

Q#:26

Serum cholesterol levels are significantly reduced by a diet with a low ratio of which of the following:

- Diglycerides to monoglycerides
- Saturated to polyunsaturated fatty acids
- Lactose to glucose
- Vitamin K to Vitamin D
- Cephalin to lecithin

Q#33

In a research study analyzing the correlation between hours of study and exam scores. Which type of diagram can be used to visually represent and analyze the relationship between these two variables?

- Pictogram
- Histogram
- Line chart
- Bar diagram
- Scatter diagram

Q#40

Fried egg appearance is a descriptive term used for a morphologic pattern likened to an egg fried with an intact yolk surrounded by an empty rim of cytoplasm or uninvolved material. Which one of the following bacteria shows fried egg colonies on culture media ?

- Bordetella
- Helicobacter
- Mycobacterium
- Mycoplasma
- Legionella

Q#53

A 70 year old gentleman known case of COPD is brought to ER with drowsiness since morning. On examination he is drowsy with a GCS of 11/15. Heart rate is 110/m, BP 150/80 mmHg, Oxygen saturations are 75% on pulse oximeter and respiratory rate is 30/m. On auscultation he has wheeze. ABGs show: pH 7.28, PCO₂ 80 mmHg (Normal < 45), PaO₂ 50 mmHg (Normal > 70) , serum bicarbonate 30. What is the next best step in managing this patient?

- Oxygen inhalation
- Mechanical ventilator
- High flow nasal cannula
- CPAP
- Incentive spirometry

Q#82

A 33 year old woman with known hypertension is now 2 weeks' pregnant. Which of the following antihypertensive drug classes is absolutely contraindicated in this woman?

- Alpha-1 blockers
- Angiotensin -converting enzyme inhibitors
- Ca²⁺ channel blockers
- Central sympatholytics
- Potassium channel openers

Q#15

A 67 year old man complained to his physician of a dry, disturbing cough. In addition, he noted that food seemed to have lost its flavor. The man was recently diagnosed with stage 2 essential hypertension and had started a multidrug treatment 1 week earlier. Which of the following drugs most likely caused the patient's signs and symptoms?

- Captopril
- Clonidine
- Minoxidil
- Nifedipine
- Propranolol

Q#100

Pertussis, also known as whooping cough is a highly contagious respiratory disease caused by *Bordetella pertussis*. The preventive measure for *Bordetella pertussis* infection is the vaccination method, the pertussis vaccine is usually administered in combination with toxoids of Diphtheria and tetanus (DTaP) that is recommended by WHO for children, preteens, pregnant women, and adults who have never received it. What doses of the vaccine are usually recommended for children under six years?

- One dose of vaccine
- Two doses of vaccine
- Three doses of vaccine
- Four doses of vaccine
- Five doses of vaccine

Q#115

The abnormal physiological and biochemical changes at the time of death refer to:

- cause of death
- circumstances of death
- manner of death
- mechanism of death
- mode of death

Q#104

A 45 year old woman with known hypertension has been receiving hydrochlorothiazide and propranolol for several months. Now she has been diagnosed with variant angina, and her physician wants to revise her therapy. Which of the following would be the most appropriate therapeutic change to make at this time?

Add captopril to the therapeutic regimen

Add nitroglycerin to the therapeutic regimen

Substitute captopril for the propranolol

Substitute nifedipine for the hydrochlorothiazide

Substitute nifedipine for the propranolol

Q#65

In a workplace, several employees experience mild flu-like symptoms and continue to work without seeking medical attention. What is the most likely consequence of the presence of these subclinical cases in terms of influenza transmission?



Increased transmission due to active carriers



Reduced transmission due to mild symptoms



Longer duration of immunity



Delayed onset of the disease in the community



Decreased likelihood of an outbreak

Q#39

A 15-year-old adolescent has never received a diphtheria vaccination. What is the primary risk associated with this individual's immunization status?

