

References

- Akkus, Z., Cai, J., Boonrod, A., Zeinoddini, A., Weston, A. D., Philbrick, K. A., & Erickson, B. J. (2019). A survey of deep-learning applications in ultrasound: Artificial intelligence-powered ultrasound for improving clinical workflow. *Journal of the American College of Radiology*, *16*(9 Pt B), 1318-1328. <https://doi.org/10.1016/j.jacr.2019.06.004>
- American Association of Colleges of Nursing. (2004). AACN position statement on the practice doctorate in nursing. <https://www.aacnnursing.org/Portals/0/PDFs/Position-Statements/DNP.pdf>
- American Association of Colleges of Nursing. (2006). The essentials of doctoral education for advanced nursing practice. <https://www.aacnnursing.org/Portals/42/Publications/DNPEssentials.pdf>
- American Association of Nurse Anesthesiology. (2020). *Scope of nurse anesthesia practice*. Retrieved February 4, 2024, from <https://www.aana.com/wp-content/uploads/2023/01/scope-of-nurse-anesthesia-practice.pdf>
- American Association of Nurse Anesthesiology. (2023). Point-of-care ultrasound in anesthesia care [Practice Considerations]. *AANA Practice Manual*. https://issuu.com/aanapublishing/docs/11_-_point-of-care_ultrasound_in_anesthesia_care?fr=sOWI1MjU2NDAxMjU
- Arzola, C., Carvalho, J. C. A., Cubillos, J., Ye, X. Y., & Perlas, A. (2013). Anesthesiologists' learning curves for bedside qualitative ultrasound assessment of gastric content: A cohort study. *Canadian journal of anaesthesia/Canadian journal of anesthesia*, *60*(8), 771-779. <https://doi.org/10.1007/s12630-013-9974-y>
- Baethge, C., Goldbeck-Wood, S., & Mertens, S. (2019). SANRA - A scale for the quality assessment of narrative review articles. *Research Integrity and Peer Review*, *4*, Article 5. <https://doi.org/10.1186/s41073-019-0064-8>

- Baettig, S. J., Filipovic, M. G., Hebeisen, M., Meierhans, R., & Ganter, M. T. (2023). Pre-operative gastric ultrasound in patients at risk of pulmonary aspiration: A prospective observational cohort study. *Anaesthesia*, 78(11), 1327-1337. <https://doi.org/10.1111/anae.16117>
- Baldawi, M., Ghaleb, N., McKelvey, G., Ismaeil, Y. M., & Saasouh, W. (2024). Preoperative ultrasound assessment of gastric content in patients with diabetes: A meta-analysis based on a systematic review of the current literature. *J Clin Anesth*, 93, 111365. <https://doi.org/10.1016/j.jclinane.2023.111365>
- Birenbaum, A., Hajage, D., Roche, S., Ntoub, A., Eurin, M., Cuvillon, P., Rohn, A., Compere, V., Benhamou, D., Biais, M., Menut, R., Benachi, S., Lenfant, F., Riou, B., & Group, f. t. I. I. (2019). Effect of cricoid pressure compared with a sham procedure in the rapid sequence induction of anesthesia: The iris randomized clinical trial. *JAMA Surgery*, 154(1), 9-17. <https://doi.org/10.1001/jamasurg.2018.3577>
- Bronshteyn, Y. S., Anderson, T. A., Badakhsh, O., Boublik, J., Brady, M. B. W., Charnin, J. E., Coker, B. J., Deriy, L. B., Hardman, H. D., Haskins, S. C., Hollon, M., Hsia, H. J., Neelankavil, J. P., Panzer, O. P. F., Perlas, A., Ramsingh, D., Sharma, A., Shore-Lesserson, L. J., & Zimmerman, J. M. (2022). Diagnostic point-of-care ultrasound: Recommendations from an expert panel. *Journal of Cardiothorac and Vascular Anesthesia*, 36(1), 22-29. <https://doi.org/10.1053/j.jvca.2021.04.016>
- Bronshteyn, Y. S., Blitz, J., Hashmi, N., & Krishnan, S. (2022). Logistics of perioperative diagnostic point-of-care ultrasound: Nomenclature, scope of practice, training, credentialing/privileging, and billing. *International Anesthesiology Clinics*, 60(3), 1-7. <https://doi.org/10.1097/AIA.0000000000000369>
- DePhilip, R. M., & Quinn, M. M. (2022). Adaptation of an anatomy graduate course in ultrasound imaging from in-person to live, remote instruction during the COVID-19 pandemic. *Anatomical Sciences Education*, 15(3), 493-507. <https://doi.org/10.1002/ase.2177>

