

A. GENERAL INFORMATION:

Program:	Dental Hygiene
Course:	Pharmacology
Course Number:	111-333-AB
Day and Time:	Wednesday 13:30-16:30
Classroom Number:	SE-222
Ponderation:	3-0-3
Credits:	2
Competencies:	Intermediate competencies: 00LB, 00LC, 00LE, 00LF, 00LJ, 00L9
Prerequisites:	All first year Dental Hygiene courses
Semester:	Fall 2016
Teacher's Name:	Anila Hasko
Office, Telephone & Email:	SE-217, 514-457-6610 (5089), anila.hasko@johnabbott.qc.ca , MIO
Office Hours:	As posted or by appointment

B. INTRODUCTION:

This course will introduce the students to the science of pharmacology where the effects of pharmaceutical as well as natural herbal products on preventive and curative treatments will be taught. The students will investigate the interactions of prescribed, over the counter medications, and natural herbal products. They will learn the importance of gathering accurate personal, medical and dental information to complete the client's health history. They will also learn how to evaluate the information in order to implement risk factors associated with interactions of prescribed, over the counter medications, and natural herbal products. The knowledge will prepare the students for interaction with clients in Clinic I, II and III.

By the end of this course the student will *acquire the ability to apply the relevant connections between health history and dental hygiene treatments*. This ability will be incorporated into the clients' dental hygiene treatment plan when the client is treated in Clinic I, II, III. The following 6 competencies are introduced:

00LB-*Establish connection between health history and dental hygiene treatments.*

00LC-*Detect oral diseases.*

00LE-*Be able to communicate in a professional manner with a client and the work team.*

00LF-*Establish connections between nutrition and oral health.*

00LJ-*Educate the client preventive measures in relation to oral health.*

00L9-*Perform administrative tasks in relation with the job environment.*

This course incorporates evidence-based practice: an approach where clinical expertise is blended with the highest quality research while taking into account the client's needs and preferences. The students will use evidence-based practice in all aspects of the course.

The **Comprehensive Assessment (CA)** requires graduating students to demonstrate the integration of acquired competencies within the Dental Hygiene program. In order to graduate, the student is required to successfully complete the fifteen elements of the CA during the fifth and sixth semesters.

D. EVALUATION PLAN:

Theory	Value	Ministerial Objectives
Quiz # 1 (week 5)	15%	1, 2
Quiz # 2 (week 10)	15%	1, 2, 3
Quiz # 3 (week 14)	15%	1,2, 3
Final exam (during exam week)	25%	1, 2, 3, 4
Drug cards (50% due week 9; remainder week 15)	15%	1, 2, 3, 4
Interview (week 6)	10%	1, 2, 3
Glossary/Class Forum (weekly post on Moodle with reference to assigned journal articles or classroom discussions)	5%	1, 2, 3, 4

*** Glossary/Class Forums – 5 marks** earned for contributing to each and every assigned Class Forum. Final course competency assessment is incorporated within the theory sections of the course evaluation.

The student must attain a passing grade (**60%**) of the evaluation section stated above in order to pass Pharmacology course, otherwise a maximum grade of **55%** will be given. Classroom and forum participation is ongoing throughout the semester. Deadlines for all assignments must be respected.

- **Deadlines for all assignments must be respected.**
- **Late submission may constitute failure of that assignment.**
- **For late assignments, there will be a 5% deduction in the assignment grade for every day the assignment is late.**

E. COURSE CONTENT: (tentative schedule)

Week	Topic	Chapter(s)
1	Introduction, course outline &	Chapter 1
2	Classification of Drugs and Drug Action (Pharmacokinetics)	Chapter 2
3	Routes of drugs administration, factors that alter drug affects , adverse reactions	Chapter 2, Chapter 3
4	Clientele-Geriatric (review for quiz 1)	
5	Quiz 1 - 15%	
6	Interview presentations 10%	
7 Anti-	Medication in dentistry - used by Dental	Chapter 7 (Antibiotics),

Infective agents	clients Sections: Penicillin, Erythromycin, Tetracycline and Clindamycin Focus attention on: adverse reaction, drug interactions and uses	Prophylactic indications, Antibiotic Prophylaxis used in Dentistry Chapter 8 (Antifungal/Viral agents)
8 Analgesics	Medication in dentistry - used by Dental clients ASA NSAIDS (spec. Ibuprofen and Acetaminophen) Sections... Morphine, Codeine, Propoxyphene Focus attention on: adverse reaction, drug interactions and uses	Chapter 5 (NSAIDS/Analgesics - Nonnarcotic) Chapter 6 (Analgesics - Narcotics) Dental uses of OPIOIDS Chapter 26 (Substance Abuse)
9	Continuation of Weeks 7 and 8 (Drug cards due ½ of them)	
10	Quiz 2 - 15%	
11 Anti-anxiety agents & anti-depressants	Medication in dentistry - used by Dental clients Benzodiazepines, Pharmacologic effects Focus attention on: adverse reaction, drug interactions and uses	Chapter 11 Anti-anxiety agents Special considerations and Cautions Chapter 17 Psychotherapeutic agents (SSRI)
12 Cardiovascular agents	Medication in dentistry - used Dental clients Antiarrhythmic agents Antianginal drugs Antihypertensive agents Anticoagulant agents Focus attention on: adverse reaction, drug interactions and uses	Chapter 14 Cardiovascular drugs Calcium channel blockers and beta-adrenergic blockers
13 Anesthetics (Topical & Local)	Medication in dentistry - used by Dental clients Focus attention on: adverse reaction, drug interactions and uses	Chapter 9 Topical & Local Anesthetic Darby & Walsh Ch. 40 Wilkins Ch. 37
14	Quiz 3 - 15%	
15 (Pulling it together)	Medication in dentistry - used by Dental clients Hygiene- Related Oral Disorders	Chapter 13 Oral Conditions and their Treatment
	Drug cards are due (TBA) 15%	
	Final exam during exam week 25%	