

Curriculum Vitae

Name: Pratik P. Pandharipande
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Training

08/1989 - 12/1993 M.D. in Medicine from Nagpur University, India
01/1994 - 12/1994 Internship from University of Nagpur, India
09/1995 - 06/1996 Training in Research from University of Pittsburgh
07/1996 - 06/1997 Residency in Anesthesiology from Saint Barnabas Medical Center, Livingston, NJ
07/1997 - 06/1999 Residency in Anesthesiology from Saint Barnabas Medical Center, Livingston, NJ
07/1999 - 06/2000 Chief Resident in Anesthesiology from Saint Barnabas Medical Center, Livingston, NJ
07/2000 - 06/2001 Fellowship in Critical Care from Vanderbilt University Medical Center, Nashville, TN
09/2003 - 08/2005 M.S.C.I. in Masters of Science and Clinical Investigation from Vanderbilt University, TN United States

Licensure and Certification

2000 - Present Medical, Tennessee Department of Health, Medical License (35218)
2002 - Present Boards, American Board of Anesthesiology (34915)
2002 - Present Boards, Special Certification in Critical Care
2004 - Present Medical, Fundamentals in Critical Care Support (FCCS) Instructor Certification
2009 - Present Medical, Fellow College of Critical Care Medicine (FCCM)

Academic Appointments

07/2001 - 11/2001 Instructor, Vanderbilt University (Nashville, Tennessee)
12/2001 - 08/2008 Assistant Professor, Vanderbilt University (Nashville, Tennessee)
09/2008 - 10/2012 Associate Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)
07/2011 - 09/2012 Associate Professor of Surgery, Vanderbilt University (Nashville, Tennessee)
10/2012 - Present Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)
10/2012 - Present Professor of Surgery, Vanderbilt University (Nashville, Tennessee)

Other Work Experience

10/2012 - Present Professor Anesthesiology and Critical Care, Anesthesia Service, TN Valley Health Care System (Nashville, Tennessee)

Professional Organizations

Society of Critical Care Anesthesiologists, Member
Society of Critical Care Medicine, Member
Association of University Anesthesiologists, Member
International Anesthesia Research Society, Member
American Society of Anesthesiologists, Member

Professional Activities

Intramural

2001 - 2003	OR Pharmacy Committee, Anesthesiology, Member
2001 - 2003	Clinical Case Conferences Coordinator, Anesthesiology, Coordinator
2001 - 2003	Residency Education Committee, Anesthesiology, Member
2001 - 2003	Morbidity and Mortality Conferences Coordinator, Anesthesiology, Coordinator
2003 - Present	ICU Delirium and Cognitive Impairment Group, Site PI
2004 - Present	FCCS Instructor and Organizing Committee Member, Anesthesiology, Member
2006 - Present	Resident Research Coordinator, Anesthesiology, Coordinator
2006 - 2011	Academic Development Conference Committee Coordinator, Anesthesiology, Coordinator
2008 - Present	BH Robbins Scholars Program Coordinator, Anesthesiology, Co-Coordinator
2009 - Present	Research Executive Committee, Anesthesiology, Member

Extramural

2004 - Present	Reviewer for Critical Care Medicine
2004 - Present	Reviewer for Anesthesiology
2005 - Present	Intensive Care Medicine
2009 - 2010	Committee on Critical Care, American Society of Anesthesiologists, Member
2010 - Present	Anesthesia and Analgesia
2011 - 2013	Critical Care Exam Committee, American Board of Anesthesiology

Teaching Activities

2001 - Present	Critical Care Resident Monthly Lectures, 1 lecture per month for residents rotating in the ICUs
2001 - Present	Mock Oral Examiner
2001 - Present	Supervision of the training of Residents and Fellows in the Departments of Anesthesiology and Surgery in Anesthesiology and Intensive Care Medicine, VUMC, Nashville, TN
2005 - Present	Fundamentals in Critical Care Support (FCCS): FCCS, Vanderbilt University Medical Center
2009 - Present	Critical Care Skills Week, 8 hours of teaching every 3 months
2010 - Present	Fellow Didactic Lectures, 2-3 lectures per year for the Anesthesia and Surgical Critical Care Fellows

Research Supervision / Mentorship

2006 - 2009	Vivek Agarwal, M.D. Cedar Sinai LA, Current Position: Resident Internal Medicine. (Resident, Research)
2007 - 2011	Stuart McGrane, M.D., M.S.C.I. Vanderbilt University Medical Center, Current Position: Assistant Professor of Anesthesiology. (Faculty, Research)
2008 - Present	Christopher Hughes, M.D. Vanderbilt University Medical Center, Current Position: Assistant Professor of Anesthesiology. (Faculty, Research)
2008 - 2012	Jessica Adams, M.D. Vanderbilt University Medical Center, Current Position: Fellow Endocrinology. (Medical Student, Research)
2009 - Present	Heidi Smith, M.D., M.S.C.I. Vanderbilt University Medical Center, Current Position: Faculty Anesthesiology. (Faculty, Research)
2010 - Present	Mayur Patel, M.D., M.P.H. Vanderbilt University Medical Center, Current Position: Assistant Professor of Surgery and Trauma. (Faculty, Research)

Other Significant Activities

11/2011	Expert Reviewer for VA Merit Awards:
07/2012	Exper Reviewer VA Merit Awards:
2013	Conference Planning Committee American Delirium Society:

2014
07/2014

SCCM PAD Sedation Group:
AdHoc Reviewer NIH Grants:

Grants and Funding

Grant number unavailable Hospira Inc. " 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 Role: Co-Investigator Total Cost: \$480,000.00	P Pandharipande (PI)	2002 - 2007
Grant number unavailable Foundation of Anesthesia Education and Research (FAER) " 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 Role: Principal Investigator Total Cost: \$255,000.00	P Pandharipande (PI)	2005 - 2007
UL1 RR024975 NIH CTSA Pathogenesis of delirium-inflammation and genetics Role: Principal Investigator Total Cost: \$35,000.00	P Pandharipande (PI)	2007 - 2010
UL1 RR024975 NIH CTSA Dexmedetomidine reduces inflammation in spine surgeries Role: Co-Investigator Total Cost: \$46,000.00	J Blair (PI)	2008 - 2013
UL1 RR024975 NIH CTSA Role of endothelial progenitor cells in brain dysfunction Role: Mentor Total Cost: \$45,000.00	C Hughes (PI)	2009 - 2011
Grant number unavailable VA CSR&D Career Development Award Risk Factors for Delirium and PTSD in Critically Ill veterans Role: Principal Investigator Total Cost: \$647,572.00	P Pandharipande (PI)	01/2009 - 12/2011
Grant number unavailable FAER Role of endothelial progenitor cells in brain dysfunction Role: Mentor Total Cost: \$175,000.00	C Hughes (PI)	07/2010 - 06/2012
UL1 RR024975 NIH CTSA The PAICOD perioperative neuroimaging study	J Blair (PI)	01/2011 - Present

2008	Charles Pittinger Award for Research Excellence, Department of Anesthesiology
2008	Chairs Award for Excellence in Research, Department of Anesthesiology
2010	Bradley Smith Award for Excellence in Mentorship, Department of Anesthesiology
2014	Charles Pittinger Award for Research Excellence, Department of Anesthesiology

Publications

Peer Reviewed Publications

Review Articles

1. Goldsmith, WW, **Pandharipande, PP**. Transfusion-related acute lung injury--does the anesthesiologist need to worry about this. Journal of Clinical Anesthesiology 2005; 17(5):366-8. PMID: 16102688.
2. **Pandharipande, P**, Jackson, J, Ely, EW. Delirium: acute cognitive dysfunction in the critically ill. Current Opinions in Critical Care 2005; 11(4):360-8. PMID: 16015117.
3. **Pandharipande, P**, Ely, EW, Maze, M. Alpha-2 agonists: can they modify the outcomes in the Postanesthesia Care Unit. Current Drug Targets 2005; 6(7) PMID: 16305453.
4. **Pandharipande, P**, Ely, EW. Sedative and analgesic medications: risk factors for delirium and sleep disturbances in the critically ill. Critical Care Clinics 2006; 22(2):313-27. PMID: 16678002.
5. **Pandharipande P**, Ely W, Maze M. Dexmedetomidine for sedation and perioperative management of the critically ill. Seminars in Anesthesia, Perioperative Medicine and Pain 2006; 25.
6. Girard TD, **Pandharipande P**, Ely EW. Delirium in the intensive care unit. Critical Care 2008; 12 Suppl 3: PMID: 18495054 PMCID: 2391269.
7. A Morandi, M Gunther, E. Wesley Ely and P Pandharipande. The Pharmacological Management of Delirium in Critical Illness. Current Drug Targets 2008 May;3(2):148-157.
8. Smith HA, Fuchs DC, **Pandharipande P**, Barr FE, Ely EW. Delirium: an emerging frontier in the management of critically ill children. Critical Care Clinics 2009 Jul;25(3):593-614, x. PMID: 19576533 PMCID: PMC2793079.
9. Vasilevskis EE, **Pandharipande P**, Girard TD, Ely EW. A screening, prevention, and restoration model for saving the injured brain in intensive care unit survivors. Critical Care Medicine 2010 Oct;38(10 Suppl):S683-91. PMID: 21164415.
10. Arna Banerjee MD, Eduard E. Vasilevskis, M.D, and Pratik Pandharipande MD, MSCI. Strategies to improve delirium assessment practices in the ICU. Journal of Clinical Outcomes Management 2010 Oct;17(10):443-447.
11. Banerjee A, Girard TD, **Pandharipande P**. The complex interplay between delirium, sedation, and early mobility during critical illness: applications in the trauma unit. Current Opinion in Anesthesiology 2011 Apr;24(2):195-201. PMID: 21386669.
12. Hughes CG, **Pandharipande PP**. The effects of perioperative and intensive care unit sedation on brain organ dysfunction. Anesthesia and Analgesia 2011 May;112(5):1212-7. PMID: 21474659.
13. Sanders RD, **Pandharipande P**, Davidson AJ, Ma D, Maze M. Anticipating and managing postoperative delirium and cognitive decline in adults. BMJ 2011 Jul;343:d4331. PMID: 21775401.
14. Smith HA, Fuchs DC, **Pandharipande P**, Barr FE, Ely EW. Delirium: an emerging frontier in the management of critically ill children. Anesthesiology Clinics 2011 Dec;29(4):729-50. PMID: 22078920.
15. McGrane S, **Pandharipande PP**. Sedation in the intensive care unit. Minerva Anestesiologica 2012 Mar;78(3):369-80. PMID: 22240616.
16. Hughes CG, Brummel NE, Vasilevskis EE, Girard TD, **Pandharipande PP**. Future directions of delirium research and management. Best Practice & Research. Clinical Anesthesiology. 2012 Sep;26(3):395-405. PMID: 23040289.
17. 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 Practices & Research: Clinical Anesthesiology 2012 Sep;26(3):267-76. PMID: 23040280.
18. Hughes CG, Patel MB, **Pandharipande P**. Pathophysiology of acute brain dysfunction: what's the cause of all this confusion?. Current Opinions in Critical Care 2012 Oct;18(5):518-26. PMID: 22941208.
19. Smith HA, Berutti T, Brink E, Stroehler B, Fuchs DC, Ely EW, **Pandharipande PP**. Pediatric critical care perceptions on analgesia, sedation, and delirium. Seminars in respiratory and critical care medicine 2013 Apr;34(2):244-61. PMID: 23716315.
20. Smith HA, Brink E, Fuchs DC, Ely EW, **Pandharipande PP**. Pediatric delirium: monitoring and management in the pediatric intensive care unit. Pediatric clinics of North America 2013 Jun;60(3):741-60. PMID: 23639666.

