≡ Menu

Q Search

Cart

Home > Character Building and Competence Development in Medical and Health Professions Education > Conference paper

"How Intense Should Be A Nurturing Program Physician Mindset?"

| Conference paper | First Online: 05 October 2023

pp 155–163 | Cite this conference paper



Character Building and
Competence Development in
Medical and Health Professio...

(INA-MHPEC 2022)

Hikmawati Nurokhmanti , Prattama Santoso Utomo, Astrid Pratidina Susilo & Titi Savitri Prihatiningsih

Part of the book series: Springer Proceedings in Humanities and Social Sciences ((SPHSS))

Included in the following conference series:
International Conference of Indonesian Medical and Health Professions Education

Abstract

The professional development of medical students starts with clinical reasoning growth. Facilitating the growth of clinical reasoning, from a single method to a program strategy could be used. An integrated program between knowledge and performance was applied within the curriculum in the third year students. The program consist of two tutorial meeting with multilevel type scenario, a single integrated performance training, and apply Objective Structured Clinical Examination (OSCE) at the end of the third year. This study aimed to evaluate a clinical reasoning course by using the OSCE score at the end of the program. A simple pair t-test analysis was conducted to compare OSCE scores before and after this program was implemented. There was a significant difference in OSCE scores between before and after the course was implemented on three stations from a total of seven stations, regardless of whether it was a procedural or non-procedural type of station. This clinical reasoning program could positively influence students' clinical reasoning growth. The course's length, and intensity given through tutorials and integrated training sessions influenced how the student can cognitively build critical thinking skills, especially the pattern of recognition and recall. However, more research is needed to better understand how much intensity is required in the sessions to build a firm tacit knowledge and pattern recognition.

1 This is a preview of subscription content, log in via an institution 2 to check access. Access this chapter Log in via an institution \rightarrow Subscribe and save Springer+ Basic €32.70 /Month Get 10 units per month Download Article/Chapter or eBook 1 Unit = 1 Article or 1 Chapter Cancel anytime Subscribe now → **Buy Now** EUR 181.89 **∧** Chapter **EUR 29.95 ∨** eBook Price includes VAT (Indonesia) Available as PDF Read on any device Instant download Own it forever Buy Chapter → **∨** Hardcover Book **∨** Softcover Book EUR 219.99 EUR 219.99 Tax calculation will be finalised at checkout Purchases are for personal use only <u>Institutional subscriptions</u> →

Similar content being viewed by others

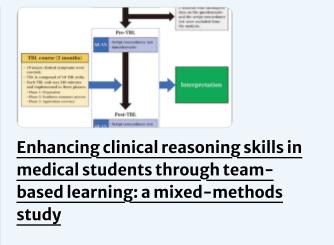


Article 06 October 2015



Teaching and assessing clinical reasoning skills

Article 20 September 2015



Article Open access 11 February 2025

References

1. Linn A, Khaw C, Kildea H, Tonkin A (2012) Clinical reasoning: a guide to improving teaching and practice. Aust Fam Physician 41(1–2):18–20

PubMed Google Scholar

- 2. Pelaccia T, Tardif J, Triby E, Charlin B (2011) An analysis of clinical reasoning through a recent and comprehensive approach: the Dual-Process Theory. Med Educ Online 16(1). https://doi.org/10.3402/meo.v16i0.5890
- **3.** Thomson R, Lebiere C, Anderson JR, Staszewski J (2015) A general instance-based learning framework for studying intuitive decision-making in a cognitive architecture. J Appl Res Mem Cogn 4(3):180–190. https://doi.org/10.1016/j.jarmac.2014.06.002
- **4.** Seidel BM, Campbell S, Bell E (2015) Evidence in clinical reasoning: a computational linguistics analysis of 789,712 medical case summaries 1983–2012. BMC Med Inform Decis Mak 15(19). https://doi.org/10.1186/ s12911-015-0136-8
- 5. Kassirer JP (2010) Teaching clinical reasoning: case-based and coached. Acad Med. 85(7):1118–1124. https://doi.org/10.1097/ACM.0b013e3181d5dd0d
- 6. Cutrer, W. B., Sullivan, W. M., & Fleming, A. E. Educational strategies for improving clinical reasoning. Curr Probl Pediatr Adolesc Health Care. 29013;43(9):248–257. Available from: https://doi.org/10.1016/j.cppeds.2013.07.005
- 7. Bleakley A (2020) Re-visioning clinical reasoning, or stepping out from the skull. Med Teach 0(0):1–19. https://doi.org/10.1080/0142159X.2020.1859098
- 8. Zijl A., Loon, M., ten Cate, O., Case based clinical reasoning in practice. In Principles and Practice of Case-based Clinical Reasoning Education. Durning, S. J., Custers, E.J.F.M., ten Cate, O., (n.d.). Eds, Vol.15, Springer

