

Beth Israel Deaconess Medical Center
Department of Anesthesia Critical Care and Pain Medicine

Education Research Publications (2009-present)

1. Bose R, Matyal R, Panzica P, Karthik S, Subramaniam B, Pawlowski J, Mitchell J, Mahmood F. Transesophageal Echocardiography Simulator: A New Learning Tool. *J Cardiothoracic Vasc Anesth.* 2009; 23(4): 544-8. PMID: 19303326
2. Bose RR, Matyal R, Warraich HJ, Summers J, Subramaniam B, Mitchell J, Panzica PJ, Shahul S, Mahmood F. Utility of a transesophageal echocardiographic simulator as a teaching tool. *J Cardiothoracic Vasc Anesth.* 2011; 25(2): 212-5. PMID: 20974542
3. Shakil O, Mahmood B, Matyal R, Jainandunsing JS, Mitchell J, Mahmood F. Simulation training in echocardiography: The evolution of metrics. *J Cardiothoracic Vasc Anesth.* 2013; 27(5): 1034-40. PMID: 23623888
4. Mitchell JD, Holak E, Tran HN, Muret-Wagstaff S, Jones SB, Brzezinski M. Are we closing the gap in faculty development needs for feedback training? *Journal of Clinical Anesthesia.* 2013; 25(7): 560-4. PMID: 24008192
5. Blum RH, Boulet JR, Cooper JB, Muret-Wagstaff SL; Harvard Assessment of Anesthesia Resident Performance Research Group. Simulation-based assessment to identify critical gaps in safe anesthesia resident performance. *Anesthesiology.* 2014; 120(1): 129-41. PMID: 24398731
6. Matyal R, Mitchell JD, Hess P, Chaudary B, Bose R, Jainandunsing J, Wong V, Mahmood. Simulator-based Transesophageal Echocardiographic Training with Motion Analysis - A Curriculum Based Approach. *Anesthesiology.* 2014; 121(2): 389-99. PMID: 24667829
7. Mitchell J, Mahmood F, Bose R, Hess P, Wong V, Matyal R. Novel multimodal approach for basic transesophageal echocardiographic teaching. *J Cardiothorac Vasc Anesth.* 2014; 28(3): 800-9. PMID: 24746594
8. Vinson A, Mitchell JD. Assessing levels of support for residents following adverse outcomes: A national survey of anesthesia residency programs in the United States. *Med Teach.* 2014; 36(10): 858-66. PMID: 24804917
9. Owais, K, Mitchell J. Con: Simulation training in transesophageal echocardiography. *J Cardiothoracic Vasc Anesth.* 2014; 28(5): 1412-3. PMID: 25281052
10. Mitchell JD, Mahmood F, Wong V, Bose R, Nicolai D, Wang A, Hess PE, Matyal R. Teaching concepts of Transesophageal Echocardiography via Web-based Modules. *J Cardiothorac Vasc Anesth.* 2015; 29(2): 402-409. PMID: 25440653
11. Mitchell JD, Montealegre-Gallegos M, Mahmood F, Owais K, Wong V, Ferla B, Chowdhury S, Nachashon A, Doshi R, Matyal R. Multimodal Perioperative Ultrasound Course for Interns Allows for Enhanced Acquisition and Retention of Skills and Knowledge. *A A Case Rep.* 2015; 5(7): 119-23. PMID: 26402024
12. Matyal R, Montealegre-Gallegos M, Mitchell JD, Kim H, Bergman R, Hawthorne K, O'Halloran D, Wong V, Hess PE, Mahmood F. Manual Skill Acquisition During Transesophageal Echocardiography Simulator Training of Cardiology Fellows - A Kinematic Assessment. *J Cardiothorac Vasc Anesth.* 2015; 29(6): 1504-10. PMID: 26341879
13. Mitchell JD, Ku C, Wong V, Fisher LJ, Muret-Wagstaff S, Ott Q, Shahul S, Bose R, Tibbles C, Jones SB. Impact of a Resident Communication Skills Curriculum on Patients' Experience of Care. *A A Case Rep.* 2016; 6(3): 65-75. PMID: 26669651

