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| logoCourse Syllabus |
| **PHCL 328 (1+1)**  **Introdcution to Poison & Information Services** |
| Department of Clinical Pharmacy |
| College of Pharmacy – King saud University |

**Course Coordinator/Teaching Faculty**

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| Saja Almazrou, MSc | Lina Ashoor, Pharm D |
| Clinical Lecturer | Clinical Lecturer |
| Office location: Rm#30 Bldg. 7 | Office location: Rm#11 Bldg. 7 |
| Office hours: posted on office door | Office hours: posted on office door |
| Email: [s\_almazroo@hotmail.com](mailto:s_almazroo@hotmail.com) | Email: [lashour@ksu.edu.sa](mailto:lashour@ksu.edu.sa) |

**Teaching Assistants**

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| Refah Alajmi, Bsc  [realajmi@KSU.EDU.SA](mailto:realajmi@KSU.EDU.SA)  Noura alkhudair Bsc  [naalkhudair@KSU.EDU.SA](mailto:naalkhudair@KSU.EDU.SA) |

**Class Meeting Times and Locations**

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| --- | --- | --- | --- | --- |
| Lecture Day | Lecture Time | Classroom # | Lab Meeting Time in DI Room | |
| Sunday  All sections | 8-9 | 46 | Saturday Section# 24380 | 1-4 |

***Lab Sessions will be held in the Drug Information Lab Bldg. 1 room# 7***

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| **Course Description and Prerequisites** |
| This course explores the fundamental aspects of drug information. It is designed as an introductory course to teach the student the basic principles of drug information pertaining to retrieval, evaluation and communication skills. In addition, the course should help students not only to understand the types of drug information available but also what sources of information are appropriate to use in a variety of situations.  **Prerequisite**: PHCL 311 (Pharmacy Practice) |

**Course Objectives:**

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| **Upon successful completion of this course, student should be able to:**     * Identify and list different types of information resources available. * Discuss the advantages and disadvantages of the tertiary, secondary, and primary literature. * Develop critical understanding of the strengths and limitations of these resources (scope, type of information, arrangement, method of access, structure, and application of frequently used drug information tertiary resources.) * Understand the different secondary databases, the search strategy and article citation and retrieval process involved. * Demonstrate proficiency in the use of computerized information databases * Understand and differentiate the type of information cited in a biomedical journal (original article, review article, case report, editorial, etc) * Conduct a systematic search of the tertiary, secondary, and primary literature in order to retrieve appropriate drug information to answer a specific request * Evaluate online drug information sites for appropriateness and quality. * Formulate a drug information response based on the requestor’s level of understanding * Develop sufficient communication skills through verbal and written activities * Demonstrate sufficient skills to perform appropriate calculations. * List literature resources utilized to manage topic specific questions (poison, herbal, pregnancy, evidence-based medicine, etc) * List other activities performed by drug information pharmacist (drug evaluation, DUE, ADR reporting, DI newsletter, etc |

**Textbook(s) & Learning Resources**

* **Required (textbook is available in University bookstore). If not photocopy of selected chapter will be made available.** 
  + Malone PM et al. Drug information: a guide for pharmacists. 3rd ed. NY: McGraw-Hill, 2008. (<http://books.mcgraw-hill.com/medical/druginfo/> )
  + Galt KA: Clinical skills program drug information series, module 1. Analyzing and recording a drug information request. Bethesda, MD: American Society of Hospital Pharmacists; 2000. (Copies of the required chapters are available).
* **Helpful resources:** 
  + PubMed Tutorial website: <http://www.nlm.nih.gov/bsd/disted/pubmed.html>
  + IDIS tutorial website: <http://www.uiowa.edu/~idis/webtutorial/contents.htm>
  + Self study tutorial, University of Washington: “Rx: Finding drug Information” <http://healthlinks.washington.edu/howto/drugs/>
  + Tutorial: Finding Drug Information on theWeb <http://itp.pharmacy.dal.ca/Scenarios/index.php>
  + Training tutorial for the Women's Health Information Center: lessons 5 through 9

<http://www.hsl.unc.edu/AboutLib/staff/present/WHIC/to.htm#5>

**Course Policies:**

**a. Course format:**

This course will the following mode of teaching: formal and informal Lecture, discussion, debates, group project, hand on experience, role playing, etc.

