



Clinical Pharmacy Training Manual

University of Science and Technology, Sana'a-Yemen
Faculty of Pharmacy,
Department of Clinical Pharmacy & Pharmacy Practice

أ.د. عميد الكلية
أ.د. دعاء أنور

رئيس القسم
جميل الذبحاني

مسؤول التدريب
د. عبد الرزاق الخزان

مشرف التدريب السريري
د. عبدالسلام حلبوب



Introduction to clinical Training:

The primary objective of our clinical training program is to empower PharmD students with essential clinical competencies to deliver patient-centered services. These competencies include the identification and management of drug therapy-related issues. Furthermore, our training aims to equip PharmD students with the skills required to translate their acquired knowledge into practical applications, promoting the rational use of medications and ultimately enhancing patient health outcomes.

Our carefully structured clinical training offers students supervised experiences that furnish them with the significant clinical proficiencies necessary to formulate treatment plans that are highly effective while minimizing adverse drug effects. It's important to note that the clinical training experience is distinct from traditional classroom learning. It provides numerous opportunities for students to gain a deep understanding of and appreciation for the concept of therapeutics care, enabling them to apply these skills with the utmost responsibility and commitment to achieving optimal outcomes.

All the necessary forms and helpful materials required during your clinical training can be readily found within the following pages, ensuring that you have the resources you need to succeed in your clinical training journey.



Description of activities during clinical training

During clinical training, each PharmD student will be randomly assigned to a clinical preceptor in a monthly basis. It is expected that the trainee is going to be an active member during clinical training. During each clinical training period, students are demanded to participate actively in-patient care services as the following:

- 1- Timely attend the assigned rotation as determined by the preceptor.
- 2- Monitor and follow up the patients who assigned to you by the preceptor. Regarding this, each student will be required to fill informal case form, including patient information, monitoring parameters, drug-related problems, and recommendations.
- 3- Meet with preceptor for daily discussion which may include:
 - a. Giving oral presentation of the assigned patients to preceptor and your group when requested.
 - b. Provide daily follow-up on your patients to the preceptor and your groups
 - c. Discusses with your group and preceptor the assignment and reading material that assigned to you.
- 4- perform two patients interview as a minimum to obtain medication histories as requested by your preceptor
- 5- Ask the staff of hospital pharmacy for trade name and the cost of medications
- 6- Conduct a patient drug counselling for high alert medication e.g: insulin, warfarin, bisphosphonate, and other highly alert medications...) when requested.
- 7- summarize and criticize one published paper when requested by the preceptor.
- 8- Attend early morning medical meetings and other medical activities after preparing by your preceptor
- 9- Be ready for weekly quiz after scheduling with your preceptor
- 10- be ready for weekly a formal case presentation and a topic discussion.
- 11- Attend final clinical training examination as scheduled by your preceptor.



General clinical training Goals

All objectives of each rotation will be provided by the preceptor during the first day of clinical training (clinical orientation). The following are the general goals and objectives of clinical training:

Goal of clinical training:

Clinical training courses aim to:

1. Develop the skills to efficiently consolidate information from the basic pharmaceutical and medical sciences into direct patient care.
2. acquire experience to identify, optimize and monitor patient-specific medication related problems.
3. improve the communication skills necessary to effectively and professionally interact with patients and other healthcare professionals.
4. Foster life-long learning via a self-directed educational process during hospital training.

Objectives of clinical training:

PharmD student will be able to:

1. Apply academic knowledge and problem-solving skills to make intervention about the effective use of medication.
2. Conduct therapeutic plan for patient based on the recommended treatment strategies and contribute to improve patient's outcome by providing medical intervention to the assigned preceptor
3. Apply appropriate therapeutic plan based on the site of infection and risk of bacterial resistance.
4. Implement self-patient monitoring plan to achieve the goal of treatment without medication problems.
5. Practice evidence-based treatment strategies and recommendations that improve patient's outcome.
6. Perform appropriate advice for the patients and other health care providers on the safe and effective use of medicines, and implements efficient plan for therapeutic drug monitoring.

