



MICROBIOLOGY

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



PAST PAPERS

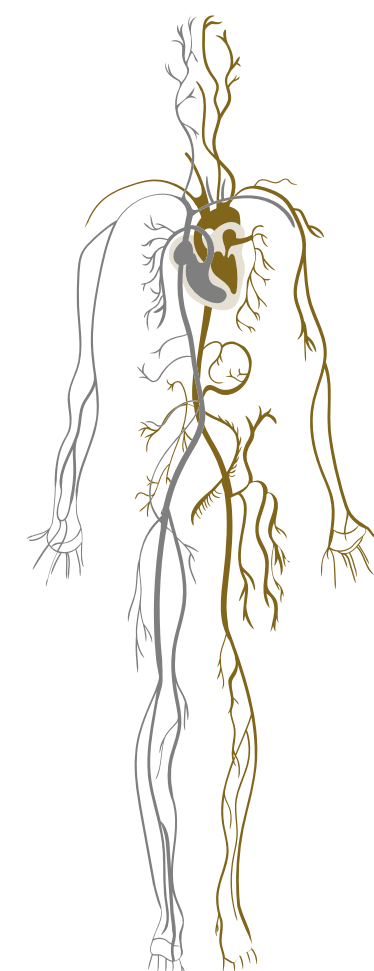
Lecture 1+2

وَلَقَدْ خَلَقْنَا الْإِنْسَانَ وَنَعْلَمُ مَا تُوَسْوِسُ بِهِ نَفْسُهُ وَنَحْنُ أَقْرَبُ إِلَيْهِ مِنْ حَبْلِ الْوَرِيدِ ﴿١٠٠﴾

اللهم إنا نعوذ بك من شرور أنفسنا ومن سيئات أعمالنا

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Infective Endocarditis

رَبِّ اشْرَحْ لِي صَدْرِي وَيَسِّرْ لِي أَمْرِي وَاحْلُلْ عُقْدَةً مِّن لِّسَانِي يَفْقَهُوا قَوْلِي

Q1: Given the diagnosis of infective endocarditis which of the following is incorrect :

- A) IE is a multisystem disease that results from infection, usually bacterial, of the endocardial surface of the heart and the epithelial lining of heart valves
- B) Rheumatic heart disease remains the key risk factor for infective endocarditis in low income countries
- C) Gram positive cocci are the most frequent causative agents of IE
- D) A gram positive, catalase positive, mannitol fermenter is the most common cause in IE in low-income countries
- E) Vancomycin plus gentamycin initiated immediately after blood samples are taken for cultures

Ans : D

Q2: The main mechanism of rheumatic fever :

A) Bacterial or infectious cause

B) Autoimmune by antibodies against M protein

Ans : B

Q3: All of the following statements regarding viridans streptococcal group infective endocarditis are correct except the causative agents are correct except:

- A) Causative agents are gram +, catalase -, a Hemolytic optochin resistant and bile and insoluble
- B) pathogenesis involve dextran (biofilm)-mediated adherence onto both normal or damaged heart valve and to each other (vegetation)
- C) St. Mutans, st. mitis Account for many IE cases, and tend to be less susceptible to penicillin
- D) VGS causes hectically febrile illness that rapidly damages cardiac structures, seeds extra cardiac sites, and, if untreated, progresses to death within weeks
- E) Common cause of dental carries hence prophylactic antibiotics prior to dental work for individuals with damaged heart valve is recommended

Ans : D

Q4: A patient came with endocarditis. He has had a prosthetic valve for 5 years. Investigations show catalase positive and coagulase negative bacteria. Which of the following is the cause?

- A) Staph aureus
- B) Staph epidermidis
- C) Staph saprophyticus
- D) Group A strep

Ans : B

Q5: Not a predisposing factor for infective endocarditis:

A) Prosthetic valves

B) Diabetes

C) Immunodeficiency

Ans : C

Q6: Most common cause of acute endocarditis :

- A) Staph aureus
- B) Staph epidermidis
- C) Aggregatibacter

Ans : A

Q7: Most common cause of subacute infective endocarditis :

A) S.pyogenes

B) Enterococcus

C) Viridans streptococci

Ans : C

Q8: Most common cause of endocarditis :

- A) Enterococcus
- B) Candida albicans
- C) Salmonella
- D) Viridans streptococci
- E) Brucella

Ans : D

Q9: Infection with subacute infective endocarditis is associated with the following:

- A) Abnormal valves
- B) Congenital deformities
- C) Rheumatic lesions
- D) A & B
- E) All A , B & C

Ans : E

Q10: Which of the following is the most common cause of infective endocarditis in developing countries :

