



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

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Curriculum for Fellowship in Blood Transfusion

(with effect from 2018-19 Batches)

Approved as per BOM - 53/2018, Dated 19/05/2018.

Amended History

1. Approved as per BOM - 53/2018, [Resolution No.4.8], Dated 19/05/2018.

- 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 (Apheresis)	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.)



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