

# CLINICAL PORTFOLIO



## PATHOLOGY

Department of Pathology  
Faculty of Medicine  
Uva Wellassa University of Sri Lanka

1<sup>st</sup> Batch 2026

# CLINICAL PORTFOLIO



## Clinical Pathology

Faculty of Medicine

Uva Wellassa University of Sri Lanka

### Personal details

Full Name : .....

Reg No : UWU/MBBS/ /

MED Number : .....

Signature of the Student : .....

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here*

## **Version 1 @ 2026 February**

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## **(1) Introduction**

Dear Student,

Welcome to the Clinical Attachment in the Department of Pathology. During this appointment, you will have the opportunity to consolidate and enhance your knowledge of laboratory medicine and understand the vital role pathology plays in diagnosis, disease monitoring, and patient management. You are also expected to develop professional attitudes in your interactions with consultants, medical officers, medical laboratory technologists (MLTs), nursing staff, and other healthcare personnel.

Your appointment will include training in the following units:

- (1) Hematology
- (2) Blood Bank (Transfusion Medicine)
- (3) Chemical Pathology
- (4) Histopathology

Clinical and laboratory-based teaching will be conducted by pathology consultants, medical officers, and senior laboratory staff attached to each unit. You will observe laboratory procedures, participate in demonstrations, attend reporting sessions, and engage in case-based discussions to understand the clinical relevance of laboratory investigations.

During this attachment, you are encouraged to: **(1)** Understand the principles, indications, and interpretations of common laboratory investigations. **(2)** Correlate laboratory findings with clinical conditions. **(3)** Recognize pre-analytical, analytical, and post-analytical factors affecting laboratory results. **(4)** Gain knowledge of specimen collection, handling, processing, and reporting procedures. **(5)** Appreciate the role of quality control, laboratory safety, and ethical practices in pathology services.

Unlike clinical ward appointments, this attachment does not primarily focus on history taking and physical examinations. Instead, emphasis is placed on diagnostic reasoning, laboratory interpretation, and understanding disease mechanisms at cellular and biochemical levels. At all times, maintain confidentiality of patient information, adhere to laboratory safety protocols, and demonstrate professionalism within the laboratory environment. We hope this clinical attachment will strengthen your foundation in pathology and equip you with essential knowledge required for accurate diagnosis and effective patient care as a future medical practitioner. This portfolio includes confidential patient and laboratory details. It must be kept safe and not left unattended.

Patient confidentiality is a core obligation of medical professionals and an integral part of their training. As such, medical students bear full responsibility for safeguarding patient information in this portfolio

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**(1.1) Clinical Appointment in Clinical Pathology (all together 4 weeks appointment)**

- (1) Haematology: 1 week
- (2) Blood Bank: 1 week
- (3) Histopathology: 1 week
- (4) Chemical pathology: 1 week

**(1.2) Marks Allocation in 3rd MBBS Part 2 Examination**

Three continuous assessments will be held at the end of semester 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup>. At the end of the 8<sup>th</sup> semester, the 3<sup>rd</sup> MBBS part 2 Examination will be held.

**Continuous Assessment 6 Pathology– At the end of 6<sup>th</sup> semester**

Method of Assessment	No of questions	Time (Minutes)	Total	Total marks allocated to 3 <sup>rd</sup> MBBS II
MCQ (T/F +SBA)	10 +10	60	10	10%
<b>Total</b>				<b>10%</b>

**Continuous Assessment 7 Pathology - At the end of 7<sup>th</sup> semester**

Method of Assessment	No of questions	Time (Minutes)	Total	Total marks allocated to 3 <sup>rd</sup> MBBS II
MCQ (T/F +SBA)	10 +10	60	10	10%
<b>Total</b>				<b>10%</b>

**Continuous Assessment 8 Pathology - At the end of 8<sup>th</sup> semester**

Method of Assessment	No of questions	Time (Minutes)	Total	Total marks allocated to 3 <sup>rd</sup> MBBS II
Portfolio viva (in 4weeks Clinical Attachment)	10	30	10	10%
<b>Total</b>				<b>10%</b>

**3<sup>rd</sup> MBBS part II Examination – Pathology**

Method of Assessment	No of questions	Time (Minutes)	Total	Total marks allocated to 3 <sup>rd</sup> MBBS II
MCQ (T/F +SBA)	20+20	120	25	25%
SEQs	4	120	25	25%
OSPE	15	45	10	10%
Structured Viva		10	10	10%
Contribution to 3 <sup>rd</sup> MBBS Part II				<b>70%</b>
Continuous Assessment contribution				<b>30%</b>
<b>Total marks</b>				<b>100%</b>

### **(1.3) Award of Distinctions in 3<sup>rd</sup> MBBS Examination**

#### **A candidate who obtains**

- 1) an overall average of **70%** marks in a subject shall be considered to have obtained a Distinction in that subject
- 2) provided that he/she is sitting that examination for the **first time** and
- 3) That he/she passes the whole (MBBS) third examination and obtains either a **First or Second Class**.