9. Xu H, Ang BWG, Soh JY, Ponnamperuma GG (2021) Methods to improve diagnostic reasoning in undergraduate medical education in the clinical setting: a systematic review. J Gen Intern Med 36(9):2745–2754

Article PubMed PubMed Central Google Scholar

- 10. Thampy H, Willert E, Ramani S (2019) Assessing clinical reasoning: targeting the higher levels of the pyramid. J Gen Intern Med 34(8):1631–1636. https://doi.org/10.1007/s11606-019-04953-4
- 11. Khan A, Ayub M, Shah Z (2016) An audit of the medical students' perceptions regarding Objective Structured Clinical Examination. Educ Res Int. 1–4. https://doi.org/10.1155/2016/4806398
- 12. Kim KJ (2016) Factors associated with medical student test anxiety in Objective Structured Clinical Examinations: a preliminary study. Int J Med Educ 7:424–427. https://doi.org/10.5116/ijme.5845.caec
- 13. Turkistani AM (2018) Perceptions of clinical years' medical students and interns about factors affecting their exam performance, King Abdulaziz University, Jeddahh. J Int Med Res 4(3):132–136. https://doi.org/10.31254/jmr.2018.4305
- **14.** Al Rushood M, Al-Eisa A (2020) Factors predicting students' performance in the final pediatrics OSCE. PLoS ONE.15:1–9. https://doi.org/10.1371/journal.pone.0236484

Ethical Clearance

This research was already reviewed and gained the ethical approval from the institutional ethical review board with letter number KE/FK/0915/EC/2020.

Conflict of Interest

All of the authors have no conflict of interest with the publication of the research. We do hope that this research will enrich the science of evaluation in term of assessment for learning paradigm.

Funding

This research is part of evaluation research of the institution.

Acknowledgments

We want to extend our heartfelt thanks to Dr. dr. Denny Agustiningsih, M.Kes and the team of the medical education program who gave opportunity for accessing the data of this study.

Authors' Contribution

HNR is the junior (main) researcher and the first author of this manuscript, PU is HNR colleague who worked together with HNR in analyzing the scores. TSH is HNR's supervisor in terms of curriculum and consultant in publishing this manuscript.

Author information

Authors and Affiliations

Department of Medical Education and Bioethics, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia

Hikmawati Nurokhmanti, Prattama Santoso Utomo & Titi Savitri Prihatiningsih

Department of Medical Education and Bioethics, Faculty of Medicine, Universitas Surabaya, Surabaya, Indonesia Astrid Pratidina Susilo

Corresponding author

Correspondence to Hikmawati Nurokhmanti.

Editor information

Editors and Affiliations

Department of Medical Education and Bioethics, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia

Mora Claramita

Department of Medical Education, Universitas Indonesia, Jakarta, Indonesia

Diantha Soemantri

Department of Medical Education and Bioethics, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia

Rachmadya Nur Hidayah

Department of Medical Education, Universitas Indonesia, Jakarta, Indonesia

Ardi Findyartini

Centre for Medical Education, Yong Loo Lin School of Medicine, National University of Singapore, Singapore Singapore

Dujeepa D. Samarasekera

Rights and permissions

Reprints and permissions

Copyright information

© 2023 The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd.

About this paper

Cite this paper

Nurokhmanti, H., Utomo, P.S., Susilo, A.P., Prihatiningsih, T.S. (2023). "How Intense Should Be A Nurturing Program Physician Mindset?". In: Claramita, M., Soemantri, D., Hidayah, R.N., Findyartini, A., Samarasekera, D.D. (eds) Character Building and Competence Development in Medical and Health Professions Education. INA-MHPEC 2022. Springer Proceedings in Humanities and Social Sciences. Springer, Singapore. https://doi.org/10.1007/978-981-99-4573-3_15

<u>.RIS</u> <u>.ENW</u> <u>.BIB</u> <u></u>

DOI Published Publisher Name
https:// 05 October 2023 Springer, Singapore

doi.org/10.1007/978-981-99-4573-3_

15

Print ISBN Online ISBN eBook Packages

978-981-99-4572-6 978-981-99-4573-3 <u>Medicine</u>

Medicine (R0)

Publish with us

Policies and ethics <a>[2]