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Impact of a 'Research in pharmacy' course on students' self-reported competence and confidence to conduct research: Findings from a Malaysian university

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[Abubakar, Usman](#)^a ; [Elnaem, Mohamed Hassan](#)^b; [Ahmed, Abdulkareem Mohammed](#)^c; [Zaini, Syahrir](#)^b; [Nahas, Abdul Rahman Fata](#)^b; [+1 author](#)

^a Discipline of Clinical Pharmacy, School of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang, Malaysia

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Abstract

Objective: To evaluate the impact of a 'Research in Pharmacy' course on students' self-reported competence and confidence to plan and conduct pharmacy practice research. **Method:** This is a pre- and post-intervention study conducted among third year pharmacy undergraduate students in a public university in Malaysia using an online questionnaire. A 'Research in pharmacy' course which encompassed lectures, tutorials, and practical sessions was delivered over a 14-week period. The students were divided into groups and assigned a project supervisor to guide them in planning and conducting a research project that was completed in one term. **Result:** Of the 109 students, 69 and 62 completed the questionnaire in the pre- and post-intervention periods, respectively. Students' interest in conducting research and their interest in learning about research was similar in both

periods. However, self-reported ability to conduct research increased significantly. Self-reported competence and confidence to conduct most components of research improved significantly ($p < 0.05$), although, extreme/very competent or confidence level was lower than 50% for most items. Overall, median total competence score (66.0 versus 74.0, $p < 0.001$) and median total confidence score (66.0 versus 71.5, $p < 0.001$) increased significantly after the course. Most students were very satisfied/satisfied with the online lectures (54.8%) and online project supervision (64.6%). Lack of time (61.3%) was the major challenge students encountered during the course. Conclusion: A 'Research in pharmacy' course with both didactic and experiential components improved self-reported competence and confidence to plan and conduct research among pharmacy undergraduate students. Future studies should investigate the facilitators and barriers to students' interest in pharmacy practice research. © 2022 FIP.

Author keywords

Competence; Confidence; Malaysia; Pharmacy practice research; Pharmacy student

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Corresponding authors

Corresponding
author

U. Abubakar

Affiliation

Discipline of Clinical Pharmacy, School of Pharmaceutical Sciences,
Universiti Sains Malaysia, Pulau Pinang, 11800, Malaysia

Email address

pharmumma2@gmail.com

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Abstract

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