

## DAFTAR PUSTAKA

- Abdullah, N. H. I., Phon, D. N. E., Zulkifli, N. S. A., & Razak, M. F. A. (2025). Reviewing Trends and the Impact of Immersive Virtual Reality on Education: A Bibliometric Study. *International Journal on Informatics Visualization*, 9(6), 2711–2721. <https://doi.org/10.62527/joiv.9.6.3278>
- Al Hamad, K. Q., Said, K. N., Engelschalk, M., Matoug-Elwerfelli, M., Gupta, N., Eric, J., Ali, S. A., Ali, K., Daas, H., & Alhajja, E. S. A. (2024). Taxonomic discordance of immersive realities in dentistry: A systematic scoping review. *Journal of Dentistry*, 146, 105058. <https://doi.org/10.17605/OSF.IO/H6N8M>
- Alqutaibi, A. Y., Hamadallah, H. H., Oqbi, H. F., Almuzaini, S. A., & Borzangy, S. (2024). Current applications and future perspective of virtual reality in dental education and practice in Saudi Arabia: A scoping review. *Saudi Dental Journal*. <https://doi.org/10.1016/j.sdentj.2024.09.007>
- Alvarenga, A. F., Picinini, L., Ferreira, A., & de Oliveira, R. (2020). Tooth Extraction: A Systematic Revision. *J Dental Sci*, 5(2), 1. <https://doi.org/10.23880/oajds-16000248>
- Asoodar, M., Janesarvatan, F., Yu, H., & de Jong, N. (2024). Theoretical Foundations and Implications of Augmented Reality, Virtual Reality, and Mixed Reality for Immersive Learning in Health Professions Education. *Advances in Simulation*, 9(36), 1–19. <https://doi.org/10.1186/s41077-024-00311-5>
- Assiry, M., Aloqbi, M., Albrahim, H., Alnabulsi, A., Alim, H., Ghamdi, M., & Bassyoni, L. (2023). Prevalence and Management of Post-Extraction Complications. *Journal of Complementary Medicine Research*, 14(2), 90. <https://doi.org/10.5455/jcmr.2023.14.02.14>
- Biswas, N., Mukherjee, A., & Bhattacharya, S. (2024). “Are you feeling sick?” – A systematic literature review of cybersickness in virtual reality. *ACM Computing Surveys*, 56(11). <https://doi.org/10.1145/3670008>
- Bonanthaya, K. et al. (2021). *Oral and Maxillofacial Surgery for the Clinician*. Springer Singapore, Imprint Springer.
- Brand, H. S., van der Cammen, C. C. J., Roorda, S. M. E., & Baart, J. A. (2015). Tooth Extraction Education at Dental Schools Across Europe. *BDJ Open*, 1(1), 1–6. <https://doi.org/10.1038/bdjopen.2015.2>
- Caserman, P., Garcia-Agundez, A., Gámez Zerban, A., & Göbel, S. (2021). Cybersickness in Current-Generation Virtual Reality Head-Mounted Displays: Systematic Review and Outlook. *Virtual Reality*, 25(4), 1153–1170. <https://doi.org/10.1007/s10055-021-00513-6>
- Choi, Y., Lee, M., Kim, J., & Park, W. (2024). Clinical observation using virtual reality for dental education on surgical tooth extraction: A comparative study. *BMC Medical Education*, 24(1). <https://doi.org/10.1186/s12909-024-05605-w>
- Chuenjitwongsa, S., Oliver, R. G., & Bullock, A. D. (2018). Competence, competency-based education, and undergraduate dental education: a discussion paper. *European Journal of Dental Education*, 22(1), 1–8. <https://doi.org/10.1111/eje.12213>

