

Logbook

Diploma In Laboratory Medicine (DLM)
2 years training Program



Bangabandhu Sheikh Mujib Medical University
Shahbag, Dhaka

Year (2024-2026)

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Trainee's Personal Details

Photograph

Name Date of Birth

Father's Name Mother's Name

Address.....

.....

Contact no E-mail

Nationality National ID / Passport No:

BMDC Registration No

Academic Data:

Graduation (MBBS): Year: Institution:

Signature:.....

Supervisor's/Trainer's Particular

Name	Designation	Department/ Unit	Specimen Initial	Specimen signature

TRAINING BLOCKS/ Rotations

Self department

16 months (4 months at the beginning and 12 months at the end)

Rotation:

Microbiology Dept: 03 months

Biochemistry Dept: 02 months

Haematology Dept/ Pathology Department : 02 months

Transfusion Medicine: 01 month

Essential information on using the logbook:

Objectives of the Logbook:

The purpose of the logbook is to provide one source of evidence for BSMMU that you have attained the desired level of competency required to sit for the Diploma in Laboratory Medicine (DLM) examination. It is the record where you are going to document experiences and skills you attained during your training.

Instruction to the Trainees:

1. The log book (Daily Training Record)is a day to day record of the training and academic work done by the resident
2. The log book will be a pre-requisite for appearing in the final examination
3. This log book has to be maintained by all the trainee throughout the period of training
4. The trainee will obtain the log book from the course-coordinator of the parent discipline immediately after joining
5. The resident will make the required entries in the logbook on the same day of the event and get it signed by the supervisor
6. Every leave application when forwarded should be entered in the leave record section of the book
7. It is the responsibility of the resident to keep the logbook safe and secured

Guidelines for the supervisors/trainers:

1. The log book is a day to day record of the clinical and academic work done by the trainee.
2. It is the responsibility of the supervisor to identify and inform the trainee of the area in which he is lacking and provide opportunities to improve the competence.
3. Supervisors or his/her designated consultant/trainer should sign the completed events on that particular day in the appropriate column of the logbook

Important notice:

- It is your responsibility to maintain accurate and complete logbook and to regularly update your records.
- Shall you meet any difficulty, you must contact your supervisor or course coordinator
- Unsatisfactory completion of the logbook would lead to delay of training progression.
- Unsatisfactory logbook at the end of training will prevent you from entering the final examination.

Level of Competence / Performance:

The Level of Competence / Performance at which a skill is performed by the trainee should be recorded in the given column of the logbook.

Knowledge (K) and Skill (S) will be assessed in each segment of the topic and the performance will be rated as **Excellent/Good/ Satisfactory**

Excellent: > 80%

Good: 70-80%

Satisfactory: 60-70%

Paper- I (Group – A) Clinical Pathology

Sl. No.	Date & Duration	Topic	Assessment		Initial of trainer / supervisor
			K	S	
01		Stool for R/E & special examination,			
02		Urine R/E, & special examination including phase contrast microscopy			
03		Haemoparasite			
04		C.S.F/ others body fluid			
05		Jt. Fluid for R/E & Polarize microscopy.			
06		Semen for complete analysis.			
07		Staining, Gram's Albert's & Z. N. Stain.			
08		Routine examination of pus, throat swab, vaginal swab, prostatic smear/Urethral smear.			
09		Tumour Markers- Method & interpretation.			

(Group-B) Parasitology & Diagnostic Immunology

10		Common Protozoa, Nematodes, Cestodes and Trematodes			
11		Laboratory diagnosis of common parasitic diseases.			
12		Definition, classification of common viruses.			
13		Laboratory diagnosis of common viral diseases e.g. RNA, DNA,			
14		Hepatitis, HIV & other common viral diseases			
15		Antigen, antibody, Complement, antibody / cell mediated immunity, Hypersensitivity			
16		Antigen- antibody reactions, precipitation test (VDRL) & ASO Titre.			
17		Agglutination reaction (Widal test, TPHA, RA test) and Complement fixation test. PCR			

K: Knowledge, S: Skill

(>80%: Excellent, 70-80%: Good, 60-70%: Satisfactory)

