

Republic of Yemen
Emirates International University
Faculty of Medicine & Health Sciences
Medical Laboratory



الجمهورية اليمنية
الجامعة الإماراتية الدولية
كلية الطب والعلوم الصحية
قسم المختبرات الطبية

Medical Laboratory Internship Logbook

Intern Name (Arabic): (English):	خالد يحيى محمد النخاري
Training Year	2022 - 2023
Training Hospital- Lab.	مستشفى الجمهوري
Intern Address	



Republic of Yemen
Emirates International University
Faculty of Medicine & Health Sciences
Medical Laboratory



الجمهورية اليمنية
الجامعة الإماراتية الدولية
كلية الطب والعلوم الصحية
قسم المختبرات الطبية

Medical Laboratory Internship Logbook

Intern Name	
(Arabic):	خالد يحيى محمد النجاري
(English):	
Training Year	2022 - 2023
Training Hospital- Lab.	
Intern Address	



INTRODUCTION:

Clinical Laboratory internship is an integral part of the Medical Laboratory program and is approved to provide interns with an opportunity to integrate and apply previously acquired knowledge and technical skills in actual clinical settings.

This internship logbook is prepared with the intention to provide orientation to interns about various tasks to be performed and/or observed in different disciplines during six months internship at the approved hospital.

The major aim of the internship is to acquire necessary practical skills in performing various clinical laboratory tests in different disciplines at laboratory departments in approved hospitals that will contribute directly to efficient laboratory diagnosis and improve health care services.

The main contents of this logbook are the tasks list for each discipline which interns are expected to either perform or observe during the training. They need to fill tasks list in each discipline during their training at each rotation.

INTERNSHIP SPECIFICS:

The internship provides applied learning experiences during which the intern should:

1. Practice and acquire clinical laboratory skills.
2. Practice skills in problem solving.
3. Learn and adapt new procedures.
4. Perform quality control procedures.
5. Operate and maintain various laboratory machines and instruments.
6. Understand the responsibilities, roles, and functions of the Medical Laboratory Professionals.
7. Report accurate and precise results to clinical supervisors.
8. Learn how to correlate clinical tests results to patient clinical diagnosis.

I. Internship eligibility criteria:

Entry in internship is allowed only after successful completion of all prerequisite courses of Medical laboratory Sciences program specified.

II. Internship duration:

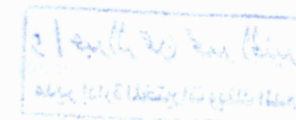
The training period for the internship is six months. It is offered in 5th academic year of the program.

III. Internship disciplines:

The tasks (what intern may learn) for each discipline is listed in different sections. The intern will "perform and/ or observe" the task, and therefore, should tick (✓) the appropriate column for each task. Each task needs to be signed by the training supervisor. If any task is not applicable, then column should be marked "N/A" (not applicable).

IV. Internship rotations:

Rotations in the internship period depend on the program needs. Medical Laboratory Sciences program is multidisciplinary in training. Therefore, number of rotations varies depending on the availability of disciplines in a hospital. The intern of Medical Laboratory can use more than one hospital or central laboratory to complete his/her internship in all required disciplines.



1-Lab Department : Specimen Reception

The interne should spend a minimum of 6 working days' training

Name of Hospital:

Duration: From 3/1/2023 To 4/1/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Implement the guidelines and procedures of handling, collection and documentation of clinical specimens.
- 2- Apply specimen acceptance and rejection criteria.
- 3-Familiarize with computerized system of specimens' entry and distribution to respective laboratories.

Date	Particulars	Supervisor Signature	Notes
3/1	Identification		
	the required		
	tests in the		
	request form		
4/1	Collection of		
	the specimens		
	Labeling and		
	preservation		
	of specimens.		

د/عبد الرحمن محمد الجندب
Head of Lab Department
مدير ادارة المختبرات وبنك الدم

Signature

2-Lab Department : Phlebotomy

The interne should spend a minimum of 12 working days' training

Name of Hospital:

Duration: From _____ To _____

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Disinfect the blood collection site with appropriate disinfectant.
- 2-Use a tourniquet by good way and for suitable time.
- 3-Detect the preferred venous access sites.
- 4-Insert the needle properly for blood withdrawal.
- 5-Take care of the patient to avoid complications during and after blood collection process.