- Dzyuba, N., Jandu, J., Yates, J., & Kushnerev, E. (2022). Virtual and augmented reality in dental education: The good, the bad and the better. *European Journal of Dental Education*. <https://doi.org/10.1111/eje.12871>
- Frost, J., Chipchase, L., Kecskes, Z., D’Cunha, N. M., & Fitzgerald, R. (2020). Research in Brief: Exploring Perceptions of Needs for the Same Patient Across Disciplines Using Mixed Reality: A Pilot Study. In *Clinical Simulation in Nursing* (Vol. 43, pp. 21–25). Elsevier Inc. <https://doi.org/10.1016/j.ecns.2020.02.005>
- Gaballah, K., Ali, K., Zahra, D., Abou Neel, E., & Ibrahim, E. (2024). Perceived confidence of dental students and new graduates in performing tooth extractions—An exploratory study. *European Journal of Dental Education*, 28(1), 191–205. <https://doi.org/10.1111/eje.12936>
- Goswami, A., Ghorui, T., Bandyopadhyay, R., Sarkar, A., & Ray, A. (2020). A General Overview of Post Extraction Complications-Prevention, Management and Importance of Post Extraction Advices. *Fortune Journal of Health Sciences*, 03(03). <https://doi.org/10.26502/fjhs014>
- Hupp, J., Tucker, M., & Ellis, E. (2019). *Contemporary Oral and Maxillofacial Surgery* (7th ed.). Elsevier.
- Imran, E., Adanir, N., & Khurshid, Z. (2021). Significance of Haptic and Virtual Reality Simulation (VRS) in The Dental Education: A Review of Literature. *Applied Sciences (Switzerland)*, 11(21), 1–19. <https://doi.org/10.3390/app112110196>
- Joda, T., Gallucci, G. O., Wismeijer, D., & Zitzmann, N. U. (2019). Augmented and virtual reality in dental medicine: A systematic review. In *Computers in Biology and Medicine* (Vol. 108, pp. 93–100). Elsevier Ltd. <https://doi.org/10.1016/j.compbiomed.2019.03.012>
- Johnson, J. (2024). Effect of Emotions on Learning, Memory, and Disorders Associated With the Changes in Expression Levels: A Narrative Review. *Brain Circulation*, 10(2), 134–144. [https://doi.org/10.4103/bc.bc\\_86\\_23](https://doi.org/10.4103/bc.bc_86_23)
- Koolivand, H., Shoreshi, M. M., Safari-Faramani, R., Borji, M., Mansoori, M. S., Moradpoor, H., Bahrami, M., & Azizi, S. M. (2024). Comparison of the effectiveness of virtual reality-based education and conventional teaching methods in dental education: a systematic review. *BMC Medical Education*, 24(1). <https://doi.org/10.1186/s12909-023-04954-2>
- Lee, M. M., & Kumar, S. I. (2023). Kolb Meets Quality: Applying Learning Theory to a Process Improvement and Safety Curriculum. *ATS Scholar*, 4(4), 431–440. <https://doi.org/10.34197/ats-scholar.2023-0021PS>
- Li, Y., Ye, H., Ye, F., Liu, Y., Lv, L., Zhang, P., Zhang, X., & Zhou, Y. (2021). The Current Situation and Future Prospects of Simulators in Dental Education. *Journal of Medical Internet Research*, 23(4), 1–17. <https://doi.org/10.2196/23635>
- Liu, J. Y. W., Yin, Y. H., Kor, P. P. K., Cheung, D. S. K., Zhao, I. Y., Wang, S., Su, J. J., Christensen, M., Tyrovolas, S., & Leung, A. Y. M. (2023). The Effects of Immersive Virtual Reality Applications on Enhancing the Learning Outcomes of Undergraduate Health Care Students: Systematic Review With Meta-synthesis. *Journal of Medical Internet Research*, 25. <https://doi.org/10.2196/39989>
- Lobprise, H. B. ., & Dodd, J. R. . (2019). *Wiggs’s Veterinary Dentistry: principles and practice* (2nd ed.). John Wiley & Sons, Inc.
- Mergen, M., Graf, N., & Meyerheim, M. (2024). Reviewing the current state of virtual reality integration in medical education - a scoping review. *BMC Medical Education*, 24(1), 1–25. <https://doi.org/10.1186/s12909-024-05777-5>