- A) S.aureus
- B) S.viridans
- C) Fungi
- D) Haemophilus influenza

Ans : B

Q11: Rheumatic fever is a complication of :

A) Group B strep

B) Group A strep

Ans : B

Q12: Catalase negative, coagulase negative alpha hemolysis and causes subacute Endocarditis :

Streptococcus viridans

Viral Hemorrhagic Fever

اللَّهُمَّ لَا سَهْلَ إِلَّا مَا جَعَلْتَهُ سَهْلًا، وَأَنْتَ تَجْعَلُ الْحُزْنَ إِذَا شِئْتَ سَهْلًا

Q1: Which of the following is incorrect about VHF:

Ans : Ribavirin is used for filoviredeas.

Q2: Which of the following does not transmit person to person?

- A. Ebola virus
- B. Lassa virus
- C. Dengue virus
- D. Marburg virus

Ans : c

Q3: Which of the following is wrong about viral hemorrhagic fever?

A. All are enveloped viruses

B. All are SSRNA viruses

C. All are zoonotic and classified into Arboviruses and non-arboviruses

D. Arboviruses which are transmitted by arthropods such as Flaviviridae ,
bunyaviridae and hantavirus.

Ans : D

Q₄: Which of the following is wrong regarding filoviridae?

Ans : It primarily infects liver cells resulting in fever, jaundice and hemorrhage

Q5: The dengue virus, one is correct:

- A) The virus is limited to Karnataka, India.
- B) A live attenuated vaccine for dengue fever is available.
- C) Infection by a single serotype provides immunity only to the infecting serotype.
- D) The dengue virus has 5 serotypes that cause a variety of clinical manifestations.
- E) It is the least widespread virus in the world.

Ans : c

Q6: Which of the following is true regarding Dengue fever?

- A) Infection with one serotype gives you immunity for the same serotype only.
- B) It has five serotypes
- C) It has negative ssRA

Ans :A

Q7: Human to human transmission occurs in viral hemorrhagic fevers EXCEPT:

Rift valley virus

Crimean-Congo hemorrhagic-fever

Ans : A

Q8: All of the following regarding viral hemorrhagic fever are correct EXCEPT :

- A) Hantaviruses, Rift Valley fever and Dengue are not associated with person-to-person transmission
- B) Arenaviruses are found in South America and Africa and are transmitted by Arthropods
- C) Yellow fever is associated with 2 types of infectious cycles
- D) Filoviruses cause the most lethal type of hemorrhagic fever
- E) Bleeding occurs frequently and is a common cause of death

Ans : B

Q9: Wrong about hemorrhagic fever:

- A) Vaccines are available for most viral infections
- B) Passive immunization is a good choice for immunocompromised patients

Ans : A

Q10: Wrong about Dengue fever :

- A) The vector is *Aedes aegypti*
- B) Incubation period is 3 to 4 weeks
- C) Has 4 serotypes

Ans : B

Q11: All of the following viruses cause hemorrhagic fever EXCEPT :

- A) Hantaviruses
- B) Bunyaviruses
- C) Polio virus

Ans : c

Q12: Which of the following doesn't transmit by direct contact between persons?

- A) Ebola virus
- B) Lassa virus
- C) Dengue virus
- D) Marburg virus

Ans : c

Q13: Which of the following Ebola types doesn't cause disease in humans:

- A) Ebola Reston
- B) Ebola Ivory Coast
- C) Ebola Sudan
- D) Ebola Zaire

Ans : A

Q14: Which of the following is wrong about VHF (Virus Hemorrhagic Fever)

A) It causes severe hemorrhage

B) Hanta virus needs vector to be transmitted

Ans : B

Q15: True about Dengue fever:

- A) DNA genomic
- B) non enveloped
- C) very severe in younger children

Ans : c

Q16: . A disease caused by Filovirus:

Ans : Ebola hemorrhagic fever

Q17: Wrong statement about hemorrhagic fever :

- A) Can be caused by arboviruses and non-arboviruses
- B) Most deaths occur due to severe bleeding

Ans : B

Q18: Which of the following is associated with nosocomial infection:

- A) Hantaviruses
- B) Dengue fever
- C) Yellow fever
- D) Lassa virus
- E) Ebola virus

Ans : E

رسالة من الفريق العلمي

A gentle reminder

تمسّك بدُعائك لأنك تدعو
الذي لا يزد عبده مهزوماً أبداً

لا تنسونا من صالح دعائكم

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Corrections from previous versions:

Versions	Slide # and Place of Error	Before Correction	After Correction
V0 → V1			
V1 → V2			