Research Articles

1. Shurin, M and **Pandharipande, P**. Flt3 receptor and ligand. A new tool in biological immunotherapy. In Vivo Veritas (Biological Therapeutic Program of UPCI) 1996; 4(4).

2. Shurin MR, **Pandharipande P** et al. Flt3 ligand induces the generation of functionally active dendritic cells in mice. Cellular Immunology 1997; 2(179):174-84. PMID: 9268501.
3. **Pandharipande, P**, Shintani, A, Peterson, J, Pun, BT, Wilkinson, GR, Dittus, RS, Bernard, GR, Ely, EW. Lorazepam is an independent risk factor for transitioning to delirium in intensive care unit patients. Anesthesiology 2006; 104(1):21-26. PMID: 16394685.
4. **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):2644-53. PMID: 18073360.
5. **Pandharipande, P**, Cotton, BA, Shintani, A, Thompson, J, Costabile, S, Truman Pun, B, Dittus, R, Ely, EW. Motoric subtypes of delirium in mechanically ventilated surgical and trauma intensive care unit patients. Intensive Care Medicine 2007; 33(10):1726-31. PMID: 17549455.
6. Masica A, Girard T, **Pandharipande P** et al. Clinical sedation scores as indicators of sedative and analgesic exposures in critically ill ICU patients. American Journal of Geriatric Pharmacotherapy 2007; 5(3):218-31. PMID: 17996661.
7. Ely, EW, Girard, TD, Shintani, AK, Jackson, JC, Gordon, SM, Thomason, JW, Pun, BT, Canonico, AE, Light, RW, **Pandharipande, P**, Laskowitz, DT. Apolipoprotein E4 polymorphism as a genetic predisposition to delirium in critically ill patients. Critical Care Medicine 2007; 35(1):112-7. PMID: 17133176.
8. 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. Critical Care Medicine 2008; 36(12):3171-7. PMID: 19020432.
9. 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 Medicine 2008; 34(7):1263-8. PMID: 18297270.
10. **Pandharipande, P**, Cotton, BA, Shintani, A, Thompson, J, Pun, BT, Morris, JA, Dittus, R, Ely, EW. Prevalence and risk factors for development of delirium in surgical and trauma intensive care unit patients. Journal of Trauma 2008; 65(1):34-41. PMID: 18580517.
11. 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. Critical Care Medicine 2009; 37(3):825-32. PMID: 19237884.
12. Pousman, R.M., Pepper, C., **Pandharipande, P.**, Ayers, G.D., Mills, B., Diaz, J., Collier, B., Miller, R., Jensen, G. Feasibility of Implementing a Reduced Fasting Protocol for Critical Ill Trauma Patients Undergoing Operative and Nonoperative Procedures. Journal of Parenteral and Enteral Nutrition 2009; 33(2):176-80. PMID: 19251911.
13. **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. Critical Care Medicine 2009; 37(4):1317-1321. PMID: 19242333.
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 Medicine 2009 Nov;35(11):1886-92. PMID: 19588122.
15. 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. Journal of Burn Care & Research 2010; 31(5):706-15. PMID: 20647937.
16. **Pandharipande PP**, Sanders RD, Girard TD, McGrane S, Thompson JL, Shintani AK, Herr DL, Maze M, Ely EW, MENDS investigators. Effect of dexmedetomidine versus lorazepam on outcome in patients with sepsis: an a priori-designed analysis of the MENDS randomized controlled trial. Critical Care(London, England) 2010; 14(2):R38. PMID: 20233428 PMCID: PMC2887145.
17. Girard TD, **Pandharipande P**, Carson SS, Schmidt GA, Wright PE, Canonico AE, Pun BT, Thompson JL, Shintani AK, Meltzer HY, Bernard GR, Dittus RS, Ely EW, MIND Trial Investigators. Feasibility, efficacy, and safety of antipsychotics for intensive care unit delirium: the MIND randomized, placebo-controlled trial. Critical Care Medicine 2010 Feb;38(2):428-37. PMID: 20095068.
18. 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. Critical Care Medicine 2010 Jul;38(7):1513-20. PMID: 20473145.
19. Hughes CG, Weavind L, Banerjee A, Mercaldo ND, Schildcrout JS, **Pandharipande PP**. Intraoperative risk factors for acute respiratory distress syndrome in critically ill patients. Anesthesia and Analgesia 2010 Aug;111(2):464-7. PMID: 20418537.
20. Morandi A, Gunther ML, Vasilevskis EE, Girard TD, Hopkins RO, Jackson JC, **Pandharipande P**, Ely EW. Neuroimaging in Delirious Intensive Care Unit Patients: A Preliminary Case Series Report. Psychiatry (Edgmont (Pa. : Township)) 2010 Sep;7(9):28-33. PMID: 20941349 PMCID: PMC2952644.
21. 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 (pCAM-ICU). Critical Care Medicine 2010

Oct;39(1):150-7. PMID: 20959783.