- Mohamed, A. G., Ibrahim, A. E. E., & Milad, A. A. M. (2023). Tooth Extraction using Vertical, Conventional, and Surgical Techniques in Sebha Dental College: A Descriptive “Cross-sectional Study.” *The Open Dentistry Journal*, 17(1), 1–5. <https://doi.org/10.2174/18742106-v17-20230815-2023-9>
- Monterubbianesi, R., Tosco, V., Vitiello, F., Orilisi, G., Fraccastoro, F., Putignano, A., & Orsini, G. (2022). Augmented, Virtual and Mixed Reality in Dentistry: A Narrative Review on the Existing Platforms and Future Challenges. In *Applied Sciences (Switzerland)* (Vol. 12, Number 2). MDPI. <https://doi.org/10.3390/app12020877>
- Moussa, R., Alghazaly, A., Althagafi, N., Eshky, R., & Borzangy, S. (2022). Effectiveness of Virtual Reality and Interactive Simulators on Dental Education Outcomes: Systematic Review. In *European Journal of Dentistry* (Vol. 16, Number 1, pp. 14–31). Georg Thieme Verlag. <https://doi.org/10.1055/s-0041-1731837>
- Ngwu, J. N., Ikechukwu, A., Okusanya, T. F., Chukwu, E. B., Ohadoma, A. N., Moneth, E. C., Aduaka, O. S., & Okoli, S. C. (2024). A ten years survey on the causes of tooth extraction: A review of retrospective studies. *International Journal of Applied Dental Sciences*, 10(2), 352–357. <https://doi.org/10.22271/oral.2024.v10.i2e.1963>
- Papaefthymiou, S., Giannakopoulos, A., Roussos, P., & Kourtesis, P. (2024). Mitigating Cybersickness in Virtual Reality: Impact of Eye–Hand Coordination Tasks, Immersion, and Gaming Skills. *Virtual Worlds*, 3(4), 506–535. <https://doi.org/10.3390/virtualworlds3040027>
- Pulijala, Y., Ma, M., Pears, M., Peebles, D., & Ayoub, A. (2018). Effectiveness of Immersive Virtual Reality in Surgical Training—A Randomized Control Trial. *Journal of Oral and Maxillofacial Surgery*, 76(5), 1065–1072. <https://doi.org/10.1016/j.joms.2017.10.002>
- Radianti, J., Majchrzak, T. A., Fromm, J., & Wohlgenannt, I. (2020). Computers & Education A systematic review of immersive virtual reality applications for higher education : Design elements , lessons learned , and research agenda. *Computers & Education*, 147(July 2019), 103778. <https://doi.org/10.1016/j.compedu.2019.103778>
- Sharif, R. A., Chaturvedi, S., Suleman, G., Elmahdi, A. E., & Elagib, M. F. A. (2020). Analysis of tooth extraction causes and patterns. *Open Access Macedonian Journal of Medical Sciences*, 8(D), 36–41. <https://doi.org/10.3889/OAMJMS.2020.3784>
- Singh, V., Vidya, B., Jameela, R. V., Bipinchandra, L. N., Bordoloi, P., & Srivastav, M. (2024). *The Impact of Virtual Reality-Based Simulation Training on Dental Students' Clinical Skills and Confidence*. 3740–3742. <https://doi.org/10.4103/jpbs.jpbs>
- Singla, Dr. Y., & Sharma, Dr. R. (2020). Latest Trends in Atraumatic Extraction of Teeth. *International Journal of Applied Dental Sciences*, 6(4), 361–366. <https://doi.org/10.22271/oral.2020.v6.i4f.1088>
- Srinivasa, P. T., Sujatha, G., Shanmuga, P. R., & Ramasamy, M. (2019a). Knowledge, attitude, and practice of senior dental students toward management of complications in exodontia. *Indian Journal of Dental Research*, 30(5), 794–797. [https://doi.org/10.4103/ijdr.IJDR\\_508\\_17](https://doi.org/10.4103/ijdr.IJDR_508_17)
- Srinivasa, P. T., Sujatha, G., Shanmuga, P. R., & Ramasamy, M. (2019b). Knowledge, attitude, and practice of senior dental students toward management of complications in exodontia. *Indian Journal of Dental Research*, 30(5), 794–797. [https://doi.org/10.4103/ijdr.IJDR\\_508\\_17](https://doi.org/10.4103/ijdr.IJDR_508_17)
- Udeabor, S. E., Heselich, A., Al-Maawi, S., Alqahtani, A. F., Sader, R., & Ghanaati, S. (2023). Current Knowledge on the Healing of the Extraction Socket: A Narrative

- Review. *Bioengineering*, 10(10), 1–11.  
<https://doi.org/10.3390/bioengineering10101145>
- Vava Violeta, B., & Hartomo, B. T. (2020). The Management of Transalveolar Surgery Teeth with Pulpal Polyps Condition. *Agustus*, 14(2), 101–108.  
<https://doi.org/10.30649/denta.v14i2>
- Wolf, T. G., Dianišková, S., Cavallé, E., Aliyeva, R., Cagetti, M.-G., Campus, G., Deschner, J., Forna, N., Ilhan, D., Mazevet, M., Lella, A., Melo, P., Perlea, P., Rovera, A., Sculean, A., Sharkov, N., Slutsky, A., António, Torres, R., & Saag, M. (2024). Dental Students' and Dental School Graduates' Practical Skills: An International Survey of Perceptions of National Dental Associations in Europe. *Oral Health Prev Dent*, 22(1), 115–122. <https://doi.org/10.3290/j.ohpd.b4997035>
- Yang, X., Yan, T., Bao, Z., Ouyang, K., & Huang, L. (2024). Wisdom Tooth Extraction Training for Dental Students: Step-by-Step or All-in-One? *British Journal of Hospital Medicine (London, England: 2005)*, 85(9), 1–15.  
<https://doi.org/10.12968/hmed.2024.0249>
- Zhang, W., Ding, Z., Bakaev, M., Razumnikova, O., Kludacz-Alessandri, M., & Wu, J. (2025). Immersive virtual reality based on head-mounted display in medical education: a systematic review. *BMC Medical Education*, 25(1).  
<https://doi.org/10.1186/s12909-025-08154-y>