

N2500: Medication Administration

Calendar Description

This course focuses on safe, effective, and ethical administration of medications.

Expanded course description:

This course is designed to teach students about the administration of medications by various routes. The role and professional accountability of the nurse administering medications will be discussed. Students will learn about various practice standards and best practice guidelines used in the safe medication administration. Ethical considerations will also be discussed. Students will be taught how to correctly calculate medication dosages and develop the necessary psychomotor skills required for safe, competent medication administration, keeping in mind physical, psychosocial, and cultural factors.

Course Weight & Delivery: 0.125FCE, Lab, 4 hours/week

Course Learning Outcomes

Students will:

1. develop knowledge of the professional responsibilities of the nurse when administering medications
2. become familiar with best practice guidelines related to medication administration
3. demonstrate competence in dosage calculations
4. integrate previous knowledge of health assessment to identify necessary assessments pre-and-post-medication administration
5. practice safe medication administration by oral, intravenous, subcutaneous, intramuscular, and enteral routes
6. integrate principles of infection prevention & control
7. demonstrate competence in safe medication administration.

Major Concepts in the course:

health assessment
 safety
 caring
 professionalism
 clinical judgment
 infection prevention and control
 evidence-informed practice

Competencies for entry-level Registered Nurse practice (CNO, 2020) addressed in the course:

Clinician: 1.4, 1.7, 1.8, 1.11, 1.21

Professional: 2.2, 2.13

Communicator: 3.5, 3.8

Coordinator: 5.2

Leader: 6.6

Advocate: 7.2

Educator: 8.4

Scholar: 9.8

Interprofessional Competencies (CIHC, 2010) addressed in the course:

Interprofessional communication

Role clarification
 Patient/family/community-centred care

Nursing Informatics Competencies (CASN, 2015) addressed in the course:

- uses relevant information and knowledge to support the delivery of evidence-informed patient care: indicators 1, 2
- uses ICTs in accordance with professional and regulatory standards and workplace policies: indicators 1, 5
- uses ICTs in the delivery of patient/patient care: indicators 1, 3

How this course will contribute to your development as a professional nurse:

Incorporating previous knowledge of health assessment, students learn how to safely administer medications by various routes in accordance with the standards for medication administration set by the College of Nurses of Ontario (CNO). Students begin developing knowledge and skill in the use of the electronic medication administration record (eMAR) which allows for comprehension, interpretation, and enactment of medication orders alongside their own assessments of simple to more complex patient situations.

Course Materials

Required:

- o College of Nurses of Ontario Practice Standards (2019). www.cno.org
- o 8 fi [[i]XY'cZgh XYbhdjWc]W
- o Astle, B.J., & Duggleby, W. (Eds.) (2019). *Canadian fundamentals of nursing* (6th ed.). Toronto, ON: Elsevier Canada.
- o *Undergraduate Student Information Site*
<https://uwoca.sharepoint.com/sites/NursingUndergraduateInformation?e=1%3A9bcb11eb675d42f1867e859267a302ae&CT=1690304572539&OR=OWA-NT&CID=d6022dc4-883c-f129-18eb-4f2f5576da36>
- o Lab kit, purchased through the UWO Bookstore.
- o Uniform, name tag, watch, & stethoscope are required. Please refer to the Undergraduate Student Information Site for more information on the dress policy.

Methods of Evaluation

all medication quizzes are 5 questions in 10 minutes
All quizzes are hard copy and completed at the beginning of the lab

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@U'	=bhfUj Ybci g'a YX]W]h]cbg' =	
@U'	=bhfUj Ybci g'a YX]W]h]cbg' =	
@U'	Gi VVhU]bYci g'a YX]W]h]cbg	
@U'	=bhfUa i gW`Uf'a YX]W]h]cbg	
>Ub' Cf A Uf'	=] h\YfUdma cXi Y'UbU`hYgh	

Medication Administration Lab Schedule

FW23

Rotation 1 January 9-February 16 **Room 301**

Date	Top	Course Concept	Course Goals
Lab 1 January 9	Introduction to Medication Administration	Clinical judgment Infection prevention & control	1, 2, 3
Lab 2 January 11	Oral Medication Administration 1 <i>Practice questions to be submitted</i>	Clinical judgment Infection prevention & control	1, 2, 3
Lab 3 January 16	Oral Medication Administration 2	Clinical judgment Infection prevention & control	1, 2, 3
Lab 4 January 18	Intravenous Medication Administration (1) Primary lines <i>Quiz 1-oral medication dosage</i>	Clinical judgment Infection prevention & control Evidence -informed practice	2, 3, 4, 5, 6, 7
Lab 5 January 23	Intravenous Medication Administration (2) secondary medications <i>Practice questions to be submitted</i>	Clinical judgment Infection prevention & control Evidence -informed practice Health assessment	2, 3, 4, 5, 6, 7
Lab 6 January 25	Intravenous Medication Administration (3) <i>Final test to be completed in the Intravenous Therapy self-directed learning module on Feb.1 by 2100</i>	Clinical judgment Infection prevention & control Evidence -informed practice Health assessment	1, 2, 3, 4, 5, 6
Lab 7 January 30	Intravenous Medication Administration (4) <i>Quiz 2- IV dosage calculations</i>	Clinical judgment Infection prevention & control Evidence -informed practice Health assessment	2, 3, 4, 5, 6, 7
Lab 8 February 1	Subcutaneous Medication Administration (1)	Clinical judgment Infection prevention & control Evidence -informed practice Health assessment	1, 2, 3, 4, 5, 6

