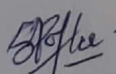


**Government Medical College and Hospital, Nagpur**  
**Department of Pathology**  
**Time table for Bsc PMT Blood Transfusion 1<sup>st</sup> year students Batch 2020**  
**Subject: - Introduction to transfusion technology, Lab management Paper II**

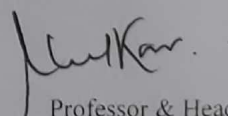
Sr. No.	Topics	faculty
1	Introduction to transfusion: Role and responsibility of transfusion technician, safety measures and first aid.	Dr.S.Poflee
2	Cleaning and care of general laboratory glassware and equipment. Principles, functions and uses of balances, centrifuge machines, colorimeters.	Dr.A.Khade
3	Collection and recording of biological specimens, separation of serum plasma preservation and disposal of biological samples/materials	Dr.S.Poflee
4	Laboratory Management and Planning. The reception and recording of specimen, cataloguing and indexing maintenance of laboratory records.	Dr.A.Khade
5	Introduction to microbiology lab, various types of specimens received	Dr.S.Poflee
6	A knowledge of working and maintenance of the following Incubators, Refrigerators, Water baths, Ovens, Steamers, Autoclaves, Inspissator, Centrifuges, Vaccum Pumps, Water Steel. Cleaning and sterilization of syringes and needles. Sample glasswares.	Dr.A.Khade
7	Sterilization: Methods of sterilization and their uses. Chemical, dry heat, steam sterilization, Tyndallization, filtration, sterilization by ultraviolet light.	Dr.S.Poflee
8	Care and use of microscope. Dark ground illumination, fluorescence and microscopy.	Dr.A.Khade
9	Introduction and scope of Pathology	Dr.S.Poflee
10	Introduction to Pathology lab, various types of specimens received	Dr.A.Khade
11	Laboratory Management and Planning. The reception and recording of specimen, cataloguing and indexing maintenance of laboratory records Methodology and importance of labeling and registration of sample for various investigations	Dr.S.Poflee
13	General principles of Haematology techniques collection, fixation, processing & routine staining, Haemoglobin, TLC, DLC, Peripheral smear, automatic cell counter	Dr.A.Khade
14	General principles of Blood Bank techniques antigen, antibody, ABO & Rh system	Dr.S.Poflee
15	Systemic Pathology, basis and morphology of common disorders like anemia, leukemia, AIDS, TB, Hepatitis & malaria. (laboratory findings)	Dr.A.Khade
16	Maintenance and medico legal importance of records and specimens.	Dr.A.Khade



Associate Professor

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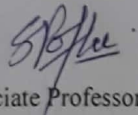
Govt. Medical College Nagpur

**Government Medical College and Hospital, Nagpur**  
**Department of Pathology**

**Time table for Bsc PMT Blood Transfusion 1<sup>st</sup> year students Batch 2020**

**Subject: - Introduction to blood bank, Legal aspects Paper- III**

Sr no.	Topic	Name
1	Introduction to blood bank overview, staff and their role, MSBTC and FDA	Dr. Sandhya Poflee
2	Instruments, equipments used in blood bank. List of instruments and their uses, general care, uses, quality control	Dr.A.Khade
3	General care of instruments, methodology of cleaning of glassware	Dr.S.Poflee
4	Record keeping in blood bank, various records in blood bank, method of record keeping	Dr.A.Khade
5	Criteria and procedure for blood donation, blood collection and its storage	Dr.S.Poflee
6	Component separation, storage and its issue, blood serology testing	Dr.A.Khade
7	Transfusion reaction and its lab investigations	Dr.S.Poflee
8	Role of NGO	Dr.A.Khade
9	Donor motivation, blood donation camps	Dr.S.Poflee
10	General precautions in handling of Blood	Dr.A.Khade
11	Preservation of Storage of blood Disposal methods	Dr.S.Poflee



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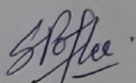
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Time table for Bsc PMT Blood Transfusion 2<sup>nd</sup> year students Batch 2019