Clinical Training Rotations for PharmD Students:

PharmD students undergo a comprehensive 10-month supervised training program at the University and Science and Technology Hospital, as well as the National Oncology Center at Al-Jomhori Hospital. This program consists of a total of 1440 hours and include the following specialized rotations:

1. **Clinical Training in Cardiovascular Diseases**
2. **Clinical Training in Infectious Diseases**
3. **Clinical Training in Pediatrics**
4. **Clinical Training in Oncology Diseases**
5. **Clinical Training in Internal Medicine I**
6. **Clinical Training in Internal Medicine II**
7. **Clinical Training in the Intensive Care Unit**
8. **Clinical Training in Hospital Pharmacy**
9. **Clinical Training in Ambulatory Care**
10. **Pharmaceutical Research Studies**



These rotations provide students with diverse and hands-on experience in various aspects of clinical pharmacy, enhancing their knowledge and skills in preparation for a successful career in the field.

Assessment methods:

	Assessment Tasks	Mark	Weight
1	Rotation attendance	10	10%
2	Daily evaluation	15	15%
3	Weekly quiz	10	10%
4	Formal case presentation	20	20%
5	In-service (assignment)	5	5%
6	Final term examination	40	40%
	Total	100	100%

Important Notes

- 1- Students must have the grade that enable him to pass each clinical training. Otherwise, he needs to take the exam again.
- 2- student's unexcused absence will decrease the total grade as shown in assessment method
- 3- the absence needs to be excused by providing a written proof that he/she was absent owing to emergency medical care. Such proof must have authorized signatures from medial complex and approved by medical committee at UST. The missed work must be made up before the final exam. If the absence was unexcused the student will receive absent from final in his/her record according to faculty policy.
- 4- Students are allowed to miss up to 15% of each rotation without excuse and up to 25% with excuse
- 5- A student who exceeds the maximum allowed of absence needs to retake the clinical training again with the next batch.
- 6- A student who does not achieve 50% of the clinical training is not allowed to attend final exam



Patient Monitoring

PharmD student should have the ability to:

- Daily monitor the progress in the patient's health status utilizing laboratory investigations, patient's clinical picture, and discussion with the medical team.
- Identify drug therapy problems, such as potential adverse reactions or treatment failure, and provide assessment for such problem and come up with alternative therapeutic modality.
- Utilize the drug history, patient's medical record and other resources to timely detect medication related problems, such as drug incompatibilities, drug interactions, drug duplication, and to discuss the effective solutions.
- Apply the concept of pharmacokinetic for the drugs with narrow therapeutic window and provide recommendation accordingly.

Patient Medical file

PharmD student should have the ability to:

- Demonstrate the capability of retrieving patient's information available in the patient medical files and assess this information to provide recommendation and clinical services. for this purpose, , the student should be familiarized with:
 - patient medical file arrangement.
 - Specific types of patient information contained in patient medical file. For instance, chief complain, admission note, past medical history, physician assessment and order, laboratory investigations, progress notes, and nurse sheet
 - Medication sheet, diabetic management sheet, protocols for GE, hyperkalemia, antibiotics policies for infectious diseases (e.g: sepsis, pneumonia, meningitis, and Urinary Tract Infection).
 - Medical abbreviations that commonly used, such as PMH, CC, GE, PTA, RTA...etc

Laboratory investigations:

- Recognize normal and abnormal laboratory investigations and imaging reports.
- Interpret laboratory investigations properly in accordance with the disease status and the proposed therapeutic plan.
- Ensure the consistence of laboratory investigation with patient subjective data before designing the treatment plan.

