

Recent publications in Simulation Based Education, September-October 2017

Simulation in Anesthesiology

- Breymier, T., & Rutherford-Hemming, T. (in press). Use of high-fidelity simulation to increase knowledge and skills in caring for patients receiving blood products. *Critical Care Nursing Clinics of North America*. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0899588517300369>
- Hunter, S., Katz, D., Goldberg, A., Lin, H. M., Pasricha, R., Benesh, G., et al. (2017). Use of an anaesthesia workstation barrier device to decrease contamination in a simulated operating room. *British Journal of Anaesthesia*, 118(6), 870-875. [htt](http://dx.doi.org/10.1093/bja/aex100)
- Ritt, R. M., Bennett, J. D., Todd, T. W. (2017). Simulation training for the office-based anesthesia team. *Oral and Maxillofacial Surgery Clinics*, 29(2), 169-178. Retrieved from https://www.clinicalkey.com/service/content/pdf/watermarked/1-s2.0-S104236991630139X.pdf?locale=en_US

Simulation in Cardiology

- Brunette, V., & Thibodeau-Jarry, N. (2017). Simulation as a tool to ensure competency and quality of care in the cardiac critical care unit. *Canadian Journal of Cardiology*, 33(1), 119-127. Retrieved from [http://www.onlinecjc.ca/article/S0828-282X\(16\)31024-8/fulltext](http://www.onlinecjc.ca/article/S0828-282X(16)31024-8/fulltext)
- Dagey, D. (2017). Using simulation to implement an OR cardiac arrest crisis checklist. *AORN Journal*, 105(1), 67-72. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0001209216308407?via%3Dihub>
- Harrison, C. M., & Gosai, J. N. (2017). Simulation-based training for cardiology procedures: Are we any further forward in evidencing real-world benefits? *Trends in Cardiovascular Medicine*, 27(3), 163-170. Retrieved from [http://www.tcmonline.org/article/S1050-1738\(16\)30129-3/fulltext](http://www.tcmonline.org/article/S1050-1738(16)30129-3/fulltext)
- Kagaya, Y., Tabata, M., Arata, Y., Kameoka, J., & Ishii, S. (2017). Variation in effectiveness of a cardiac auscultation training class with a cardiology patient simulator among heart sounds and murmurs. *Journal of Cardiology*, 70(2), 192-198. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0914508716302787>

Simulation in Emergency medicine

- Addison, R., Skinner, T., Zhou, F., & Parsons, M. (2017). Diabetic ketoacidosis: An emergency medicine simulation scenario. *Cureus*, 9(5), e1286. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5491337/>
- Meischke, H., Painter, I. S., Stangenes, S. R., Weaver, M. R., Fahrenbruch, C. E., Rea, T., et al. (2017). Simulation training to improve 9-1-1 dispatcher identification of cardiac arrest: A randomized controlled trial. *Resuscitation*. Advance online publication. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0300957217303064>
- Russell, E., Hall, A. K., Hagel, C., Petrosioniak, A., Dagnone, J. D., & Howes, D. (2017). Simulation in Canadian postgraduate emergency medicine training - a national survey. *Cjem*, 1-10. Retrieved from <https://www.cambridge.org/core/journals/canadian-journal-of-emergency-medicine/article/simulation-in-canadian-postgraduate-emergency-medicine-training-a-national-survey/886920C96BF99F49D7E4DF32462BEBF2/core-reader>

Simulation in Family medicine

- Nitsche, J. F., Fino, N. F., Palomo, J. M., Perdomo, A. P., & Brost, B. C. (2017). Effectiveness of a labor cervical exam model in family medicine and OB-GYN residents. *Family Medicine*, 49(5), 384-387. Retrieved from <http://www.stfm.org/FamilyMedicine/Vol49Issue5/Nitsche384>
- Noel, K., Archibald, D., & Brailovsky, C. (2017). Practice simulated office orals as a predictor of certification examination performance in family medicine. *Canadian Family Physician*, 63(4), 299-305. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5389764/>