### **(1.4) Award of Honours 3<sup>rd</sup> MBBS Examination**

#### **1) First Class (Honours)**

1. A candidate who passes the (MBBS) 3<sup>rd</sup> examination at the **1<sup>st</sup> scheduled attempt** and
2. obtains an overall average mark of **70% or above** at that examination shall be eligible for First Class (Honours)

#### **2) Second Class Upper Division (Honours)**

1. A candidate who passes the (MBBS) 3<sup>rd</sup> examination at the **1<sup>st</sup> scheduled attempt** and
2. obtains an overall average mark of **65% - 69%** at that examination shall be eligible for Second Class Upper Division (Honours)

#### **3) Second Class Lower Division (Honours)**

1. A candidate who passes the (MBBS) 3<sup>rd</sup> examination at the **first scheduled attempt and**
2. obtains an overall average mark of **60% to 64%** at that examination shall be eligible for Second Class Lower Division (Honours)

## **(2) Guide to Daily Clinical Works**

During the Pathology clinical appointment, medical students contribute to patient care indirectly through laboratory-based diagnostic services. Students work closely with consultant pathologists, medical laboratory technologists, and other laboratory staff in disciplines including Chemical Pathology, Histopathology, Hematology, and Blood Bank.

Students are expected to actively participate in routine laboratory activities and understand the clinical relevance of laboratory investigations in patient management.

Students should **1)** Understand the indications and principles of commonly requested laboratory investigations. **2)** Observe and assist in specimen reception, labeling, processing, and storage according to standard laboratory protocols. **3)** Correlate laboratory findings with clinical conditions. **4)** Interpret basic laboratory results under supervision. **5)** Understand quality control procedures and laboratory safety measures. **6)** Appreciate the importance of accuracy, confidentiality, and professionalism in handling patient samples and reports.

**Routine Laboratory Work Includes:** **1)** Reviewing laboratory request forms and understanding clinical indications. **2)** Observing specimen processing techniques in different sections (Chemical Pathology, Histopathology, Hematology, Blood Bank). **3)** Participating in report validation discussions with supervising pathologists. **4)** Learning about normal reference ranges and abnormal result interpretation. **5)** Understanding blood grouping, cross-matching, and transfusion protocols in the Blood Bank. **6)** Observing histological slide preparation and microscopic examination in Histopathology.

Students are encouraged to communicate effectively with laboratory staff and consultants to clarify doubts and enhance learning. Active participation in case discussions and laboratory demonstrations is expected.

Daily sessions are conducted under the supervision of consultant pathologists and senior laboratory personnel. To gain maximum benefit, students should review relevant theoretical knowledge prior to attending laboratory sessions and familiarize themselves with common investigations and their clinical applications.

## **(2.1) Guidelines for general conduct**

### **Attendance**

Attendance for the clinical appointment is a statutory requirement and is compulsory. This includes public holidays unless otherwise stated. Leave for any reason must be obtained from the Head of the Department. If attendance is unsatisfactory, you will have to repeat a part or the entire appointment.

### **Illness**

If you are absent from teaching due to illness, inform the Head of the Department within 3 days via [dean.office.fomed@uwu.ac.lk](mailto:dean.office.fomed@uwu.ac.lk), and you must submit a Medical Certificate within 7 days to the HOD through UMO. At the discretion of the Head of the Department, the appointment may be prolonged to cover the days of absence

### **Punctuality**

Late arrival of students is discouraged as it is disruptive to other students. Late comers may be refused admission to teaching sessions. Students must arrive at all clinics and ward rounds on time.

### **Behavior**

Students must always be courteous to patients and to the public. They should also be considerate to medical nursing and Para-medical staff. Remember that you will be spending much of your time in contact with patients who will have certain expectations of you as professionals. Avoid noisy, inappropriate conversation in all areas where patients/visitors may overhear.

### **Dress**

In hospital, medical students should be clean and suitably attired e.g. scrubs. It is important that you maintain a clean, neat appearance. Avoid extremes of dress. Jeans, shorts, trainers and slippers are not permitted. Equip yourself with a name tag. Name labels must be always worn.

### **Conduct**

Students will be expected to maintain a high standard of public behavior. You must always demonstrate appropriate attitudes.

### **Student belongings**

On no account must students litter the wards of clinics with rucksacks, helmets etc. Your belongings are your responsibility and should be placed in a secure location.

### **Consenting – Patients' rights**

Patients have the right to decline to be observed or attended to by students without affecting in any way the treatment they receive. Whenever practicable, the student's status and the reason for his/her presence must be explained to the patient and the patient's prior informed.