Medication History

- for each clinical training, a student has several opportunities to interview patients to gain trust while communicating with patient. All patient interview needs to be approved by the clinical preceptor. The student needs to be prepared before patient interview and to ensure the right time for the patient. The student should realize that some patients are not candidates for interviewing.
- through direct interview, PharmD student needs to has the capability of obtain medication history in order to identify the prescribed and OTC drug used, self-medications practice, compliance with the prescribed drug, procurement sources of the drug, previous adverse drug reactions, family history, allergy to certain medications, and social history.



Drug Information

PharmD student should have the ability to:

- Apply the medical literature related skills to answer drug-related inquiry.
- Demonstrate the capability of retrieving, critically evaluating and utilizing the resources of information resources when providing answer to a medication-related inquiry.
- Respond appropriately and efficiently to all drug information requests
- Communicate drug related information verbally or in specific form.

Discharge Medication Counseling

- Student will practice and later supervised on how to provide organized and individualized drug- and disease -related instructions to patient before discharge, with assuring the patient's appreciation and readiness to follow the proper treatment.
- Student will be able to provide instructions to the patients on the proper use of prescribed and non-prescribed drugs in order to decrease drug related problems.

Confidentiality while Working with Patient's medical files:

- The medical file is considered a personal file which has to be respected proficiently at all time.
- Under no circumstances should the patient's information be reviewed outside hospital setting with anyone other than health care providers.
- Medical files of patients are to be explored in a specific area, such as nursing counter.
- When utilizing patient's file please return the file and Cardex (medication sheet) back to their proper storage area.
- All medical file is needed to be sent from the nursing unit to the department of medical records after discharge. If a medical file is required for review at the time of discharge, your preceptor has the authority to arrange if possible.
- The patient files are very often used physician and nurse and must be handed to them when needed as a top priority, e.g. when the patient is going for x-ray his file must accompany him.
- Please do not write or take photo at any section of the file.

Courtesy

- courtesy rules should be shown while dealing with the staff of the hospital. This includes taking consideration when interact with physicians, nurses, receptionists, housekeepers, and other employee in the hospital.
- patient file reviewing should not hinder the normal follow of patient care and work-up scheduled. for any reason.

Answering Questions:

- identify yourself as PharmD student enrolled in the clinical training when you interact with other health care providers or patients,
- Recognize your limitations as PharmD trainee; don't provide drug-related information unless there is absolute certainty.



- Don't panic and offer misleading answer. Simply explain that you are not sure, but you will search about it. Call your preceptor if the question needs urgent response
- Utilized reliable resources to follow-up on it if the inquiry is not urgent. In all cases, you need to check with your preceptor.

Data collection During the Medication History:

During the clinical training, each PharmD student will be expected to finish two informal cases based on the daily admission. Patients will be randomly assigned to each student by the preceptor. the following information is needed to be obtained during clinical training.:

1. Patient Demographic data
 - a. Name
 - b. Age
 - c. gender
 - d. room Number
 - e. patient file
2. medication Allergies
 - a. Type of allergy
 - b. When allergy occurred
 - c. How allergy was managed
3. Adverse Drug Reactions
4. weight and height
5. Source of information
 - a. Patient, family member
 - b. pharmacy
6. Medications (dose/route of administration/regimen/last dose taken)
 - a. Prescription only
 - b. OTC
7. Proper use of medications
8. Social/Substance Use History
 - a. Exercise
 - b. Tobacco
 - c. Khat
 - d. Shamma
9. Recommendations or plan based on assessment



Forms used in clinical training:

- ❖ Daily evaluation form [page 10]
- ❖ Criteria for Evaluation of journal article presentation [page 11]
- ❖ Patient counseling form for the patient [page 12]
- ❖ Clinical training report [page 13-16]
- ❖ Formal Case Presentation criteria [page 17]
- ❖ Formal Case Evaluation Form [page 18]
- ❖ Clinical pharmacist intervention notes in patient file [page 19]
- ❖ Attendance Form [page 20]
- ❖ Benchmarks [page 21]
- ❖ Appendix [page 22-24]



Daily evaluation form

University of Science and Technology
 Faculty of Pharmacy
 Clinical Pharmacy Department

