

Recent publications in Simulation Based Education, Jan - March 2017

Anesthesiology:

- Udani AD, Harrison TK, Mariano ER, Derby R, Kan J, Ganaway T, Shum C, Gaba DM, Tanaka P, Kou A, Howard SK; ADAPT (Anesthesiology-Directed Advanced Procedural Training) Research Group. Comparative-Effectiveness of Simulation-Based Deliberate Practice Versus Self-Guided Practice on Resident Anesthesiologists' Acquisition of Ultrasound-Guided Regional Anesthesia Skills. *Reg Anesth Pain Med*. 2016 Mar-Apr;41(2):151-7. PubMed PMID: 26866296. <https://www.ncbi.nlm.nih.gov/pubmed/26866296>
- Escher C, Creutzfeldt J, Meurling L, Hedman L, Kjellin A, Felländer-Tsai L: Medical students' situational motivation to participate in simulation based team training is predicted by attitudes to patient safety. *BMC Med Educ*. 2017 Feb 10;17(1):37. doi: 10.1186/s12909-017-0876-5. <https://www.ncbi.nlm.nih.gov/pubmed/28183316>

Emergency medicine:

- House JB, Choe CH, Wourman HL, Berg KM, Fischer JP, Santen SA. Efficient and Effective Use of Peer Teaching for Medical Student Simulation. *West J Emerg Med*. 2017 Jan;18 (1):137-141. PMID: 28116026 <https://www.ncbi.nlm.nih.gov/pubmed/28116026>
- Hardeland C, Skåre C, Kramer-Johansen J, Birkenes TS, Myklebust H, Hansen AE, Sunde K, Olsveengen TM. Targeted simulation and education to improve cardiac arrest recognition and telephone assisted CPR in an emergency medical communication centre. *Resuscitation*. 2017 Feb 21;114:21-26. PMID: 28236428 <https://www.ncbi.nlm.nih.gov/pubmed/28236428>

Family Medicine:

- Pickering CE, Ridenour K, Salaysay Z, Reyes-Gastelum D, Pierce SJ. EATI Island - A virtual-reality-based elder abuse and neglect educational intervention. *Gerontol Geriatr Educ*. 2016 Jun 28:1-19. PubMed PMID: 27352224 <https://www.ncbi.nlm.nih.gov/pubmed/27352224>
- Evans AB, Hulme JM, Nugus P, Cranmer HH, Coutu M, Johnson K An Electronic Competency-Based Evaluation Tool for Assessing Humanitarian Competencies in a Simulated Exercise. *Prehosp Disaster Med*. 2017 Feb 21:1-8 <https://www.ncbi.nlm.nih.gov/pubmed/28219456>

General Surgery:

- Gardner AK, Steffes CP, Nepomnayshy D, Nicholas C, Widmann WD, Fitzgibbons SC, Dunkin BJ, Jones DB, Paige JT. Selection bias: examining the feasibility, utility, and participant receptivity to incorporating simulation into the general surgery residency selection process. *Am J Surg*. 2016 Sep 30. PubMed PMID: 28029374. <https://www.ncbi.nlm.nih.gov/pubmed/28029374>
- Hogg ME, Tam V, Zenati M, Novak S, Miller J, Zureikat AH, Zeh HJ 3rd: Mastery-Based Virtual Reality Robotic Simulation Curriculum: The First Step Toward Operative Robotic Proficiency. *J Surg Educ*. 2016 Nov 21. pii: S1931-7204(16)30265-3. doi: 10.1016/j.jsurg.2016.10.015. PMID: 27884677 <https://www.ncbi.nlm.nih.gov/pubmed/27884677>

Internal Medicine:

- Kwan B, Bui G, Jain P, Shah N, Juang D. Exploring Simulation in the Internal Medicine Clerkship. Clin Teach. 2016 Nov 25. PubMed PMID: 27885821.
<https://www.ncbi.nlm.nih.gov/pubmed/27885821>
- Kron FW, Fetters MD, Scerbo MW, White CB, Lybson ML, Padilla MA, Gliva-McConvey GA, Belfore LA 2nd, West T, Wallace AM, Guetterman TC, Schleicher LS, Kennedy RA, Mangrulkar RS, Cleary JF, Marsella SC, Becker DM. Using a computer simulation for teaching communication skills: A blinded multisite mixed methods randomized controlled trial. Patient Educ Couns. 2016 Oct 29. PubMed PMID: 27939846.
<https://www.ncbi.nlm.nih.gov/pubmed/27939846>