22. 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. International Psychogeriatrics / IPA 2011 Feb;23(7):1175-81. PMID: 21294938.
23. 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. Critical Care (London, England) 2011 Mar;15(2):R78. PMID: 21366899.
24. 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?. Archives of Internal Medicine 2011 Jun;171(11):1032-4. PMID: 21670372.
25. Choi L, Caffo BS, Kohli U, **Pandharipande P**, Kurnik D, Ely EW, Stein CM. A Bayesian hierarchical nonlinear mixture model in the presence of artifactual outliers in a population pharmacokinetic study. Journal of Pharmacokinetics and Pharmacodynamics 2011 Aug;38(5):613-36. PMID: 21847635.
26. Morandi A, Hughes CG, Girard TD, McAuley DF, Ely EW, **Pandharipande PP**. Statins and brain dysfunction: a hypothesis to reduce the burden of cognitive impairment in patients who are critically ill. Chest 2011 Sep;140(3):580-5. PMID: 21896517.
27. Adams Wilson JR, 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. Critical Care Medicine 2011 Nov;40(3):835-41. PMID: 22080637.
28. Vasilevskis EE, Morandi A, Boehm L, **Pandharipande PP**, Girard TD, Jackson JC, Thompson JL, Shintani A, Gordon SM, Pun BT, Wesley Ely E. Delirium and sedation recognition using validated instruments: reliability of bedside intensive care unit nursing assessments from 2007 to 2010. Journal of the American Geriatrics Society 2011 Nov;59 Suppl 2:S249-55. PMID: 22091569.
29. 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. European Journal of Clinical Pharmacology 2012 Jan;68(6):937-42. PMID: 22271297.
30. Walia A, Susan Mandell M, Mercaldo N, Michaels D, Robertson A, Banerjee A, Pai R, Klinck J, Weinger M, **Pandharipande P**, Schildcrout J, Schumann R. Anesthesia for liver transplantation in U.S. Academic centers: Institutional structure and perioperative care. Liver Transplantation 2012 Mar;18(6):737-43. PMID: 22407934.
31. 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 May;92(12):1580-92. PMID: 22577067.
32. Morandi A, Rogers BP, Gunther ML, Merkle K, **Pandharipande P**, Girard TD, Jackson JC, Thompson J, Shintani AK, Geevarghese S, Miller RR 3rd, Canonico A, Cannistraci CJ, Gore JC, Ely EW, Hopkins RO, for the VISIONS Investigation (VISualizing Icu SurvivOrs Neuroradiological Sequelae). The relationship between delirium duration, white matter integrity, and cognitive impairment in intensive care unit survivors as determined by diffusion tensor imaging: The VISIONS prospective cohort magnetic resonance imaging study. Critical Care Medicine 2012 May;40(7):2182-9. PMID: 22584766.
33. 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, Heckers S, Gore JC, Hopkins RO, Ely EW, for the VISIONS Investigation (VISualizing Icu SurvivOrs Neuroradiological Sequelae). The association between brain volumes, delirium duration, and cognitive outcomes in intensive care unit survivors: The VISIONS cohort magnetic resonance imaging study*. Critical Care Medicine 2012 Jul;40(7):2022-2032. PMID: 22710202.
34. 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. Journal of Critical Care 2012 Aug; PMID: 22884531.
35. Patel MB, McKenna JW, Alvarez JM, Sugiura A, Jenkins JM, Guillaumondegui OD, **Pandharipande PP**. Decreasing adrenergic or sympathetic hyperactivity after severe traumatic brain injury using propranolol and clonidine (DASH After TBI Study): study protocol for a randomized controlled trial. Trials 2012 Sep;13(1):177. PMID: 23013802.
36. 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*. Critical Care Medicine 2012 Oct;40(10):2788-2796. PMID: 22824928 PMID: 3576216.
37. 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 medicine 2012 Dec;38(12):1965-73. PMID: 22903241.
38. 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 Dec;92(12):1580-92. PMID: 22577067 PMID: PMC3513484.
39. 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. Critical care medicine 2013 Feb;41(2):405-413. PMID: 23263581 PMID: 355770.