Date: _____

Student Name: _____

Name of Clinical rotation: _____

Criteria of Evaluation	5	4	3	2	1
Timely attend the assigned clinical training					
Organized (wearing formal, good appearance)					
Was enthusiastic about clinical training					
Was able to answer each question effectively and promptly					
showed the ability to follow up according to actions/ recommendations					
Efficient and timely completion of assigned tasks					
Positively Reacted to constructive criticism					
demonstrated the ability to determine the monitoring parameters of therapy					
exhibited the ability to evaluate specific therapy and make appropriate intervention					
Showed in-depth understanding of goals of therapy					
Was able to monitor treatment plan subjectively and objectively					
Showed understanding of pharmacology					
Showed understanding of pharmacokinetic principles					
Showed ability of rational and logical thinking					
Completes accurate informal cases					
Showed ability to interact and counsel patients appropriately					

Overall evaluation points (Please circle your choice): [1] [2] [3] [4] [5]

This answer will reflect 15% of daily evaluation



Preceptor: _____

journal article evaluation criteria

Introduction			
Criteria	Good	accepted	Needs improvement
Stated the objective of assigned study using his/her own words			
Stated the hypotheses of assigned study using his/her own words			
Described clearly the relevancy of study objective.			
study design assessment			
Criteria	Good	accepted	Needs improvement
Stated the type of study design			
describe the relevancy of study design to the clinical setting			
Described subject population studied			
Described the inclusion and exclusion criteria			
Described sample size adequacy			
stated study intervention			
Is there a bias or conflict of interest?			
Assessment of study findings			
Criteria	Good	accepted	Needs improvement
mention the main findings			
describe how the main findings were analyzed			
Described the type of statistical test used for data analysis			
Presented the main finding of the study compared to the original hypotheses			
Described the conclusion of the study as presented by the article			
Stated critical evaluation of study results			
Identified limitations of the study			
Conclusions			
Criteria	Good	accepted	Needs improvement
Conveyed main message of the article in a concise and precise manner			
the efficient use of the allotted time			
Good flow for the different parts of the study.			
Self-confident and clarity of presentation			



Clinical Training Report

Patient Name: _____ **File NO.:** _____ **Room:** _____
Date of Admit.: _____ **M / F** _____ **Age:** _____ **Wt:** _____ **Ht:** _____
BMI: _____ **BP:** _____ **P:** _____ **RR:** _____ **Temp.:** _____ **RBS:** _____ **O₂ sat:** _____

Chief Complaint (CC):

.....

Past Medical History (PMH):

.....

Provisional Diagnosis:

.....

Family History (FH):

.....

Social History:

Smoker: _____ Khat Chewer: _____ Shma'a: _____ Exercise: _____

Medication History: (Home Medication)

Name, dose, route, freq.	Name, dose, route, freq.

Allergy (Drugs or Food):

.....



Formal Case Presentation criteria

Purpose: To provide an educational discussion to pharmacy students on the pharmacotherapy of a specific disease state or relevant clinical controversy.

Goal: To effectively present a thorough patient case with emphasis on proper pharmacotherapeutic management of a specific disease state.

Expectations: A PowerPoint presentation incorporating all pertinent patient and disease state data. The presentation should not exceed 30 minutes in length to be followed by a 5-10 minutes question and answer session.

A. Chief Complaint

❖ A brief statement of the reason why the patient is consulted the physician or admitted to the hospital.

B. History of Present Illness (HPI)

❖ Briefly state in chronological order the presentation of symptoms leading to this admission. Also, give any pertinent negative symptomatology.