Simulation in IPE Inter professional Education

- Dennis, D., Furness, A., Duggan, R., & Critchett, S. (2017). An interprofessional simulation-based learning activity for nursing and physiotherapy students. *Clinical Simulation in Nursing*, 13(10), 501-510. Retrieved from [http://www.nursingsimulation.org/article/S1876-1399\(16\)30233-X/fulltext](http://www.nursingsimulation.org/article/S1876-1399(16)30233-X/fulltext)
- Jacobs, R., Beyer, E., & Carter, K. (2017). Interprofessional simulation education designed to teach occupational therapy and nursing students complex patient transfers. *Journal of Interprofessional Education & Practice*, 6, 67-70. Retrieved from <http://www.sciencedirect.com/science/article/pii/S2405452616300532>
- Reising, D. L., Carr, D. E., Gindling, S., Barnes, R., Garletts, D., & Ozdogan, Z. (2017). An analysis of interprofessional communication and teamwork skill acquisition in simulation. *Journal of Interprofessional Education & Practice*, 8, 80-85. Retrieved from [http://www.jieponline.com/article/S2405-4526\(16\)30171-9/fulltext](http://www.jieponline.com/article/S2405-4526(16)30171-9/fulltext)
- Sorensen, J. L., Ostergaard, D., LeBlanc, V., Ottesen, B., Konge, L., Dieckmann, P., & Van der Vleuten, C. (2017). Design of simulation-based medical education and advantages and disadvantages of in situ simulation versus off-site simulation. *BMC Medical Education*, 17(1), 20. Retrieved from <https://bmcmmededuc.biomedcentral.com/articles/10.1186/s12909-016-0838-3>
- Wilcox, J., Miller-Cribbs, J., Kientz, E., Carlson, J., & DeShea, L. (2017). Impact of simulation on student attitudes about interprofessional collaboration. *Clinical Simulation in Nursing*, 13(8), 390-397. Retrieved from [http://www.nursingsimulation.org/article/S1876-1399\(16\)30199-2/fulltext](http://www.nursingsimulation.org/article/S1876-1399(16)30199-2/fulltext)

Simulation in Nursing

- Boling, B., Hardin-Pierce, M., Jensen, L., & Hassan, Z. (2017). Implementing simulation training for new cardiothoracic intensive care unit nurses. *Clinical Simulation in Nursing*, 13(1), 33-38.e12. doi: 10.1016/j.ecns.2016.09.001
- Greenawalt, J. A., O'Harra, P., & Little, E. (2017). Undergraduate nursing students' ability to apply ethics in simulated cases. *Clinical Simulation in Nursing*, 13(8), 359-379. doi: 10.1016/j.ecns.2017.04.007
- Ignacio, J., Scherpbier, A., Dolmans, D., Rethans, J., & Liaw, S. Y. (2017). Mental rehearsal strategy for stress management and performance in simulations. *Clinical Simulation in Nursing*, 13(7), 295-302. doi: 10.1016/j.ecns.2017.04.005
- McRae, M. E., Chan, A., Hulett, R., Lee, A. J., & Coleman, B. (2017). The effectiveness of and satisfaction with high-fidelity simulation to teach cardiac surgical resuscitation skills to nurses. *Intensive and Critical Care Nursing*, 40, 64-69. doi: 10.1016/j.iccn.2016.11.001

- Vermeulen, J., Beeckman, K., Turcksin, R., Van Winkel, L., Gucciardo, L., Laubach, M., et al. (2017). The experiences of last-year student midwives with high-fidelity perinatal simulation training: A qualitative descriptive study. *Women and Birth : Journal of the Australian College of Midwives*, 30(3), 253-261. Retrieved from <http://www.sciencedirect.com/science/article/pii/S1871519217300884?via%3Dihub>

