

MASINDE MULIRO UNIVERSITY
DEPARTMENT OF MEDICAL LABORATORY SCIENCES

BMH 825: BLOOD DONOR SERVICES MANAGEMENT (4 CREDIT HOURS)

Lecturer: Mr. Paul M. Kosiyo

Course objective:The purpose of the course is to equip learners with advanced Practical skills and knowledge on Blood groups, basis and methods in blood cross-matching, concepts, principles and methods for the processing and storage of donor blood

Learning Outcomes:

1. Discuss Blood donor selection and phlebotomy
2. Discuss preparation and use of blood components in transfusion therapies
3. Discuss donor blood safety
4. Discuss management of blood donor services and supply
5. Discuss management of Blood transfusion services
6. Apply relevant skills and knowledge in the management of Blood transfusion and donor services

CONTENTS AND OUTLINE:

Phlebotomy: Donor selection-qualification of a blood donor, donor bleeding, amounts to bleed; Anticoagulants;**Blood screening:** screening methods; component preparation, use of components, storage. **Cross-match:** types, procedure, issuing of blood, reactions; **Blood donor services:** Donor center management, donor recruitment, day to day running of the center; Blood supplies management; **Transfusion services:** blood cross-match, monitoring, issuing to the wards, record management, investigation of transfusion reactions; Hospital transfusion committee; activities, role in the hospital, members; Biosafety in blood donor activities

Week 1:Phlebotomy:Donor selection-qualification of a blood donor, donor bleeding, amounts to bleed

Week 2: Anticoagulants

Week 2Blood screening: screening methods; component preparation, use of components, storage.

Week 3:Cross-match: types, procedure, issuing of blood, reactions

Week 4: CAT I

Week 5:Blood donor services: Donor center management, donor recruitment, day to day running of the center; Blood supplies management

Week 6:Transfusion services: blood cross-match, monitoring, issuing to the wards

Week 7: record management

Week 8: CAT II

Week 9: investigation of transfusion reactions

Week 10: Hospital transfusion committee; activities, role in the hospital.

Week 11&12:Biosafety in blood donor activities

REFERENCES.

REFERENCES

1. McCraw-Hill. Williams Hematology, 4th Edition
2. McKenzie, S.B. (2004). Clinical Laboratory Hematology. Prentic-Hall, Inc. ISBN 10: 0130199966, ISBN 13: 9780130199966.
3. Bernadette F. Rodak, George A. Fritsma, Elaine Keohane. (2011). Hematology: Clinical Principles and Applications, 4th Edition. Saunders

Teaching-Learning Strategies

Lecture, Group work and presentations, E-learning, Reading assignments and Seminars, Self-directed learning, Field visits

ASSESSMENT:

Continuous assessment tests	40%
End of Semester Examination	60%
Total	100%

Cc: The HOD, Department of Medical Laboratory Sciences