C. Past Medical History (PMH)

1. List of illness
2. Past surgical history

D. Family History (FH)

1. (+) for what disease(s)
2. (-) for what disease(s)

E. Social History (SH)

❖ Smoking (pack years, when stopped), Shma'a, Khat chewing, and exercise

F. Medication History

1. Prescribed drugs, OTC, and herbal products
2. Known allergies/adverse reactions

G. Physical Examination (PE) - objective

❖ Vitals signs, weight, height, and BMI

H. Laboratory Data on Admission

❖ Initial abnormal or pertinent results of lab tests

I. Hospital Medication on Admission

❖ Initial medication on admission

J. Prioritized Problem List (Assessment)

❖ List each problem in order of clinical significance, which has been identified.

K. Disease State Presentation of Select Patient Care Problem

- ❖ Goal of Therapy
- ❖ Non-Pharmacological Therapy
- ❖ Pharmacological Therapy
 - ✚ Mention of each day lab results and Medication modification (stop, add, change dose) and give us your opinion about that for each day.
- ❖ Monitoring
- ❖ Disease State: Overview of main disease of patient
 - A. Definition
 - B. Etiology
 - C. Pathology
 - D. Major symptoms/Clinical presentation
 - E. Diagnostic laboratory tests
 - F. Drug Therapy (including pharmacology information)



Evaluation Form of Formal Case

Name: _____

Date: _____

Topic: _____

Patient Presentation (20%)					
Present patient demographic data: age, gender.	5	4	3	2	1
Effectively summarize: CC, HPI, PMH, FH, SH	5	4	3	2	1
Identify drug history (Med. Hx): home medication; tobacco (pack-years)/Khat chewer; drug and food allergies	5	4	3	2	1
Understand physical examination results	5	4	3	2	1
understand laboratory findings and their interpretation	5	4	3	2	1
Present hospital course of patient in concise/precise manner	5	4	3	2	1
Present medications during Hospitalization with specific starting date	5	4	3	2	1
Discussion of the Disease State (20%)					
Discuss prevalence, etiology, pathophysiology	5	4	3	2	1
Recognize clinical presentations	5	4	3	2	1
Discuss prognosis of the Disease	5	4	3	2	1
the proposed treatment plan	5	4	3	2	1
Discussion of the proposed treatment plan (30%)					
Able to evaluate therapeutic plan, outcome	5	4	3	2	1
Able to recommend changes in drug-related therapy.	5	4	3	2	1
Able to explain rational use of drug	5	4	3	2	1
Thorough Understanding of pharmacology and pharmacokinetics concepts of the prescribed drugs	5	4	3	2	1
Able to identify serious toxicity of the prescribed drugs	5	4	3	2	1
Able to recognize the significant drug interactions	5	4	3	2	1
Able to monitor drug therapy to ensure efficacy and prevent expected toxicity	5	4	3	2	1
Presentation Style (10%)					
Organization of the presented case	5	4	3	2	1
relevant information	5	4	3	2	1
Rapport with group	5	4	3	2	1
use of body language	5	4	3	2	1
Ability to paraphrase the written notes	5	4	3	2	1
Questions and Answers (20%)					
Able to answer the questions appropriately	5	4	3	2	1
demonstrate familiarity with the patient data	5	4	3	2	1

Preceptor: _____



Clinical pharmacist intervention note in patient file ()

Dear doctor responsible for patient named:

Room number:

Department:

By reviewing patient medications it is found that the patient has the following Medication related problem(s):

<input type="checkbox"/> inappropriate indication	8	<input type="checkbox"/> Duplication
<input type="checkbox"/> inappropriate dose or regimen	9	<input type="checkbox"/> Discontinuation of needed medication
<input type="checkbox"/> Compliance/ nurse management problem	10	<input type="checkbox"/> Therapeutic failure
<input type="checkbox"/> Adverse Medication reaction	11	<input type="checkbox"/> Untreated medical condition
<input type="checkbox"/> Medication interaction <input type="checkbox"/> Medication <input type="checkbox"/> Food <input type="checkbox"/> Lab <input type="checkbox"/> Habit <input type="checkbox"/> Herb	12	<input type="checkbox"/> Lack of necessary Medication monitoring
<input type="checkbox"/> Contraindication	13	<input type="checkbox"/> Need for additional Medication therapy
<input type="checkbox"/> unnecessary medication	14	<input type="checkbox"/> Others

Recommendations:

.....

