

Department of Medical Physiology, School of Medicine, SUMS
Second Semester (1403-1404)

Medical Physiology- I Course for Pharmacy Students

Time & place = Monday 8-10 and 10-12, School of Pharmacy

Cell physiology (16hr, score: 4.7): Dr. A. Rashidy-Pour (PhD), Professor of Medical Physiology

- 1- 29/11/1403 Structure and function of cell membrane
- 2- 29/11/1403 Transport of cell membrane and osmosis
- 3- 06/11/1403 Membrane potential
- 4- 06/11/1403 Action potential (generation & conduction)
- 5- 13/12/1403 Synaptic transmission and cell signaling
- 6- 13/12/1403 Skeletal Muscle I
- 7- Makeup Skeletal Muscle I
- 8- Makeup Smooth Muscle

Cardiac Physiology (12hr, score: 3.6): Dr. K. Sedaghat (PhD), Associate Professor of Medical Physiology

- 9- 20/12/1403 Heart muscle
- 10- 20/12/1403 Excitation –contraction-coupling
- 11- 18/01/1404 Mechanical performance of cardiac muscle
- 12- 18/01/1404 Cardiac cycle
- 13- Makeup ECG
- 14- Makeup Cardiac abnormalities

Respiratory Physiology (12hr, score: 3.5 Dr. M. Zahedi (PhD) Associate Professor of Medical Physiology

- 23- 25/01/1404 Pulmonary Ventilation-I
- 24- 25/01/1404 Pulmonary ventilation-II
- 25- 01/02/1404 Pulmonary circulation
- 26- 01/02/1404 Physical principles of gas exchange
- 27- Makeup Transport of O₂ & CO₂ in blood
- 28- Makeup Regulation of Respiration

Circulatory system (16hr, score: 4.7), Dr. A. Vakili (PhD), Professor of Medical Physiology

- 15- 08/02/1404 Blood vessel function & structure& Homodynamic
- 16- 08/02/1404 Function artery & vein
- 17- 15/02/1404 Arterial blood pressure
- 18- 15/02/1404 Microcirculation and lymphatic system
- 19- 22/02/1404 Local& Nervous control of Circulation
- 20- 22/02/1404 Nervous control of circulation & arterial pressure
- 21- Makeup C/O and venous return& long term control blood pressure
- 22- Makeup Circulatory shock

Gastrointestinal Physiology (12hr, score: 3.5) Dr. Miladi-gorji (PhD), Professor of Medical Physiology

- 29- 29/02/1404 GI Regulation
- 30- 29/02/1404 Motility I
- 31- 05/03/1404 Motility II
- 32- 05/03/1404 Secretion I
- 33- 12/03/1404 Secretion II
- 34- 12/03/1404 Digestion and Absorption

References: Textbook of Medical Physiology, Guyton & Hall, 2023