Ely EW**, Sharshar T. Sepsis-associated encephalopathy and its differential diagnosis. In: *The Encyclopedia of Intensive Care Medicine*. J-L. Vincent, J. Hall, eds. Springer, 2012, pp. xxx-xxx.
45. Brummel NE, Morandi A, **Ely EW**. Analgesia, sedation and delirium in the ICU. In: *Pocket ICU*. Frendl G and Urman R, eds. Lippincott Williams & Wilkins, Philadelphia, 2013, p. 8.
46. Morandi A, Brummel NE, **Ely EW**. The elderly: Special considerations. In: *Pocket ICU*, Frendl G and Urman R, eds., Lippincott Williams & Wilkins, Philadelphia, 2013, p. 35.
47. Stevens RD, Sharshar T, **Ely EW**, eds. *Brain Disorders in Critical Illness – Mechanisms, Diagnosis, and Treatment*. New York, Cambridge University Press, 2013, 464 p. [*Primary as first-ever textbook on this topic. Highly commended in the Anaesthesia category of the 2014 BMA Medical Book Awards for 2014*]
48. Boehm L, **Ely, EW**, Mion, LC. How to improve care for older patients in the intensive care unit. In: *Acute Care for Elders: A Model for Interdisciplinary Care*. M.L. Malone, E.A. Capezuti, R.M. Palmer, eds., New York, Springer, 2014, pp. 233-244.
49. **Ely, EW**. Introduction: cognitive and behavioural disorders following critical illness. In: *Textbook of Post-ICU Medicine, The Legacy of Critical Care.* R.D. Stevens, N. Hart and M.S. Herridge, eds.*,* Oxford Press, 2014, 203 p.
50. Han JH, Vasilevskis EE, **Ely EW**. Delirium in the critically-ill emergency department patient. In: *Decision Making in Emergency Critical Care*. J.E. Arbo, G.K. Lighthall, M.P. Jones, eds., Wolters Kluwer – Lippincott Williams & Wilkins, Philadelphia, 2014, pp. 704-717.
51. Page VJ, **Ely EW**. *Delirium in Critical Care* (2nd edit), Cambridge, University Printing House, 2015, 228 p.
52. Frimpong K, Stollings JL, Carlo ME, **Ely EW**. ICU delirium viewed through the lens of the PAD Guidelines and the ABCDEF Implementation Bundle. In: *ICU Liberation: The Power of Pain Control, Minimal Sedation, and Early Mobility, ICU Liberation*. M. Balas, T. Clemmer, K. Hargett, eds., Society of Critical Care Medicine, 2015, pp. 79-88.
53. Mehta Y, Mishra J, Gupta M. “Sedoanalgesia and Delirium.” Textbook of Critical Care. First Edition. **Ely EW.** New Delhi: Jaypee Brothers Medical Publishers Ltd., 2016. Print.
54. Duggan MC, Frimpong K, **Ely EW**. Critical Illness and Intensive Care. In: *Principles and Organization of Care*. Oxford Textbook of Geriatric Medicine, 3rd edition, JP Michel, BL Beattie, FC Martin and JD Walston eds., Oxford University Press, 2017, published online.
55. Marra A, **Ely EW**. The ABCDEF Bundle. In: *Current Concepts in Adult Critical Care*. HG Ryu, MJ Connor Jr, eds., Society of Critical Care Medicine, 2019, pp 125-38.
56. Boncyk C, **Ely EW**, Pandharipande P. How Do I Diagnose, Treat, and Reduce Delirium in the Intensive Care Unit? In: *Evidence-based practice of Critical Care*. Deutschman CS, Neligan PJ, eds., Elsevier; 2019; pp. 631-641.
57. Williams Roberson S, **Ely EW**, Wilson JE. Manifestations of Critical Illness Brain Injury. In: *Vincent J-L (ed) Annual Update in Intensive Care and Emergency Medicine 2020*. Springer International Publishing, Cham; 2020; pp. 457-467.
58. Hughes CG, Pandharipande P, **Ely EW**. *Delirium. Acute Brain Dysfunction in the Critically Ill*. Springer International Publishing, 2020.
59. American Thoracic Society, Assembly on Critical Acre, ATS Patient and Family Education Committee, including **Ely EW.** *Managing The Intensive Care Unit (ICU) Experience: A Proactive Guide for Patients and Families.* American Thoracic Society, 2020. Published online: <https://www.thoracic.org/patients/resources/managing-the-icu-experience.pdf>

Letters, Commentaries, Editorials, Reviews, and Case Reports:

1. **Ely EW**, Haponik EF. A fatal case of sore throat: The Lemierre Syndrome, *Appl. Radiol,* 1994; 23:33-34.
