

Dr. Mona Soliman, MBBS, MSc, PhD Head, Medical Education Department Chair Cardiovascular Block







We are pleased to welcome you in the college of Medicine, Cardiovascular Block We hope you will find this block both useful and enjoyable.

The Cardiovascular Block Goals and Objectives



By the end of the course the students must be able to:

- I. Identify the <u>normal structure and the functions</u> of the cardiovascular system.
- 2. Recognize <u>common diseases</u> affecting the cardiovascular system, their presentation and pathophysiology of related symptoms and signs.
- 3. Identify the <u>risk factors</u> related to the diseases, their <u>prevention</u> plan for these diseases.
- 4. Recall some <u>basic management</u> plan for common diseases effecting CVD.
- 5. Demonstrate the <u>clinical skills</u> related to the cardiovascular system, examinations including measuring BP, recording radial pulse and examination of systematically

The Cardiovascular Block Teaching and Learning Modes



- Small group discussion
- Lectures
- Student-led seminars
- Practical classes.
- Clinical skills
- Independent learning

Assessment of Students in the Block



Small Group	5
 Short Answer Questions (SAQs) 	20
Final MCQs	40
• OSPE	35
• Total	100%

The Cardiovascular Block Learning Resources



- Textbooks which have been prescribed and recommended by teaching staff
- Lecture handouts on the blackboard
- Library and internet service
- Skills lab at the medical education center

The Cardiovascular Block BlackBoard

- Students are invited to log in to the King Saud University web site at <u>www.ksu.edu.sa</u>
- You can log in with your student user name and password
- You will find:
 - Schedules
 - Objectives
 - Contents
 - Lecture hand outs
 - Announcements
 - Results



Contents

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Week I:

Theme "Normal Heart , Arrhythmias and Cardiac Cycle"

<u>Lectures</u>

- Introduction to cardiovascular block
- Anatomy of the heart (Anatomy)
- Structure of the cardiac muscle (Histology)
- Contractile mechanism in cardiac muscle (Physiology)
- Cardiac electrical activity (Physiology)
- The Cardiac Cycle I (Physiology)
- The Cardiac Cycle 2 (Physiology)
- The Electrocardiogram (Physiology)
- Arrhythmias (Physiology)
- Beta adrenergic blockers (Pharmacology)
- Alpha adrenergic blockers (Pharmacology)
- Antiarrhythmic drugs I (Pharmacology)
- Antiarrhythmic drugs 2 (Pharmacology)

Week I:

Theme "Normal Heart, Arrhythmias and Cardiac Cycle"

<u>Practicals</u>

- I. Anatomy of the heart (Anatomy)
- 2. Histology of the cardiac muscle (Histology)
- 3. The electrocardiogram (Physiology)

The Cardiovascular Block Week 2:

Theme "Valve disease, The Heart as a Pump and heart failure "

Lectures

- Heart sounds and murmurs (Physiology)
- Cardiac output I (Physiology)
- Cardiac output 2 (Physiology)
- Heart failure (Physiology)
- Pathology of rheumatic fever, endocarditis and heart valves (Pathology)
- Risk factors and pathogenesis of atherosclerosis (Pathology)
- Pathology and pathogenesis of ischemic heart diseases(Pathology)
- Infective endocarditis (Microbiology)
- Microbiology of myocarditis and pericarditis (Microbiology)
- Rheumatic heart disease (Immunology)
- Drug therapy for heart failure I (Pharmacology)
- **Drug therapy for heart failure 2 (Pharmacology)**
- Lactic acidosis (Biochemistry)

Week 2:

Theme "Valve disease, the Heart as a Pump and heart failure"

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Practicals

- I. Heart sounds (Physiology)
- 2. The recording of Jugular venous and carotid arterial pressures (Physiology)
- Problem- based learning: Case # 1

<u>Week 5:</u>

Theme "Atherosclerosis and Myocardial Infarction "

<u>Lectures</u>

 Anatomy of the arterial supply and venous drainage of the heart (Anatomy) 1957

- Coronary circulation (Physiology)
- Cholesterol metabolism (Biochemistry)
- Lipoprotein metabolism (Biochemistry)
- Lipoprotein and Atherosclerosis (Biochemistry)
- Biochemical markers of myocardial infarction (Biochemistry)
- Thrombolytic therapy (Pharmacology)
- Antianginal drugs I (Pharmacology)
- Antianginal drugs 2 (Pharmacology)
- Pathology of vasculitis (Pathology)

Practicals

Measurement of arterial blood pressure (Physiology)

Pathology of cardiovascular disease 2 (Pathology)

>We wish you will enjoy the Gardiovascular Block > Please don't hesitate to contact us regarding any concern > Please keep updated by logging to the Black Board Good Luck