

Dental Pharmacology

DHY 121

Spring 2020

Number of Credits: 2 (8 weeks)

Office: online

Days Class Meets: online

Contact Phone: 517-250-7003

Meeting Times: arranged

Contact Email: guenthepatricid@jccmi.edu

Location: online

Office Hours: by appointment

Instructors: Patricia Guenther, RDH, MA

Online: yes

Course Description

Classifications and varieties of drugs, pharmacologic effects, adverse reactions, usual indications and contraindications. Discussion of drugs utilized to treat common diseases. Pharmacokinetics of local and general anesthetic agents and their use.

Prerequisite(s)

Prerequisites: DHY 111, 112, 113, 114

Co-requisites: None due to COVID-19

Course Goals

1. Evaluate the human physiology and importance of drug safety and use in the dental practice.
2. Compare the classifications and varieties of drugs, pharmacologic effects, adverse reactions, usual indications and contraindications.
3. Formulate a healthy and ethical perspective for drug usage in dental procedures.

Associated Program Competences with Evaluation Methods:

- 3.2:** Provide quality, safe and comfortable dental hygiene care for clients with special needs and those from diverse cultural backgrounds. (Exam, Case Studies)
- 5.1 :** Use critical decision making skills to analyze and interpret the assessment data to formulate an accurate dental hygiene diagnosis. (Exam, Case Studies)

Textbook

Applied Pharmacology for the Dental Hygienist, Eighth Edition. Elena Bablenis Haveles. Elsevier, 2020
ISBN: 978-0-323-59539-1

- **Text Book Zero!** *This text is available in a digital format. Please see the links posted on our class Jet Net site. This text is available to rent or purchase in digital format through the JC Bookstore.*

Extras

N/A

Exam Process- Respondus

To protect the fairness and integrity of the exams, students will be required to take exams using Respondus Lockdown Browser and Monitor. This is an online test proctoring software that requires a download to your computer. Training and practice of Respondus technology will be provided in advance of the first exam. A Mac or PC that has a webcam and microphone is required to use Respondus. If you do not have this technology, please contact your instructor right away. Students are expected to complete the Respondus Practice quiz on time. This is to give our IT department time to help troubleshoot issues **before** exam 1 begins. Failure to complete the Respondus quiz on time may result in instructor-initiated drop.

Grading Scale

GPA	GRADE RANGE
4.0	94-100%
3.5	89-93%
3.0	84-88%
2.5	78-83%
*2.0	72-77%
1.5	66-71%
1.0	60-65%
0.5	55-59%
0.0	0-54%

Failure

Students must successfully demonstrate skills learned in this course and receive a grade of 75% (2.0) or higher to progress in the Dental Hygiene Program.

Grading Criteria:

COURSE LEARNING EXPERIENCES:

Unit Quizzes (13)	215
Comprehensive Final (75 points)	75
Weekly Home Work Drop Box Assignments (7 @ 10 points each)	70
Weekly Forums (7 @ 5 points each)	35
Case Study Group Assignment	<u>25</u>
Total Points:	420

COURSE REQUIREMENTS:

Unit Quizzes: (13 quizzes totaling 215 points)

This course will include 13 chapter quizzes.(some are grouped together to equal 7) Each quiz will include only course information covered prior to the assessment. This quiz will be on JETNET. The quiz will be accessible once you submit your homework assignment into the course drop box. Access to the quiz will be shutdown prior to class meeting time. Failure to take a weekly quiz by the beginning of class will result in a zero for that assessment. Further instructions are available on JetNet course site.

Weekly Homework assignments (7 @ 10 points each = 70 points)

This course will consist of 7 class modules. Each module will have instructions detailing activities that will take place for the particular week. Homework assignments need to be completed and submitted to the course site drop box prior to class time. Directions for each module are on JetNet.