- Risk of skin infections
- Susceptibility to gastrointestinal diseases
-

Increased risk of severe respiratory diphtheria

- Allergic reactions to other vaccines
-

Risk of developing non-communicable diseases

What is the primary purpose of cardiovascular disease risk stratification?

To diagnose cardiovascular diseases

To identify risk factors for CVD

To determine the appropriate treatment for CVD

To assess the likelihood of developing CVD

To monitor CVD progression

Q#28

Whooping cough (pertussis) is an acute respiratory infection marked by severe, spasmodic coughing episodes during the paroxysmal phase. Name the causative agent of whooping cough amongst the given microorganisms.

- Bordetella pertussis
- Haemophilus influenzae
- Mycoplasma pneumonia
- Streptococcus pneumonia
- Whooping cough virus

Q#:118

A 65 years old man complaining of severe pain is diagnosed to have myocardial infarction on ECG changes and elevated serum troponin. If he dies the next day, which of the following would almost certainly be found on microscopy of affected myocardium?



Coagulative necrosis with neutrophilic infiltration



Fibrotic tissue replacing infarcted tissue



No histologic changes



Slight swelling of tissue and change of color



Young fibroblast and new vessel

79 yrs old lady with type 2 DM is seen in OPD with gradually worsening shortness of breath for last 3 months. Her vitals are HR 102 beats /min reg . BP: 170/100, Oxygen saturation: 95% on room air. She has high JVP and pitting edema to mid shins. She has normal audible S1 +S2 with no added sounds. Her chest is clear.Echocardiogram shows Ejection fraction of 35%. She has been started on started on Spiromide by local doctor yesterday.Which other medicine/s will you start this patient on as 1st line treatment of heart failure.Choose single best option from the following options.

Beta blocker

Angiotensin Receptor Neprilysin Inhibitor (ARNI)

Dilatiazem

Beta blockers plus Angiotensin Receptor Neprilysin inhibitor (ARNI)

Digoxin

Q#105

Infections with Mycoplasma species have a wide spectrum of clinical symptoms and disease manifestations. Postpartum fever due to Mycoplasma hominis is treated with one of the given antibacterials. Name the appropriate choice of antibacterial.

- Azithromycin
- Ceftriaxone
- Gentamicin
- Penicillin G
- Vancomycin

Q#97

In medical practice the recommended Target Blood Pressure should be less than:

- 120 / 80
- 125 / 80
- 125 / 85
- 140 / 90
- 130 / 85

Q#95

Intravenous drug users (IDUs) are at increased risk of a wide range of potentially life-threatening infections such as pulmonary infection, infected deep venous thromboses and bloodstream infection. What is the most common bacterial infection associated with intravenous drug abuse?



embolic strokes that produce cerebral abscesses

infective endocarditis

osteomyelitis

pneumonia

pyelonephritis

Q#89

A 55 year old woman recently diagnosed with variant angina started treatment with isosorbide mononitrate and diltiazem. Which of the following actions most likely mediated the therapeutic effect of nitrates in the patient's disease?

Decreased diastolic perfusion time

Increased blood flow in large epicardial vessels

Increased cardiac contractility

Increased heart rate

Increased left ventricular end-diastolic volume

Q#86

The violent asphyxial death which involves both smothering and traumatic asphyxia is called:

- Bansdola
- Burking
- Hanging
- Strangulation
- Throttling

Q#84

A 20 year old woman comes to the pulmonologist complaining of fever, productive cough and swellings in both the sides of the neck. She complains of weight loss for past 5 months. Zeihl-Neelsen stain of her sputum reveals curved red rods against a blue background. What is your most probable diagnosis?

- Berylliosis
- Common cold
- Chest infection
- Sarcoidosis
- Tuberculosis

Q#81

Emphysema aquosum is found in which of the following?:

- Café coronary
- Drowning
- Lynching
- Magging
- Suffocation

Q#74

Sarah experiences asthma symptoms, including wheezing and shortness of breath, primarily during the spring and on days when she cleans her house. What type of asthma is Sarah most likely suffering from?