**Exam format:**

Written exams mainly consist of, but not limited to: one correct answer multiple choice questions, true/false, short notes (one sentence), matching, organize a list and fill in blanks (one word)

* Late assignments/homework will be penalized by **5% reduction** in grade **per each passing day.**
* the instructor has the right to determine the method for midterm make up exam by:
  + - increasing the percentage of the remaining exams to cover the missed exam
    - assigning the final exam a higher percentage to cover the missed exam
    - a make-up exam (not the original exam)
    - If the final is cumulative, the section relating to the missed examination material can be used as the grade for that missed exam.

**b. Late assignments/homework Policy or missed Quizzes/Midterm exams:**

* + - Written Exams
    - Assignments
    - Project
    - Informal presentations
    - Criteria based evaluation
    - Self assessment

**c. Assessment tools:**

**d. Grade Policy and distribution:**

* **Lab Activities: 50%**
  + **DI weekly requests: 30 points**
  + **Assignments # 12 points**
  + **Phone calls 8 points**
* **Final DI lab: 10%**
* **Two request will be given for each student**
* **Written Exams 40%**
  + **Written Exam 1 = 20%** 
    - * **topics covered include contents of week 2 through 7 (including lab activities)**
  + **Written Exam 2 = 20%** 
    - **When: According to the College Final Exam Schedule** 
      * **topics covered include contents of week 8 through 15 (including lab activities)**

**\*all grades of both written exams will be counted as grade of final exam (40 point)**

**e. Supplemental materials:**

To be determined and will be distributed in class

**f. Attendance Policy:**

Attendance of this class is mandatory. Student should exercise punctuality in attending classes/labs. Instructor has the right to deny late comers from attending. Students missing 25% or more on attendance are forbidden from sitting for the final exam, per University Policy. Students have the right to present documents of proof for their absences. Students should submit such documents to College Academic Counsel to authenticate as per University Policy.

**g. Academic Dishonesty/plagiarism**

Students are expected to demonstrate professionalism and honesty during this course. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Students found in violation of such policy are subjected to disciplinary actions as per University Policy.

This course may require you to collect and evaluate patient specific information and data. This information should be handled with the utmost respect and privacy. If you have questions regarding this type of information at any time, please contact your Course Coordinator or instructor(s). **Patient confidentiality should be respected at all times. No excuses.**

**H. Protected Health Information:**

**I. Syllabus Changes**

The instructor reserves the right to make changes as necessary to this syllabus. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes both by individual email communication and posting both notification and nature of change(s) on the course bulletin board.

**J. Course Evaluation**

An evaluation of the full course and course faculty will be administered towards the end of the course. Additionally, individual instructors or module coordinator may ask for an evaluation of their lecture(s)/modules.

**Course Schedule / Calendar :**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Wk #** | **Lect. #** | **Day** | **Date Hijri** | **Date G** | Topics | **Instructor** | **Important information of Lab activity** |
| 1 | 1 | Sun | 15-10 | 2 sep | Introduction/syllabus discussion | Lina Ashoor |  |
| 2 | 2 | Sun | 22-10 | 9 sep | Introduction to Drug Information Services and role of pharmacist | Lina Ashoor |  |
| 3 | 3 | Sun | 29-10 | 16 sep | Drug Information resources:  Types of information literature: primary, secondary, tertiary | Lina Ashoor |  |
| National day holiday | | | | | | | |
| 5 | 4 | Sun | 14-11 | 30 sep | Drug Information resources:  Types of information literature: primary, secondary, tertiary | Lina Ashoor |  |
| 6 | 5 | Sun | 21-11 | 7 oct | Systematic approach to Drug information request | Lina Ashoor |  |
| 7 | 6 | Sun | 28-11 | 14 oct | Systematic approach to Drug information request | Lina Ashoor |  |
| HAJJ HOLIDAY | | | | | | | |
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| 10 | 7 | Sun | 19-12 | 4 nov | Primary drug information resources: Evaluating randomized controlled trials | Lina Ashoor | RCT evaluation assignment will be assigned |
| 11 | 8 | Sun | 26-12 | 11 nov | Primary drug information resources: Evaluating randomized controlled trials | Lina Ashoor | Pubmed will be assigned |
| 12 | 9 | Sun | 4-1 | 18 nov | Literature evaluation | Saja Almazrou | RCT evaluation assignment will be submitted and discussed |
| 13 | 10 | Sun | 11-1 | 25 nov | Secondary drug information resources: IDIS, IPA, PubMed, OVID | Saja Almazrou | Pubmed will be submitted |
| 14 | 11 | Sun | 18-1 | 2 dec | Clinical Application of Statistical Analysis | Saja Almazrou |  |
| 15 | 12 | Sun | 25-1 | 9 dec | Evidence based Medicine Resources | Saja Almazrou |  |
| 16 | 13 | Sun | 3-2 | 16 dec | Poison Information resources | Saja Almazrou |  |