Weekly Forums (7 @ 5 points each = 35 points)

Each week a critical thinking question will be posted in a forum. Students must answer the question before seeing other post. Once the answer is posted, student will offer critical feedback to two other students.

Comprehensive Final Examination (75 points)

This course will include a comprehensive final exam. This examinations may include case studies, multiple-choice items, true-false, matching, or short answer. Students will be informed of the general content and nature of test items prior to this examination. Any scheduled exam missed because of an absence must be completed within one week or it will automatically become a zero. It is the student's responsibility to make arrangements with the instructor for a make-up exam.

Group Case Study Project (25 points)

Three groups will be assigned a specific disease. Groups will create a case study involving a fictitious patient that has their assigned disease. The patient will need to be on multiple medications that are taken for their disease as well as other conditions. Groups will create test questions that accompany their case study.

Attendance/Professionalism Policy

Just as in a traditional classroom course, regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course and actively participate *within the first couple days of the term* to validate your enrollment in the course. After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; the accountability lies with you.

This class requires one section per week that is carried out on Big Blue Button. Attendance will be taken and is a required portion of this course. If you miss an online Big Blue Button session fifteen points will be deducted from the overall point total for the course grade.

It is the student's responsibility to officially withdraw from any class that she/he ceases to attend – see the College Calendar for official withdrawal and refund dates. Failure to withdraw will result in the recording of a "0" grade for that course.

COURSE POLICIES:

Rules and regulations:

1. Expect to contribute your share of work toward any teamwork projects and put forth measurable effort to make the teamwork experience a positive one. Teamwork will be evaluated as a part of project grading. Team activity will occur in the BBB break out rooms. Course instructor can monitor the BBB break-out rooms to ensure total participation of team members.
2. The student will be responsible for attaining a 75% or higher on any course assessment.
3. The student will be responsible for reading the assigned chapters and other resources **BEFORE** class each week.
4. The student is expected to demonstrate responsible behavior towards peers and faculty.

Student email and JetNet:

It is the student's responsibility to utilize and check his/her JC email account and JetNet on a **DAILY** basis.

Late Work and Missed Deadlines:

Absence for any reason, including illness or late registration, in no way relieves the student of the responsibility for completing all work in the course. All assignments and projects are due on the dates and times given in the course schedule and syllabus. They are subject to change at the discretion of the course instructor. Each missed due date for class assignments will result in a 5-point deduction, per day, for every day the project is late. Missing a deadline could substantially lower your grade.

****If you foresee difficulty in meeting a deadline for an assignment please meet with your instructor immediately to determine a plan of action to complete your assignment. Assignment completions may be handled on a case by case basis at the discretion of the lead faculty. ****

Incomplete Grade Policy

In order to receive a grade in a Dental Hygiene course, all course learning experiences must be completed by the student. An Incomplete grade may be given by the Lead Faculty when the student has not completed all requirements for the course grade. The Lead Faculty will determine if there is proper cause for giving an "I" rather than a grade. An I/Incomplete grade will be accompanied with a Performance Notice prepared by the Lead Faculty. This form stipulates the reason for the "I" grade and describes the following for changing the "I" to a grade:

- The activities/requirements the student must complete
- The date the requirements must be completed
- The final grade that will be granted if the requirements are completed as stated.
- If the requirements are not fulfilled by the student as stipulated, the student will receive a 0.0/fail grade.

Please refer to Jackson College "Incomplete Grade Policy" for more information:

<https://www.iccm.edu/wp-content/uploads/1003.pdf>

Mandatory Tutoring:

Students enrolled in the Dental Hygiene Program at Jackson College must attain a 75% or higher to proceed each semester and graduate from the program.

If the student's grade falls below a 75% in any aspect of the course, or if the instructor feels that the student would benefit from additional tutoring, the student will be required to coordinate and attend mandatory tutoring with one of the course instructors. Mandatory tutoring sessions are designed to provide appropriate remediation in courses where the student is earning less than a 75%.