Date	Particulars	Supervisor Signature	Notes

Head of Lab Department

Name:

Signature

د/عبد الرحمن محمد الجندب
Head of Lab Department
مدير ادارة المختبرات وبنك الدم

3-Lab Department :Microbiology

The interne should spend a minimum of 26 working days' training

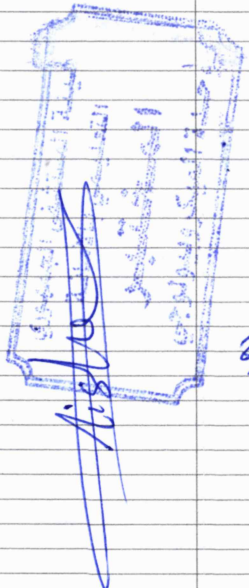
Name of Hospital:

Duration: From 7/2/2023 To 8/2/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Prepare and select appropriate media for various clinical specimens.
- 2-Isolate pathogenic microorganisms.
- 3-Identify microorganisms in different types of specimen
- 4-Differentiate between normal flora and pathogens.
- 5- Perform staining techniques and antimicrobial susceptibility testing.
- 6-Apply sterile techniques in the laboratory at all times.

Date	Particulars	Supervisor Signature	Notes
7/2	Staining e.g Gram stain Ziehl-Neelsen stain. Antibiotic Sensitivity test		
8/2	culture of urine, pus isolation and identification of organisms		
	mycology KOH Preparation staining and culture.		

Head of Lab Department

مدير إدارة المختبرات وفنك الدم

Signature

4-Lab Department :Parasitology

The interne should spend a minimum of 26 working days' training

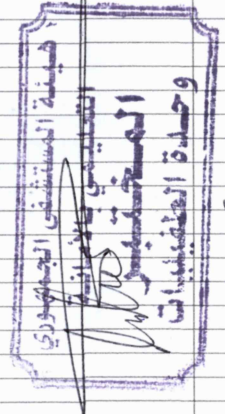
Name of Hospital:

Duration: From 14/1/2023 To 16/1/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Perform stool analysis efficiently considering macroscopic and microscopic examination.
- 2-Perform urine analysis professionally as regarding macroscopic, microscopic and biochemical examination.
- 3-Identify hemoparasites in blood film or bone form film efficiently.
- 4-Handle specimens professionally.

Date	Particulars	Supervisor Signature	Notes
14/1	macroscopic examination of stool sample.		
15/1	sediments, macroscopic examination of urine and microscopic H. pylori (Ag)		
16/1			

Head of Lab Department

مدير إدارة المختبرات وفنك الدم

Signature

5-Lab Department :Clinical chemistry

The interne should spend a minimum of 26 working days' training


Name of Hospital:

Duration: From 21/1/2023 To 23/1/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Recognize the rules of sample rejection
- 2-Recognize the rules of specimen collection , transport & sample preparations
- 3-Perform all clinical chemistry tests
- 4-Interpret test results
- 5-Apply safety rules during the daily work
- 6-Implement laboratory quality management

Date	Particulars	Supervisor Signature	Notes
21/1	Measurement of analytes by manual and semi-automated spectrophotometer		
22/1	S.Cr .gluc .UREL		
23/1	ALT . AST		
	BILD . BILT,		
	ALB-Ca-Ua		
	Mg-CK-LDH		
	Chol-TRIE		
	HDL-EE T		
	LDL-iron		
	phos-ALBz		

Head of Lab Department
Name: مدير إدارة المختبرات وفنك الدم

Signature

6-Lab Department :Hematology

The interne should spend a minimum of 26 working days' training


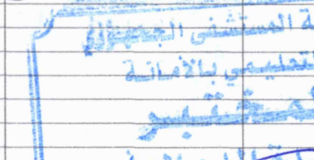
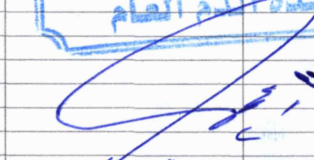
Name of Hospital:

Duration: From 11/2/2023 To 13/2/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Perform routine hematological tests (i.e., CBC, differentials, ESR, report blood films, coagulation profile, etc).
- 2- Prepare and stain blood films with routine stains.
- 3-Perform or observe special techniques (e.g. Hb electrophoresis, HPLC, detection of malaria in blood film, sickle cell screening, etc.).
- 4- Report and verifying hematological test results.
- 5-Take appropriate actions when a result has serious clinical implications.
- 6- Interpret test results

Date	Particulars	Supervisor Signature	Notes
11/2	ESR		
	CBC		
	Blood Grouping		
12/2	PT, PTT		
	Hb		
	malaria detection		
13/2	D-Dimer		
	Fibrinogen		

Head of Lab Department
Name: مدير إدارة المختبرات وفنك الدم

Signature

7-Lab Department :Blood banking & Transfusion

The interne should spend a minimum of 18 working days' training

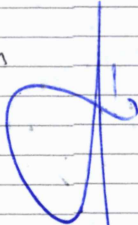

Name of Hospital:

Duration: From 10/1/2023 To 11/1/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Develop technical accuracy and self-confidence by experiencing standard routine functions of Blood Bank.
- 2-Identify and resolve discrepancies for blood grouping
- 3-Show knowledge of standard routine techniques used for ABO and Rh typing, compatibility testing, antibody screening, antigen typing, and preparation of blood components.
- 4-Explain with the procedures of donor selection and issuing of blood and blood products for transfusion.
- 5-Implement laboratory quality management.
- 6-Perform other duties as assigned or required

Date	Particulars	Supervisor Signature	Notes
10/1/	- Blood transfusion - ABO-group		
11/1/	- Rh - Crossmatching		

Head of Lab Department
مدير إدارة المختبرات وبنية

Signature _____

8-Lab Department :Serology and Immunology

The interne should spend a minimum of 12 working days' training

Name of Hospital:


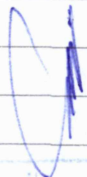
Duration: From 21/1/2023 To 23/1/2023

Objectives:

Objectives: 31/1/2023 to 1/2/2023

By the end of working in this section, the interne should be able to:

- 1-Use different techniques and equipment available for performing serological and immunological tests
- 2-Interpret test results
- 3-Apply safety rules during the daily work

Date	Particulars	Supervisor Signature	Notes
21/11	Serological test by visible		Anti-H
22/11	Agglutination method:		
23/11	Widal test, Brucellosis, CRP, ASO, RF		
31/11	Immunoassay by closed system methods		Chromatographic immunoassay

Immunoassay 31/1	Serological
by closed	test by rapid
(Full Automated) 2	Chromatographic
System methods	immunoassay
e.g. Cobas e411 - (Cassettes)	

Head of Lab Department

Name: _____

HBs Ag
HIV-
syphilis

Signature _____

Emergency

9-Lab Department : Histopathology

The interne should spend a minimum of 12 working days' training

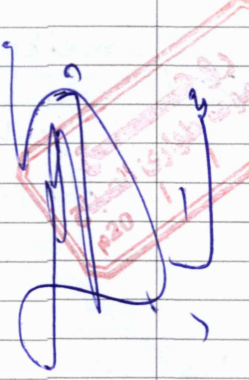
Name of Hospital:

Duration: From 18/2/2023 To 20/2/2023

Objectives:

By the end of working in this section, the interne should be able to:

- 1-Recognize appropriateness of specimen type, size, and quality
- 2-Preserve and handle histopathology specimens
- 3-Prepare slides from histopathology specimens
- 4-Prepare cytology slides from body fluids aspiration
- 5-Perform different stains and staining protocols including immuno-histochemical staining and cyto-chemical staining

Date	Particulars	Supervisor Signature	Notes
18/2	Aso-RF, CRP Widalle test Burcellosis HBs, HCV, HIV		
19/2	B.G. and Rh CBC, Hb		
20/2	macroscopic and microscopic Examination of Stool and		

Head of Lab Department

مدير إدارة المختبرات وبنك الدم

Name:

Signature