- Edwards, C., Chamunyonga, C., Searle, B., & Reddan, T. (2022). The application of artificial intelligence in the sonography profession: Professional and educational considerations. *Ultrasound, 30*(4), 273-282. <https://doi.org/10.1177/1742271x211072473>
- Eisler, L., Huang, G., Lee, K. M., Busse, J. A., Sun, M., Lin, A. Y., Sun, L. S., & Ing, C. (2018). Identification of perioperative pulmonary aspiration in children using quality assurance and hospital administrative billing data. *Paediatric Anaesthesia, 28*(3), 218-225. <https://doi.org/10.1111/pan.13319>
- El-Boghdadly, K., Wojcikiewicz, T., & Perlas, A. (2019). Perioperative point-of-care gastric ultrasound. *BJA Education, 19*(7), 219-226. <https://doi.org/10.1016/j.bjae.2019.03.003>
- Flynn, D. N., Doyal, A., & Schoenherr, J. W. (2023). Gastric ultrasound. In *Statpearls*. StatPearls Publishing. Retrieved October 24, 2023, from <https://www.ncbi.nlm.nih.gov/books/NBK580524/?report=classic>.
- Gastricultrasound.org. *Image acquisition*. Retrieved November 7, 2023, from <https://www.gastricultrasound.org/en/acquisition/#volume>
- Haskins, S. C., Bronshteyn, Y., Perlas, A., El-Boghdadly, K., Zimmerman, J., Silva, M., Boretsky, K., Chan, V., Kruisselbrink, R., Byrne, M., Hernandez, N., Boublik, J., Manson, W. C., Hogg, R., Wilkinson, J. N., Kalagara, H., Nejm, J., Ramsingh, D., Shankar, H., . . . Narouze, S. (2021). American Society of Regional Anesthesia and Pain Medicine expert panel recommendations on point-of-care ultrasound education and training for regional anesthesiologists and pain physicians - Part II: Recommendations. *Regional Anesthesia and Pain Medicine, 46*(12), 1048-1060. <https://doi.org/10.1136/rapm-2021-102561>
- Jehangir, A., & Parkman, H. P. (2017). Chronic opioids in gastroparesis: Relationship with gastrointestinal symptoms, healthcare utilization and employment. *World Journal of Gastroenterology, 23*(40), 7310-7320. <https://doi.org/10.3748/wjg.v23.i40.7310>

Joanna Briggs Institute. (n.d.). *Critical appraisal tools*. Retrieved October 15, 2023, from

<https://jbi.global/critical-appraisal-tools>

Joshi, G. P. (2024). Anesthetic considerations in adult patients on glucagon-like peptide-1 receptor agonists: Gastrointestinal focus. *Anesthesia & Analgesia*, *138*(1), 216-220. <https://doi.org/doi:10.1213/ANE.0000000000006810>

Joshi, G. P., Abdelmalak, B. B., Weigel, W. A., Soriano, S. G., Harbell, M. W., Kuo, C. I., Stricker, P. A., & Domino, K. B. (2023, June 29). *American society of anesthesiologists consensus-based guidance on preoperative management of patients (adults and children) on glucagon-like peptide-1 (glp-1) receptor agonists*. American Society of Anesthesiologists. <https://www.asahq.org/about-asa/newsroom/news-releases/2023/06/american-society-of-anesthesiologists-consensus-based-guidance-on-preoperative>