Patient risk:

.....

References:

.....

Physician comments

.....

Physician signature

preceptor signature:



كشف حضور وغياب المجموعة () لمادة:

الأسبوع الثاني						الأسبوع الأول						الإسم	م
6	5	4	3	2	1	6	5	4	3	2	1		
													1
													2
													3
													4
													5
													6

الأسبوع الرابع						الأسبوع الثالث						الإسم	م
6	5	4	3	2	1	6	5	4	3	2	1		
													1
													2
													3
													4
													5
													6

يتم تحضير الطلاب بشكل يومي قبل توزيع الحالات، في حالة تأخر الطالب عن موعد التدريب يتم تسجيل زمن التأخير.
تسلم هذه الوثيقة لمشرف التدريب في نهاية التدريب السريري.

مشرف التدريب

د.



Benchmarks

- I. Jordan University of Science and Technology, Faculty of pharmacy
- II. King Saud University, Faculty of pharmacy
- III. The University of Jordan, Faculty of pharmacy
- IV. Egyptian clinical pharmacy standards



Appendix



Calendar of Clinical Training [2023-2024] for the 5th Batch

No.	Rotation name	G1	G2	G3	G4
1	Hospital Pharmacy*	30/5/2023 – 12/6 [5]	13/6 – 25/6 [5]	22/1 – 3/2 [1]	25/12 – 6/1/2024 [1]
2	CV diseases	8/7 – 5/8 [2]	6/8 – 3/9 [2]	30/10 – 26/11 [2]	27/11 – 24/12 [2]
3	Pediatrics	6/8 – 3/9 [2]	2/10 – 29/10 [2]	4/9 – 1/10 [2]	8/7 – 5/8 [2]
4	Internal medicine I	4/9 – 1/10 [4]	8/7 – 5/8 [4]	6/8 – 3/9 [4]	2/10 – 29/10 [4]
5	Infectious diseases	2/10 – 29/10 [3]	4/9 – 1/10 [3]	8/7 – 5/8 [3]	6/8 – 3/9 [3]
6	Internal medicine II	30/10 – 26/11 [1]	27/11 – 24/12 [1]	25/12 – 21/1/2024 [1]	22/1 – 18/2 [1]
7	Oncology diseases	27/11 – 24/12 [3]	30/10 – 26/11 [3]	2/10 – 29/10 [3]	4/9 – 1/10 [3]
8	Intensive Care Unit	25/12 – 21/1/2024[4]	22/1 – 18/2 [4]	27/11 – 24/12 [4]	30/10 – 26/11 [4]
9	Ambulatory care	22/1 – 18/2 [5]	25/12 – 21/1/2024 [5]	4/2 - 2/3 [5]	7/1 – 21/1 [5]
10	Graduation project	Aug. – Feb. [6]	Aug. – Feb. [6]	Aug. – Feb. [6]	Aug. – Feb. [6]

- [Preceptors]:

1. Dr./ M. Kubas 2. Dr./ Abdulwali Al-Juzifa 3. Dr./ Amal Al-Ramadii 4. Dr./ M. Al-Saqaf 5. Hospital Pharmacy Staff 6. Faculty Staff.
- The date of the last day in each rotation (training course) is the exam day.
 - The number of daily training hours is 7 hrs. daily. (From 8 am to 3 pm, except Thursday until 1 pm).
 - The duration of training in hospital pharmacy will be about two weeks for each group.
 - All groups should be complete their graduation projects before the end of February 2024.