2. **Ely EW**, McCall WV, Haponik EF. Multifactorial obstructive sleep apnea in a patient with Chiari Malformation, *J. Neurol Sci,* 1994; 126:232-236.
3. **Ely EW**, Stump D, Hudspeth AS, Haponik EF. Hazards of the dental drill. *Am J Med.,* [lett.] 1995; 99:331-332.
4. **Ely EW**, Haponik EF. Duration of mechanical ventilation [lett.] *N Engl J Med.,* 1997; 336:1610-11.
5. **Ely EW**. Commentary on “Protocol-directed weaning reduced time spent on mechanical ventilation. ACP J Club, 1997 Nov-Dec;127:68.” Comment on: Kollef, M.H., Shapiro, S.D., Silver, P., et al. A randomized controlled trial of protocol-directed versus physician-directed weaning from mechanical ventilation. *Crit. Care Med.,* 1997; 25:567-74.
6. **Ely EW**, Peacock J, Haponik EF, Washburn R. Cryptocococcal pneumonia complicating pregnancy: a case series and review of 29 cases of cryptococcosis during pregnancy, *Medicine,* 1998; 77(3):153-167.
7. **Ely EW**. Absolution: diagnosing sleep apnea in a family member. *North Carolina Medical Journal,* 1998; 59:49-50.
8. **Ely EW**. Journal Club Invited Commentary: Vena caval filters reduced pulmonary embolism at 12 days but increased incidence at 2 years in high-risk patients. Comment on: Decousus, H., Leizorovicz, A., Parent, F., et al. A clinical trial of vena caval filters in the prevention of pulmonary embolism in patients with proximal deep-venous thrombosis. *N Engl J Med.,* 1998; 338:409-415. Journal Club Assembly on Critical Care, American Thoracic Society, 1998.
9. **Ely EW**. Challenges encountered in changing physicians’ practice styles: the weaning experience. *Intensive Care Med.,* 1998; 24:539-541.
10. **Ely EW**. Journal Club Invited Commentary: “Weg, J.G., Anzueto, A., Balk R.A., Wiedemann, H.P., Pattishall, E.N., Schork, M.A., Wagner, L.A. The relation of pneumothorax and other air leaks to mortality in the acute respiratory distress syndrome. *N Engl J Med.,* 1998; 338:341-346.” Journal Club of Assembly on Critical Care, American Thoracic Society, March, 1998; [www.thoracic.org/cc/club11298.html](http://www.thoracic.org/cc/club11298.html)
11. **Ely EW**. Journal Club Invited Commentary: Gattinoni, L., Pelosi, P., Suter, P., Pedoto, A., Vercesi, P., Lissoni, A. Acute respiratory distress syndrome caused by pulmonary and extrapulmonary disease: different syndromes. *Am J Respir Crit Care Med.,* 1998; 158:3-11. Journal Club of Assembly on Critical Care, American Thoracic Society, 1998; [www.thoracic.org/cc/club11298.html](http://www.thoracic.org/cc/club11298.html)
12. **Ely EW**. Journal Club Invited Commentary: Bach, P.B., Carson, S.S., Leff, A. Outcomes and resource utilization for patients with prolonged critical illness managed by university-based or community-based subspecialists. *Am J Respir Crit Care Med.,* 1998; 158:1410-1415. Journal Club Assembly on Critical Care, American Thoracic Society, 1998; [www.thoracic.org/cc/club11298.html](http://www.thoracic.org/cc/club11298.html)
13. **Ely EW**. Journal Club Invited Commentary: “Perrigault PF, Pouzeratte YH, Jaber, S., et al. “Changes in occlusion pressure (p. 01) and breathing pattern during support ventilation. *Thorax,* 1999; 54:119-123.” Journal Club Assembly on Critical Care, American Thoracic Society, 1999; [www.thoracic.org/cc/club11298.html](http://www.thoracic.org/cc/club11298.html)
14. **Ely EW**. Journal Club Invited Commentary: Girault C, Daudenthun I, Chevron V, Tamion F, Leroy J, and Bonmarchand G. Noninvasive Ventilation as a Systemic Extubation and Weaning Technique in Acute-on-Chronic Respiratory Failure: A Prospective, Randomized, Controlled Study.  *Am J Respir Crit Care Med.,* 1999; 160:86-92. Journal Club of Assembly on Critical Care, American Thoracic Society, August, 1998; [www.thoracic.org/cc/club11298.html](http://www.thoracic.org/cc/club11298.html)
15. **Ely EW**. Book Review: *Principles and Practice of Intensive Care Monitoring*, M.J. Tobin, ed., McGraw-Hill, 1998, 1525 pp. ISBN 0-07-065094-2. *JAMA*,1999; 282(15):1486-1487.