- Extrinsic asthma
- Intrinsic asthma
- Allergic asthma
- Non-allergic asthma
- Stress-induced asthma

Q#70

A 60 year old lady with uncontrolled diabetes presents with high grade fever, cough and right sided chest pain for the past 7 days. She is short of breath since yesterday. On examination her heart rate is 120/m, BP 100/70 mmHg, Temperature 102°F, oxygen saturations 92% on 3 L/m oxygen and respiratory rate of 30/m. She has decreased chest movements on right side with dull percussion note. On auscultation breath sounds are absent on right side. Chest X-ray shows right sided pleural effusion. 10 ml pus is aspirated on thoracentesis that shows gram positive cocci on staining. How will you manage her?

- CPAP
- Thoracotomy
- Pleurodesis
- Incentive spirometry
- Right sided chest drain insertion

5. Cyanosis commences when deoxyhemoglobin reaches the concentration of:

- 2 gm/dl
- 3 gm/dl
- 4 gm/dl
- 5 gm/dl
- 10 gm/dl

Q#59

Which one of the following needs minimum pressure to be blocked/occluded?:

- Carotid arteries
- Jugular veins
- Larynx
- Trachea
- Vertebral arteries

Q#57

**. A baby is born in a hospital in Pakistan.
Which vaccination must be done on the first
day of birth?**

- BCG
- DPT
- Hep A
- Hep B
- MMR

Q#47

A 50 years old man complains of chest pain after exercise which is relieved by rest or sublingual nitroglycerine. Which of the following cardiac lesion is most likely present?

- Calcific aortic stenosis
- Coronary atherosclerosis
- Restrictive cardiomyopathy
- Rheumatic mitral stenosis
- Viral myocarditis

Q#46

The violent asphyxial death in which both smothering and traumatic asphyxia are used to cause death is called:

- Palmer strangulation
- Café coronary
- Burking
- Mugging
- Bansdola

Q#36

All intrinsic muscles of the larynx are supplied by Recurrent Laryngeal Nerve except

- Crico-thyroid muscle
- Posterior crico-arytenoid muscle
- Thyro-arytenoid muscle
- Lateral Crico-arytenoid muscle
- Lateral crico-arytenoid muscle

Q#31

You are conducting a longitudinal study to answer the research question “in adolescent population with clinically diagnosed depression, what is the likelihood of committing suicide in the 12 months after first diagnosis?” what will be the most likely purpose of this research question:

- Descriptive
- Diagnostic
- Explanatory
- Exploratory
- Predictive

Q#23

65 yrs old male presents to OPD with 2 days history of SOB on minimal exertion. He wakes up at night due to SOB and cough. His Heart rate is 100 beats /min regular. BP:150/90, Oxygen saturation 94% on room air. There is no rise in JVP and no pedal edema. He has normal audible S1+S2 with no added heart sounds.He has few bibasal crackles. Choose single best initial screening test to rule out diagnosis of Acute heart failure.

- Cardiac enzymes
- Renal profile
- NT-Pro BNP
- CXR
- ECG

Q#18

A 45 years old male, who is trumpet blower by profession presented with complaints of left sided neck swelling from the last 2 months. According to the patient, the swelling is most marked when he is blowing trumpet during weddings and the regresses in between. O/E patient had a swelling left side neck level III which disappeared on applying pressure. The patient is suffering from

- branchial cyst
- hemangioma
- Laryngocele
- Lymphangioma
- subglottic stenosis

A 55 years old woman gives history of angina pectoris after exercise for the last 2 years. Coronary angiography shows a fixed 75% narrowing of Left Anterior Descending Coronary Artery. Which of the following type of cells is the initial target in the pathogenesis of this arterial lesion?