14. Montealegre-Gallegos M, Mahmood F, Kim H, Bergman R, Mitchell JD, Bose R, Hawthorne KM, O'Halloran TD, Wong V, Hess PE, Matyal R. Imaging skills for transthoracic echocardiography in cardiology fellows: The value of motion metrics. *Ann Card Anaesth.* 2016; 19: 245-50. PMID: 27052064
15. Mahmood F, Matyal R, Skubas N, Montealegre-Gallegos M, Swaminathan M, Denault A, Sniecinski R, Mitchell JD, Taylor M, Haskins S, Shahul S, Oren-Grinberg A, Wouters P, Shook D, Reeves ST. Perioperative Ultrasound Training in Anesthesiology: A Call to Action. *Anesth Analg.* 2016 Jun; 122(6): 1794-1804. PMID: 27195630
16. Yeh L, Montealegre-Gallegos M, Mahmood F, Hess PE, Shnider M, Mitchell JD, Jones SB, Mashari A, Wong V, Matyal R. Assessment of Perioperative Ultrasound Workflow Understanding: A Consensus. 2016 Jul 9. pii: S1053-0770(16)30272-5. PMID: 27686512
17. Mitchell JD, Jones SB. Faculty Development in Feedback Provision. *Int Anesthesiol Clin.* 2016 Summer; 54(3): 54-65. PMID: 27285072
18. Nachshon A, Mitchell JD, Mueller A, Banner-Goodspeed VM, McSparron JI. Expert Evaluation of a Chicken Tissue-based Model for Teaching Ultrasound-guided Central Venous Catheter Insertion. *JEPM.* 2017 Jul 1;19(1): E503. PMID: 28377943
19. Mitchell JD, Ku C, Diachun C, DiLorenzo A, Lee DE, Karan S, Wong V, Shell RM, Brzezinski M, Jones SB. Enhancing Feedback on Professionalism and Communication Skills in Anesthesia Residency Programs. *Anesth Analg.* 2017 Aug; 125(2): 620-631. PMID: 28598926
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23. Mitchell JD, Amir R, Montealegre-Gallegos M, Mahmood F, Shnider M, Mashari A, Yeh L, Bose R, Wong V, Hess P, Amador Y, Jeganathan J, Jones SB, Matyal R. Summative Objective Structured Clinical Examination Assessment at the End of Anesthesia Residency for Perioperative Ultrasound. *Anesth Analg.* 2018 June. 126(6):2065-2068. PMID: 29381519
24. Mahmood F, Mahmood E, Dorfman RG, Mitchell J, Mahmood FU, Jones SB, Matyal RM. Augmented Reality and Ultrasound Education: Initial Experience. *J Cardiothorac Vasc Anesth.* 2018 Jun;32(3):1363-1367. PMID: 29452879
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29. Matyal R, Mitchell JD (Co-first author), Mahmood F, Oren-Grinberg A, Leibowitz A, Mador Y, Wong V, Khamooshian A, Mahmood F, Amir R, Bortman J, Jones SB. Faculty Focused Perioperative Ultrasound Training Program: A Single Center Experience. *J Cardiothorac Vasc Anesth*. 2019 Apr;33(4):1037-1043. PMID: 30638919
30. Mitchell JD, Ku C, Lutz B, Shahul S, Wong V, Jones SB. A Customizable Curriculum to Enhance Resident Communication Skills. *Anesth Analg*. Nov;129(5):e155-158. Accompanied by editorial. PMID: 30829671
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37. Buhl LK, Nozari A. More Even Distribution of ACGME-mandated Cases Improves Residents' Perceptions of Fairness and Balance. *J Educ Perioper Med*. 2020 Oct 1;22(4):E649. PMID: 33447648
38. Brzezinski M, Sawatzki R, Tran HN, Price K, Gregersen M, Wong C, Feng CM, Kimatian S, Mizuguchi A, Kukreja J, Mitchell JD, Schlect KD. An Analysis of Successful Features of Anesthesiology Journal Clubs. *J Educ Perioper Med*. 2020 Oct 1;22(4):E648. PMID: 33447647
39. Ma H*, Ruan X*, Wong VT, Guo W, Huang Y, Mitchell JD. Identifying the Gap between Novices and Experts in Fiberoptic Scope Control. *J Educ Perioper Med*. 2021 Jan 1;23(1):E655. PMID: 33778100 *Co-first authors

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45. Fatima H, Mahmood F, Mufarrih SH, Mitchell JD, Wong V, Amir R, Hai T, Montealegre M, Jones SB, Knio ZO, Matyal R. Preclinical Proficiency-Based Model of Ultrasound Training. *Anesth Analg*. 2021 Apr 12. Online ahead of print. PMID: 33844654
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47. Fatima H*, Kuppalli S*, Baribeau V, Wong VT, Chaudhary O, Sharkey A, Bordlee JW, Leibowitz A, Murugappan KR, Pannu A, Rubenstein LA, Walsh DP, Kunze LJ, Stiles JK, Weinstein J, Mahmood F, Matyal R, Lodico DN, Mitchell JD. Comprehensive Ultrasound Course for Special Operations Combat and Tactical Medics. *J Spec Oper Med*. Accepted May 2021, in press. *Co-first authors
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