16. **Ely EW**. Journal Club Invited Commentary: Kollef MH, Skubas NJ, Sundt TM. A randomized clinical trial of continuous aspiration of subglottic secretions in cardiac surgery patients. *Chest*, 1999; 116:1339-1346. Journal Club of Assembly on Critical Care, American Thoracic Society, December, 1999; [www.thoracic.org/cc/club11298.html](http://www.thoracic.org/cc/club11298.html).
17. **Ely EW**, Bernard GR. Transfusions in critically ill patients. *N Engl J Med.,* 1999; 340(6):467-458.
18. **Ely EW**. American College of Chest Physicians Update on Sepsis 2000. *Medscape Respirt Care,* December 2000. [http://RespiratoryCare.medscape.com/Medscape/ CriticalCare/TreatmentUpdate/\2000/tu02/public/toc-TU02.html](http://RespiratoryCare.medscape.com/Medscape/%20CriticalCare/TreatmentUpdate/2000/tu02/public/toc-TU02.html)
19. **Ely EW**. "New Evolutions in Understanding and Managing Patients with Sepsis." Medscape Crit Care Treatment Updates. 2000; [www.medscape.com](file:///C:\Users\lasakots\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\3Q8J6AYC\www.medscape.com).
20. Park G, Coursin D, **Ely EW**, England M, Fraser GL, Mantz J, McKinley S, Ramsay M, Scholz J, Singer M, Sladen R, Vender JS, Wild L. Commentary: Balancing sedation and analgesia in the critically ill. *Crit Care Clin*, 2001; 17(4):1015-1027.
21. Bernard GR, **Ely EW**, Helterbrandt JD. [Authors’ response to Letters to the Editor regarding Activated Protein C article in *N Engl J Med.,* 344(10):699-709.]  *N Engl J Med.,* 345(3):219-221, 2001.
22. Wall RJ, Dittus RS, **Ely EW**. Protocol-driven care in the ICU: a tool of quality [Editorial]. *Crit Care,* 2001; 5(6):283-285.
23. **Ely EW**. The dancing flower pot: a Father's Day gift. *Physician Magazine,* 2002; pp. 4-6.
24. **Ely EW**, Bernard GR, Vincent JR. Activated protein C for severe sepsis. *N Engl J Med.,* 2002; 347:1035-1036.
25. Loss C, **Ely EW**. *Managing Death in the Intensive Care Unit: The Transition from Cure to Comfort*. J.R. Curtis, G.D. Rubenfeld, eds. [book review]. *Respiratory Care,* 2002; 47(5):608.
26. Meade MO, **Ely EW**. Protocols to improve the care of critically ill pediatric and adult patients. *JAMA,* 2002; 288(20):2601-2602.
27. Jackson JC, **Ely EW**. The Confusion Assessment Method (CAM). *Int J Geriatr Psychiatry,* 2003; 18(6):557-558.
28. Truman B, **Ely EW**. Potentiating the problem of delirium? [lett.] *Critical Care Nurse,* 2003; 23:1314, 2003.
29. **Ely EW**. Drotrecogin alfa (activated) administration: too many subgroups. [lett.] *Crit Care Med.,* 2003; 31(10):2564-65.
30. **Ely EW**. Optimizing outcomes for older patients treated in the intensive care unit. *Intensive Care Med.,* 2003; 29(12):2112-15.
31. Ely K, **Ely EW**. *Focus on the Family*: Amid the ashes: Finding Baby Jesus. *Physician.* Nov/Dec Issue, 2003, pp. 9-10.
32. Jackson JC, Gordon SM, Hart RP, Hopkins RO, **Ely EW**. The association between delirium and cognitive decline: a review of the empirical literature. *Neuropsychol. Rev,* 2004; 14(2):87-98.
33. Rice TW, **Ely EW**. Book Review: *Irwin and Rippe's Intensive Care Medicine*. *JAMA,* 2004; 291:498-499.
34. **Ely EW**, Dittus R. Pharmacological treatment of delirium in the intensive care unit [reply lett.]. *JAMA*. 2004; 292:168-169.