Neurology:

- Spiotta AM, Turner RD, Turk AS, Chaudry MI. The case for a milestone-based simulation curriculum in modern neuroendovascular training. J Neurointerv Surg. 2016 Apr;8(4):429-33. PubMed PMID: 25646131.
<https://www.ncbi.nlm.nih.gov/pubmed/25646131>
- McMillan HJ, Writer H, Moreau KA, Eady K, Sell E, Lobos AT, Grabowski J, Doja A. Lumbar puncture simulation in pediatric residency training: improving procedural competence and decreasing anxiety. BMC Med Educ. 2016 Aug 8; 16:198. PubMed PMID: 27502925; PubMed Central PMCID: PMC4977880.
<https://www.ncbi.nlm.nih.gov/pubmed/27502925>

Neurosurgery:

- Rehder R, Abd-El-Barr M, Hooten K, Weinstock P, Madsen JR, Cohen AR: The role of simulation in neurosurgery. Childs Nerv Syst. 2016 Jan;32(1):43-54. doi: 10.1007/s00381-015-2923-z. Epub 2015 Oct 5. Review. PMID: 26438547 <https://www.ncbi.nlm.nih.gov/pubmed/26438547>
- Javan R, Bansal M, Tangestanipoor A.: A Prototype Hybrid Gypsum-Based 3-Dimensional Printed Training Model for Computed Tomography-Guided Spinal Pain Management. J Comput Assist Tomogr. 2016 Jul-Aug; 40(4):626-31. PMID: 27434789
<https://www.ncbi.nlm.nih.gov/pubmed/27434789>

OBGYN:

- Adams J, Cepeda Brito JR, Baker L, Hughes PG, Gothard MD, McCarroll ML, Davis J, Silber A, Ahmed RA: Management of Maternal Cardiac Arrest in the Third Trimester of Pregnancy: A Simulation-Based Pilot Study. Crit Care Res Pract. 2016; 2016:5283765 PMID: 27555967
<https://www.ncbi.nlm.nih.gov/pubmed/27555967>
- Winkel AF, Gillespie C, Uquillas K, Zabar S, Szyld D. Assessment of Developmental Progress Using an Objective Structured Clinical Examination-Simulation Hybrid Examination for Obstetrics and Gynecology Residents. J Surg Educ. 2016 Mar-Apr; 73(2):230-7. PMID: 26868313
<https://www.ncbi.nlm.nih.gov/pubmed/26868313>

Ophthalmology:

- Thomsen AS, Smith P, Subhi Y, Cour M, Tang L, Saleh GM, Konge L. High correlation between performance on a virtual-reality simulator and real-life cataract surgery. Acta Ophthalmol. 2016 Sep 29. PubMed PMID: 27679989.

<https://www.ncbi.nlm.nih.gov/pubmed/27679989>

- Gonzalez-Gonzalez LA, Payal AR, Gonzalez-Monroy JE, Daly MK. Ophthalmic Surgical Simulation in Training Dexterity in Dominant and Nondominant Hands: Results From a Pilot Study. J Surg Educ. 2016 Jul-Aug; 73(4):699-708. PubMed PMID: 27017524.

<https://www.ncbi.nlm.nih.gov/pubmed/27017524>

Orthopedics:

- Martin KD, Akoh CC, Amendola A, Phisitkul P. : Iowa Orthop J. 2016;36:20-5. Comparison of Three Virtual Reality Arthroscopic Simulators as Part of an Orthopedic Residency Educational Curriculum. PMID: 27528830 <https://www.ncbi.nlm.nih.gov/pubmed/27528830>
- Waterman BR, Martin KD, Cameron KL, Owens BD, Belmont PJ Jr.: Simulation Training Improves Surgical Proficiency and Safety During Diagnostic Shoulder Arthroscopy Performed by Residents. Orthopedics. 2016 May 1;39(3):e479-85 PMID: 27135460

<https://www.ncbi.nlm.nih.gov/pubmed/27135460>

Pediatrics:

- Jaimovich D.: Simulation-Based Education in Critical Care: Does It Represent Real Life? Pediatr Crit Care Med. 2017 Feb;18 (2):199-200. PMID: 28157800

<https://www.ncbi.nlm.nih.gov/pubmed/28157800>

- Halamek LP. Simulation and debriefing in neonatology 2016: Mission incomplete. Semin Perinatol. 2016 Nov;40(7):489-493. PMID: 27810117

<https://www.ncbi.nlm.nih.gov/pubmed/27810117>

Radiology:

- Patel R, Dennick R. Simulation based teaching in interventional radiology training: is it effective? Clin Radiol. 2017 Mar; 72(3):266.e7-266.e14. PubMed PMID: 27986263.

<https://www.ncbi.nlm.nih.gov/pubmed/27986263>

- Picard M, Nelson R, Roebel J, Collins H, Anderson MB: Use of Low-Fidelity Simulation Laboratory Training for Teaching Radiology Residents CT-Guided Procedures. J Am Coll Radiol. 2016 Nov;13(11):1363-1368. Epub 2016 Jul 16.

<https://www.ncbi.nlm.nih.gov/pubmed/27435881>

Urology:

- Nathwani JN, Law KE, Witt AK, Ray RD, DiMarco SM, Pugh CM. A simulation-based, cognitive assessment of resident decision making during complex urinary catheterization scenarios. Am J Surg. 2017 Jan 7. pii: S0002-9610(17)30026-0. PMID: 28089342

<https://www.ncbi.nlm.nih.gov/pubmed/28089342>

- De Vries AH, Schout BM, van Merriënboer JJ, Pelger RC, Koldewijn EL, Muijtens AM, Wagner C. High educational impact of a national simulation-based urological curriculum including technical and non-technical skills. *Surg Endosc.* 2017 Feb;31(2):928-936. PMID: 27387182
<https://www.ncbi.nlm.nih.gov/pubmed/27387182>

Inter Professional Education IPE:

- Gilfoyle E, Koot DA, Annear JC, Bhanji F, Cheng A, Duff JP, Grant VJ, St George-Hyslop CE, Delaloye NJ, Kotsakis A, McCoy CD, Ramsay CE, Weiss MJ, Gottesman RD; Teams4Kids Investigators and the Canadian Critical Care Trials Group. Improved Clinical Performance and Teamwork of Pediatric Interprofessional Resuscitation Teams With a Simulation-Based Educational Intervention. *Pediatr Crit Care Med.* 2017 Feb;18(2):e62-e69. PMID: 28157808
<https://www.ncbi.nlm.nih.gov/pubmed/28157808>
- Palaganas JC, Brunette V, Winslow B. Prelicensure Simulation-Enhanced Interprofessional Education: A Critical Review of the Research Literature *Simul Healthc.* 2016 Dec;11(6):404-418. PMID: 27602706. <https://www.ncbi.nlm.nih.gov/pubmed/27602706>

Nursing:

- Abellsson A, Bisholt B. Nurse students learning acute care by simulation - Focus on observation and debriefing. *Nurse Educ Pract.* 2017 Mar 9; 24:6-13. PMID: 28314185
<https://www.ncbi.nlm.nih.gov/pubmed/28314185>
- Ravik M, Havnes A, Bjørk IT. Defining and comparing learning actions in two simulation modalities: students training on a latex arm and each other's arms. *J Clin Nurs.* 2017 Feb 2. PMID: 28152220 <https://www.ncbi.nlm.nih.gov/pubmed/28152220>

Pharmacy:

- Thompson Bastin ML, Cook AM, Flannery AH. Use of simulation training to prepare pharmacy residents for medical emergencies. *Am J Health Syst Pharm.* 2017 Mar 15; 74(6):424-429. PMID: 28274986 <https://www.ncbi.nlm.nih.gov/pubmed/28274986>
- Mattsson S, Sjöström HE, Englund C. Using a Virtual Tablet Machine to Improve Student Understanding of the Complex Processes Involved in Tablet Manufacturing. *Am J Pharm Educ.* 2016 Jun 25; 80(5):87. doi: 10.5688/ajpe80587. PMID: 27402990
<https://www.ncbi.nlm.nih.gov/pubmed/27402990>