Simulation in OBGYN

- Heitmann, R. J., Hill, M. J., Csokmay, J. M., Pilgrim, J., DeCherney, A. H., & Deering, S. (2017). Embryo transfer simulation improves pregnancy rates and decreases time to proficiency in reproductive endocrinology and infertility fellow embryo transfers. *Fertility and Sterility*, 107(5), 1166-1172.e1. Retrieved from <https://www.clinicalkey.com/#!/content/playContent/1-s2.0-S0015028217300596?returnurl=null&referrer=null>
- Hugon-Rodin, J., Sonigo, C., Drummond, D., Grynberg, M., Rodin, T., Plu-Bureau, G., et al. (2017). Apprentissage de l'examen gynécologique sur simulateur : Impact sur le ressenti des étudiants en médecine. *Gynecologie Obstetrique Fertility & Senologie*, 45(5), 291-298. Retrieved from <http://www.sciencedirect.com/science/article/pii/S2468718917300922?via%3Dihub>
- Katz, A., Tepper, R., & Shtub, A. (2017). Simulation training: Evaluating the instructor's contribution to a wizard of oz simulator in obstetrics and gynecology ultrasound training. *JMIR Medical Education*, 3(1), e8. Retrieved from <http://mededu.jmir.org/2017/1/e8/>
- Rosen, H., Windrim, R., Lee, Y. M., Gotha, L., Perelman, V., & Ronzoni, S. (2017). Simulator based obstetric ultrasound training: A prospective, randomized single-blinded study. *Journal of Obstetrics and Gynaecology Canada*, 39(3), 166-173. Retrieved from <http://www.sciencedirect.com/science/article/pii/S1701216316394804?via%3Dihub>
- Wohlrab, K., Jelovsek, J. E., & Myers, D. (2017). Incorporating simulation into gynecologic surgical training. *American Journal of Obstetrics and Gynecology*. Advance online publication. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0002937817306257>

Simulation in Orthopedics

- Çetinkaya, E., Çift, H., Aybar, A., Erçin, E., Güler, G. B., & Poyanlı, O. (2017). The timing and importance of motor skills course in knee arthroscopy training. *Acta Orthopaedica et Traumatologica Turcica*. Advance online publication. Retrieved from <http://www.sciencedirect.com/science/article/pii/S1017995X16303467?via%3Dihub>
- Seeley, M. A., Fabricant, P. D., & Lawrence, J. T. R. (2017). Teaching the basics: Development and validation of a distal radius reduction and casting model. *Clinical Orthopaedics and Related Research*, 475(9), 2298-2305. Retrieved from <https://link.springer.com/article/10.1007%2Fs11999-017-5336-3>
- Govil, N., DeMayo, W. M., Hirsch, B. E., & McCall, A. A. (2017). Optimizing positioning for in-office otology procedures. *Otolaryngology--Head and Neck Surgery: Official Journal of American Academy of Otolaryngology-Head and Neck Surgery*, 156(1), 156-160. Retrieved from http://journals.sagepub.com/doi/abs/10.1177/0194599816670137?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%3dpubmed
- Lin, Y., Chen, H., Yu, D., Zhang, Y., & Yuan, W. (2017). A predictive bone drilling force model for haptic rendering with experimental validation using fresh cadaveric bone.

International Journal of Computer Assisted Radiology and Surgery, 12(1), 91-98.
Retrieved from <https://link.springer.com/article/10.1007%2Fs11548-016-1463-7>

- Bae, D. S., & Waters, P. M. (2016). Pediatric orthopedic surgical simulation at Boston children's hospital. *Journal of Pediatric Orthopedics.Part B*, 25(4), 292-295. Retrieved from <https://insights.ovid.com/pubmed?pmid=27058820>