35. Thomason JWW, **Ely EW**. Delirium in the intensive care unit is bad: What is the confusion? *Crit Care Med.,* 2004; 32:2352-2354.
36. **Ely EW**, Jackson JC. Letter to the Editor: Comment on “Inter-Rater Reliability of Delirium Rating Scales.' *Neuroepidemiology*, 2005; 25:48–52.” *Neuroepidemiology,* 2005; 25(4):213-214.
37. Pandharipande P, **Ely EW**. Narcotic-based sedation regimens for critically ill mechanically ventilated patients. *Crit Care,* 2005; 9(3):247-248.
38. **Ely EW**. Lumpers vs. splitters. *Crit Care Med.,* 2005; 33(6):1465.
39. Girard TD, Jackson JC, **Ely EW**. Comment on: Validity and reliability of the DDS for severity of delirium in the ICU. *Neurocrit Care*, 2005; 2(2):150-8. *Neurocrit Care* 2006; 4:190-1.
40. **Ely W**. Comment on: Remembrance of weaning past: the seminal papers by Dr. Martin Tobin. *Intensive Care Med.,* 2007; 33(4):746.
41. Cotton BA, Girard TD, **Ely EW**. Authors Reply To: “Increased levels of serum S100B protein in critically ill patients without brain injury: *Shock*. 26(1):20-24, 2006.” *Shock* 2007; 27 (3):338-342.
42. Janz DR, **Ely EW**. A 58-year-old man with facial flushing and dyspnea. *J Respir Dis,* 2008; 6(29):237-239.
43. Kleinpell RM, **Ely EW**, Grabenkort R. Nurse practitioners and physician assistants in the intensive care unit: An evidence-based review. *Crit Care Med.,* 2008; 36(11):2888-2897.
44. Girard TD, Kress JP, Fuchs BD, Bernard GR, **Ely EW**. Authors Reply to: “Wake up and breathe” for patients with respiratory failure. *Lancet* 2008; 371(9622):1414-1415.
45. Pandharipande PP, Girard TD, **Ely EW**. Sedation with Dexmedetomidine vs Lorazepam in mechanically ventilated patients – Authors’ reply. *JAMA*. 2008; 299(13):1542.
46. Janz DR, O’Neal HR, **Ely EW**. Acute eosinophilic pneumonia: A case report and review of the literature. *Crit Care Med.,* 2009; 37(4):1470-1474.
47. Jackson JC, Hopkins RO, Miller RR, Gordon SM, Wheeler AP, **Ely EW**. Acute respiratory distress syndrome, sepsis, and cognitive decline: a review and case study. *South Med J,* 2009; 102(11):1150-1157.
48. **Ely EW**. Letter to the Editor: Physician-assisted death. *Crit Care Med.,* 2009; 37(8):2492-2493.
49. **Ely EW**. Letter to the Editor: Physician-assisted death: Secular versus faith-based considerations. *The Linacre Quarterly* 2009;76(3): 233-235.
50. Morandi A, Han JH, Callison C, **Ely EW**, Schnelle JF. Letter to the Editor: Delirium in nursing home residents across transitions: A preliminary report. *J Am Geriatr Soc*. 2009; 57(10):1956-1958.
51. Pandharipande P, **Ely EW** (guest editors). Sedation and analgesia in the ICU: Pharmacology, protocolization, and clinical consequences. *Crit Care Clin*. 2009; 25(3).
52. Pandharipande PP, Banerjee A, McGrane S, **Ely EW**. Editorial: Liberation and animation for ventilated ICU patients: the ABCDE bundle for the back-end of critical care. *Crit Care*. 2010; 14:156-157.
53. Shintani AK, Girard TD, **Ely EW**. Letter to the Editor: Immortal time bias in critical care. *Crit Care Med.,* 2010; 38(4):1229.
54. Iwashyna TJ, **Ely EW**, Smith DS, Langa KM. Letter to the Editor: Long-term Cognitive Impairment and Functional Disability Among Survivors of Severe Sepsis. *JAMA*,2011; 305(7):673-674.
55. **Ely EW.** Cyanosis. *JAMA*,2011; 305(23):2388-2389.
56. **Ely EW**. The Leopard-Skin Bra. *JAMA*, 2011; 305(8): 756-757.
57. Morandi A, Vasilevskis EE, Pandharipande PP, Girard TD, Solberg LM, Neal EB, Koestner T, Torres R, Thompson JL, Shintani AK, Han JH, Schnelle J, Fick DM, **Ely EW**, Kripalani S. Inappropriate medications in elderly ICU survivors: Where to intervene. *Arch Intern Med.,* 2-11; 171(11):1032-1033.