Subject: - Elementary Hematology Paper – III

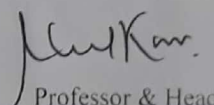
Sr. No.	Topics	Faculty
1	Collection of capillary & venous blood and anticoagulants	Dr.S.Poflee
2	Estimation of haemoglobin by copper sulphate (CuSO <sub>4</sub> ), Sahlis and Cyanmeth Hb method	Dr.A.Khade
3	Estimation of packed cell volume and ESR	Dr.S.Poflee
4	Estimation of total leucocyte count	Dr.A.Khade
5	Preparation, staining and examination of peripheral blood smear	Dr.S.Poflee
6	Estimation of differential leucocyte count and platelet count	Dr.A.Khade
7	Estimation of glucose six phosphate dehydrogenase	Dr.S.Poflee
8	Detection of foetal cells in maternal circulation	Dr.A.Khade
9	Haemoglobinopathies a. Abnormal haemoglobinopathies, thalassaemia & sickle cell anaemia. b. Alkali denaturation test c. Test for sickling	Dr.S.Poflee
10	Haemoglobin electrophoresis, Estimation of plasma haemoglobin	Dr.A.Khade
11	Collection & handling of blood samples for coagulation studies Mechanism of coagulation of blood	Dr.S.Poflee



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Time table for Bsc PMT Blood Transfusion 3<sup>rd</sup> year students Batch 2018

Subject: - Screening, grouping before blood transfusion Paper – II

Sr. No.	Topics	Faculty
1	Blood groups in general, ABO Blood group system & subgroups, and their importance	Dr.S.Poflee
2	Rh, Blood group system Detection of D <sup>u</sup> antigen	Dr.A.Khade
3	Preparation of serum, cell suspension (various percentages) and washing of RBC's . Compatibility test	Dr.S.Poflee
4	Antiglobulin Test (DAT&IAT), Compatibility test in AIHA	Dr.A.Khade
5	Detection of Immune anti bodies including Rh antibodies, elution of antibodies	Dr.S.Poflee
6	Titration of Anti A, Anti B &Anti D anti sera Detection & Titration of Immune antibodies Anti A, Anti B	Dr.A.Khade
7	Blood donor motivation propaganda	Dr.S.Poflee
8	Selection& bleeding of donors, Adverse reactions in blood donors & their management	Dr.A.Khade
9	Preservation& storage of blood for transfusion and storage effects	Dr.S.Poflee
10	Hazards of blood transfusion; Transfusion transmitted diseases Investigation of transfusion reactions	Dr.A.Khade
11	Preparation of various blood components &their Quality control Composition and fractions of plasma	Dr.S.Poflee
12	Indications of blood& blood component transfusion	Dr.S.Poflee
13	Auto logous transfusion	Dr.A.Khade
14	Organization of blood bank services & FDA Licensing of Blood Bank	Dr.S.Poflee
15	Disposal of infected blood units and other infected material , Disposable blood and fluid administration sets-components and Quality control	Dr.A.Khade
16	Crystalloid and colloid solutions	Dr.S.Poflee
17	Principles and various methods of sterilization	Dr.A.Khade
18	Elisa Reader- functions, operation and maintenance	Dr.S.Poflee
19	Introduction to cell separator-functions, operation and maintenance	Dr.A.Khade
20	Introduction to Stem cells, sources, collection and Cryopreservation	Dr.S.Poflee



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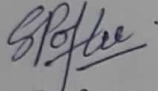
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Department of Pathology

Time table for Bsc PMT Blood Transfusion 3<sup>rd</sup> year students Batch 2018

Subject: - Transfusion reactions, Recent advances in transfusion Paper – III

Sr. No.	Topics	faculty
1	Preparation and maintenance of emergency tray	Dr.S.Poflee
2	Maintenance and checking of instruments, equipments used during transfusion reactions	Dr.A.Khade
3	Recent advances in transfusion technology	Dr.S.Poflee



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