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| Philadelphia University |  PHILADELPHIA UNIVERSITY <small>THE WAY TO THE FUTURE</small> | Approved Date: |
| Faculty: Pharmacy | | Issue: 1 |
| Department: | | Credit Hours:2 |
| Academic Year: 2022/2023 | | Course Syllabus |

Course Information

| Course No. | Course Title | Prerequisite | |
|---|--------------------------------------|--------------------------|-----------------------------------|
| 0520520 | Clinical Pharmacy and Therapeutics 2 | 0520500 | |
| Course Type | | Class Time | Room No. |
| <input type="checkbox"/> University Requirement <input type="checkbox"/> Faculty Requirement <input type="checkbox"/> Major Requirement <input checked="" type="checkbox"/> Compulsory | | <input type="checkbox"/> | <input type="checkbox"/> Elective |

Instructure Information

| Name | Office No. | Phone No. | Office Hours | E-mail |
|------|------------|-----------|--------------|--------|
| | | | | |

Course Delivery Method

| <input type="checkbox"/> Blended <input type="checkbox"/> Online <input checked="" type="checkbox"/> Physical | | | |
|---|-------------|--------------|----------|
| Learning Model | | | |
| Percentage | Synchronous | Asynchronous | Physical |
| 0 | 0 | 0 | 100% |

Course Description

This course focuses on aspects of clinical therapeutic. Students will receive information about important areas in therapeutics. Various clinical cases of different diseases will be discussed each to assess a patient's condition, determine reasonable treatment alternatives, select appropriate therapy (pharmacological and non pharmacological therapy), and monitoring parameters and to justify those choices by utilizing knowledge and skills acquired in pharmacotherapy I. These diseases include upper and lower respiratory infections, meningitis, acne, and CNS disorders.

Course Learning Outcomes

| Number | Outcome | Corresponding Program Outcomes | Corresponding Competencies |
|------------------|---|--------------------------------|----------------------------|
| Knowledge | | | |
| K1 | App | Kp1 | C1 |
| K2 | *To integrate and apply pathophysiologic and pharmacotherapeutic knowledge to develop a drug therapy plan specific for each patient condition taking into account population differences and social determinants and their effect on medical care. *Being the medication expert and properly provide a patient centered care (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans and document activities). | Kp1, Kp2, Kp4, Kp5 | |
| K3 | Be familiar with clinical presentations and the differential lab and physical examinations of different diseases. | Kp1, Kp2 | C1, C2 |
| Skills | | | |
| S1 | Use | Sp2 | C8 |
| S2 | To provide the patient with a comprehensive treatment plan for his condition. | Sp1, Sp4 | C7, C10 |
| S3 | Give patients' appropriate counseling about their non pharmacological and pharmacological therapy. | Sp3 | C9 |
| S4 | Communicate appropriately with patient and medical staff. | Sp3, Sp5, Sp6, Sp8 | C9, C11, C12, C14 |

Learning Resources

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|------------------------------|---|
| Course Textbook | <ul style="list-style-type: none"> • Pharmacotherapy: A Pathophysiologic Approach by: Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod. 11th edition, 2020. • Applied Therapeutics (Koda Kimble and Youngs Applied Therapeutics), 12th, 2018. |
| Supporting References | <ol style="list-style-type: none"> 1. Lippincott, Illustrated Reviews: Pharmacology by Whalen K, 6th edition, 2018. 2. The Pharmacological Basis of Therapeutics by brunton; laurence L. Lazo, Johns S. Parker, Keith L & Alfred Goodman Gillman 11th edition McGraw Hill. ISBN 0-07-142. 3. Data from updated relevant guidelines. |
| Supporting Websites | Philadelphia University e-learning site |
| Teaching Environment | <input checked="" type="checkbox"/> Classroom <input type="checkbox"/> laboratory <input type="checkbox"/> Learning Platform <input type="checkbox"/> Other |

Meetings and Subjects Time Table

| Week | Topic | Learning Method* | Task | Learning Material | |
|-------|--|---------------------|--|--|----|
| 1 | <ul style="list-style-type: none"> Vision and Mission of Faculty of Pharmacy Course Syllabus General Principles (Pharmacy Care and Medication Therapy Management) | Lecture | | <ul style="list-style-type: none"> Vision and Mission of Faculty of Pharmacy Course Syllabus | |
| 1-4 | Antibiotics pharmacology and clinical uses | Lecture | Group Project (Clinical Case Solving) | ** | |
| 4-5 | Antibiotics pharmacology and clinical uses and Upper respiratory tract infections (otitis media) | Lecture | | | |
| 6-7 | Upper respiratory tract infections (pharyngitis and sinusitis) | Lecture (Quiz 1)*** | | | |
| | Midterm Exam | | | | |
| 7-8 | Lower respiratory tract infection (acute bronchitis , pneumonia) | Lecture | | | |
| 9 | Urinary tract infections | Lecture | | | |
| 10-11 | Urinary tract infections | Lecture | | | |
| 11 | Acne | | | | |
| 12 | Asthma | Lecture (Quiz 2)*** | | | ** |
| 13-14 | Asthma | Lecture | | | |
| 14-15 | COPD | Lecture | | | |
| 15 | COPD | Lecture | | | |
| 16 | Final Exam | | | | |

*Includes: lecture, flipped Class, project based learning, problem solving based learning, collaboration learning.