40. Hughes CG, Morandi A, Girard TD, Riedel B, Thompson JL, Shintani AK, Pun BT, Ely EW, **Pandharipande PP**. Association between Endothelial Dysfunction and Acute Brain Dysfunction during Critical Illness. Anesthesiology 2013 Mar;118(3):631-639. PMID: 23263016 PMCID: 3580006.
41. Morandi A, Vasilevskis E, **Pandharipande PP**, Girard TD, Solberg LM, Neal EB, 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. Journal of the American Geriatrics Society 2013 Jul;61(7):1128-34. PMID: 23855843 PMCID: PMC3713508.
42. Schumann R, Mandell MS, Mercaldo N, Michaels D, Robertson A, Banerjee A, Pai R, Klinck J, **Pandharipande P**, Walia A. Anesthesia for liver transplantation in United States academic centers: intraoperative practice. Journal of clinical anesthesia 2013 Aug; PMID: 23994704.
43. Watson PL, **Pandharipande P**, Gehlbach BK, Thompson JL, Shintani AK, Dittus BS, Bernard GR, Malow BA, Ely EW. Atypical Sleep in Ventilated Patients: Empirical Electroencephalography Findings and the Path Toward Revised ICU Sleep Scoring Criteria. Critical care medicine 2013 Aug;41(8):1958-1967. PMID: 23863228.
44. Hughes CG, Girard TD, **Pandharipande PP**. Daily sedation interruption versus targeted light sedation strategies in ICU patients. Critical care medicine 2013 Sep;41(9 Suppl 1):S39-45. PMID: 23989094.
45. **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, BRAIN-ICU Study Investigators. Long-term cognitive impairment after critical illness. The New England journal of medicine 2013 Oct;369(14):1306-16. PMID: 24088092.
46. Patel MB, Laudanski K, **Pandharipande PP**. An International Career Development Survey of Critical Care Practitioners. Critical care medicine 2013 Dec; PMID: 24335441.
47. 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*. Critical care medicine 2014 Feb;42(2):369-77. PMID: 24158172.
48. 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, Bringing to light the Risk Factors And Incidence of Neuropsychological dysfunction in ICU survivors (BRAIN-ICU) study investigators. Depression, post-traumatic stress disorder, and functional disability in survivors of critical illness in the BRAIN-ICU study: a longitudinal cohort study. The lancet. Respiratory medicine 2014 May;2(5):369-79. PMID: 24815803.
49. **Pandharipande PP**, Hughes CG, Girard TD. Only a Small Subset of Sedation-related Delirium Is Innocuous: We Cannot Let Our Guard Down. American journal of respiratory and critical care medicine 2014 Jun;189(11):1443-4. PMID: 24881944.
50. Morandi A, Hughes CG, Thompson JL, **Pandharipande PP**, Shintani AK, 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. Critical care medicine 2014 Aug;1899-1909. PMID: 24810528.
51. European Delirium Association, American Delirium Society. The DSM-5 criteria, level of arousal and delirium diagnosis: inclusiveness is safer. BMC medicine 2014 Oct;12:141. PMID: 25300023 PMCID: PMC4177077.
52. 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. Critical care medicine 2014 Oct;42(10):2244-51. PMID: 25072756.
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3. Turner, S, Mathews, L, **Pandharipande, P**, Thompson, R. Dolasetron-induced torsades de pointes. Journal of Clinical Anesthesiology 2007; 19(8):622-5. PMID: 18083478.
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2. **Pandharipande, P**, Ely, EW. Sedation and analgesia in the ICU--pharmacology protocolization and clinical consequences. Critical Care Clinics 2009 Jul;2009 July(25(3)):xv-xvi. PMID: 19576522.
3. **Pandharipande P**, Banerjee A, McGrane S, Ely EW. Liberation and animation for ventilated ICU patients: the ABCDE bundle for the back-end of critical care. Critical Care (London, England) 2010; 14(3): 157. PMID: 20497606 PMCID: PMC2911702.

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Abstracts

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Non-Peer Reviewed Publications

Abstracts

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- Tatiana Zorina, Michael Shurin, Pratik Pandharipande. In vitro generation of CD8+DC in presence of either IL-2 and TNF-a or IL-2 and IL-4. 4th International Workshop on Dendritic Cells, 1996.
- Pratik Pandharipande, A Shintani, J Peterson, W. Ely. Sedative and Analgesics are Independent Risk Factors for Transition into Delirium. Critical Care Medicine 2004; 32(12):A19.
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- Pratik Pandharipande, S Soja. Implementation and reliability testing of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU) in trauma patients. Critical Care Medicine 2006; 34(12):A52.
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- J Adams, P Pandharipande. Tryptophan Metabolites and Acute Brain Dysfunction. Anesthesiology 2009; A231.
- V Agarwal, P Pandharipande. Prevalence and risk factors of delirium in burn ICU patients. Anesthesiology 2009; A1580.
- Christopher Hughes, Pratik Pandharipande. Intraoperative risk factors for ARDS. Anesthesiology 2009; A1447.