- Mandatory tutoring will continue until the student's cumulative course grade is above 75%, or at the discretion of the lead instructor.

- Failure to attend the mandatory tutoring sessions will result in a 2 point deduction from the attendance/professionalism portion of a student's grade.
- Students must bring and use classroom study materials related to the course(s) in which they are being tutored.

Changes to course requirements or schedule:

The instructor reserves the right to modify course content and/or the evaluation procedures as deemed necessary.

Plagiarism/Original Work Policy:

Plagiarism involves using another's work and presenting it as one's own. Examples of plagiarism include, but are not limited to, using information that is not documented accurately and copying another's work and presenting it as one's own. Plagiarism penalties vary according to the instructor, but the minimum penalty is a grade of zero on the assignment. Maximum penalties may include expulsion from the College.

Services for Students with Disabilities:

Reasonable accommodations are provided to qualified students based on current documentation.

Students requiring special accommodations in the Dental Hygiene Program must follow JC protocol in filing proper paperwork with the Center for Student Success. Once the paperwork is approved by the Disability Support Services Officer, accommodations will be communicated to your instructor. The student will need to formally request for special accommodations at the beginning of each semester while a student at JC. Instructors can only provide accommodations with proper documentation from the Center for Student Success. Please refer to <https://www.jccmi.edu/center-for-student-success/accommodations-for-students-with-disabilities/> for more information.

Student Grievance Procedure, Due Process, and Appeals

A student who has a problem with the course or the course instructor should make every attempt to resolve the problem with the course instructor *first*. If the issue remains unresolved, the student should then discuss their concerns with the Dental Hygiene Program Director. If the response is not adequate to the student, the student should then follow the outlined JC policy for student grievances which can be found at the college website: <https://www.jccmi.edu/ombudsman/student-complaint-process/>

INSTRUCTIONAL OBJECTIVES FOR DHY 121 – Pharmacology:

Upon completion of the reading material and lecture and laboratory experiences, the student will be able to:

Chapter 1: Information, Sources, Regulatory Agencies, Drug Legislation, and Prescription Writing

1. Discuss the history of pharmacology and its relationship to the dental hygienist.
2. List where detailed and updated information on medications can be found.
3. Define the ways in which drugs are named and the significance of each.
4. Define generic equivalence and how it is related to drug substitution.
5. Describe the acts and agencies within the federal government designed to regulate drugs.
6. Identify the four phases of clinical evaluation involved in drug approval and the five schedules of drugs.
7. Discuss the history of drug legislation, including:
8. List the five schedules of controlled substances.
9. Explain package inserts and black box warnings.
10. Differentiate between labeled and off-label uses.
11. Explain orphan drugs and drug recalls.
12. Prescription writing. Become familiar with the basics of prescription writing as well as describing the parts of the prescription and prescription label regulations.

Chapter 2: Drug Action and Handling

1. Differentiate dose, potency, and efficacy in the context of the actions of drugs.
2. Explain the pharmacologic effect of a drug.

3. Discuss the major steps of pharmacokinetics: absorption, distribution, metabolism, and excretion.
4. Explain how altering absorption, distribution, metabolism, and excretion can affect clinical pharmacokinetics.
5. Explain how half-life relates to clinical pharmacokinetics.
6. Provide example of factors that may alter the effect of a drug.
7. Summarize the various routes of drug administration and the common dose forms used.

Chapter 3: Adverse Reactions

1. Define an adverse drug reaction and name five categories of reaction.
2. Discuss the risk-to-benefit ratio of the use of a drug for therapeutic effect and its potential adverse reactions.
3. Explain how the toxic effects of drugs are evaluated.
4. Discuss the importance of recognizing adverse drug effects.

