



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A++' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai -410 209

Tel 022-27432471, 022-27432994, Fax 022 -27431094

E-mail: registrar@mgmuhs.com; Website :www.mgmuhs.com

Curriculum for Fellowship in Blood Transfusion

(with effect from 2018-19 Batches)

Amended as per AC - 48/2023, Dated 12/12/2023

Amended History

1. Approved as per BOM - 53/2018, [Resolution No.4.8], Dated 19/05/2018.
2. Amended as per AC - 48/2023 [Resolution No. 5.20], Dated: 12/12/2023.**

- 1) Title of fellowship – Fellowship in blood Banking
- 2) Duration of fellowship – 1 Year (12 months)
- 3) Commencement (1 st batch) – 1 /12/2018
- 4) Objectives of the fellowship:
 - A) To get trained in blood banking thoroughly
 - B) To get approved as Blood bank officer from FDA
 - C) Plan & execute new blood bank
 - D) Understand basic & advances in blood banking
 - E) Should able to train doctors, paramedical staff, nurse & PRO
 - F) Should use rationally blood component products.
 - G) Make & keep total blood bank records as required
 - H) Should able to organize & conduct blood donation camps
 - I) Able to supervise and work with subordinates & colleague in blood bank
- 5) Eligibility criteria of admission :- MBBS
- 6) Intake capacity in each batch – Two
- 7) Admission/selection process/Procedure :- II nd MBBS pathology marks
- 8) Fees – 50000/-
- 9) Course content

A) Collection & Blood processing	3hrs
Donor registration	1 hr
Donor selection	1 hr
Adverse donor reaction	1 hr
B) Storage & Preservation of blood	1 hr
C) Principles of Immunohematology	1 hr
D) ABO blood group system	1 hr
E) The Rh blood group system	1hr
F) Other blood groups	1hr
G) Leucocytes & Platelets antigens	1 hr
H) Antoglobulin test	1hr
I) Screening & identification of Antibodies	1 hr
J) Pretransfusion tesing& selection of blood	1hr
K) Compatibility testing	1hr
L) Adverse effect of blood transfusion	1hr
M) Transfusion transmitted disease & testing	1hr

N) Haemolytic disease of newborn (HDN)	1hr
O) Blood component preparation	1hr.
P) Rational use of blood	1 hr
Q) Haemapheresis (Apharesis)	1 hr
R) Quality Assurance	1hr
S) Transfusion practise in clinical medicine	1hr
T) Plasma proteins & plasma substitutes	1hr
U) Record keeping & computerisation	1hr
V) NABH requirement	1hr
W) Revision	4 hrs

Practical syllabus

- Must attend all blood donation camps at least for 10 months
 - Donor registration & selection
 - TTD testing
 - Component preparation
 - Quality control in blood banking
 - Rational use of blood
 - Issue of blood bag
- 10) Teaching scheme (total periods allotted to each topic – 1 hr each)
- 11) Complete curriculum of the course
- A) Introduction to blood bank- General functioning of blood bank
 - B) Immunohematology – To study immunological aspect of blood bank in relation with antigen, antibody, Ag-Ab reaction. Student should understand utility & blood transfusion reaction
 - C) Organisation, conduction of blood donation camps
 - D) Management of adverse blood donor reaction including CPR training
 - E) Knowledge- Should know how to set up new blood bank
 - Should able the handle blood donation camps
 - Should know TTD testing thoroughly
 - Should know quality testing, control & indicators.
 - Must know rational use of blood
 - F) Teaching learning method
 - Diadactic lectures
 - Seminar

Journal clubs

Hands on experience in blood banking

Blood donation camps

12) Text books & Reference books

WHO manual of blood bank

Mollison book on blood banking

13) Scheme of examination

Theory paper – 3hrs of 100 marks

BAQ any 5 out of 6 (5x10= 50)

LAQ (2x25= 50)

Practical-

Blood grouping 10 marks

Cross matching 10 marks

TTD testing 10 marks

Component separation 10 marks

Issue of blood bag 10 marks

Viva voce 50

Total – 100.

Minimum passing marks 50% in theory & practical.

14) Infrastructure required for conducting course & its availability in

college /hospital – yes

FDA approved blood bank

NABH accredited blood bank

Availability of lecture hall/seminar hall, AV aids, etc

Teaching faculty & trained staff

15) Faculty requirement (with qualification) for conducting course

1) Professor 1 M.D. (Path.)

2) Associate professor 4 M.D. (Path.)

3) Assistant Professor 6 M.D. (Path.)

16) Addition of one research project with prior EC approval and defined duration of six months and one research publication (atleast submitted for publication), to be applicable from academic year or batch 2024 onwards.**



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