21. Stuart McGrane, Pratik Pandharipande. CRP and PCT as risk factors for brain dysfunction. Anesthesiology 2009; A232.
22. J Adams, Pratik Pandharipande. Plasma Tryptophan Levels Increase Risk of Transitioning to Delirium in ICU. American Journal of Respiratory and Critical Care Medicine 2009.
23. H Smith, E. W. Ely, Pratik Pandharipande. Validation of the PCAM-ICU for monitoring delirium in children. Crit Care Medicine 2010.
24. H Smith, Pratik Pandharipande. Validation of the PCAM-ICU for monitoring delirium in children. ASCCA 2010.
25. J Adams, P Pandharipande. Tryptophan Metabolites and Acute Brain Dysfunction. Association of University Anesthesiologists 2010.
26. Morandi A, Girard T.D., Gordon S.M., Thompson J.L., Shintani A., Ely E.W., Jackson J.C.. Delirium Duration as a Predictor of Long-Term Deficits in Executive Function, Memory, and Visuospatial Construction after Critical Illness. . EDA 2010 2010.
27. Morandi A, Gunther M.L., Pandharipande P., Jackson J.C., Thompson J.L., Shintani A., Ely E.W., Girard T.D. Serum Insulin-Like Growth Factor-1 (IGF-1) and Acute Brain Dysfunction in the ICU. . Critical Care Medicine 2010 Jan.
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30. Morandi A, Vasilevskis E, Girard T.D., Solberg L, Neal E, Torres R, Fick D, Ely E.W, Kripalani S, **Pandharipande P**. The Burden of Potentially and Actually Inappropriate Medication in Elderly ICU Survivors. . Critical Care Medicine 2011 Jan.
31. Geevarghese S, Gunther M.L, Morandi A, Girard T.D., Thompson J.L., Shintani A., Ely E.W., **Pandharipande P.P**. Delirium Duration is Associated with Hippocampal and Thalamic Volume Loss in Liver Transplant Patients. . American Transplant Congress 2011 Apr.
32. Hughes C, Morandi A, Thompson J, Girard T, Ely E, **Pandharipande P**. The role of endothelial health in prevention of ICU brain dysfunction. . Society of Critical Care Anesthesiologists Annual Meeting 2011 Oct.
33. Hughes C, Morandi A, Thompson J, Girard T, Ely E, **Pandharipande P**. The role of endothelial health in prevention of ICU brain dysfunction. . American Society of Anesthesiologists Annual Meeting 2011 Oct.
34. Hughes C, Morandi A, Thompson J, Girard T, Ely E, **Pandharipande P**. The role of endothelial health in prevention of ICU brain dysfunction. . Critical Care Medicine 2012 Feb.
35. Morandi A, **Pandharipande P**, Shintani A, Hughes C, Vasilevskis E, Thompson J, Han J, Jackson J, Bernard G, Laskowitz D, Ely E, Girard T. Statin use and the daily risk of delirium in a prospective cohort of critically ill patients. . American Thoracic Society International Conference 2012 May.

Editorials

1. **Pandharipande PP**, Ely EW. Sedation and Analgesia in the ICU: Pharmacology, Protocolization, and Clinical Consequences: Preface. Anesthesiology clinics 2011 Dec;29(4):xv-xvi. PMID: 22078923.
2. Jorge Ibrain Figueira Salluh, Pratik Pandharipande. Prevention of delirium in critically ill patients: a new beginning? . Rev Bras Ter Intensiva. 2012 Apr;24(1):1-3.

Research Articles

1. Brummel NE, Girard TD, Ely EW, **Pandharipande PP**, Morandi A, Hughes CG, Graves AJ, Shintani A, Murphy E, Work B, Pun BT, Boehm L, Gill TM, Dittus RS, Jackson JC. Feasibility and safety of early combined cognitive and physical therapy for critically ill medical and surgical patients: the Activity and Cognitive Therapy in ICU (ACT-ICU) trial. Intensive care medicine 2013 Nov; PMID: 24257969.

Book Chapters

1. **Pandharipande P**, Jackson J, Ely EW. Delirium and mental illness during critical illness. Critical Care Medicine (4th Edition) . Editors: Parrillo and Dellinger. Lippincott; 2008.
2. Banerjee A and **Pandharipande PP**. Delirium in hospitalized patients. Conn's Current Therapy . Editors: Bope and Rakel. 2010.
3. Sanders R, **Pandharipande P**, Ely EW, Maze M. What is the role of Alpha2 receptor agonists in the ICU. Evidence-based practice of Critical Care. Editors: Deutschman and Neligan. Saunders; 2010 Jun;548-553.
4. Terhune K, Weavind L, **Pandharipande P**. How do we prevent, diagnose and treat delirium in the ICU. Evidence-based practice of Critical Care. Editors: Deutschman and Neligan. Saunders; 2010 Jun;553-561.
5. Hughes CH, McGrane SM, **Pandharipande P**. Management of Sedation, Analgesia and Delirium . Anesthetic Pharmacology: Basic Principles and Clinical Practice. Editors: Evers, Maze and Kharasch. Cambridge University Press; 2011 Jun;2nd Edition.
6. Hughes CH, Ely EW, **Pandharipande P**. Management of Pain, Anxiety and Delirium. Textbook of Critical Care.

Editors: JL Vincent, E Abraham, F Moore and M Fink. Saunders; 2011 Jul;6th edition.

7. Han, JH; **Pandharipande, P.** Sedation in the Mechanically Ventilated Patient. Decision Making Emergency Critical Care: An Evidence Based Handbook. Editors: Stephen J. Ruoss; Geoffrey K. Lighthall; Michael P. Jones. Philadelphia, Pennsylvania, United States: Lippincott Williams & Wilkins; 2014 Oct;727-740.

Presentations

Invited Presentation - Local

1. Tennessee Perioperative Nurses Seminar. Nashville, Tennessee. 2008 Mar; Emergence Delirium.
2. Ingham Medical Center; Lansing, Michigan. 2009 Feb; Delirium and sedation in the ICU.
3. Good Samaritan Hospital; Brockton, Massachusetts. 2010 Oct; Sedation and Delirium.