Simulation in Pharmacy

- Byrne, G. A., Wood, P. J., & Spark, M. J. (2017). Non-prescription supply of combination analgesics containing codeine in community pharmacy: A simulated patient study. *Research in Social & Administrative Pharmacy*. Advance online publication. Retrieved from <http://www.sciencedirect.com/science/article/pii/S1551741116303813?via%3Dihub>
- Serag-Bolos, E. S., Miranda, A. C., Gelot, S. R., Dharia, S. P., & Shaer, K. M. (2017). Assessing students' knowledge regarding the roles and responsibilities of a pharmacist with focus on care transitions through simulation. *Currents in Pharmacy Teaching and Learning*, 9(4), 616-625. doi: 10.1016/j.cptl.2017.03.020
- Thompson Bastin, M. L., Cook, A. M., & Flannery, A. H. (2017). Use of simulation training to prepare pharmacy residents for medical emergencies. *American Journal of Health-System Pharmacy*, 74(6), 424-429. Retrieved from <http://web.a.ebscohost.com/ehost/detail/detail?vid=2&sid=b6451024-68ae-44f8-9daa-3a74e86752c8%40sessionmgr4010&bdata=JnNpdGU9ZWlhvc3QtbGl2ZQ%3d%3d#AN=121668922&db=rzh>

Simulation in Radiology

- Elshami, W., & Abuzaid, M. (2017). Transforming magnetic resonance imaging education through simulation-based training. *Journal of Medical Imaging and Radiation Sciences*, 48(2), 151-158. doi: 10.1016/j.jmir.2017.01.002
- Patel, R., & Dennick, R. (2017). Simulation based teaching in interventional radiology training: Is it effective? *Clinical Radiology*, 72(3), 266. doi: 10.1016/j.crad.2016.10.014

Simulation in Surgery

- Juo, Y., Quach, C., Hiatt, J., Hines, O. J., Tillou, A., & Burruss, S. (in press). Comparative analysis of simulated versus live patient-based FAST (focused assessment with sonography for trauma) training. *Journal of Surgical Education*. doi: 10.1016/j.jsurg.2017.04.001
- del Blanco, Á., Torrente, J., Fernández-Manjón, B., Ruiz, P., & Giner, M. (2017). Using a videogame to facilitate nursing and medical students' first visit to the operating theatre. A randomized controlled trial. *Nurse Education Today*, 55, 45-53. doi: 10.1016/j.nedt.2017.04.026
- Doumouras, A. G., Hamidi, M., Lung, K., Tarola, C. L., Tsao, M. W., Scott, J. W., et al. (2017). Non-technical skills of surgeons and anaesthetists in simulated operating theatre crises. *The British Journal of Surgery*, 104(8), 1028-1036. doi: 10.1002/bjs.10526
- Gosling, A. F., Kendrick, D. E., Kim, A. H., Nagavalli, A., Kimball, E. S., Liu, N. T., et al. (2017). Simulation of carotid artery stenting reduces training procedure and fluoroscopy times. *Journal of Vascular Surgery*, 66(1), 298-306. doi: 10.1016/j.jvs.2016.11.066
- Jukes, A. K., Mascarenhas, A., Murphy, J., Stepan, L., Munoz, T. N., Callejas, C. A., et al. (2017). Stress response and communication in surgeons undergoing training in endoscopic

management of major vessel hemorrhage: A mixed methods study. *International Forum of Allergy & Rhinology*, 7(6), 576-583. doi: 10.1002/alr.21941

