

LAB PACKAGE #1

Welcome to the lab portion of Pharmacology for nurses NURS 2810! These labs are designed to teach you how to safely and effectively prepare and administer medications, and how to accurately calculate medication dosages. During lab sessions you will have the opportunity to observe and practice medication administration techniques, and be given the opportunity to complete scenarios in the simulation lab. There will some opportunity to review questions from the dosage calculation workbook during lab sessions, but remember that there will be a weekly online adobe connect session on Wednesday from 1-2 to review dosage calculation issues. The webCT site also include many additional resources to assist your learning i.e. lecture videos, critique videos, math resources, mosby skills videos etc. Please access these as often as necessary to assist your learning. You will also need to ensure that you access the lab during IPR hours regularly to maintain your medication administration & preparation skills.

Lab package #1 includes:

Weeks 2, 3 & 4 learning objectives
Weeks 2, 3 & 4 Learner preparation
Drug
Process for formal critique
Patient Profiles
Medication Administration Records (MARs) for critique 1 & 2

Please note: An additional online learning module is included in this course to assist you to work through the Dosage Calculation Workbook...ensure that you have completed **both** the **Pickar** assignments and the posted **lab package** for each lab session.

If you are struggling with the dosage calculations please ensure that you contact me immediately

In order to use the supervised practice lab times effectively, it is *very* important that you come to labs prepared. This lab package will outline what preparation is expected. You will refer to lab package #1 for weeks 2, 3 & 4. Ensure that you have purchased the following:

Fundamentals by Potter & Perry Dosage Calculations 2nd Canadian Edition Mosby's drug guide for Nurses 9th ed.



Weeks #2, 3 & 4

Oral, topical, inhaled and sublingual medication preparation, administration and documentation

Learning Objectives: At the end of the Session #1 students will successfully demonstrate ability to:

- 1. Design and deliver health teaching to clients related to their specific learning needs related to oral, topical, inhaled and sublingual medication regime
- 2. Comply with the principles and legalities of medication administration related to oral, topical, inhaled and sublingual medication
- 3. Think critically when solving problems related to mathematical calculations for oral, topical, inhaled and sublingual medication
- 4. Demonstrate accurate calculation, administration and documentation of oral, topical, inhaled and sublingual medications.

Learner Preparation:

- Read Potter & Perry pp. 676 721
- Wk 1 Pickar ch 1 5 (hyperlinked on "outline" pg on webCT)
- Wk 2 & 3 Pickar ch 6 8
- Wk 4 Pickar ch 9. 10 & 12
- View lecture #1 (hyperlinked on "outline" pg on webCT)
- View critique video (hyperlinke d "outline" pg on webCT)
- Watch Mosby videos

Learning activities during Lab

- Watch demonstration
- Supervised practice
- Simulation

Adobe Connect Session – Wed 1-2

- Pharm theory review
- Dosage calculation tutorial

DRUG CLASSIFICATIONS - DRUG CARDS

By understanding each of the classifications, you will be able to apply this knowledge to many of the medications in that family of drugs. Begin to research the medications that you will be responsible for during the 3 formal critiques this semester (see attached MAR). You should also notice that these medications are some of the more commonly administered on your clinical unit.

A drug card should be complete for each of these classifications. You will be asked to discuss them during your formal critique.

Classification Action Indications Adverse effects Contraindications
Nursing
implications/teaching

The safe dosage range for each of these drugs
Onset, peak and duration

Critique

This is the process for Preparation & Administration of medications that you will demonstrate during your first formal critique – also watch the critique video so you know what to expect.

- Critical thinking drug classification, indication, nursing assessments (vital signs, pain, weight, lab work, blood sugar, swallowing ability, etc)
- Verify Physician/Nurse Practitioner order with MAR for transcription accuracy by checking for signature on MAR.(If the medication is hand written then you must verify the accuracy of the order directly with the chart)
- Locate medication.
- First check of 8 R's- right pt, right drug, right dose, right route, right time, right frequency, right site, right reason(checking MAR with medication) **remember right site is not applicable for oral medications
- Dosage calculation
- Allergy assessment
- Second check 8 rights (MAR to medication)
- Pour medication
- Third check of 8 rights (total 8 R's x 3 checks =24) MAR to medication
- Recheck dosage calculation
- Bring health record # / unique # to bedside
- At bedside verbally ID client and check allergy and unique# with armband
- Health teaching in relation to medication reasons/rationale, side effects etc
- Administer medication
- Document on MAR (time, date, dose & route)

