

UNIWERSYTET MEDYCZNY IM. KAROLA MARCINKOWSKIEGO W POZNANIU

Katedra i Zakład Fizjologii

Human Physiology

Exercise: Blood Group Serology

Instructor: Joanna Bartkowiak-Wieczorek

- 1. Prerequisites (knowledge students should have before starting the exercise):
 - a. Blood Group Serology
 - b. Antigens: definition, classification, examples, chemical and biological characteristics.
 - c. Immunoglobulins (antibodies): structure, types, biological characteristics, and clinical significance.
 - d. Blood group systems ABO, Rh: inheritance of ABO and Rh system genes, location of antigens and antibodies, characteristics of antibodies, and Landsteiner's rules.
- 2. Special Requirements: Protective clothing (lab coat) is mandatory.
- 3. Scope of the Exercise
 - a. Blood Group Serology
 - b. Incompatibility and serological conflict in the ABO system.
 - c. Incompatibility and serological conflict in the Rh system.
 - d. Hemolytic disease of the newborn.
 - e. Principles of blood transfusion compatibility serological compatibility testing (cross-match test).
 - f. Determining blood group.
 - g. Determining bleeding time using the Duke method.
 - h. Estimating coagulation time on a basic microscope slide.
- 4. Literature:



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- a. Silverthorn, D.U. *Human Physiology: An Integrated Approach*, Global Edition.
- 5. Knowledge of the basic and exercise-specific material is required to pass the topic. Additionally, students are expected to be familiar with the content discussed during the classes.