Performance: Excellent/Good/ Satisfactory

Paper- II (Group – A) Clinical Biochemistry

Sl. No.	Date & Duration	Topic	Assessment		Initial of trainer/supervisor
			K	S	
01		General: PH, buffers, acid base balance, volumetric.			
02		Colorimetry / Spectrophotometry / Gas analysis/			
03		Electrolyte,			
04		Liver function.			
05		Renal function,			
06		Gastric function,			
07		Solutions, Metabolisms			
08		Enzyme, Coenzyme & isoenzyme, Enzyme of Clinical importance			
09		Methods: Blood sugar, Cholesterol, Bilirubin, Urea, Proteins, Uric acid, Creatinine, Amylase, Glucose tolerance test (GTT), Liver function test, Creatinine clearance test.			
10		General – PH, buffers, colloid & cyrtellid, solution.			
11		Applied- Metabolism - carbohydrate, lipid profile, DM, Acid-base balance			
12		Technique - ELISA/ Blood Gas analysis/ Electrolyte/HPLC/ Electrophoresis Normal value, estimation procedure and interpretation, blood sugar			

(Group-B) Haematology & Transfusion Medicine

13		Haemopoeisis			
14		Anaemias- Iron deficiency/ Combined deficiency/ Megaloblastic			
15		Haemoglobinopathies / Haemolytic Anaemias, Haemorrhagic disorders, Haematologic malignancies-leukaemias, Paraproteinaemias-Multiple Myeloma.			
16		Estimation of Haemoglobin, E.S.R, Blood film. Red cells indices- HCT, MCV, MCH MCHC Total & differential leucocyte count. TC ,			

		Platelet/ RBC,Reticulocyte count.			
17		Bone marrow examination, Cytochemical staining, LE cell preparation.			
18		Flowcytometry/ electrophoresis			
19		Blood grouping and Rh factor. Selection and screening of donor.			
20		Compatibility test- Cross matching- Coombs test.			
21		Transfusion reactions.			

K: Knowledge, S: Skill

(>80%: Excellent, 70-80%: Good, 60-70%: Average, <60%)

Performance: Excellent/Good/Average

Paper- III (Group – A) General Pathology

Sl. No.	Date & Duration	Topic	Assessment		Initial of trainer /supervisor
			K	S	
01		Cellular adaptation			
02		Inflammation			
03		Necrosis			
04		Tumors			
05		Haemodynamic Change			
06		Infectious diseases			
07		Immunological disease			
08		Medical Genetics (in brief)			
09		Routine histopathological technique demonstration, Cytopathology technique & utility.			
10		Frozen section-technique & utility.			
11		Common cytopathological & histopathological stains.			

(Group-B) Clinical Microbiology

12		General- Sterilization			
13		Systemic- Staphylococcus, Streptococcus			
14		Pneumococcus, Corynebacterium, Mycobacterium, Neisseria			
15		Clostridium, Salmonella, Shigella, Vibrio, E coli			
16		T. Pallidum			
17		Staining Principle: Gram, Albert's, AFB etc.			
18		Cultivation- Routine diagnostic medias- Culture preparation, Sterilization, Inoculation,			
19		Special medias and utility.			
20		Isolation of bacteria from unknown specimens like T/S, Rectal swab, stool.			
21		Sensitivity test- Demonstration of sensitivities of bacteria to antibiotics.			
22		Diagnosis of tuberculosis, typhoid fever and syphilis.			
23		Mycology –classification of Fungus, Candida, Dermatophytes with demonstration.			

K: Knowledge, S: Skill

(>80%: Excellent, 70-80%: Good, 60-70%: Average, <60%:)

Performance: Excellent/Good/Average

Leave record

From	To	No. of days	Reason	Supervisor's signature

CERTIFICATE OF ACCURACY

I certify that the information contained in the LOGBOOK is a true and accurate record of my training experiences.

Trainee's Signature -----Date-----

Certification of satisfactory completion of logbook

I, to the best of my knowledge, certify that

Dr.....

has satisfactorily completed this logbook as required by the university.

**-----
Signature of the chairman**

Name :

Discipline :

Date :