Pharm Lab Critique Oral/Topical/Inhalation/eye drop

Name Date
Pass/Fail
Critical thinking:
Mechanism of action
Onset/peak/duration
Side effects/adverse reactions
Dight Detions
Right Patient Bight Medication
Right Medication Right Dose
Right Route Right Time
Right Frequency Right Reason
Right Site
Dose Calculation
Allergy check
Check MAR verification
Right Patient
Right Medication
Right Dose
Right Route
Right Time
Right Frequency
Right Reason
Right Site
1116111 × 2110
Pour medication appropriately
Right Patient
Right Medication
Right Dose
Right Route
Right Time
Right Frequency
Right Reason
Right Site
E Company of the Comp
Copy unique #
Check unique # to patients wristband & rechecks allergy
Documentation: Date/time/dose/signature
Documentation. Date/unic/uose/signature

Meet the patients that you will be caring for this semester. Please ensure that you are familiar with their diagnosis and history as you will need to make decisions regarding medication administration based on this information.

Mr. Colin Mitchel

Mr. Mitchel is a 53 year old man admitted to hospital with hypertension. He has a history of TIA's and Atrial Fibrillation. He weighs 81kg. Mr. Mitchel has been married to Carol Mitchel for the last 25 years. They have a daughter Christine 23 and a son Derek 21 both in university. Mr. Mitchel has been experiencing an increased level of stress and anxiety as he lost his job at GM 2 years ago when they downsized. He was unable to finish high school, and has held the same job since he was 17 years old. He is concerned that his children may have to leave school early and that he may lose the house that his children grew up in.

Current Status: Bp 148/88, Pulse 90 irregular, c/o headache rates 7out of 10, alert and orientated X 3.

Mr. Robbie Robertson

Mr. Robbie Robertson is a 68 year old man admitted with UTI and diabetes. He has a past medical history of IDDM for the past 10 years, an MI 2 years ago and CHF. He weighs 78 kg. Mr. Robertson has lived with his partner for the last 30 years. He has no children, but 2 golden retrievers. He is a retired school teacher.

Current Status: Gluc. 5.3, urine cloudy, c/o burning when voiding, chest clear, denies SOB.

Mrs. Anita Smith

Mrs. Anita Smith is a 54 year old woman admitted to the hospital with end-stage carcinoma of the breast with mets to bone and lung. She had a left mastectomy 3 years ago. Her weight is 50kg. Hoping to find a job, Mrs. Smith moved to Ontario from British Columbia a year ago. She has not worked for 7 years due to various health issues. She appears malnourished, has no family support and has just lost her apartment as she was unable to pay the rent.

Current Status: Conditional terminal, bedridden, denies pain, no BM X 3 days, congested cough.

The following pages are your patients' PO, IM & SQ medication a the pages for all 3 pages to practice with in the lab. These will be your formal critique #1 & #2.			_
Page 1 of 1 PATIENT IDENTIFICATION NAME: MITCHEL, COLIN UI# 07-5151	MEDICATI	ON ADMINSTRATIO	N RECOR
VERIFIED BY:			
ALLERGIES: NKA	TIME	DATE	
SCHEDULED MEDICATIONS			
DRUG: RAMIPRIL (ALTACE) START: 19/09/11 STOP:	0900		
ROUTE: PO FREQUENCY: daily DIRECTIONS: HOLD FOR K > 5.0 OR CR > 150 ORD. DR. JONES, NORA NURSE:			
DRUG: CARDIZEM CD (DILTIAZEM) STOP: DOSE: 180mg ROUTE: PO FREQUENCY: daily DIRECTIONS:HOLD IF HR< 55 OR SYSTOLIC B/P <100mmHg ORD. DR. JONES, NORA NURSE:	0900		
DRUG: WARFARIN START: 19/09/11	1600		
(COUMADIN) STOP: DOSE: 3mg FOR NEXT 2 DAYS THEN REASSESS ROUTE: PO FREQUENCY: daily DIRECTIONS: INR Q TUES/THURS/SUN ORD. DR. JONES, NORA NURSE:			
DRUG: ATORVASTATIN CALCIUM START: 19/09/11 (LIPITOR) STOP:	2200		
DOSE: 40mg ROUTE: PO FREQUENCY: QHS DIRECTIONS: ORD. DR. JONES, NORA NURSE:			

