

Eastern West Virginia Community and Technical College
COURSE ASSESSMENT REPORT

Course Title and Number: NU 255 Pharmacology for Nursing	Academic Term and Year of Assessment Activity (Ex: Fall, 2014) Fall, 2017
Report Submitted By: Eleanor Berg, MS	Number of Students Assessed: 17
Date Report Submitted: 12/7/2017	Number of Sections Included: 1
Course Delivery Format (list all modalities used in sections assessed. Ex: web based, VDL, traditional section, hybrid course, etc.): traditional	

Course Role in the Curriculum

Provide a description of the role the course serves in the curriculum (i.e. general education requirement, program technical core, restricted elective, etc.). Note all as appropriate.

Pharmacology for Nursing a sixteen (16) week course designed to aid the student to develop an understanding of basic pharmacological concepts, drug actions and clinical application. The course was offered as an elective for the Associate of Applied Science Nursing Program and was offered only to 3rd semester nursing students. Although not part of the nursing curriculum other than being an elective, pharmacological knowledge is vital in the nursing profession. As drug therapy is an integral part of health care, allied health students/professionals have a vital role in drug therapy and observation of the physiological changes with administration. Critical thinking skills are utilized in relationship to the use of pharmacological agents in health and illness. Patient safety, nursing actions, drug use and contraindications of each drug classification were included. Also included are drugs and their actions, drug administration, calculating drug dosages, Intravenous drug use, drug therapy in the pediatric and geriatric populations. Drug classifications included are anti-microbials, anti-parasitics, anti-septics, analgesics, anesthetics, anti-inflammatory agents, anti-gout, antihistamines, decongestants, expectorants, bronchodilators, cardiac agents, vasodilators, anti-platelet agents, anti-hypertensives, anti-lipemics, nutritional agents, and supplements, antacids, antiemetics, laxatives and antidiarrheals, central nervous system agents, psychiatric agents, substance abuse, thyroid agents, hormones and drugs used in obstetrical care, immunity, cancer, eyes, ears and skin. The focus was on utilization of pharmacologicals in health care with an emphasis on various drug categories. All chapters in the textbook were included in lecture and testing. Student learning outcomes were covered in the following ways: The uniqueness of each person and the differences in their response to medication. Dosing of medications is different depending on weight, age, renal and liver function. Medication compliance depends on the motivation, view of health, past experience with medications, cost and many other factors. Medications change and the nurse must keep abreast with the changes. Thinking critically, the nurse can help the patient obtain the maximum benefit with pharmacological agents, education and advocacy. A worksheet was developed by the instructor to include classifications, concept, use, side-effects and monitoring. The students received the worksheet and they were instructed to insert the names of medications the encountered in the clinical setting for NU 234. Blackboard was utilized for testing, Power Points and the worksheet. The exams were left on Blackboard and were available for students to review until the comprehensive final and a review was provided.

Assessment Methods

Provide a description of the assessment process used. Include description of instrument and

<p>performance standards in description. Note all methods.</p> <p>The assessment included ten examinations, a worksheet and an in class quiz for a total of 639 points with each exam question being worth one point each. The comprehensive final was given in the classroom without any aids such as textbooks or computer and was worth 100 points. 493 points were take home exams and the students had one or more weeks to complete each exam after the lecture. They were allowed to use the books for the exams and they were not timed. A quiz was given in class which was worth 36 points. For the quiz, one student answered a question and the others had the right to agree or refute the answer. Therefore, the quiz was a joint endeavor but each student had to participate and support their answer. The worksheet had drug classifications, major side effects, and mechanism of action, concept and special considerations. The students had to fill in the names and dosages of the medications. The worksheet was worth 10 points. The students were required to get 80% of the questions correct in order to make a “C” or above in the course.</p>