- Endothelial cells
- Monocytes
- Neutrophils
- Platelets
- Smooth muscles

69 yrs old male presents with breathing difficulty. His Exercise tolerance is 100 yards. His vitals are Heart rate : 86 beats/min, irregularly irregular. BP: 136/84. Oxygen saturation 95% on room air. He has high JVP, pitting edema and bibasal crepts with significant wheeze. He also suffers from brittle asthma, which gets worse with beta blockers. Echocardiogram shows Ejection fraction of 33%. Choose single best combination of medications for this patient from the following options.



Loop diuretics plus Calcium channel blockers



Loop diuretics plus ACE inhibitor plus Aldosterone



Furosemide plus ACE inhibitor



ACE inhibitor plus SGLT2 inhibitor



SGLT2 inhibitor plus digoxin

Q#6

Presentation of data refers to an exhibition or putting up data in an attractive and useful manner such that it can be easily interpreted. The three main forms of presentation of data are Textual presentation, Data tables, and Diagrammatic presentation. Low birth weight (LBW) statistics of a hospital are best represented using:

- Bar chart
- Dot plot
- Pie chart
- Histogram
- Frequency polygon

Q#4

A public health campaign aims to control diphtheria in a region with a low vaccination rate, where recent outbreaks have occurred. Which preventive measure should be the primary focus of this campaign to effectively combat diphtheria in the community?

- Isolating infected individuals
- Improving sanitation
- Providing antibiotics
- Promoting vaccination
- Isolating affected areas

Q#13

You are conducting a survey to study medical students' attitudes towards attending classes and their satisfaction in order to test the hypothesis that attendance will be positively correlated with satisfaction. What is the purpose of this study?

- Descriptive
- Diagnostic
- Explanatory
- Exploratory
- Predictive

Q#16

73 yrs old lady is known to have heart failure with reduced ejection fraction of 32%. She presents to ER with worsening shortness of breath over the last 2 days. On arrival she is breathless, leaning forward. Her vitals are HR:116 beats /min, BP: 180/100 Oxygen Saturation: 82% on room air, Resp rate of 20/min. Chest x-ray shows upper lobe diversion. She is given oxygen support so that her Oxygen saturation are 96% via non re-breather mask. What other medications will you give to this patient for acute stabilization. Choose single best choice from the following options.

- Intravenous Nitrates and loop diuretics
- Intravenous loop diuretics
- Intravenous beta blockers
- Intravenous nitrates
- Intravenous Verapamil

Q#17

The most common cause of sudden death due to CVS diseases is:

- Cardiomyopathies
- Congenital heart disease
- Embolism
- Ischemic heart disease
- Myocarditis

Q#21

A 2 years old child is brought to the NWGH emergency with history of fever and vomiting. On examination he has neck rigidity. The CSF examination shows polymorphs more than 2000/ml, protein 100 mg/dl and glucose 10 mg/dl. The gram stain shows the presence of Gram negative coccobacilli. The culture shows growth of bacteria only on chocolate agar and not on blood agar. What is the most likely causative agent cause his illness?

- Branhamella catarrhalis
- Haemophilus influenzae
- Legionella pneumophila
- Mycoplasma pneumoniae
- Neisseria meningitidis

Q#25

About Mode of death, which of the following is correct:

- Coma, syncope, asphyxia
- Drowning, suspended animation
- Electrocution, shock, etc.
- Hanging, strangulation, choking
- Homicide, suicide, accident

Q#32

A 60 years old man complaining of severe crushing pain is diagnosed to have myocardial infarction on ECG changes and elevated serum troponin. If he dies the next day, which of the following would almost certainly be found on histologic examination of affected myocardium?



Coagulative necrosis with neutrophilic infiltration



Fibrotic tissue replacing infarcted tissue



No histologic changes



Slight swelling of tissue and change of color



Young fibroblast and new vessel

Q#34

Influenza pandemics are known to occur at intervals of 10 to 40 years. What is the primary reason for these periodic pandemics?

- Antigenic drift in influenza virus
- Environmental changes
- Lack of an effective vaccine
- Antigenic shift in influenza virus
- Extended incubation period

Mycoplasma pneumoniae commonly cause mild infections of the respiratory system, but is an important cause of atypical pneumonia. Regarding this organism, which one of the following statement is the most accurate?