Page 1 of 1	ATIENT IDENTIFICATION	MEDICATION ADMINSTRATION RECORD			
NAME: MITCHEL, CO UI# 07-5151	DLIN				
	VERIFIED BY:				
ALLERGIES: NKA					
	DDN MEDICATIONS	DATE/TIME			
	PRN MEDICATIONS	+ + + + + + + + + + + + + + + + + + + +			
DRUG: DIMENHYDR (GRAVOL, ASTI DOSE: 50 mg					
ROUTE: IM DIRECTIONS:	FREQUENCY: Q4H prn				
ORD. DR. JONES, NO.	RA NURSE:				
	PHEN 300mg WITH START: 19/09/11 AND 15 mg CAFFIENE STOP: ATASOL 30'S, T3)				
ROUTE: PO DIRECTIONS:	FREQUENCY: Q4H prn				
ORD. DR. JONES, NO.	RA NURSE:				
DRUG:	START: STOP:				
DOSE: ROUTE:	FREQUENCY:				
DIRECTIONS: ORD.	NURSE:				
DRUG:	START: STOP:				
DOSE: ROUTE:	FREQUENCY:				
DIRECTIONS: ORD. DR.	NURSE:				

Page 1 of 2 PATIENT IDENTIFICATION					
NAME: ROBERTSON, ROBBIE UI# 07-5432	MEDICATION ADMINSTRATION RECORD				
VERIFIED BY:					
ALLERGIES: CODEINE	TIME	DATE			
SCHEDULED MEDICATIONS					
DRUG: HUMULIN N START: 19/09/11 (HUMULIN N, NOVOLIN N) STOP:	0730				
DOSE: 13 UNITS ROUTE: SC FREQUENCY: QAM DIRECTIONS:					
ORD. DR. JONES, NORA NURSE:					
DRUG: FUROSEMIDE START: 19/09/11 (LASIX, NOVO FUROSEMIDE) STOP:	0900				
DOSE: 40 mg ROUTE: PO FREQUENCY: QAM DIRECTIONS: LYTES WEEKLY					
ORD. DR. JONES, NORA NURSE:					
DRUG: POTASSIUM CHLORIDE START: 19/09/11	0900				
(SLOW K) STOP: DOSE: 1 TAB ROUTE: PO FREQUENCY: BID	1700				
ORD. DR. JONES, NORA NURSE:					
DRUG: NITROGLYCERIN PATCH O.4 mg START: 19/09/11	0900				
(NITRO DUR, NITROPATCH) STOP: DOSE: 0.4 mg ROUTE: TOP FREQUENCY: daily	0,000				
DIRECTIONS: ORD. DR. JONES, NORA NURSE:					
DRUG: NITROGLYCERIN PATCH O.4 mg (NITRO DUR, NITROPATCH) START: 19/09/11 STOP:	2200				
DOSE: ROUTE: TOP FREQUENCY: QHS DIRECTIONS: REMOVE PATCH AT HS					
ORD. DR. JONES, NORA NURSE:					

Page 2 of 2 PATIENT IDENTIFICATION NAME: ROBERTSON, ROBBIE UI# 07-5432	MEDICAT	TION ADMINST	FRATION R	RECORI
VERIFIED BY: ALLERGIES: CODEINE	TIME	DATE		
SCHEDULED MEDICATIONS				
DRUG: HUMULIN R START: 19/09/11 (HUMULIN R, NOVOLIN R) STOP: DOSE: SLIDING SCALE ROUTE: SC FREQUENCY: AC MEALS & HS	0730			
IF GLUCOSE = < 8.0 NO UNITS 8.1-10.0 2 UNITS 10.1-12.0 4 UNITS 12.1-14.0 6 UNITS 14.1-16.0 8 UNITS 16.1-18.0 10 UNITS DIRECTIONS: IF >18 CALL MD ORD. JONES, NORA NURSE:	1130			
	1630			
	2200			
DRUG: AMOXICILLIN START: 19/09/11 (AMOXIL,APO-AMOXI,TRIMOX) STOP: DOSE: 500 mg	0600			
ROUTE: PO FREQUENCY: Q8H DIRECTIONS: TAKE ON AN EMPYT STOMACH ORD. JONES, NORA NURSE:	1400			
	2200			
DRUG: START: STOP: DOSE:				
ROUTE: FREQUENCY: DIRECTIONS: ORD. NURSE:				