58. Franco JG, Ricardo C, Munoz JF, DePablo J, Berry P, **Ely EW**, Smith HAB. Diagnosing delirium in critically ill children: Spanish Translation and cultural adaption of the Pediatric Confusion Assessment Method for the Intensive Care Unit. *Crit Care Med.,* 2012; 40(3):1034.
59. Bednarik J, **Ely EW**. Delirium detection in stroke patients. *Crit Care Med.,* 2012; 40(7):2267-2268.
60. Vasilevskis EE, **Ely EW**. The danger of delirium: Comment on “Delirium and long-term cognitive trajectory among persons with dementia.” *Arch Intern Med.,* 2012; 172(17):1331-2.
61. **Ely EW**. His enduring gift: What do we make of the Eucharist and Transubstantiation? *The Linacre Quarterly*, 2012; 79(2):135-137.
62. Vasilevskis EE, **Ely EW**, Dittus RS. Quality and safety challenges in critical care: preventing and treating delirium in the intensive care unit [Perspective]. AHRQ WebM&M [serial online]. December 2012. Available at: <http://webmm.ahrq.gov/perspective.aspx?perspectiveID=134>
63. Smith HA, Brink E, Fuchs DC, **Ely EW**, Pandharipande PP. Pediatric delirium: monitoring and management in the pediatric intensive care unit. *Pediatr Clin North Am*. 2013; 60(3):741-60. doi: 10.1016/j.pcl.2013.02.010. Epub 2013 Mar 19. Review
64. Pandharipande PP, Girard TD, Jackson JC, Morandi A, Thompson JL, Pun BT, Brummel NE, Hughes CG, Vasilevskis EE, Shintani AK, Moons KG, Geevarghese SK, Canonico A, Hopkins RO, Bernard GR, Dittus RS, **Ely EW**. Long-term cognitive impairment after critical illness. *N Engl J Med.,* 2013; 369(14):1306-16. PMID:24401069. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/?term=24401069>
65. Watson PL, Malow BA, **Ely EW**. The authors reply: *Crit Care Med.,* 2014; 42(4),3313-4.
66. Serafim RB, Bozza FA, Soares M, Pedro EA, Tura BR, **Ely EW**, Salluh JIF. Pharmacologic prevention and treatment of delirium in intensive care patients: A Systematic Review. *J Crit Care,* 2015; 30(4):799-807. PMID: 25957498
67. **Ely EW**. Kaleidoscope. *Ann Intern Med.,* 2015; 162(2):152-3.
68. **Ely EW**, Embracing the spiritual history. *The Linacre Quarterly*, 2015; 82(2):112-115.
69. Goligher EC, Del Sorbo L, **Ely EW**, Sulmasy DP, Liao L, Hwang SW. Why conscientious objection merits respect. *CMAJ*, 2016; 188(11):822-3. Comment on: Right to die in Canada: respecting the wishes of physician conscientious objectors. [*CMAJ*. 2015] PMCID: PMC4978582
70. Dinglas VD, Colantuoni E, **Ely EW**, Hough CL, Morris PE, Mendez-Tellez PA, Wozniak AW, Hopkins RO, Needham DM. Authors’ response to commentaries on Rosuvastatin for delirium and cognitive impairment in sepsis-associated Acute Respiratory Distress Syndrome. *J Thorac Dis.* 2016; 8(11):E1534-E1536. doi: 10.21037/jtd.2016.11.53
71. Girard TD, Dittus RS, **Ely EW**. Critical Illness Brain Injury. *Annu Rev Med.,* 2016; 67:497-513. doi: 10.1146/qnnu43f-me-050913-015722. Review. PMID: 26768245
72. **Ely EW**. Annals of ATS Blog Editorials. “How I Roll Weaning,” alongside entries from Laurent Brochard and Andres Esteban. <https://annalsatsblog.org/> May 25, 2016.
73. **Ely, EW**. Sonnet XXX: Love, dignity and dying. *The Linacre Quarterly*, 2016; 83(2): 150-156.
