Development and establishment of objective structured clinical examination (OSCE) auxiliary training system for pharmacy students

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The objective structured clinical examination (OSCE) has been included in one of the national examination programs for medical students recently in Taiwan, and the pharmacist OSCE is involved in the national examination project for feasibility study. The role of the pharmacist has gradually evolved into a need to participate in interprofessional medical teams and provide the pharmaceutical care for patients. Pharmacists need to have basic core competencies such as knowledge, attitude, and skill to perform pharmaceutical care. To ensure the pharmacist's ability and service quality, standardized patients-based OSCE is the best tool for evaluating learning outcomes that can do the right (shows how). But it needs to take a lot of manpower (examiner and standardized patients) and time (about 10 minutes per person), and the restrictions when students receive OSCE training. We developed a set of exclusive OSCE training system for pharmacy students with a prototyping life cycle method, including cloud and mobile application (App). The teaching content includes: test subject, test target, student reading questions, student guidelines, current medication, student tasks, inquiry content of standardized patient, completely answer content of student (5 points), partially answer content of student (3 points), no reach or error answer content of student (1 point), assessment score, pass or fail, whether to retest, student feedback, examiner feedback, to provide students to read the lesson plans by themselves; and according to the self-learning mode of the problem group, implement initial self-training. To assist students in receiving the OSCE test quickly, they can be easier to become familiar with the process, understand the situation and improve the teaching skills of clinical operations.