Gram stain of the sputum reveals small gram-negative rods



It is an obligate intracellular parasite that can only grow within human cells in the clinical laboratory



Mycoplasma species can not be cultivated in vitro



Stain well with Giemsa stain, but stain poorly with Gram's stain



The cell wall contain bacterial peptidoglycan

Q#43

Most people will recover from an infection caused by *Mycoplasma pneumoniae* without antibiotics, but some people may need care in a hospital and antibiotic treatment. Which one of the following is the drug of choice for atypical pneumonia caused by *Mycoplasma pneumoniae*?

- Amoxicillin
- Azithromycin
- Ceftriaxone
- Gentamicin
- Vancomycin

Q#44

31. Most important sign of death due to drowning is :

A. Cutis anserina

B. Cyanosis

C. Fine froth coming out of nose and mouth

D. Washerwoman's hands of feet

E. Weeds and grass grasped in the hands

Q#56

A 10 year old boy comes to A&E with a history of sore throat a week back. Now he has pain and inflammation of knee joint. The doctor on examination hears a murmur in his heart. What is the most probable diagnosis?

- Cardiomyopathy
- Congestive cardiac failure
- Infective endocarditis
- Ischemic heart disease
- Rheumatic heart disease

Q#58

Prosthetic heart valves are increasingly being used for dysfunctional native valves requiring intervention. A general principle in infectious disease is that device or prostheses infections are difficult to cure without surgical removal of the infected device. Which one of the following is the most common cause of infections associated with prosthetic heart valves, intravenous catheters, and intracranial shunts?

- Actinomyces israelii
- Escherichia coli
- Proteus vulgaris
- Staphylococcus epidermidis
- Streptococcus pyogenes

Q#61

A young 20 year old male presented with chief complaints of sudden onset chest pain, palpitation and shortness of breath. He had a history of some upper respiratory tract infection two weeks ago. On examination he is febrile with heart rate of 120 beats per minute. His ECG showed some non specific t wave inversion and cardiac enzymes were elevated. He had been diagnosed with acute myocarditis. Which of the following condition is associated with a high risk of sudden death in patients with viral myocarditis ?

- Pulmonary Hypertension
- Pericardial friction rub
- Arrhythmia
- Pneumothorax
- Pleural Effusion

Urease test is a biochemical test used to determine the ability of an organism to split urea, through the production of the enzyme urease and indicated by pink colour in the medium. Which one of the following organism can hydrolyse urea?

- Acholeplama
- Escherchia colie
- Mycoplasma hominis
- Mycoplasma pneumoniae
- Ureaplasma spp

A 45-year-old woman comes to the clinic with headache and vomiting for the past 6 hours. She recently hiked the tallest mountain in Pakistan. On examination, she appears mildly confused and irritable. Respirations are 31/min and an oxygen saturation is 85% on room air. A medication with which of the following drug mechanisms, would be most useful in preventing this patient's illness?

- Blocks the effects of aldosterone
- Increases renal tubular fluid osmolarity
-

Inhibits NaCl reabsorption in the distal tubule



Inhibits the $\text{Na}^+/\text{K}^+/\text{2Cl}^-$ cotransporter at the loop of Henle



Prevents HCO_3^- reabsorption in the proximal tubule

Q#71

A 60 years old male presented to opd with complaints of shortness of breath and stridor from the last 2 months. He has a 30 years smoking history but quit about 2 years back. O/E he had an ulcerative growth arising from the left vocal cord. Patient undergoes microlaryngocopy and biopsy. Which of the following lesions would you expect on histopathology

adenocarcinoma of vocal cords

mucoepidermoid carcinoma of vocal cords

squamous cell carcinoma of vocal cords

transitional cell carcinoma of vocal cords

verrucous carcinoma of vocal cords

Q#80

A 48-year-old man experiences episodes of severe substernal chest pain every time he performs a work that requires mild exercise. The episodes have become more frequent and severe over the past year, but they can be relieved by sublingual nitroglycerin. On physical examination, he is afebrile, his pulse is 80/min and regular, Laboratory findings are creatinine, 1.1 mg/dL; glucose, 120 mg/dL; and total serum cholesterol, 220 mg/dL. Which of the following cardiac lesions is most likely to be present?