74. **Ely EW**. A doctor’s prayer, seeking saintly aid. *National Catholic Register*, Oct 16, 2016. <http://www.ncregister.com/site/article/a-doctors-prayer-seeking-saintly-aid/>
75. **Ely EW**, Sprung CL, Somerville M. Conscientious Objection in Health Care. *N Engl J Med.,* July 6, 2017. <http://www.nejm.org/doi/full/10.1056/NEJMc1706233?query=TOC>
76. Edmonds PJ, Arroyo JP, Morales A, Brown RM, **Ely EW**. Intrahepatic Pancreatic Pseudocyst: a Rare Complication of Pancreatitis. *J Gastronintestin Liver Dis*, Sep 2017, 26(3) 322.
77. Kumar, A, Gabbard E, Smith H, Vedral-Baron J, Aldrich M, **Ely EW**. ICU Liberation: Optimizing quality and efficiency of critical care delivery. *Becker’s Hospital Rev.* Dec 2017. Last accessed on January 2, 2018. <https://www.beckershospitalreview.com/quality/icu-liberation-optimizing-quality-and-efficiency-of-critical-care-delivery.html>
78. Enfield K, **Ely EW**. SCCM Pod-359 Early Mobility in Critically Ill Patients. Feb 2018. Last accessed February 9, 2018. [http://www.sccm.org/PodCasts/SCCMPod359.mp3](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.sccm.org%2FPodCasts%2FSCCMPod359.mp3&data=02%7C01%7Cangie.williams%40Vanderbilt.Edu%7C815d504a4b3544548a9508d56fd969f0%7C5f88b91902e3490fb772327aa8177b95%7C0%7C0%7C636537901961691045&sdata=vSi6QmdcS9rXL5EzWiJdsQprDuV3Kp8BgbquJozPRLM%3D&reserved=0)
79. **Ely EW**. Why religious belief should be declared as a competing interest. *BMJ* 2018; 361:k1456. Published April 12 2018. doi: https://doi.org/10.1136/bmj.k1456
80. Wilson JE, Heckers S, **Ely EW**. The Author’s Reply regarding Deepening the Understanding of the Psychomotor Response to Critical Illness. *Crit Care Med*; July 2018: 46(7) e722.
81. Girard TD, **Ely EW**. The Author’s Reply regarding Haloperidol and Ziprasidone for Treatment of Delirium in Critical Illness. *NEJM;* May 2019: 380(18) 1779-80.
82. Boncyk CS, Mart MF, Ely EW. Does COVID-19 Cause Sepsis? *Medscape Critical Care*, 2020; <https://www.medscape.com/viewarticle/939038>
83. Oldham MA, Slooter AJC, Cunningham C, Rahman S, Davis D, Vardy ERLC, Garcez FB, Neufeld KJ, de Castro REV, **Ely EW**, MacLullich A. Characterising neuropsychiatric disorders in patients with COVID-19. *The Lancet Psychiatry*, 2020; 7(11): 932-933

Opinion Editorials (Op-Eds) and Media:

1. **Ely EW**. Love, faith and the lost battalion. *Wall Street Journal.* February 19,2014. <http://www.wsj.com/article_email/e-wesley-ely-love-faith-and-the-lost-battalion-1424391483-lMyQjAxMTA1MDIzMDgyNzA3Wj>
2. **ELY EW**.Last stand. *Pulse Voices.* July 24, 2015.[https://www.pulsevoices.org/index.php/pulse-stories/508-last-stand](https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.pulsevoices.org%2Findex.php%2Fpulse-stories%2F508-last-stand&data=02%7C01%7Cholly.stevens%40vumc.org%7C937e2ccd78c54037a89808d7f038bca8%7Cef57503014244ed8b83c12c533d879ab%7C0%7C0%7C637241998776574965&sdata=WonKkuON%2FsWppWySZCy4w%2FF9%2FKVq9e251dbPkqBfZvM%3D&reserved=0)
3. **Ely EW**. What I learned from a dying patient. *Wall Street Journal.* December 19, 2014. <http://www.wsj.com/articles/wesley-ely-what-i-1419032604>
4. **Ely EW**. A swimming pool in the ICU. *Wall Street Journal.* June 17, 2016. <http://www.wsj.com/articles/a-swimming-pool-in-the-icu-1466117000>
5. **ELY EW**, What happens when a patient says, 'Doc, help me die'. *CNN.* March 20, 2018. <https://www.cnn.com/2018/03/20/opinions/caregiving-what-its-like-to-be-me-wes-ely-opinion/index.html>
6. Harris R. (Host), **Ely EW**. (2018 October 10). When ICU delirium leads To symptoms Of dementia after discharge. *NPR*; <https://www.npr.org/sections/health-shots/2018/10/10/654445929/when-icu-delirium-leads-to-symptoms-of-dementia-after-discharge>
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.