

MHD II, Small Group VIII
Correlative Lecture Objectives

MHD

Describe the major diseases associated with RSV, human metapneumovirus and parainfluenza virus infection.

Describe one problem associated with developing vaccines for RSV and parainfluenza viruses

In what part of the ventricular septum does a ventricular septal defect occur frequently? Describe the defect.

Give the reasons for development of pulmonary hypertension in left to right shunts in common type of congenital cardiac anomalies.

Describe the pathology (structural change), pathophysiology of atrial septal defect, ventricular septal defect, patent ductus arteriosus, and tetralogy of Fallot.

Draw the anatomical (structural) change in the cardiac anomalies listed. In general, determine the pressure changes in flow of blood in these anomalies.

Recognize the structural features of the influenza virion and its membrane glycoproteins; hemagglutinin, neuraminidase, M2

Identify the molecular basis for antigenic shift and drift, and recognize the epidemiologic consequences of each type of antigenic alteration

Describe how influenza viruses are collected, classified and used as vaccines

Name clinically useful anti-influenza drugs, identify their protein target and describe the process of amantadine-mediated inhibition.

Describe how measles virus is transmitted and when infected individuals are most likely to transmit the virus

State the virus associated with the development of SSPE and describe the type of virus isolated from the CNS of SSPE patients.

List the vaccines that are available to control viruses of the Paramyxoviridae family

Differentiate between acute and chronic arthritis syndromes

Structure of the Human Body

Describe:

The movements allowed at each joint.

The bones that contribute to the joint.

The muscles that act on each joint and their nerve supply.

The ligaments that support each joint

Correlative topics in First Aid for USMLE I 2011

p.168

p.170

p. 195

p.259

p. 267

Image 18A, 18B

p. 370

p.149, 150

p. 331