- Calcific aortic stenosis
- Coronary atherosclerosis
- Restrictive cardiomyopathy
- Serous pericarditis
- Viral myocarditis

Q#83

A 40 years old female, who is a teacher by profession presented to opd with complaint of hoarseness of voice from the last 3 years. There is no stridor. Her condition gets worse after she has given her lectures in classroom. You plan her for a fibre optic direct laryngoscopy. Which of the following findings will you expect in this patient

- vocal cord edema
- vocal cord malignancy
- vocal cord nodules
- vocal cord polyp
- vocal cord paralysis

Q#90

65 years old male patient admitted in ICU after having Stroke, he is planned for tracheostomy after 3 days of intubation. The most suitable level in the neck would be;

- High tracheostomy
- Mid tracheostomy
- Low tracheostomy
- Crico-thyrodotomy
- Percutaneous tracheostomy

Q#96

Cyanide poisoning results in:

- Anemic anoxia
- Anoxic anoxia
- Histotoxic anoxia
- Mechanical anoxia
- Stagnant anoxia

Q#99

You have outlined a detailed research protocol/proposal for your final research paper, and the section of your proposal that contains the purpose of your research with a full statement of the research question is

- Analysis
- Introduction
- Literature Review
- Methodology
- References

Q#102

Which of the following bacteria is most commonly responsible for causing acute endocarditis?

- Streptococcus viridans
- Staphylococcus aureus
- Streptococcus pneumoniae
- Staphylococcus epidermidis
- Enterococcus faecalis

Q#106

In a crowded daycare center, several children have developed symptoms of a respiratory illness. A child who was not vaccinated against diphtheria is diagnosed with the disease. How is diphtheria most likely transmitted among these children?

- Through contaminated toys and surfaces
- Ingesting contaminated food
-

Direct physical contact with the infected child

- Airborne respiratory droplets
- Sharing utensils during meals

Q#109

Smooth muscle, connective tissue, and cartilages of primary bronchi are derived from which of the following sources?

Neuroectoderm

Endoderm

Ectoderm

Mesoderm of 4th and 6th pharyngeal arches

Visceral mesoderm

Q#117

The most characteristic internal sign of drowning is:

- Distended abdomen
- Edema aquosum
- Larynx and trachea are congested
- Left side of heart is empty
- Right heart is full of dark blood

Q#119

You are attending medical outpatient clinic in N.W.T.H. and asked to see a 75 year old patient. He gives history of regular smoking for the last 40 years who now has fever of 102 degree F and a productive cough of yellow sputum. Gram stain of the sputum shows small gram negative rods. There is no growth on blood agar, but colonies grow on chocolate agar supplemented with haemin (X) and NAD (V). Which of the following bacteria is the most likely to cause of his pneumonia?

- Bordetella pertussis
- Haemophilus influenzae
- Klebsiella pneumoniae
- Legionella pneumophila
- Streptococcus pneumoniae

**Q#10**

A 47 year old man patient, recently diagnosed with exertional angina, had started a therapy with a transdermal nitroglycerin preparation 2 weeks previously. He carefully applied a new patch every morning immediately after removing the old one. Anginal attacks had disappeared completely during the first week of therapy but were back thereafter. Which of the following best explains the reason for his anginal episodes?

- Cellular tolerance to nitroglycerin
- Decreased absorption of nitroglycerin from the skin
- Increased metabolism of nitroglycerin
- Insufficient original nitroglycerin dosage
- Vasospastic angina complicating the exertional angina

PREVIOUS

NEXT