<p align="center">Assessment Results</p> <p>Provide a summary of results including tables/charts. Incorporate information from previous assessments as appropriate. Append additional pages if necessary. If appending, include notation in box to “See attached”.</p> <p>17 of the 17 students successfully completed the course with a “C” or above. The lowest total average was 81.8%. The lowest score on the comprehensive final was 64%. The SLO, college core values and the course objectives were aligned to ensure all were successfully measured. 100% of the SLO, general education goals and the course objectives were successfully measured. All of drug classifications were covered in lecture and on exams.</p>
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<p align="center">Course Level Assessment Summary of Outcomes, Indicators and Results</p> <p align="center">Course Title and Number: NU 255</p> <p align="center">Number of students in assessment sample = 17</p> <p align="center">Number of Sections in Assessment = 1</p> <p align="center">Add additional rows to table if necessary</p>				
Learning Outcomes (Insert learning outcomes assessed during this cycle)	Indicator (Insert indicators used for each outcome: exam question, scoring rubric, etc. Be specific)	Percent of Correct Responses	Percent of Incorrect Responses	Performance Standard Met (75%)* (yes or no)
Outcome 1: Demonstrate knowledge of drug classifications, common side-effects and nursing implication.	The students will complete the worksheet which includes drug classifications, side-effects and nursing implications.	100% of the students completed worksheets.	0	yes
Outcome 2: Critically asses a client’s response to chemical therapeutic measures and	A 78 year old patient in the recovery room after having a lengthy surgery on his hips. As he is gradually awaking, he requests pain medication. Within 10 minutes after A. Assess pain level	100%	0	yes

describe expected outcomes with drug administration.	B. Intubate and ventilate C. Narcan IVP D. Close observation of signs of opioid tolerance.			
Outcome 3: Discuss drug development, significances of scheduling of drugs and federal control.	During discharge patient teaching, the nurse reviews prescriptions with a patient. Which statement is correct about refills for an analgesic that is classified as Scheduled C-II? A. No prescription refills are permitted, a new prescription must be written each month. B. One refill is allowed if marked on the prescription. C. May be written for a three months' supply. D. Written prescriptions expire in 12 months. ANS: A	100%	0	yes
Outcome 4: Describe age, sex, body weight, body surface area, basal metabolic rate, disease states, genetic factors, placebo effect, time of administration and tolerance on drug effects on the human body.	When discussing dosage calculation for pediatric patients with a clinical pharmacist, the nurse notes that which type of dosage calculation is used most commonly in pediatric calculations? a. West nomogram B. Clark rule C. Height to weight ration D. Milligram/kilogram of body weight formula. ANS: D	94.12%	5.8%	yes
Outcome 5: Explain drug absorption, distributions, metabolism and excretions of medications.	The nurse is administering medications to the patient who is in renal failure resulting from end-stage renal disease. The nurse is aware that patients with kidney failure would most likely have problems with which pharmacokinetic phase? A. Absorption B. Distribution C. Metabolism D. Excretion ANS: D	82.36%	17.6%	yes

* Please note if using a different minimum performance standard.

Conclusions

Provide a brief summary of conclusions derived based on analysis of data. Append additional pages if necessary. If appending, include notation in box to "See attached".

100% of the SLO, course objectives and general education goals were successfully assessed and met. 100% of the students successfully completed the course with an 80% or higher. Students stated the worksheet distributed at the beginning of the course was very helpful in learning drug classifications. With the exception of one student, the students scored 81 or higher on the final which was comprehensive. This indicates the students retained the information provided throughout the course. The student who scored the lowest was one of the two students who did not complete the exams until a few hours prior to the deadline on each exam. I had talked to both students about procrastination and the negative impact on their scores. One received a "C" and the other received a "B" course. The rest of the students received an "A" for the course.

Previous Assessment Reports and Results

Date of Previous Assessment: N/A

List of Outcomes Not Met: None

Summary of Actions Taken to Address Unmet Learning Outcomes: Append additional pages if necessary. If appending, include notation in box to "See attached".

The course has not been previously assessed since the course is new. The course was adapted from AH 241 but changed to nursing to strengthen the transferability to a BSN program.

Action Plan and Date for Reassessment

Identify action plan for improvement or maintaining current performance levels including outcomes identified for re-assessment, curriculum revision, LOT proposal, new or revised course activities to reinforce learning outcomes, etc. Append additional pages if necessary. If appending, include notation in box to "See attached".

Will reassess when is taught again in fall, 2019. The worksheet does not include the entire drug classifications, will add these before teaching the course again.

Assessment Committee Recommendation/Approval (To be posted by Assessment Committee Chair)

- Approved as presented
 Approved with recommendations for future reports (Explanation Required)

It was felt that the submission of a single multiple choice question to represent the assessment of course learning outcomes in the Summary of Outcomes section was insufficient without further context. Therefore, the authors of reports will be invited to present their report to the Committee, so that any questions regarding the report might be addressed at this time.

- Resubmission Required. Reason for Resubmission:

Date: 12/15/2017