Kalagara, H., Coker, B., Gerstein, N. S., Kukreja, P., Deriy, L., Pierce, A., & Townsley, M. M. (2022). Point-of-care ultrasound (POCUS) for the cardiothoracic anesthesiologist. *Journal of Cardiothorac and Vascular Anesthesia*, *36*(4), 1132-1147. <https://doi.org/10.1053/j.jvca.2021.01.018>

Kim, Y. H. (2021). Artificial intelligence in medical ultrasonography: Driving on an unpaved road. *Ultrasonography*, *40*(3), 313-317. <https://doi.org/10.14366/usg.21031>

Knudsen, L., Nawrotzki, R., Schmiedl, A., Mühlfeld, C., Kruschinski, C., & Ochs, M. (2018). Hands-on or no hands-on training in ultrasound imaging: A randomized trial to evaluate learning outcomes and speed of recall of topographic anatomy. *Anatomical Sciences Education*, *11*(6), 575-591. <https://doi.org/10.1002/ase.1792>

Leidl, D. M., Ritchie, L., & Moslemi, N. (2020). Blended learning in undergraduate nursing education – a scoping review. *Nurse Education Today*, *86*, 104318. <https://doi.org/https://doi.org/10.1016/j.nedt.2019.104318>

Lewin, K. (1951). *Field theory in social science: Selected theoretical papers* (D. Cartwright, Ed.). Harper & Row.

Mahmood, F., Matyal, R., Skubas, N., Montealegre-Gallegos, M., Swaminathan, M., Denault, A., Sniecinski, R., Mitchell, J. D., Taylor, M., Haskins, S., Shahul, S., Oren-Grinberg, A., Wouters, P., Shook, D., & Reeves, S. T. (2016). Perioperative ultrasound training in anesthesiology: A call to action. *Anesthesia and analgesia*, 122(6), 1794-1804.

<https://doi.org/10.1213/ANE.0000000000001134>

Meineri, M., Arellano, R., Bryson, G., Arzola, C., Chen, R., Collins, P., Denault, A., Desjardins, G., Fayad, A., Funk, D., Hegazy, A. F., Kim, H., Kruger, M., Kruisselbrink, R., Perlas, A., Prabhakar, C., Syed, S., Sidhu, S., Tanzola, R., . . . Bainbridge, D. (2021). Canadian recommendations for training and performance in basic perioperative point-of-care ultrasound: Recommendations from a consensus of Canadian anesthesiology academic centres. *Canadian Journal of Anesthesia/Journal canadien d'anesthésie*, 68(3), 376-386. <https://doi.org/10.1007/s12630-020-01867-2>

Meineri, M., Bryson, G. L., Arellano, R., & Skubas, N. (2018). Core point-of-care ultrasound curriculum: What does every anesthesiologist need to know? *Canadian Journal of Anaesthesia*, 65(4), 417-426. <https://doi.org/10.1007/s12630-018-1063-9>

Meleis, A. I. (2018). *Theoretical nursing : Development and progress* (6th ed.). Wolters Kluwer. <https://search.library.wisc.edu/catalog/9910104561702121>

National Heart, Lung, and Blood Institute. (n.d.). *Study quality assessment tools*. Retrieved October 15, 2023, from <https://www.nhlbi.nih.gov/health-topics/study-quality-assessment-tools>

Perlas, A., Van de Putte, P., Van Houwe, P., & Chan, V. W. (2016). I-AIM framework for point-of-care gastric ultrasound. *British Journal of Anaesthesia*, 116(1), 7-11.