Invited Presentation - Regional

1. TSA. Tennessee Society of Anesthesiologist; Nashville, Tennessee. 2008 Feb; Acute Brain Dysfunction.
2. AACN Critical Care Symposium. AACN Kansas Chapter; Kansas City, Kansas. 2011 Mar; Liberation and Animation in MV patients.
3. Department of Psychiatry Annual Meeting. Wichita, Kansas. 2011 Nov; Delirium and sedation in the ICU.
4. American Association of Critical Care Nurses. AACN Kansas Chapter; Kansas City, Kansas. 2012 Mar; Liberation and Animation in critically ill patients.
5. P. Cynosure health. Cynosure health; San Francisco, California. 2013 Jan; The ABCDEs of good sedation and delirium practices.
6. Pratik Pandharipande. Middle East Society of Critical Care; Dubai, United Arab Emirates. 2013 May; Sedation and Delirium: PAD guidelines.
7. Pratik Pandharipande. Middle East Society of Critical Care; Riyadh, Saudi Arabia. 2013 May; Sedation and Delirium: PAD guidelines.
8. Pratik Pandharipande. Harvard Refresher Course. Harvard University; Boston, Massachusetts. 2014 May; Delirium during Critical Illness.
9. Pratik Pandharipande. Neurotrauma Symposium. HCA; Nashville, Tennessee. 2014 Nov; Long-term Impact of Delirium.

Invited Presentation - National

1. Scripps Memorial Trauma Center Critical Care Symposium. La Jolla, San Diego, California. 2011 May; ABCDEs of sedation and delirium.

Workshop

1. Society of Critical Care Medicine Refresher Course. SCCM; San Francisco, California. 2009 Jul; Sedation, analgesia and delirium.
2. Pratik Pandharipande. National Sedation Day. Dublin, Ireland. 2013 Feb; Sedation and Delirium.
3. Pratik Pandharipande. Cynosure Health. Gordon and Betty Moore Foundation; San Francisco, California. 2013 Jul; ABCDEs of good sedation and delirium practices.

Panel Presentation

1. ASCCA; Orlando, Florida. 2008 Oct; Partnership with Industry.
2. ASA; Orlando, Florida. 2008 Oct; "My Patient is Delirious".
3. Canadian Critical Care Forum. Toronto, Canada. 2008 Nov; Modifying Sedation Paradigms in ICU.
4. American Society of Anesthesiologists. ASA; Chicago, Illinois. 2011 Oct; Delirium in the ICU and PACU can be prevented.
5. European Society of Critical Care Medicine. ESICM; Berlin, Germany. 2011 Oct; Killing them softly with sedatives.
6. Society for Neuroscience in Anesthesiology and Critical Care. SNACC; Chicago, Illinois. 2011 Oct; Sleep and Delirium in the ICU.
7. San Francisco General Hospital. Cynosure Health; San Francisco, California. 2012 Sep; Implementing of the ABCDE bundle in the ICU.
8. Pratik Pandharipande. American Society of Anesthesiology. ASA; Washington, District of Columbia. 2012 Oct; Perioperative Delirium.
9. Pratik Pandharipande. American Society of Anesthesiology. ASA; Washington, District of Columbia. 2012 Oct; Year in Review: Sedation and Delirium.

Visiting Professor

1. Cleveland University Hospitals; Cleveland, Ohio. 2008 Feb; Sedation and Outcomes.
2. Massachusetts General Hospital; Boston, Massachusetts. 2010 Oct; Sedation in critically ill patients.
3. Weber Memorial lecture. Sunnybrook Medical Center; Toronto, Canada. 2011 Apr; Critical care associated brain dysfunction.
4. Internal Medicine Grand Rounds. Jewish Hospital of Montreal; Montreal, Canada. 2012 Feb; Critical illness associated brain dysfunction.
5. Annual Critical Care meeting of the Catholic University of Santiago, Chile. Catholic University of Santiago, Chile; Santiago, Chile. 2012 Aug; The ABCDEs of good sedation and delirium practices.
6. Annual Critical Care meeting of the Catholic University of Santiago, Chile. Catholic University of Santiago, Chile; Santiago, Chile. 2012 Aug; Critical Illness Associated Brain Dysfunction: The Neuroanatomical and Neurotransmitter hypothesis.
7. Pratik Pandharipande. Yale Medical School; New Haven, Connecticut. 2014 Feb; Acute and long term cognitive impairment after critical illness.
8. Pratik Pandharipande. Duke University. Duke University; Durham, North Carolina. 2014 May; Long term Consequences of Critical Illness.
9. Pratik Pandharipande. Washington University. St Louis, Missouri. 2014 Dec; Long-term Consequences of Critical Illness and Prehabilitation.