**As illustrated in the references section.

*Quiz 3: TBA

Course Contributing to Learner Skill Development

| Using Technology |
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| <ul style="list-style-type: none"> Using Microsoft office to prepare reports and presentations Using online medical applications/ calculators in solving some clinical problems Using the university's e-learning site as a supporting reference tool and for term works solving |
| Communication Skills |
| <ul style="list-style-type: none"> Clinical case presentation and solving Teamwork and group discussions engagement |

Application of Concept Learnt

- Clinical cases solving

Assessment Methods and Grade Distribution

| Assessment Methods | Grade | Assessment Time (Week No.) | Course Outcomes to be Assessed |
|-----------------------|-------------|----------------------------|--------------------------------|
| Quizzes | % 30 | Continous | K1-K3 S1-S3 |
| Reports and Projects* | % 30 | Continous | K1-K3 S1-S4 |
| Final Exam | % 40 | 16 th week | K1-K3 S1-S3 |
| Total | %100 | | |

* Include: quizzes, in-class and out of class assignment, presentations, reports, videotaped assignment, group or individual project.

Alignment of Course Outcomes with Learning and Assessment Methods

| Number | Learning Outcomes | Corresponding Competencies | Learning Method* | Assessment Method** |
|------------------|--|----------------------------|---------------------------------------|----------------------------|
| Knowledge | | | | |
| K1 | Apply the knowledge obtained from this course to solve treatment problems associated with different diseases. | C3 | Lecture Project based learning | Exams Group project |
| K2 | *To integrate and apply pathophysiologic and pharmacotherapeutic knowledge to develop a drug therapy plan specific for each patient condition taking into account population differences and social determenants and their effect on medical care. *Being the medication expert and properly provide a patient centered care (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans and document activities) | C1, C2, C4, C5 | Lecture Project based learning | Exams Group project |
| K3 | Be familiar with clinical presentations and the differential lab and physical examinations of different diseases. | C1, C2 | Lecture Project based learning | Exams Group project |
| Skills | | | | |

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|-----------|--|-------------------|-----------------------------------|------------------------|
| S1 | Use evidence-based medicine to think critically of different medical cases. | C8 | Lecture Project based learning | Exams Group project |
| S2 | To provide the patient with a comprehensive treatment plan for his condition. | C7, C10 | Lecture Project based learning | Exams Group project |
| S3 | Give patients' appropriate counseling about their non pharmacological and pharmacological therapy. | C9 | Lecture Project based learning | Group project |
| S4 | Communicate appropriately with patient and medical staff. | C9, C11, C12, C14 | Lecture Project based learning | Group project |

*Include: lecture, flipped class, project based learning, problem solving based learning, collaboration learning.

** Include: quizzes, in-class and out of class assignments, presentations, reports, videotaped assignments, group or individual projects.

Course Polices

| Policy | Policy Requirements |
|---------------------------|---|
| Passing Grade | The minimum pass for the course is (50%) and the minimum final mark is (35%). |
| Missing Exams | <ul style="list-style-type: none"> • Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark. • Anyone absent from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the date of the excuse's disappearance, and in this case, the subject teacher must hold a compensation exam for the student. • Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam. |
| Attendance | The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it. |
| Academic Integrity | Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates |

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| | academic integrity, such as cheating, plagiarism (academic theft), collusion, intellectual property rights. |
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Learning Outcomes to be Assessed in this Course

| Number | Learning Outcome | Course Title | Assessment Method | Targeted Performance level |
|--------|---|--------------------------------------|------------------------------|--|
| Sp2 | Identify problems; explore and prioritize potential strategies and design, implement, and evaluate a viable solution. | Clinical Pharmacy and Therapeutics 2 | Case study Objective exam | 50% of students to pass the assigned questions |
| Sp4 | Assure that patient's best interests are represented | Clinical Pharmacy and Therapeutics 2 | Project | 50% of students to pass the assigned questions |

Description of Program learning Outcomes Assessment Method

| Number | Detailed Description of Assessment |
|--------|--|
| Sp2 | 7 multiple questions in the final exam |
| Sp4 | Patient's counseling project consisting of 5 aspects |

Assessment Rubric of the Program Learning Outcomes

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| Sp2 | <p>Each multiple choice question will be allocated one point, totaling 6 points</p> <p>One question allocated for problem identification</p> <p>One question allocated for prioritizing potential strategies for assessment</p> <p>Three questions allocated for designing a suitable care plan</p> <p>a. The goals of pharmacotherapy in the case.</p> <p>b. Nonpharmacological therapies might be useful.</p> <p>c. Creating an individualized, patient-centered care plan including specific drugs, dosage forms, doses, schedules, and durations of therapy.</p> <p>One question for evaluating the follow up and monitoring plan</p> |
| Sp4 | <p>Each aspect will be allocated 2 points, totaling 10 points</p> <p>Five aspects that would assure that patient's best interests are represented which are :</p> <p style="padding-left: 20px;">The minimum information that should be given to the patient:</p> <ol style="list-style-type: none"> 1. Effects of the drug 2. Side effects 3. Instructions 4. Warnings 5. Future consultations |