



INTRODUCTION

Simulation-based training is an educational technique that complements didactic teaching to support the development of clinical skills and competencies for pharmacy students before completing their professional training.¹

Blood pressure (BP) measurement simulation involves having an arm anatomically similar to the arm of a human subject and allows a student to practice the same skills and techniques in measuring BP as executed on a human subject. Systolic and diastolic BP and volume settings are adjusted using an external control panel allowing for variability as observed in clinical practice.²

AIM

To evaluate pharmacy student perception of simulation-based BP measurement training

METHOD

- A self-administered questionnaire consisting of ten 5-point Likert-type questions from strongly disagree to strongly agree to assess pharmacy student perception of simulation-based BP measurement training was developed and reviewed.
- The questionnaire was disseminated to all (N=22) first-year undergraduate pharmacy students after the practical session using the BP simulator.
- Descriptive statistics were calculated.

RESULTS

- 20 students (16 female, 4 male, mean age 21 years, range 18-30 years) completed the questionnaire.
- All the students (n=20) strongly agreed/agreed that the BP training simulator promotes innovative and interactive learning and enhanced their learning experience.
- 19 students strongly agreed/agreed that the simulator is an effective teaching tool which will impact positively on their future practice.
- 19 students strongly agreed/agreed regarding use of the simulator in future practical sessions.

Table 1: Evaluation of BP training simulator by pharmacy students (N=20)

The blood pressure measurement training simulator	Number of students who Strongly Agreed/Agreed
Promotes self-confidence in technique for actual patient situations	18
Helps to transform theoretical knowledge into clinical skills	18
Helps to identify challenges in the technique before actual practice	16
Is realistic	16
Is easy to use	15

CONCLUSION

The simulation-based BP measurement training was very well-received by the students since it enhanced the learning experience by bridging the gap between theory and practice.

REFERENCES

1. Lloyd M, Watmough S, Bennett N. Simulation-based training: applications in clinical pharmacy [Online]. Pharm J. 2018. Available from: <https://www.pharmaceutical-journal.com/research/review-article/simulation-based-training-applications-in-clinical-pharmacy/20205302.article?firstPass=false>
2. Lee JL, Sobieraj DM, Kuti EL. Student Measurement of Blood Pressure Using a Simulator Arm Compared with a Live Subject's Arm. Am J Pharm Educ. 2010; 74(5): 82.