Lab 9
February 6

Medication Administration

N2500

2023-24

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professional accountability of the nurse administering medications will be discussed. Students will learn about various practice standards and best practice guidelines used in the safe medication administration. Ethical considerations will also be discussed. Students will be taught how to correctly calculate medication dosages and develop the necessary psychomotor skills required for safe, competent medication administration, keeping in mind physical, psychosocial, and cultural factors.

Course Weight & Delivery: 0.125FCE, Lab, 4 hours/week

Course Learning Outcomes

Students will:

8. develop knowledge of the professional responsibilities of the nurse when students will:

indicators 1, 5

uses ICTs in the delivery of patient/patient care: indicators 1, 3

How this course will contribute to your development as a professional nurse:

Incorporating previous knowledge of health assessment, students learn how to safely administer medications by various routes in accordance with the standards for medication administration set by the College of Nurses of

demonstrate safety and competence in practice

complete all assignments by the due date

attain cumulative average of 90% on all medication administration quizzes

complete and submit weekly clinical worksheet, as required

Title: Medication Quizzes (5 total)

(relates to course learning outcome #3)

Due: In-class during labs 3, 6, 8, 10, & 12

The purposes of the quizzes are for students to:

- demonstrate accuracy with dosage calculations
- demonstrate knowledge of CNO practice standards
- demonstrate clinical judgment related to medication administration.

Full Description

Students write five short medication quizzes. A 90% *cumulative* average on all quizzes is required to achieve a satisfactory grade in the course. There are **no** opportunities for rewrites. In keeping with the NCLEX examination, calculators may be used.

Title: Intravenous Therapy Final Test

(relates to course learning outcomes #1, 2, 4)

Due: Jan 31, 2024, by 11:55 pm (1st round)

Due: Mar. 20, 2024, by 11:55 pm (2

****Please pay CAREFUL attention to the lab schedule: there are two rotations so be sure to look at the dates. There are two lab spaces in use for this course (301 & 307) and it is important that you prepare for the correct topic as activities differ between rooms at times (weeks 8 & 11). Please ensure you follow the correct schedule.***

LAB SCHEDULES: Rotations 1 & 2

Rotation 1: January 9-February 15 Room 301

Date	Topic	Course Concept	Course Goals
Lab 1	Introduction to Medication Administration	Clinical judgment Infection prevention & control	1, 2, 3
Lab 2	Oral Medication Administration 1 <i>Practice questions to be submitted</i>	Clinical judgment Infection prevention & control	1, 2, 3
Lab 3	Oral Medication Administration 2 <i>Quiz 1-oral medication</i>	Clinical judgment Infection prevention &	1, 2, 3
Lab 4	Intravenous Medication Administration I Primary lines <i>Practice questions to be submitted</i>	Clinical judgment Infection prevention & control Evidence -informed practice	2, 3, 4, 5, 6, 7
Lab 5	Intravenous Medication Administration II Secondary medications	Clinical judgment	

Rotation 2: February 2

<https://uwoca.sharepoint.com/sites/NursingUndergraduateInformation?e=1%3A9bcb11eb675d42f1867e859267a302ae&CT=1690304572539&OR=OWA-NT&CID=d6022dc4-883c-f129-18eb-4f2f5576da36>

Attendance

Attendance in the lab is **mandatory**

Re-submission of Previously Graded Material

Without the explicit written permission of the instructor, you may not submit any academic work for which credit has been obtained previously, or for which credit is being sought, in another course or program of study in the University or elsewhere.

Religious Accommodation

When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request (in writing) any necessary academic considerations at least two weeks prior to the holiday to the academic counsellors in their Home Department. Additional information is provided in the [Western Multicultural Calendar](#).

Academic Accommodation

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. Students with ongoing accommodation needs within this course are also encouraged to contact accessible education which prov

Electronic Devices

Electronic devices are not permitted in the laboratory setting. Mobile phones and laptops are not necessary for lab activities. Calculators may be used if they are basic, non-programmable devices. **Mobile phones may not be used in place of a calculator.**

Mental Health