



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Over-The-counter (OTC) Drugs
2	Course number	1203563
3	Credit hours (theory, practical)	2
	Contact hours (theory, practical)	2
4	Prerequisites/corequisites	Pharmacology-1 (1203462)
5	Program title	Bsc.Pharm + PharmD
6	Program code	
7	Awarding institution	
8	Faculty	Faculty of Pharmacy
9	Department	Biopharmaceutics and Clinical Pharmacy
10	Level of course	4th/5th year
11	Year of study and semester (s)	Fall semester 2015/2016
12	Final Qualification	
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Date of production/revision	January 2016

16. Course Coordinator:

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17. Other instructors:

Dr. Amal Akour
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Office Hours: Everyday 10-11 am

18. Course Description:

Medications that can be bought without prescriptions are known as Over-The-Counter (OTC) Drugs. This course introduces students to the concept of dispensing medications in the pharmacy without medical prescription and self-care. In addition, the course differentiates between cases that requires the referral to the doctor and those that be treated in the pharmacy using OTC drugs and the proper counseling that should be offered to patients.

19. Course aims and outcomes:**A- Aims:**

- 1) To increase students' knowledge of non-prescription products and the monitoring devices used at home and available in the Jordanian market.
- 2) To provide students with the ability to differentiate between circumstances warranting the use of non-prescription products and those for which alternative modes of care are indicated.
- 3)
- 4) To provide students with the ability to recommend specific non-prescription products and/or other modes of care to alleviate specific conditions.
- 5)
- 6) To provide students with the ability to differentiate between rational and irrational use of non-prescription products
- 7) To provide students with practical skills (e.g. use of In-home testing and monitoring devices).
- 8)
- 9) To develop pharmacist-patient communication skills in students.

B-Competencies: by completion of this course student is expected to achieve the following competencies:

1. Recognize pharmacological classes of OTC drugs
2. Identify available originator brands of OTC medicines and their alternative generic products
3. Characterize different dosage forms of OTC medicines and their proper usage
4. Identify different routes of administration of OTC medicines
5. Obtain OTC medicines from their legal and reliable sources
6. Recognize and follow proper storage conditions of OTC medicines
7. Advise patients on proper storage, usage and adherence of dispensed OTC medicines
8. Verify patient's understanding of all instructions related to dispensed OTC medicines
9. Identify over-the-counter medicines and advise patients on their selection and usage
10. Advise patients about the proper use of medical devices and other non-medicinal pharmaceutical products/in-home diagnostic kits
11. Advise patients to seek further medical assistance whenever self-treatment is excluded
12. Consider special needs of patients and act according to them
13. Identify indications, side effects and contraindications of f OTC medicines
14. Identify drug-drug and drug-food interactions of OTC medicines
15. Interview patients to obtain further information about their medical history, use of medicines, drug allergies and any other factors potentially affecting their therapy
16. Advise patients and other health professionals on proper usage of OTC medicines including their strength, frequency, dosage form and route of administration

C- Intended Learning Outcomes (ILOs) and learning skills: Upon successful completion of this course students will be able to ...

A) Knowledge and understanding

- A1) to be able to know the various pharmaceutical and pharmaceutical products available in the community pharmacy without a prescription (i.e. OTC products)
- A2) know for every category the different types and brand names available in the Jordanian market

B) Intellectual skills (cognitive and analytical)

B1) to be able to differentiate between symptoms warranting the supervision of a medical doctor and those that can be self-treated

B2) to be able to recommend a specific OTC product suitable for each symptom presented to the pharmacist

C) Subject specific skills

C1) being able to differentiate between rational and irrational use of OTC products

C2) being able to recommend certain OTC products to the public

C3) being able to provide the proper advice for each product and/or symptom

C4) being able to deal with special populations of patients and provide the necessary counseling (i.e. geriatric patients, cases of comorbidity or polypharmacy)

D) Transferable Skills

D1) develop the skills for using the products properly and transfer these skills to patients

D2) acquire the proper communication skills needed to deal with patients in the community pharmacy settings during an OTC drug therapeutic dialogue

D3) the use of internet professional sites to extract information about OTC drugs, symptoms of minor ailments and recent developments in this field.

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction	1	MW+AA			1,2
Self-care and Non-prescription Pharmacotherapy	1	MW+AA	A+C		1
Labeling and packing issues	2	MW+AA	A,B,C		1
Diagnosis and History taking in the Pharmacy	2-3	MW+AA	B1,B2,C1,C2,D		1
In home testing and monitoring kits	3-4	MW+AA	C3,D1	assignment	1,demonstration
<u>Internal Analgesics and Antipyretic Products</u>	5-6	MW+AA	A,B,C,D		1
External Analgesic Products	7	MW+AA	A,B,C,D		1
Treatment of Acne	8	MW+AA	A,B,C,D		1
Drugs used in acid-peptic diseases (H ₂ antagonists, PPIs, mucosal protective agents)	9-10	MW+AA	A,B,C,D	Self reading	1
Laxatives	11	MW+AA	A,B,C,D		1
Antidiarrheals	12	MW+AA	A,B,C,D		1
Probiotics	13	MW+AA	A,B,C,D		1, online
Haemorrhoidal Products	13	MW+AA	A,B,C,D		1

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- 1) Lectures
- 2) Seminars
- 3) Case Studies
- 4) Assignments: e.g. EBM, self-reading topics, patient education material etc.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1. Exams
 - Midterm exam : 6th week of the semester – 40%
 - Final exam: 15th week of the semester – 50%
2. Quizzes and assignments – 10 %

23. Course Policies:

A- Attendance policies:

First warning- with 4 absences
Second warning- with 5 absences
Failing in the module- with 6 absences

B- Absences from exams and handing in assignments on time:

- Midterm exam: a justified excuse should be submitted and accepted by the instructor in order to be eligible for a make up.
- Final Exam: a justified excuse should be submitted and accepted by the Dean in order to be eligible for and "incomplete" exam.
- Failure to hand assignments on time will result in deduction of marks.

C- Health and safety procedures:

D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating, plagiarism or misbehaviour will lead to applying all following penalties together

- 1) Failing the subject he/she cheated at
- 2) Failing the other subjects taken in the same course
- 3) Not allowed to register for the next semester
The summer semester is not considered as a semester.

E- Grading policy:

- Midterm Exam (40%)
- Assignments and Quizzes (10%)
- Final Exam (50%)

F- Available university services that support achievement in the course:

- E-Library, Virtual Pharmacy

24. Required equipment:

- In-Home testing and monitoring products: e.g. Home pregnancy tests, Home ovulation prediction kits, Blood pressure measurements devices (digital, mercury in-glass and aneroid) etc
- Different OTC products though visits to Virtual Pharmacy at the faculty.

25. References:

A- Required book (s), assigned reading and audio-visuals:

Text Books:

1. American Pharmacists Association (AphA). Handbook of nonprescription drugs, 18th edition. Washington D.C: American Pharmaceutical Association, 2015
2. Basic & Clinical Pharmacology, ed. Katzung, 13th edition, 2014

B- Recommended books, materials, and media:

1. Nathan A. Non-prescription Medicines, 4th edition. London: The Pharmaceutical Press, 2010
2. Blenkinsopp A, Paxton P. Symptoms in the pharmacy: A guide to the management of common illness. 6th ed. Oxford: Blackwell Science, 2009

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department
Assistant Dean for Quality Assurance
Course File