## **(3) Objectives**

### **(3.1) Haematology**

At the end of this appointment the student should be able to:

- 1) describe the mechanisms of common disease processes involving the blood cell (Red cells, white cells, platelets) and the coagulation system.
- 2) describe the less common haematological disorders.
- 3) describe the principles of test requisition, patient preparation, sample collection and transport requirements for haematological investigations.
- 4) describe the common diagnostic tests done in the haematology laboratory.
- 5) interpret the results of haematological tests, in the context of the overall clinical picture of the patient.
- 6) explain the principles of blood transfusion.
- 7) discuss the different blood components used in transfusion practice.
- 8) explain the principals of managing transfusion reactions.
  - Counsel
  - Patients with life threatening haematological disorders
  - Patients with hereditary haematological disorders
  - Potential blood donors

### **(3.2) Blood Bank**

At the end of this appointment the student should be able to:

- 1) understand the organization and functions of a Blood Bank.
- 2) learn the criteria for donor selection and donor screening procedures.
- 3) observe and understand the blood collection process.
- 4) understand the principles of ABO and Rh blood grouping.
- 5) learn the procedure and importance of cross-matching.
- 6) observe antibody screening and identification methods.
- 7) understand the storage conditions and shelf life of different blood components.
- 8) learn about indications and contraindications of blood transfusion.
- 9) understand transfusion reactions, their causes, investigations, and management.
- 10) gain knowledge about quality control and safety protocols in the blood bank.
- 11) study the processing of whole blood into blood components (PRBC, FFP, Platelets, Cryoprecipitate).
- 12) understand documentation and reporting procedures in transfusion services

### **(3.3) Histopathology**

At the end of this appointment the student should be able to:

- 1) describe the different cellular responses to injury and stress.
- 2) describe the morphological changes in tissues associated with disease processes.
- 3) explain the relationship between altered morphology and abnormal function.
- 4) describe the characteristics of benign and malignant neoplasms.
- 5) explain the basic steps in carcinogenesis.
- 6) list the types of specimens sent to the histopathology laboratory.
- 7) describe the procedure involved in sending different specimens to the histopathology laboratory.
- 8) explain the clinical significance of cytopathology and histopathology tests used in the diagnosis and management of systemic disorders.
- 9) promote continuing professional development and develop the attitude for self-learning.

### **(3.4) Chemical Pathology**

At the end of this appointment the student should be able to:

- 1) explain the pathological basis of biochemical alterations observed in plasma and body fluids in common systemic disorders.
- 2) select appropriate biochemical investigations to confirm the diagnosis of diseases and monitor management where applicable.
- 3) describe the principles of test requisition, patient preparation, sample collection and transport requirements related to common general and specialized biochemical investigations
- 4) interpret the results of biochemical tests, in the context of the overall clinical picture of the patient.

## (4) Record of Haematology Appointment

Duration: from ..... to.....

Ward and hospital: .....

Name of the consultant: .....

### (4.1) Haematology Reports Interpreted

	Date	BHT	Brief laboratory findings	Interpretation	Signature
<b>FBC</b>					
<b>ESR</b>					
<b>Reticulocyte Count</b>					
<b>PT/INR/APTT</b>					
<b>Peripheral blood film</b>					

## **(4.2) Laboratory Observations**

<b>Procedure Observed</b>	<b>Date</b>	<b>Key learning points</b>	<b>Signature</b>
<b>Sample reception &amp; labeling</b>			
<b>Preparation and processing of an ESR</b>			
<b>Automated hematology analyzer</b>			
<b>Coagulation testing (PT/APTT/INR)</b>			
<b>Peripheral blood smear preparation</b>			

**(4.3) Histories Taken – (Any 3 of the topics given below)**

- 1) Microcytic Anemia
- 2) Macrocytic Anemia
- 3) Hemolytic Anemia
- 4) Aplastic Anemia
- 5) Autoimmune Hemolytic Anemia
- 6) Immune Thrombocytopenic Purpura (ITP)
- 7) Multiple Myeloma
- 8) Chronic Myeloid Leukemia (CML)
- 9) Polycythemia Vera
- 10) Essential Thrombocythemia
- 11) Primary Myelofibrosis
- 12) Myelodysplastic Syndrome
- 13) Non-Hodgkin's Lymphoma
- 14) Hodgkin's Lymphoma
- 15) Chronic Lymphocytic Leukemia (CLL)
- 16) Venous Thromboembolism (VTE)-
- 17) Antiphospholipid Syndrome
- 18) Hemophilia A
- 19) Hemophilia B
- 20) von Willebrand Disease

Name of the patient	Date	BHT No	Diagnosis	Short summary





### **(4.5) Assessment by the Consultant**

I certify that the student has satisfactorily / unsatisfactorily completed his/her appointment in Haematology under me. I have given a grade based on his/her performance of the appointment.