Chapter 4: Autonomic Drugs

1. Identify the major components and functional organization of the autonomic nervous system.
2. Discuss the pharmacologic effects, adverse reactions, contraindications, and dental considerations of cholinergic agents which are part of the parasympathetic autonomic nervous system.
3. Discuss the pharmacologic effects, adverse reactions, contraindications, and dental considerations of anticholinergic agents which are part of the parasympathetic autonomic nervous system.
4. Discuss the major neurotransmitters in the sympathetic autonomic nervous system and the importance of receptors.
5. Discuss the pharmacologic effects, adverse reactions, contraindications, and dental considerations of adrenergic agents and list several specific adrenergic agents.
6. Explain the workings of adrenergic blocking agents and neuromuscular blocking agents.

Chapter 5: Nonopioid (Nonnarcotic) Analgesics

1. Describe pain and its purpose and main components.
2. Discuss the classification of analgesic agents and the chemistry, pharmacokinetics, pharmacologic effects, adverse reactions, toxicity, drug interactions, and uses of aspirin.
3. Define the term nonsteroidal antiinflammatory drug and discuss the chemistry, pharmacokinetics, pharmacologic effects, adverse reactions, toxicity, drug interactions, uses, and several examples of these drugs.
4. Discuss the properties, pharmacologic effects, adverse reactions, drug interactions, uses, and dosing of acetaminophen.
5. Explain the disease known as gout and summarize the drugs used to treat it.
6. Explain the disease known as *rheumatoid arthritis* and summarize the mechanism of action of the classes of drugs used to treat it.

Chapter 6: Opioid (Narcotic) Analgesics and Antagonists

1. Explain the classification, mechanism of action, and pharmacokinetics of opioids.
2. List and describe the pharmacologic effects and potential adverse reactions of opioids.
3. Discuss the addiction potential of opioids, including treatment.
4. Name and explain the analgesic actions of the most common opioid agonists.
5. Discuss the actions of and provide examples of the mixed opioids.
6. Summarize the mechanism of action and adverse reactions of tramadol.
7. Apply the use of opioids to dentistry.

Chapter 7: Antiinfective Agents

1. Outline the history and basic principles of infection and its relevance to dentistry, including:
 - a. Define the terms pertinent to a discussion about infection.
 - b. Identify the factors that determine the likelihood of an infection.
 - c. Describe the importance of cultures and sensitivity in relation to infections.
 - d. Discuss the reasons an understanding of "resistance" is important with regard to infections.
2. Summarize the principal indications for the use of antimicrobial agents.
3. Name and describe the major adverse reactions and disadvantages associated with the use of antiinfective agents.

4. Discuss penicillins, macrolides, tetracyclines, cephalosporins—their chemical makeup, properties, mechanisms of action, uses, and potential adverse reactions—and name several specific types of each.
5. Name and describe two other types of antibiotics and antiinfectives, including their chemical makeup, properties, mechanism of action, potential adverse reactions, and uses.
6. Discuss the rationale for the use of antiinfective agents in dentistry.
7. Discuss antimicrobial agents for nondental uses including their pharmacokinetics, mechanism of action, adverse reactions, and spectrum of use.
8. Describe the drugs used to treat tuberculosis and the difficulties this disease presents.
9. Discuss the use of topical antibiotics in dentistry.
10. Summarize the concept and practice of antibiotic prophylaxis in dentistry.

Chapter 8: Antifungal and Antiviral Agents

1. Name several types of antifungal agents and discuss their indications in dentistry and potential adverse reactions.
2. Discuss the use of antiviral agents in the treatment of herpes simplex.
3. Describe the various drugs and drug combinations used to treat acquired immunodeficiency syndrome.
4. Describe the various drugs used to treat chronic hepatitis.