Presentations at Scientific Meetings

1. EuroNeuro Congress; Maastricht, Netherlands, The. 2008 Jan; Delirium in Critically Ill Patients.
2. Brazilian National Congress; Salvador, Brazil. 2008 May; Sedation and Delirium in the ICU.
3. Mexican Critical Care Congress; Merida, Mexico. 2008 Oct; Sedation and Delirium in Critically Ill Patients.
4. Canadian Critical Care Forum. Toronto, Canada. 2008 Nov; The MENDS Study.
5. Turkish Intensive Care Society.. Turkish Intensive Care Society.; Istanbul, Turkey. 2009 May; Delirium, sedation and LTCI.
6. Columbian Critical Care Congress. Columbian Critical Care Society; Bogota, Colombia. 2009 May; Advances in Management of Sedation and Delirium.
7. American Society of Anesthesiologists. ASA; New Orleans, Louisiana. 2009 Oct; Beta blockers for non cardiac surgery.
8. Society of Critical Care Medicine. SCCM; Miami, Florida. 2010 Jan; Delirium a never event: is it practical?.
9. Brazilian National Conference. Brazilian Critical Care Society; Sao Paulo, Brazil. 2010 May; New paradigms for sedation.
10. Singapore Duke Conference on Critical Care. Singapore University and Duke University; Singapore, Singapore. 2010 Sep; Beta blockers- all things considered.
11. Singapore Duke Conference on Critical Care. Singapore University and Duke University; Singapore, Singapore. 2010 Sep; New paradims for sedation.
12. American Society of Anesthesiology Annual Meeting. ASA; San Diego, California. 2010 Oct; Delirium in PACU can be avoided.
13. European Society of Intensive Care Medicine. ESICM; Barcelona, Spain. 2010 Oct; Clinical trials with alpha2 agonists.
14. Society of Critical Care Medicine Annual Congress. SCCM; San Diego, California. 2011 Jan; New drugs for alcohol withdrawal.
15. Red Intensiva Medicine. Chilean Critical Care Society; Santiago, Chile. 2011 May; New Paradigms of Sedation in ICU.
16. Red Intensiva Medicine. Chilean Critical Care Society; Santiago, Chile. 2011 May; Neuroanatomical and neurobiological basis of delirium and outcomes.
17. Versailles NeuroIntensive Care Congress. French Society of Intensive Care Medicine; Versailles, France. 2011 Jun; Changes in neurotransmission in delirium.
18. Versailles NeuroIntensive Care Congress. French Society of Intensive Care Medicine; Versailles, France. 2011 Jun; Pharmacological approaches to delirium.
19. UCSF Trauma Critical Care Meeting. UCSF; San Fransisco, California. 2012 May; Long term complications of critical illness.
20. UCSF Trauma Critical Care Meeting. UCSF; San Fransisco, California. 2012 Jun; Delirium: Indentification and Prevention.
21. American Delirium Socity. ADS; Indianapolis, Indiana. 2012 Jun; Critical Illness Associated Brain Dysfunction.
22. Pratik Pandharipande. American Delirium Society. American Delirium Society; Baltimore, Maryland. 2013 Jun; Biomarkers in Delirium.
23. Pratik Pandharipande. American Delirium Society. American Delirium Society; Baltimore, Maryland. 2013 Jun;

- The BRAIN-ICU Study: Cognitive outcomes after critical illness.
24. Pratik Pandharipande. ASA. ASA; San Francisco, California. 2013 Oct; What's new in sedation and delirium?.
 25. Pratik Pandharipande. SCCM. SCCM; San Francisco, California. 2014 Jan; Cognitive Impairment Beyond Delirium.
 26. Pratik Pandharipande. U13 Meeting of the American Geriatrics Society. AGS and NIH; Bethesda, Maryland. 2014 Feb; End points for Delirium Research.
 27. Pratik Pandharipande. Society of Cardiovascular Anesthesiologists. SCA; New Orleans, Louisiana. 2014 Mar; Benzodiazepines in Cardiac Surgery.
 28. Pratik Pandharipande. ASA. ASA; New Orleans, Louisiana. 2014 Oct; Delirium can be managed: Point, Counterpoint.
 29. Pratik Pandharipande. ASA. ASA; New Orleans, Louisiana. 2014 Oct; Delirium during Critical Illness: Refresher Course.
 30. Pratik Pandharipande. European Delirium Society. EDA; Cremona, Italy. 2014 Nov; PTSD in Critically Ill Patients.
 31. Pratik Pandharipande. European Delirium Society. EDA; Cremona, Italy. 2014 Nov; Vulnerability to LTCI and Mental Illness.

University Talk

1. University of Toronto; Toronto, Canada. 2011 Apr; Critical care associated brain dysfunction.

External Grand Rounds

1. Chester Medical Center; West Chester, Pennsylvania. 2008 May; New Concepts for Sedation in Critically Ill.
2. Chester Medical Center; West Chester, Pennsylvania. 2008 Sep; New Concepts for Sedation in Critically Ill.
3. Reading Medical Center; Reading, Pennsylvania. 2008 Sep; Sedation in Critically Ill.
4. Bristol Medical Center; Bristol, Tennessee. 2008 Dec; New Solutions to Old Problems.
5. Northshore Hospital; New York, New York. 2009 Sep; Sedation, analgesia and delirium.
6. St Roosevelt Hospital NYC; New York, New York. 2010 Jan; ABCDE's of good sedation and delirium practices.
7. Baystate Medical Center; Baystate, Massachusetts. 2011 Apr; Sedation and Delirium.
8. Division of Trauma, Herman Medical Center; Houston, Texas. 2012 Feb; Implementing sedation and delirium bundles in ICU.
9. Pratik Pandharipande. Boulder Community Hospital; Boulder, Colorado. 2012 Sep; Improving sedation paradigms.

Internal Grand Rounds

1. Multidisciplinary Critical Care Conference. Vanderbilt Medical Center, Department of Surgery; Nashville, Tennessee. 2008 Dec; Killing them softly with benzodiazepines.
2. Pratik Pandharipande. St Agnes Hospital. St Agnes Hospital; Baltimore, Maryland. 2014 Jul; Implementation of the PAD Bundle.