Students' names in the groups for clinical training 2023-2024

No.	G1	G2	G3	G4
1	Abdulrahman Taha Abdulbari Shamsan	Ahmed Mohammed Saleh Mohammed Gubran	Atheer moqbel abduljalil al hemyari	Rehab mohammed Abdullah Algedry
2	Abdulrahman Mohammed Luff Abdularb	Amin Yousef Asaad Mohammed	Eman yahya mahdi Al.Abhar	Shuhd Ebrahim Salem Ashaal
3	Emad Hadi Ali Mohammed Esha	Ayman Mansoor Abdullah Ghaleb	Bassma Abdullah Ibrahim Ibrahim	Maria Hussein Yahya Al- Qahtani
4	Hilal Ali Abdullah Omer Al Nusairy	Badr Mundher Mohammed Al-Nono	Ruqayyah Ali Ali Abo-Ali	Maria Mudathir Ibrahim Alhag
5	Yaser Mohammed Alwan Ali Al-Zuraiqi	Al-Baraa Naeem Mohammad Al-Riyashi	Rahaf Abdullah Yahya Alsaeedi	Nosibah Ameen Abdulwali Manea
6	Yousf Ahmed Mohammed Hassan Alsabree	Khaled Mohammed Saleh Al-Ayedi	Sukaina Taha Hussein Al- Mutawakel	Nora Najeeb Mohammed Alezzi
7				Heba Mohammed hail Almoliky



Ref

Date : 18/5/2023

الرقم : 1134
التاريخ : 28/10/1444

كشف بأسماء طلاب وطالبات مستوى سادس (دكتور صيدلة) للعام الجامعي - للعام 2023
-2024م

م	المجموعة (1)	المجموعة (2)	المجموعة (3)	المجموعة (4)
1	أثير مقبل عبدالجليل الحميري	رحاب محمد عبدالله محمد الجدري	احمد محمد صالح محمد جبران	عبد الرحمن طه عبدالباري شمسان
2	ايمان يحيى مهدي حمود الأبيهر	شهد إبراهيم سالم الأشعل	أمين يوسف أسعد محمد	عبد الرحمن محمد لطف عبد الرب
3	بسمة عبدالله ابراهيم ال ابراهيم	ماريا حسين يحيى محمد القحطاني	ايمن منصور عبدالله غالب	عماد هادي علي بن عيشة
4	رقية علي علي ابو علي	ماريا منذر ابراهيم الحاج	بدر منذر محمد النونو	هلال علي عبدالله عمر النصيري
5	رهنف عبدالله يحيى السعدي	نسيبه أمين عبدالولي ماتع	البراء نعيم محمد الرياشي	ياسر محمد علوان علي الرزيقي
6	سكينة طه حسين المتوكل	نورة نجيب محمد علي الغزي	خالد محمد صالح العائدي	يوسف محمد احمد حسن الصبري
7	هبه محمد هائل عبدالجليل الملكي			

عميد كلية الصيدلة





Calendar of Clinical Training [2023-2024] for the 5th Batch

* No.	*Rotation name	G1	G2	G3	G4
1	Internal medicine I	27/5/2023 – 26/6 [1]	5/7 – 29/7 [1]	30/7 – 26/8 [1]	27/8 – 23/9 [1]
2	CV diseases	5/7 – 29/7 [2]	27/5/2023 – 26/6 [2]	27/8 – 23/9 [2]	30/7 – 26/8 [2]
3	Pediatrics	12/11 – 9/12 [2]	10/12 – 6/1/2024 [2]	24/9 – 21/10 [2]	22/10 – 11/11 [2]
4	Intensive Care Unit	22/10 – 11/11 [4]	24/9 – 21/10 [4]	10/12 – 6/1/2024 [4]	12/11 – 9/12 [4]
5	Ambulatory care	10/12 – 6/1/2024 [3]	12/11 – 9/12 [3]	22/10 – 11/11 [3]	24/9 – 21/10 [3]
6	Internal medicine II	24/9 – 21/10 [1]	22/10 – 11/11 [1]	12/11 – 9/12 [1]	10/12 – 6/1/2024 [1]
7	Oncology diseases	30/7 – 26/8 [3]	27/8 – 23/9 [3]	27/5/2023 – 26/6 [3]	5/7 – 29/7 [3]
8	Infectious diseases	27/8 – 23/9 [4]	30/7 – 26/8 [4]	5/7 – 29/7 [4]	27/5/2023 – 26/6 [4]
9	Hospital Pharmacy*	7/1 – 20/1 [5]	21/1 – 3/2 [5]	4/2 – 17/2 [5]	18/2 – 2/3 [5]
10	Graduation project	Aug. – Feb. [6]	Aug. – Feb. [6]	Aug. – Feb. [6]	Aug. – Feb. [6]