Page 1 of 1 PA NAME: ROBERTSON, I UI# 07-5432		MEDI		N ADMINST ECORD	RATION	N	
ALLERGIES: CODEIN	VERIFIED BY:						
		DATE/TIME					
	PRN MEDICATIONS						
DRUG: ACETAMINOPI (TYLENOL, ATASO DOSE: 1-2 TABS ROUTE: PO DIRECTIONS: ORD. DR. JONES, NOR	OL, ABENAL) STOP: FREQUENCY: Q4H prn						
DRUG: MEPERIDINE F	PETHIDINE) STOP: FREQUENCY: Q4-6H prn						
DRUG: DOSE: ROUTE: DIRECTIONS: ORD. DR.	START: STOP: FREQUENCY: NURSE:						
DRUG: DOSE: ROUTE: DIRECTIONS: ORD. DR.	START: STOP: FREQUENCY: NURSE:						
DRUG: DOSE: ROUTE: DIRECTIONS: ORD. DR.	START: STOP: FREQUENCY: NURSE:						

Page 1 of 1 PATIENT IDENTIFICATION				
NAME: SMITH, ANITA UI# 07-6794	MEDICATION ADMINSTRATION RECORD			
VERIFIED BY:				
ALLERGIES: PENICILLIN	TIME	DATE		
SCHEDULED MEDICATIONS				
DRUG: ENOXAPARIN (LOVENOX) START: 19/09/11 STOP: DOSE: 1 mg/KG	0900			
ROUTE: SC FREQUENCY: BID DIRECTIONS: INR QMONTHLY				
ORD. DR. SMITH, WILL NURSE:	2200			
	0900			
DRUG: DIOVOL SUSPENSION (GELUSIL, MAALOX, RULOX) START: 19/09/11 STOP:	1300			
DOSE: 2 TSP	1800			
ROUTE: PO FREQUENCY: PC MEALS & HS DIRECTIONS: ORD. DR. SMITH, WILL NURSE:	2200			
DRUG: DOCUSATE SODIUM START: 19/09/11 (COLACE, REGULEX, SOFLAX) STOP:	0900			
DOSE: 100 mg ROUTE: PO FREQUENCY: BID				
DIRECTIONS: ORD. DR. SMITH, WILL NURSE:	2200			
DRUG: LORAZEPAM START: 19/09/11				
(ATIVAN) STOP:	0600			
DOSE: 1 mg ROUTE: SL FREQUENCY: TID	1400			
DIRECTIONS:	2200			
ORD. DR. SMITH, WILL NURSE:				
DRUG: HYDROMORPHONE START: 19/09/11	0200			
(DILAUDID) STOP:	1000			
ROUTE: PO FREQUENCY: Q4H DIRECTIONS:	1400			
ORD. DR. SMITH, WILL NURSE:	1800 2200			

Page 1 of 1 PATIENT IDENTIFICATION NAME: SMITH, ANITA UI# 07-6794 VERIFIED BY:	MEDICATION ADMINSTRATION RECORD				
ALLERGIES: PENICILLIN	DATE/TIME				
PRN MEDICATIONS	DATE/TIVE				
DRUG: DIMENHYDRINATE (GRAVOL, ASTRA, SABEX) DOSE: 50 mg ROUTE: IM FREQUENCY: Q4H prn DIRECTIONS: ORD. DR. SMITH, WILL NURSE:					
DRUG: HYDROMORPHONE START: 19/09/11 (DILAUDID) STOP: DOSE: 2-4 mg ROUTE: SQ FREQUENCY: Q2H prn DIRECTIONS: FOR BREAKTHROUGH PAIN ORD. DR. SMITH, WILL NURSE:					
DRUG: ARTIFICIAL TEARS START: 19/09/11 STOP: DOSE: ii gtts ROUTE: OU FREQUENCY: TID prn DIRECTIONS: ORD. DR. SMITH, WILL NURSE:					
DRUG: START: STOP: DOSE: ROUTE: FREQUENCY: DIRECTIONS: ORD. DR. NURSE:					
DRUG START: STOP: DOSE: ROUTE: FREQUENCY: DIRECTIONS: ORD. DR. NURSE:					

