

Undergraduate Study Program in Pharmacy INTERPROFESIONAL EDUCATION FOR ENHANCE LIFE-LONG LEARNING

Interprofessional education (IPE) is the teaching strategy based on problem-based learning (PBL) that involve the students from other health professional to collaborate during the learning process for ensuring the student have experience, skills and knowledge in association with patient care, while the basic analytical and critical thinking are useful to solve the real world clinical cases by gathering evidence based medicine (EBM) and offering the best recommendation for the patient.

In order to achieve expected learning outcome (ELO) in study program (SP) Pharmacy, various method are used as the approach to achieve cognitive, psychomotor and affective knowledge and skills. In addition, the student should be motivated for life-long learning so that they can pursue further knowledge continuously, independently and deliberately for either personal or professional reasons. One of the learning strategies is using problem based learning (PBL) in collaboration with others health professional students during the learning process.

The collaboration is done for several subjects i.e Pharmacotherapy 1, Applied Pharmacotherapy, Molecular Biology between the students of Medical School and Nursing school of Universitas Muhammadiyah Surakarta. The objective of this activity is to encourage students for having a good collaboration as a health professional team and good communication with other health professionals in community service.

IPE starts by formulate the course learning objective for students in Pharmacy, Medical School and Nursing School (Table 1). A case problem related to the health issue in the community then given to the group of students and they start discuss to solve the problem based on their expected profession as a pharmacist, medical doctor and nurse. The basic analytical and critical thinking were used to solve the real world clinical cases by gathering evidence based medicine (EBM) and offering the best recommendation for the patient. The assessment was carried on by their writing report and performance during community service using assessment rubrics (Table 2).

Table 1. The example of course learning outcome (CLO) at interprofessional education in Pharmacotherapy 1.

Pharmacy Students Nursing Students Medical Students The students should: The students should: The students should: 1. Be able to study medical problems that 1. Be able to explain the organs involved that 1. Be able to understand the concept of arise in chronic renal failure (CRF) CRF starting from the definition, are associated with symptoms in cases of etiology, patophysiology and emerging CRF patients. 2. Be able to understand and explain 2. Be able to explain changes in the nursing problems. physiological to pathological condition of 2. Know and understand the supporting pharmacological therapy and mechanism of action for drugs in CRF. checks needed for CRF. CRF. 3. Be able to conduct rational therapy 3. Be able to explain the definition, 3. Be able to understand the nursing process in CRF patients (assessment to evaluations and drug related problems epidemiology and etiology of CRF. (DRP) after providing therapeutic 4. Be able explain the principle of treatment evaluation). recommendations in cases of CRF 4. Be able to make nursing care of therapy for chronic renal failure patients 4. Be able to monitor therapy (effectiveness including hemodialysis therapy and its documentation related to CRF cases and side effects) indications and kidney transplants. 5. Has capability for doing inter disciplinary collaboration with 5. Has capability for doing inter disciplinary 5. Has capability for doing inter disciplinary pharmacist and medical doctor. collaboration with others health collaboration with others health professional (medical doctor and professional (pharmacist and nursing). nursing).

Course Learning Objective

"As pharmacist candidates,"
the students should improve and update their knowledge related to the health issues within the community. By using IPE, it is expected that it will enhance the student's it will enhance to work as self-confidence to work as health professional."

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Table 2. The assessment rubric for IPE in Pharmacotherapy 1

No	Point	Maximum Score
1	Writing report	40
2	Writing report Presentation	15
3	Individual activity	15
4	Answering question(s) related to the problem	15
5	to the problem Individual attitude	15