Chapter 11: Antianxiety Agents

1. Discuss the value of patient relaxation in dentistry.
2. Describe the pharmacokinetics, mechanism of action, pharmacologic effects, adverse reactions, drug interactions, medical uses and dental relevance of the benzodiazepines and barbiturates.
3. Name and briefly describe the mechanism of action of the nonbenzodiazepine-nonbarbiturate sedative-hypnotics and the nonbenzodiazepine-nonbarbiturate receptor agonists.
4. Name a melatonin receptor agonist and summarize its actions.
5. Explain the workings of the centrally acting muscle relaxants and how they are used.
6. Name and briefly describe a few of the miscellaneous muscle relaxant agents that can be used.
7. Discuss some general precautions about which the dental practitioner should be aware with the use of antianxiety agents.

Chapter 12: Drugs for the Treatment of Cardiovascular Diseases

1. Identify the dental implications of cardiovascular disease including the contraindications to treatment, vasoconstrictor use, and its relationship to periodontal disease.
2. Describe heart failure and identify drugs commonly used to treat it, including the mechanisms of action, pharmacologic effects, and adverse reactions.
3. Discuss the use of digoxin and the management of dental patients taking it.
4. Define arrhythmia and dysrhythmia and describe how the heart maintains its normal rhythm.
5. Describe the classifications, mechanisms of action, adverse reactions, and uses of antiarrhythmic agents and identify the issues to consider in dental treatment.
6. Define angina pectoris and describe the types of drugs used to treat it; identify the dental implications of these drugs.
7. Define hypertension, describe the categories it is divided into, and identify its treatment with the various types of antihypertensive agents, including:
8. Describe the mechanisms of action, pharmacologic effects, adverse reactions, and uses of the various antihypertensive agents.
9. Identify potential drug interactions and the dental implications of these drugs.
10. Discuss the management of dental patients taking these drugs.
11. Define hyperlipidemia and hyperlipoproteinemia and summarize the types of drugs used to restore cholesterol homeostasis in the body including the dental implications of their use.
12. Describe the role of warfarin in blood coagulation and the potential adverse reactions and interactions associated with its use.
13. Identify several other drugs that affect blood coagulation.

Chapter 13: Drugs for the Treatment of Gastrointestinal Disorders

1. Summarize the most common types of gastrointestinal diseases and their impact on oral health care.
2. Name and describe the types of drugs used to treat gastrointestinal diseases, their uses, adverse

- reactions, drug interactions and any implications to dentistry, including,
- a. Discuss the role of H₂-receptor blockers in the treatment of peptic ulcer disease and gastroesophageal reflux disease.
 - b. Discuss the role of proton pump inhibitors and antibiotics in the treatment of peptic ulcer disease and gastroesophageal reflux disease.
 - c. Describe the role of antacids in the treatment of peptic ulcer disease and gastroesophageal reflux disease.
3. Discuss several miscellaneous gastrointestinal drugs that can be used and their possible side effects.
 4. List the different types of laxatives and know the advantages and disadvantages of each.
 5. List the medications used to treat diarrhea.
 6. Define the term antiemetic and give examples of drugs used to treat vomiting and nausea.
 7. Discuss the medications used to manage chronic inflammatory bowel disease (IBD).

Chapter 14: Drugs for the Treatment of Seizure Disorders

1. Define epilepsy and briefly summarize the various types of seizures.
2. Discuss drug therapy of patients with epilepsy and describe the general adverse reactions to antiepileptic agents.
3. Summarize the pharmacologic effects, adverse reactions, and drug interactions of the main antiepileptics—valproate, lamotrigine, levetiracetam, oxcarbazepine, carbamazepine, and phenytoin.
4. Discuss ethosuximide and benzodiazepines (two miscellaneous antiepileptics) and describe the workings of each.
5. Provide several examples of new types of antiepileptics, including the mechanism of action, indications, and adverse reactions of each.
6. Outline the dental treatment of patients with epilepsy.

