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Association between Level of Knowledge Gained, Confidence, Motivation and Flexibility on Types of Learning for Bedside Teaching among Clinical Students in Four Malaysian Medical Schools during COVID-19 Pandemic (2022) Malaysian Journal of Medicine and Health Sciences, 18, pp. 28-35.

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Introduction: With the arise of the COVID-19 pandemic, higher institutions are forced to change the method of delivery for bedside teaching sessions from face-to-face to online learning. However, online learning was found not effective in delivering practical knowledge and skills to students. Hence, the objective of this study was to determine the association between level of knowledge gained, confidence, motivation and flexibility on types of learning for bedside teaching sessions among clinical students in four Malaysian medical schools during COVID-19 pandemic. Methods: A cross-sectional study involving medical students from Universiti Putra Malaysia (UPM), Universiti Sains Islam Malaysia (USIM), Universiti Islam Antarabangsa (UIA) and Universiti Sains Malaysia (USM) were conducted from 1st March 2021 until 6th June 2021. An online questionnaire was distributed and it consisted of 5 sections which cover sociodemographic information, level of knowledge gained, confidence, motivation, and flexibility from bedside teaching session. The data was analysed by using SPSS software program. Results: There is a significant association between the level of knowledge gained, level of confidence, level of motivation and level of flexibility with the type of learning (online or face-to-face) during bedside teaching sessions. Results revealed that students gained a higher level of knowledge (84.9%), higher level of confidence in physical examination (93.3%), higher motivation (82.2%) and higher flexibility (64.1%) during face-to-face bedside teaching sessions compared to online learning. Conclusion: Most of the medical students in four Malaysian medical schools prefer face-to-face learning compared to online learning for bedside teaching sessions. © 2022 UPM Press. All rights reserved.

Author Keywords

Bedside teaching; COVID-19; Face-to-face learning; Online learning

- Gamage, KAA, Wijesuriya, DI, Ekanayake, SY, Rennie, AEW, Lambert, CG, Gunawardhana, N. (2020) Online delivery of teaching and laboratory practices: Continuity of university programmes during COVID-19 pandemic [Internet], 10, pp. 1-9. Education Sciences. MDPI AG; [cited 2021 Jun 18]
- Allen, IE, Seaman, J, Survey, B. Going the Distance: Online Education in the United States, 2011 (2011) Mod Healthc,
- Ramackers, W, Stupak, JV, Marcheel, IL, Tuffs, A, Schrem, H, Fischer, V Regression analyses of questionnaires in bedside teaching (2020) BMC Med Educ, 20 (1), pp. 1-9. [Internet]. Dec 1 [cited 2021 Jun 18]
- E-LEARNING | meaning in the Cambridge English Dictionary, [Internet]. [cited 2021 Jan 14]
- Baeten, M, Kyndt, E, Struyven, K, Dochy, F. Using student-centred learning environments to stimulate deep approaches to learning: Factors encouraging or discouraging their effectiveness (2010) Educ Res Rev [Internet], 5 (3), pp. 243-260.

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• Carty, M. O'Riordan, N. Ivers, M. Higgins, MF.

Patient perspectives of bedside teaching in an obstetrics, Gynaecology and neonatology hospital

(2020) BMC Med Educ [Internet], 20 (1), pp. 1-9. Apr 15 [cited 2021 Jun 18]

- Alsoufi, A, Alsuyihili, A, Msherghi, A, Elhadi, A, Atiyah, H, Ashini, A Impact of the COVID-19 pandemic on medical education: Medical students' knowledge, attitudes, and practices regarding electronic learning (2020) PLoS One, 15, p. e0242905. [Internet]. Nov 1 [cited 2021 Jun 18];(11 November)
- McArthur Baker, D, Unni, R. USA and Asia Hospitality & Tourism Students' Perceptions and Satisfaction with Online Learning versus Traditional Face-to-Face Instruction (2018) Journal of Business Education & Scholarship, 12.
- Sivakumar, A, Ibrahim, AM, Azhar, DA, Mohd Nor, NH, Mohamad Zainal, NH. (2020) Factors Associated With Facemask Usage During COVID-19 Outbreak Among Students and Staffs of Faculty of Medicine and Health Sciences, **UPM**
- Tratnik, A, Urh, M, Jereb, E. Student satisfaction with an online and a face-to-face Business English course in a higher education context

(2019) Innov Educ Teach Int [Internet], 56 (1), pp. 36-45. Jan 2 [cited 2021 Jun 18]

- Baczek, M, Zagańczyk-Baczek, M, Szpringer, M, Jaroszyński, A, Wozakowska-KapŁon, B. Students' perception of online learning during the COVID-19 pandemic: A survey study of Polish medical students (2021) Medicine (Baltimore) [Internet], 100 (7), p. e24821. Feb 19 [cited 2021 Jun 18]
- George, A, Blaauw, D, Green-Thompson, L, Hajinicolaou, C, Lala, N, Parbhoo, K Comparison of video demonstrations and bedside tutorials for teaching paediatric clinical skills to large groups of medical students in resource-constrained settings (2019) Int J Educ Technol High Educ, 16 (1), pp. 1-16. [Internet]. Dec 1 [cited 2021 Jun 20]
- Găman, M-A, Ryan, PM, Bonilla-Escobar, FJ. To Stay at Port or to Go to Sea: Are Clinical Clerkships a Double-Edged Sword **During the COVID-19 Pandemic? Where Do We Go From Here?** (2020) Int J Med Students [Internet], 8 (2), pp. 92-95. Aug 31 [cited 2021 Jun 18]
- Smith, JP, Wright, CA. Bedside Teaching: The Past, Present, and Future of the Bedside in Medical Education (2014) MedEdPublish, pp. 1-19.
- Gonzalez-Ramirez, J, Mulqueen, K, Zealand, R, Silverstein, S, Reina, C, BuShell, S Emergency Online Learning: College Students' Perceptions during the COVID-19 Crisis (2021) SSRN Electron J, pp. 29-47.
- Wang, C, Hsu, HCK, Bonem, EM, Moss, JD, Yu, S, Nelson, DB Need satisfaction and need dissatisfaction: A comparative study of online and faceto-face learning contexts (2019) Comput Human Behav, 95, pp. 114-125.

Majid, S, Yang, P, Lei, H, Haoran, G.

Knowledge sharing by students: Preference for online discussion board vs face-toface class participation

(2014) Lect Notes Comput Sci (including Subser Lect Notes Artif Intell Lect Notes Bioinformatics) [Internet], 8839, pp. 149-159. [cited 2021 Jun 20]

 Aminizadeh, M, Rasouli Ghahfarokhi, S, Pourvakhshoori, N, Beyramijam, M, Majidi, N, Shahabi Rabori, M.

Comparing the effects of two different educational methods on clinical skills of emergency intermediate technician: A quasi-experimental research (2019) J Educ Health Promot, 8 (1).

[Internet]. Feb 1 [cited 2021 Jun 20]; /pmc/articles/PMC6442246

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