

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Spring
Course Information for MA 316 BLOOD TRANSFUSION

Course Name: BLOOD TRANSFUSION					
Code MA 316	Regular Semester 6	Theoretical 2	Practical 2	Credits 3	ECTS 4
Name of Lecturer(s)- Academic Title: Peshraw Salih - Lecturer					
Teaching Assistant: Mohammad Qadir					
Course Language: English					
Course Type: Main					
Office Hours Tuesday and Thursday					
Contact Email: peshraw.salih@tiu.edu.iq Tel:07504831614					
Teacher's academic profile: MSc					
Course Objectives: 1. Introduce the basic principles and concepts in the blood transfusion. 2. Introduce the Transfusion ten commandments 3. Describe the activities required in preparation for transfusion. 4. Introduce the main and most required blood tests before blood transfusion 5. Identify the problems in clinical medicine that are related to blood transfusion. 6. To explain the blood grouping systems and their importance in transfusion therapy. 6. To identify equipment used to administer a transfusion ad its proper usage. 7. To describe the clinical management of a blood component infusion.					
Course Description (Course overview): The process of transferring blood or blood products into the circulation of an individual is called blood transfusing. This can be a complex and potential hazardous procedure yet is vital in medical practice. This course aims to provide our students insight into the intricate delicacies of blood transfusion and prepare them for future roles involving this practice.					

COURSE CONTENT

Week	Hour	Date	Topic
1	2	6-10/2/2022	Introduction to blood transfusion
2	2	13-17/2/2022	Introduction to blood transfusion, cont
3	2	20-24/2/2022	ABO in the Context Blood Transfusion
4	2	27/2-3/3/2022	Blood Transfusion in Medicine and Surgery
5	2	6-10/3/2022	Blood Transfusion Practices in Major Orthopaedic Surgery
6	2	27-31/3/2022	Scope of Blood Transfusion in Obstetrics
7	2	3-7/4/2022	Blood screening
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	Midterm Exam
10	2	24-28/4/2022	Blood screening continue
11	2	8-12/5/2022	Storage conditions, shelf-life and transport
12	2	15-19/5/2022	Preventing Transfusion Transmitted Infections
13	2	22-26/5/2022	Implicating the Need for Serological Testing of Borna Disease Virus and Dengue Virus During Blood Transfusion
14	2	29/5-2/6/2022	Human T-Lymphotropic Viruses (HTLV)

15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam
COURSE/STUDENT LEARNING OUTCOMES			
1	Account for background, principle and carrying-out of basic and commonly occurring laboratory methodology within transfusion medicine		
2	Describe the genetics and AB0-systemets structure of the blood group systems - explain the Rh-system and D the importance of the antigens within transfusion medicine		
3	Possible complications of transfusion and the practical aspects of transfusion Medicine.		
4	be able to explain the principles used for detection and identification of blood group antigens and antibodies and apply them to problem-solving activities including but not limited to case studies		
5	Perform Quality management and optimal utilization of blood bank products.		
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)			
Program Learning Outcomes			Cont.
1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.		P
2	apply principles of evidence-based medicine to determine clinical diagnoses.		P
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.		A
4	formulate and implement acceptable treatment modalities to various disease states.		
5	use technology effectively in the delivery of instruction, assessment, and professional development.		A
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.		A
7	exhibit organizational skills, accountability, and ethical behavior.		A
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.		A
9	apply problem-solving and decision-making skills.		A
10	apply and promote health policies and regulatory standards in the field career.		A
11	develop research in the field of medical analysis using qualitative and quantitative methods.		A
Prerequisites (Course Reading List and References):	1. Paula R Howard - Basic & Applied Concepts of Blood Banking and Transfusion Practices- Mosby (2016) 2. P. Kochhar - Blood Transfusion in Clinical Practice-Intech (2012) 3. Helen F. Galley, Helen Galley - Critical Care Focus 8. Blood and Blood Transfusio		
Student's obligation (Special Requirements):	Class attendance: Students are expected to attend all classes of this course (without exception). A prior approval is required for class absence except for emergencies. Tardy: Any student coming late will not be allowed to attend the class and he/she will be marked absent. Exam: Failure in attending a course exam will result in zero mark unless the student provides an excuse acceptable to the Dean who approves a re-sit exam. Failed courses will normally be reassessed in the scheduled semester. It is your responsibility to attend the exam at the correct time and place.		
Course Book/Textbook:	Clinical Laboratory Blood Banking and Transfusion Medicine Practices. Principles and practices. Gretchen Johns, William Zundel, Elizabeth Gockel-Blessing , Lisa Denesiuk 1st edition		
Other Course Materials/References:	Handbook of transfusion medicine, Dr. Derek Norfolk . 5th edition		
Teaching Methods (Forms of Teaching):	Lectures, Practical sessions, Exercises, Presentation, Self evaluation, Assignments, , ,		
COURSE EVALUATION CRITERIA			
Method	Quantity	Percentage (%)	
Attendance	1	5%	
Quiz	1	5%	
Homework	1	5%	
Midterm Exam	1	30	
Laboratory	1	5%	
Practical Exam	1	5%	
Laboratory activity	1	5%	