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 2. Dr./ Abdulwali Al-Juzifa
 3. Dr./ Faculty Staff
 4. Dr./ M. Al-Saqaf
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 6. Faculty Staff
- The last day for each rotation is the exam day.
 - The number of daily training hours is 7 hrs. (from 8 AM to 3 PM).
 - The period of training in hospital pharmacy will be about two weeks for each group.
 - All groups should be complete their graduation projects before the end of February 2024.

Students' names in the groups for clinical training 2022-2023

No.	G1	G2	G3	G4
1	Atheer moqbel abduljalil al hemyari	Rehab mohammed Abdullah Algedry	Ahmed Mohammed Saleh Mohammed Gubran	Abdulrahman Taha Abdulbari Shamsan
2	Eman yahya mahdi ALAbhar	Shuhd Ebrahim Salem Ashaal	Amin Yousef Asaad Mohammed	Abdulrahman Mohammed Lutf Abdularb
3	Bassma Abdullah Ibrahim Ibrahim	Maria Hussein Yahya Al-Qahtani	Ayman Mansoor Abdullah Ghaleb	Emad Hadi Ali Mohammed Esha
4	Ruqayyah Ali Ali Abo-Ali	Maria Mudathir Ibrahim Alhag	Badr Mundher Mohammed Al-Nono	Hilal Ali Abdullah Orner Al Nusairy
5	Rahaf Abdullah Yahya Alsaeedi	Nosibah Ameen Abdulwali Manea	Al-Buraa Naeem Mohammad Al-Riyashi	Yaser Mohammed Alwan Ali Al-Zurajqi
6	Sukaina Taha Hussein Al-Mutawakel	Nora Najeeb Mohammed Alezzi	Khaled Mohammed Saleh Al-Ayedi	Yousf Ahmed Mohammed Hassan Alsiabree
7		Heba Mohammed hail Almoifiqy		

Dr. Abdulrazzaq Al Khazzan
Clinical Training Officer

Prof. Gamil Qasem
Head of Training Committee

Prof. Dop'a Anwar
Dean of Faculty

3 5
2023

Republic of Yemen

University of Science & Technology

Faculty of Pharmacy



الجمهورية اليمنية
جامعة العلوم والتكنولوجيا
كلية الصيدلة

شهادة تدريب سريري
Clinical Training Certificate

Faculty of Pharmacy Certifies that:

Student/ Sarah Mohammed Ahmad AL-Sarori

Successfully completed the clinical training
requirements of Clinical Pharmacy Program
(PharmD) at the University Hospital with a total
of (1440) clinical hours during the period:

from 01/08/2021 to 26/05/2022

تشهد كلية الصيدلة بأن:

الطالبة/ سارة محمد أحمد السروري

قد أكملت بنجاح متطلبات التدريب السريري في برنامج

الصيدلة السريرية (دكتور صيدلة) في المستشفى الجامعي

بواقع (1440) ساعة تدريبية خلال الفترة:

من 2021/08/01م إلى 2022/05/26م



أ.د. نعمان قائد النجار

Assistant President for Academic Affairs

مساعد رئيس الجامعة للشئون الأكاديمية



أ.د. دعاء أنور إبراهيم

Dean of the Faculty

عميد الكلية

د.عبدالرزاق يحيى الخزان

Clinical Training Officer

مسؤول التدريب السريري