<https://doi.org/10.1093/bja/aev113>

- Remskar, M. H., Theophanous, R., Bowman, A., Simonson, L. E., Koehler, J., Basrai, Z., Manohar, C. M., Mader, M. J., Nathanson, R., & Soni, N. J. (2023). Current use, training, and barriers of point-of-care ultrasound in anesthesiology: A national survey of Veterans Affairs hospitals. *Journal of Cardiothoracic and Vascular Anesthesia*, *37*(8), 1390-1396.
<https://doi.org/10.1053/j.jvca.2023.03.042>
- Rocha, C. A. T. D., Kamada, L. M. K., Andrade Filho, P. H. D., Villaverde, I. A., Shiro, J. Y. B., & Silva Junior, J. M. D. (2020). Ultrasonographic evaluation of gastric content and volume: A systematic review. *Revista da Associação Médica Brasileira*, *66*(12), 1725-1730. <https://doi.org/10.1590/1806-9282.66.12.1725>
- Schroeder, K. (2024). *Assessing anesthesia provider competence in point-of-care ultrasound for gastric content assessment*. University at Buffalo, School of Nursing.
- Sen, S., Potnuru, P. P., Hernandez, N., Goehl, C., Praestholm, C., Sridhar, S., & Nwokolo, O. O. (2024). Glucagon-like peptide-1 receptor agonist use and residual gastric content before anesthesia. *JAMA Surg*, *159*(6), 660-667. <https://doi.org/10.1001/jamasurg.2024.0111>
- Shirey, M. R. (2013). Lewin's theory of planned change as a strategic resource. *The Journal of Nursing Administration*, *43*(2), 69-72. <https://www-jstor-org.gate.lib.buffalo.edu/stable/26811543>
- Silveira, S. Q., da Silva, L. M., de Campos Vieira Abib, A., de Moura, D. T. H., de Moura, E. G. H., Santos, L. B., Ho, A. M. H., Nersessian, R. S. F., Lima, F. L. M., Silva, M. V., & Mizubuti, G. B. (2023). Relationship between perioperative semaglutide use and residual gastric content: A retrospective analysis of patients undergoing elective upper endoscopy. *Journal of Clinical Anesthesia*, *87*, 111091. <https://doi.org/https://doi.org/10.1016/j.jclinane.2023.111091>
- Tankul, R., Halilamien, P., Tangwiwat, S., Dejarkom, S., & Pangthipapai, P. (2022). Qualitative and quantitative gastric ultrasound assessment in highly skilled regional anesthesiologists. *BMC Anesthesiology*, *22*(1), 5. <https://doi.org/10.1186/s12871-021-01550-z>

- Thiese, M. S. (2014). Observational and interventional study design types; an overview. *Biochem Med (Zagreb)*, 24(2), 199-210. <https://doi.org/10.11613/bm.2014.022>
- Van De Putte, P. (2019). *Point-of-care gastric ultrasound: An aspiration risk assessment tool*. [Doctoral dissertation, Radboud Universiteit Nijmegen]. Radboud Repository. <https://hdl.handle.net/2066/202624>
- Van De Putte, P., & Perlas, A. (2014). Ultrasound assessment of gastric content and volume. *British Journal of Anaesthesia*, 113(1), 12-22. <https://doi.org/10.1093/bja/aeu151>
- Wali, A., & Munnur, U. (2013). Chapter 35 - the patient with a full stomach. In C. A. Hagberg (Ed.), *Benumof and hagberg's airway management (third edition)* (pp. 705-722). W.B. Saunders. <https://doi.org/https://doi.org/10.1016/B978-1-4377-2764-7.00035-X>
- Wong, J., Montague, S., Wallace, P., Negishi, K., Liteplo, A., Ringrose, J., Dversdal, R., Buchanan, B., Desy, J., & Ma, I. W. Y. (2020). Barriers to learning and using point-of-care ultrasound: A survey of practicing internists in six North American institutions. *The Ultrasound Journal*, 12(1), 19. <https://doi.org/10.1186/s13089-020-00167-6>
- Wu, C.-P., Chen, Y.-w., Wang, M.-J., & Pinelis, E. (2017). National trends in admission for aspiration pneumonia in the United States, 2002–2012. *Annals of the American Thoracic Society*, 14(6), 874-879. <https://doi.org/10.1513/AnnalsATS.201611-867OC>