Appointment From ..... To .....

Name of the Consultant : .....

Grade

.....

Consultant's signature

[with rubber stamp]

Grade –A – Excellent, B – Good, C- Poor

## (5) Record of the Blood Bank Appointment

Duration : from .....to.....

Ward and hospital : .....

Name of the consultant : .....

### (5.1) Clinical Procedures

Students are expected to observe/assist/perform the following clinical procedures during the Blood bank appointment.

A -Can perform independently

B- Assisted/Under Supervision

C -Observed

Procedure	Date	Skill level	Key learning points	Signature
Donor registration and medical history assessment		B		
Physical examination of donors (Hb, weight, vitals)		A		
Aseptic technique during blood collection		B		
Blood component separation process		C		
Storage temperature monitoring		C		
Infection control practices		B		





### **(5.3) Assessment by the Consultant**

I certify that the student has satisfactorily / unsatisfactorily completed his/her appointment in blood bank under me. I have given a grade based on his/her performance of the appointment.

Appointment From : ..... To .....

Name of the Consultant : .....

Grade

.....

Consultant's signature

[with rubber stamp]

Grade –A – Excellent, B – Good, C- Poor

## (6) Record of Chemical Pathology Appointment

Duration : from .....to.....

Ward and hospital : .....

Name of the consultant : .....

### (6.1) Clinical Procedures

Students are expected to observe/assist/perform the following clinical procedures during the chemical pathology appointment.

A -Can perform independently

B- Assisted/Under Supervision

C -Observed

Procedure	Date	Skill level	Key learning points	Signature
Sample reception and verification process		C		
Test requisition form checking (patient details, clinical history)		B		
Patient preparation requirements (fasting, timing, medication review)		B		
Identification of correct collection tubes (plain, fluoride, EDTA etc.)		A		

**(6.2) Reports of the biochemical tests Interpreted**

	<b>Date</b>	<b>BHT</b>	<b>Brief laboratory findings</b>	<b>Interpretation</b>	<b>Signature</b>
<b>FBS/RBS/OGTT</b>					
<b>ALT/ AST/ ALP Liver function</b>					
<b>Lipid Profile</b>					
<b>Thyroid function test</b>					
<b>Renal function tests</b>					





### **(6.4) Assessment by the Consultant**

I certify that the student has satisfactorily / unsatisfactorily completed his/her appointment in Chemical Pathology under me. I have given a grade based on his/her performance of the appointment.

Appointment From : ..... To .....

Name of the Consultant : .....

Grade

.....

Consultant's signature

[with rubber stamp]

Grade –A – Excellent, B – Good, C- Poor

## (7) Record of Histopathology Appointment

Duration : from .....to.....

Ward and hospital : .....

Name of the consultant : .....

### (7.1) Clinical Procedures

Students are expected to observe/assist/perform the following clinical procedures during the chemical pathology appointment.

A -Can perform independently

B- Assisted/Under Supervision

C -Observed

#### Specimen collection and preparation of

Procedure	Date	Skills	BHT No	Key learning points	Signature
FNAC		C			
Punch biopsy		C			
Core biopsy		C			
Body fluid cytology (CSF/Pleural/ Peritoneal)		C			
Pap smear/cervical cytology		C			





### **(7.3) Assessment by the Consultant**

I certify that the student has satisfactorily / unsatisfactorily completed his/her appointment in Histopathology under me. I have given a grade based on his/her performance of the appointment.

Appointment From ..... To .....

Name of the Consultant : .....

Grade

.....

Consultant's signature

[with rubber stamp]

Grade –A – Excellent, B – Good, C- Poor

## **(8) Recommended Text books**

1. Robbin's Basic Pathology. Vinay Kumar, Abul K. Abbas, Jon C., Andrea T Deyrup, 11<sup>th</sup> edition, Elsevier 2022.
2. Robbins & Cotran Pathologic Basis of Disease, Vinay Kumar, Abul K. Abbas, Jon C. Aster, 10th Edition, Elsevier 2021.
3. Essentials of Clinical Pathology. Shirish M Kawthalkar, 2nd Edition Jaypee Brothers Medical Publishers (P) Ltd, 2018.
4. Oxford Text book of Pathology. McGee, J.O.D, Isaacson, P.G., Wright, N.A, Oxford: Oxford University Press.
5. Muir's Text book of Pathology. Robin Reid[et-al], latest edition.
6. Walter and Israel General Pathology. Walter J.B., and Talbot I.C, latest edition.
7. Aids to Pathology. Michael F Dixon and Philip Quirke, latest edition.
8. Essential Hematology. Victor Hoffbrand, Paul Moss and John Pettit, Blackwells, latest edition.
9. Diagnostic Function tests in chemical pathology. Lascelles, P. T and Donaldson, D Springer, 1990.



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