- Kazan, R., Cyr, S., Hemmerling, T. M., Lin, S. J., & Gilardino, M. S. (2017). The evolution of surgical simulation: The current state and future avenues for plastic surgery education. *Plastic and Reconstructive Surgery*, 139(2), 533e-543e. doi: 10.1097/PRS.0000000000002956
- Krahenbuhl, S. M., Cvancara, P., Stieglitz, T., Bonvin, R., Michetti, M., Flahaut, M., et al. (2017). Return of the cadaver: Key role of anatomic dissection for plastic surgery resident training. *Medicine*, 96(29), e7528. doi: 10.1097/MD.00000000000007528
- Lee, G. I., & Lee, M. R. (2017). Can a virtual reality surgical simulation training provide a self-driven and mentor-free skills learning? Investigation of the practical influence of the performance metrics from the virtual reality robotic surgery simulator on the skill learning and associated cognitive workloads. *Surgical Endoscopy*. Advance online publication. doi: 10.1007/s00464-017-5634-6
- Lui, J. T., & Hoy, M. Y. (2017). Evaluating the effect of virtual reality temporal bone simulation on mastoidectomy performance: A meta-analysis. *Otolaryngology--Head and Neck Surgery: Official Journal of American Academy of Otolaryngology-Head and Neck Surgery*, 156(6), 1018-1024. Retrieved from http://journals.sagepub.com/doi/abs/10.1177/0194599817698440?url_ver=Z39.88-2003&rft_id=ori:rid:crossref.org&rft_dat=cr_pub%3dpubmed
- Masud, D., Haram, N., Moustaki, M., Chow, W., Saour, S., & Mohanna, P. N. (2017). Microsurgery simulation training system and set up: An essential system to complement every training programme. *Journal of Plastic, Reconstructive & Aesthetic Surgery: JPRAS*, 70(7), 893-900. doi: 10.1016/j.bjps.2017.03.009
- Morgan, M., Aydin, A., Salih, A., Robati, S., & Ahmed, K. (2017). Current status of simulation-based training tools in orthopedic surgery: A systematic review. *Journal of Surgical Education*, 74(4), 698-716. doi: 10.1016/j.jsurg.2017.01.005
- Paro, J. A. M., Luan, A., & Lee, G. K. (2017). Validation of a cognitive task simulation and rehearsal tool for open carpal tunnel release. *Archives of Plastic Surgery*, 44(3), 223-227. doi: 10.5999/aps.2017.44.3.223
- Raison, N., Ahmed, K., Fossati, N., Buffi, N., Mottrie, A., Dasgupta, P., et al. (2017). Competency based training in robotic surgery: Benchmark scores for virtual reality robotic simulation. *BJU International*, 119(5), 804-811. Retrieved from <http://onlinelibrary.wiley.com/doi/10.1111/bju.13710/full>
- Sakata, S., Grove, P. M., Hill, A., Watson, M. O., & Stevenson, A. R. L. (2017). Impact of simulated three-dimensional perception on precision of depth judgements, technical performance and perceived workload in laparoscopy. *The British Journal of Surgery*, 104(8), 1097-1106. doi: 10.1002/bjs.10528
- Sheikh, Z. (2017). Increased working hours, simulation technology or competency based progression? What is the solution for surgical training? *Surgery (Oxford)*. Advance online publication. doi: 10.1016/j.mpsur.2017.05.008
- Shen, Z., Yang, F., Gao, P., Zeng, L., Jiang, G., Wang, S., .. Zhu, F. (2017). A novel clinical-simulated suture education for basic surgical skill: Suture on the biological tissue fixed on standardized patient evaluated with objective structured assessment of technical skill (OSATS) tools. *Journal of Investigative Surgery*. Advance online publication. doi: 10.1080/08941939.2017.1319994
- Wohlrab, K., Jelovsek, J. E., & Myers, D. (2017). Incorporating simulation into gynecologic surgical training. *American Journal of Obstetrics and Gynecology*. Advance online publication. doi: 10.1016/j.ajog.2017.05.017

Simulation in Urology

- de Vries, A. H., Schout, B. M., van Merrienboer, J. J., Pelger, R. C., Koldewijn, E. L., Muijtjens, A. M., et al. (2017). High educational impact of a national simulation-based urological curriculum including technical and non-technical skills. *Surgical Endoscopy*, 31(2), 928-936. Retrieved from <https://link.springer.com/article/10.1007%2Fs00464-016-5060-1>
- Nayahangan, L. J., Bolling Hansen, R., Gilboe Lindorff-Larsen, K., Paltved, C., Nielsen, B. U., & Konge, L. (2017, July 26). Identifying content for simulation-based curricula in urology: A national needs assessment. *Scandinavian Journal of Urology*, 1-7. Retrieved from <http://www.tandfonline.com/doi/full/10.1080/21681805.2017.1352618>
- Noureldin, Y. A., & Andonian, S. (2017). Simulation for percutaneous renal access: Where are we? *Journal of Endourology*, 31(S1), S10-S19. Retrieved from <http://online.liebertpub.com/doi/10.1089/end.2016.0587>