Lab Calendar of Activities

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| --- | --- | --- | --- | --- | --- |
| **Wk #** | **Lab. #** | **Day** | **Date Hijri** | **Date G** | Lab Activities |
| 1 | 1 | Sat | 14-10 | 1 sep |  |
| 2 | 2 | Sat | 21-10 | 8 sep | Introduction to DI lab, DI form, Book area, assigning groups, and introduction to general DI resources. Demonstrators will discuss AHFS, Clinical drug data, martindale and lexi.  DI req: DEMO questions. |
| 3 | 3 | Sat | 28-10 | 15 sep | Demonstrators will discuss USP DI, BNF, Facts and comparison and PDR  DI req : focus questions on drug dosing in healthy subjects, dosage forms availability, and drug indications. |
| 4 | 4 | Sat | 6-11 | 22 sep | Demonstrators will discuss Specialized resources: Drugs in preg/lact, Trissels, Pediatrics( Harrit lane), Sanford Guide, PDR (Herbal)  DI req and 4: focus on pregnancy, IV, compounding, and geriatric dosing |
| 5 | 5 | Sat | 13-11 | 30 sep | Demonstrators will discuss Micromedex and dosing tools.  DI req : dosing in impaired organ functions, and dosing tools. |
| 6 | 6 | Sat | 20-11 | 7 oct | Demonstrators will discuss lexi CD  DI req : focus on drug interactions |
| 7 | 7 | Sat | 27-11 | 14 oct | Demonstrators will discuss Poisoning resources  DI request : focus on Identidex, focus questions on poison scenarios, and toxicity nomogram. |
| HAJJ HOLIDAY | | | | | |  |  | HAJJ HOLIDAY |
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| 10 | 10 | Sat | 18-12 | 4 nov | Demonstrators will discuss IDIS data base.  DI Req : focus on using IDIS  RCT evaluation assignment will be assigned. |
| 11 | 11 | Sat | 25-12 | 11 nov | Demonstrators will present a 40 min about PubMed data base.  DI request 8: Students will be given their second assignment (PubMed)  Phone Requests exercise 1. |
| 12 | 12 | Sat | 3-1 | 18 nov | Demonstrators will discuss RCT evaluation . |
| 13 | 13 | Sat | 10-1 | 25 nov | Demonstrators will discuss KSU data base, OVID, and PROQUST |
| 14 | 14 | Sat | 17-1 | 2 dec | Demonstrators will discuss Practical search in EBM literature.  Phone Requests exercise 2 |
| 15 | 15 | Sat | 24-1 | 8 dec | Online drug information resources lecture and Website Evaluation exercise |
| 16 | 16 | Sat | 2-2 | 16 dec | Final lab |

**All assignments are due within 2 weeks.**

**تعهد**

أتعهد أنا الطالبة/ الرقم الجامعي/

بأنني قرأت وصف المقرر لمادة 328 صكل و فهمت متطلبات المقرر و الواجبات و المشاريع المتعلقة به. وأن استاذة المقرر لها كامل الصلاحية في تغيير و تعديل امتحانات المادة حسب الحاجة لذلك. كما أتعهد بتسليم الواجبات في الموعد المحدد لها من قبل استاذة المعمل وفي حال تأخري عن التسليم سوف يخصم من درجة الواجب أو المشروع 5% عن كل يوم تأخير. كما أنه في حال تغيبي عن المعمل لا يحق لي المطالبة بتعويض النشاط العملي الإ في حال إحضاري لتقرير طبي (يسلم لإستاذة المعمل) يوضح سبب التغيب.

و لإستاذة المعمل كامل الحق بتحديد الطريقة المناسبة لتعوض النشاط العملي.

توقيع الطالبة/

التاريخ/