Chapter 15: Drugs for the Treatment of Central Nervous System Disorders

1. Name and describe the three categories of functional disorders discussed in this chapter. Outline some basic precautions that the dental health care professional should keep in mind when treating patients with psychiatric disorders.
2. Discuss antipsychotic agents and their mechanism of action as well as the following:
 - a. Identify first generation antipsychotics and their adverse reactions
 - b. Identify second generation antipsychotics, their adverse effects, drug interactions, uses and dental implications.
3. Discuss antidepressant agents, including:
 - a. Describe the mechanism of action and adverse reactions of selective serotonin reuptake inhibitors.
 - b. Describe the mechanism of action and adverse effects of serotonin norepinephrine reuptake inhibitors.
 - c. Describe the mechanism of action, adverse reactions, and drug interactions of the tricyclic antidepressants.
4. Name several other types of antidepressants and their possible adverse reactions and dental implications.
5. List several drugs used to treat bipolar disorder.

Chapter 16: Adrenocorticosteroids

1. Define adrenocorticosteroids and describe how the body releases them.
2. Summarize the classification, administration, mechanism of action, and pharmacologic effects of adrenocorticosteroids.
3. Describe the various adverse reactions and uses of adrenocorticosteroids, including their application to dentistry.
4. List several examples of corticosteroid products and describe the ways in which they are differentiated.
5. List several dental implications to the use of steroids.

Chapter 17: Drugs for the Treatment of Respiratory Disorders and Allergic Rhinitis

1. Summarize the two groups of respiratory diseases.
2. Name and describe the mechanisms of action of several types of drugs used to treat respiratory

- diseases.
3. Discuss the types of drugs used to treat respiratory infections, including the implications to dentistry.
 4. Define allergic rhinitis and describe the dental implications, pharmacologic effects, adverse reactions, and toxicity of antihistamines.
 5. Describe the dental implications, pharmacologic effects, and adverse reactions of the intranasal corticosteroids.
 6. Discuss montelukast, cromolyn sodium, and ipratropium bromide and describe their role in treating allergic rhinitis. Also describe the adverse reactions of ipratropium bromide.
 7. Describe the use of decongestants, including:
 - a. Discuss the pharmacologic effects, adverse reactions, and uses in treating allergies.
 - b. Discuss the use of intranasal decongestants as an alternative to oral decongestants.

Chapter 18: Drugs for the Treatment of Diabetes Mellitus

1. Describe the importance of the hormones released by the endocrine glands in maintaining homeostasis, including:
 - a. Discuss the two primary hormones secreted by the pancreas and their role in relation to diabetes mellitus.
 - b. Define diabetes mellitus and describe the two types of this disease, its complications, and issues involving dentistry, cautions and contraindications in the treatment of patients with diabetes.
2. Describe the systemic complications of diabetes and the evaluation of the dental patient with diabetes. Discuss the goals of therapy and describe the types of drugs used to treat diabetes.
3. Discuss four new drugs being used to treat diabetes and summarize their mechanism of action and possible adverse effects.
4. Discuss the treatment of hypoglycemia.

Chapter 19: Drugs for the Treatment of Other Endocrine Disorders

1. Discuss pituitary hormones, the functions of the anterior and posterior pituitary glands and describe the negative feedback mechanism that takes place in endocrine glands.
2. Provide an overview of the thyroid hormones, conditions known as hypothyroidism and hyperthyroidism and antithyroid drugs.
3. Summarize the major female and male sex hormones and describe several types of hormonal contraceptives.
4. Discuss other agents that affect sex hormone systems.

Chapter 20: Antineoplastic Agents

1. Discuss antineoplastic agents and summarize their use, mechanisms of action, and classification.
2. Describe several adverse drug effects associated with antineoplastic agents.
3. Discuss the dental implications of patients planning to take or actively taking antineoplastic drugs.

Chapter 24: Natural/Herbal Products and Dietary Supplements

1. Discuss why people choose herbal products over traditional medicine.
2. Discuss the federal legislation governing herbal and dietary products.
3. Discuss the safety of herbal and nutritional products and explain the adverse effects associated with their use and their impact on oral health care.
4. Explain the drug interactions associated with herbal products and their impact on oral health care.
5. Discuss the standardization of herbal products and the Good Manufacturing Practice standard introduced by the FDA.
6. Discuss the herbal supplements that are used in oral health care.

