

Cardiovascular Pathophysiology

Presentation guide

CC = Statement of the competence for a core competence

E = Elements of the competence for a specific statement of competence

P = Performance criteria for competency; associated with a specific element of the competence

Core Competence CC.6

Differentiate between the pathophysiology of diseases and disorders of the cardiovascular system as it pertains to respiratory therapy

*** Note, that for each of the diseases and disorders of the cardiovascular system, knowledge of the following distinct features may be expected in addition to the particular Performance Criteria for competency.**

Those distinct features are:

- Definition
- Epidemiology
- Risk factors
- Etiology
- Pathophysiology
- Clinical manifestations
- Laboratory and other findings
- Differential diagnosis
- Management
- Prognosis
- Prevention

E.1 Explain coronary atherosclerotic heart disease

P1.1 Describe coronary atherosclerotic disease per distinct features *

E.2 Compare valvular heart disorders

P2.1 Describe the following valvular heart disorders:

- Tricuspid stenosis, incompetence, regurgitation
- Mitral stenosis, incompetence, regurgitation
- Aortic stenosis, incompetence, regurgitation
- Pulmonary stenosis, incompetence, regurgitation

P2.2 Compare the above valvular heart disorders per distinct features *

E.3 Compare inflammatory heart disorders

P3.1 Describe the following inflammatory heart disorders:

- Pericarditis
- Endocarditis
- Myocarditis
- Cardiomyopathies
 - Dilated
 - Hypertrophic
 - Restrictive

P3.2 Distinguish the above inflammatory heart disorders per distinct features *

E.4 Compare peripheral vascular disorders

P4.1 Describe the following peripheral vascular disorders:

Arterial

- Arteriosclerosis
- Arterial thrombosis and embolism
- Aneurysm
- Aortic dissection
- Arterioplastic disease (Raynaud's)
- Pulmonary embolism

Venous

- Thrombophlebitis
- Deep venous thrombosis
- Varicose veins

P4.2 Distinguish the above peripheral vascular disorders per distinct features *

E.5 Compare congenital heart defects

P5.1 Describe the following congenital heart defects:

- Atrial septal defect
- Aortic stenosis
- Coarctation of the aorta
- Hypoplastic left/right ventricle
- Patent ductus arteriosus
- Pulmonary stenosis
- Right ventricular outflow tract obstruction
- Tetralogy of Fallot

- Total anomalous pulmonary venous return
- Transposition of the great vessels
- Tricuspid atresia
- Truncus arteriosus
- Ventricular septal defect

P5.2 Distinguish the above congenital heart defects per distinct features *

E.6 Compare the types of shock

P6.1 Describe the following types of shock:

- Anaphylactic
- Cardiogenic
- Distributive
- Hypovolemic
- Neurogenic
- Septic

P6.2 Distinguish the above types of shock per distinct features *

E.7 Compare the cardiovascular abnormalities

P7.1 Describe the following cardiovascular abnormalities:

- Hypertension
- Myocardial infarction
- Congestive heart failure
- Rheumatic heart disease
- Dissemination intravascular coagulation

P7.2 Distinguish the above cardiovascular abnormalities per distinct features *