Class Meeting Dates	Topic	Reading Assignment Other assignments
Week 1: preparation	Complete prior to class: Homework/Quiz for chapter 1 -3 (25 point quiz) on Jet Net	Chapter 1 -3
Week 1: Big Blue Button Wednesday June 3, 2020	Course Introduction and Procedures Information, Sources, Regulatory Agencies, Drug Legislation, and Prescription Writing Drug Action and Handling Adverse Reactions	
Week 2: preparation	Complete prior to class: Homework/Quiz for chapter 4 (25 point quiz) on Jet Net	Chapter 4
Week 2: Big Blue Button Wednesday June 10, 2020	Autonomic Nervous System	
Week 3: preparation	Complete prior to class: Homework/Quiz for chapter 5 (15 point quiz) on Jet Net Homework/Quiz for chapter 6 (15 point quiz) on Jet Net Homework/Quiz for chapter 7 (15 point quiz) on Jet Net	Chapter 5-7
Week 3: Big Blue Button Wednesday June 17, 2020	Review of chapters 5-7 Non-opioid and Opioid Analgesics Anti-Infective agents	
Week 4: preparation	Complete prior to class: Homework/Quiz for chapter 8 (15 point quiz) on Jet Net Homework/Quiz for chapter 12 (15 point quiz) on Jet Net	Chapter 8 & 12
Week 4: Big Blue Button Wednesday June 24, 2020	Antifungal and Antiviral Agents Drugs for the treatment of Cardiovascular disease	
Week 5: preparation	Complete prior to class: Homework/Quiz for chapter 11 &13 (15 point quiz) on Jet Net Homework/Quiz for chapter 14 (15 point quiz) on Jet Net	Chapter 11, 13 & 14
Week 5: Big Blue Button Wednesday July 1, 2020	Antianxiety Agents Drugs for the treatment of Gastrointestinal Disorders Drugs for the Treatment of Seizure Disorders	
Week 6: preparation	Complete prior to class: Homework/Quiz for chapter 15 &17 (15 point quiz) on Jet Net Homework/Quiz for chapter 18 (15 point quiz) on Jet Net	Chapter 15, 17 & 18
Week 6: Big Blue Button Wednesday June 8, 2020	Drugs for the Treatment of Central Nervous System Disorders Drugs for the Treatment of Respiratory Disorders and Allergic Rhinitis Drugs for the Treatment of Diabetes Mellitus	
Week 7: preparation	Complete prior to class: Homework/Quiz for chapter 16 &19 (15 point quiz) on Jet Net Homework/Quiz for chapter 20 & 24 (15 point quiz) on Jet Net	Chapter 16, 19, 20, 24

Week 7: Big Blue Button Wednesday July 15, 2020	Adrenocorticosteroids Drugs for the Treatment of Other Endocrine Disorders Antineoplastic Drugs Natural/Herbal Products and Dietary Supplements	Case studies due in drop box by Wednesday, July 15, 2020
Week 8:	Review for final exam (Materials located on JetNet) Final exam posted Wednesday, July 22	Final exam (75 points) JetNet

DHY 121 – Pharmacology: Syllabus Agreement Statement Spring 2020

By signing this form, I am indicating that I have read the entire syllabus for **DHY 121 – Pharmacology:** course for the Spring 2020 semester. I am aware of the course requirements, professional expectations, policies and procedures, the course schedule and the assignment deadlines. I have asked any questions I have regarding the information contained in the syllabus and my questions have been answered. I understand that I will be expected to follow the policies and procedures outlined in the syllabus and uphold my personal and professional integrity as a dental hygiene student.

Signed: _____ Date: _____

Print Name: _____