



- A 30-year-old male presents with chest pain, fever, and fatigue. His Blood pressure is 100/80mmHg. ECG shows persistent ST-segment elevation in all leads. Echocardiogram reveals a moderate pericardial effusion. Chest X-ray shows a "water bottle" heart. What is the most appropriate initial treatment?
  - Colchicine
  - Corticosteroids
  - Noradrenaline
  - e. Pericardiocentesis
- A 55-year-old male patient presents to the emergency department with symptoms of chest pain and shortness of breath. His ECG shows persistent ST-segment elevation in the anterior leads, consistent with an acute anterior MI. Which of the following is the most appropriate initial management step? a. Administer thrombolytic therapy
  - b. Perform primary percutaneous coronary intervention
  - Start medical therapy with aspirin, beta-blockers, and ACE inhibitors
  - Order a cardiac MRI to confirm the diagnosis
  - Provide oxygen therapy and monitor the patient's condition
- A 72-year-old man presents with exertional dyspnea, chest pain, and dizziness for the past several months. He reports near-fainting episodes while climbing stairs. On examination, a harsh systolic murmur is heard at the right upper sternal border, radiating to the carotids. Echocardiography reveals severe aortic stenosis with an aortic valve area of 0.7 cm<sup>2</sup> and a mean gradient of 55 mmHg. Select the most appropriate next step in management. Medical therapy with beta-blockers and ACE inhibitors

  - Balloon aortic valvuloplasty

    Aortic valve replacement

  - Diuretics to reduce preload
  - Observe and monitor

# For NYHA-II ( Diwetics)

- e. Observe and monitor

  A 65-year-old male presents with progressive dyspnea NYHA III, fatigue, and bilateral leg edema. His blood pressure is 128/88mmHg. Echocardiography reveals a left ventricular ejection fraction (LVEF) of 30%. What is the most appropriate
  - Beta-blockers
  - d.
- confirmed Inotropes e. Oxygen

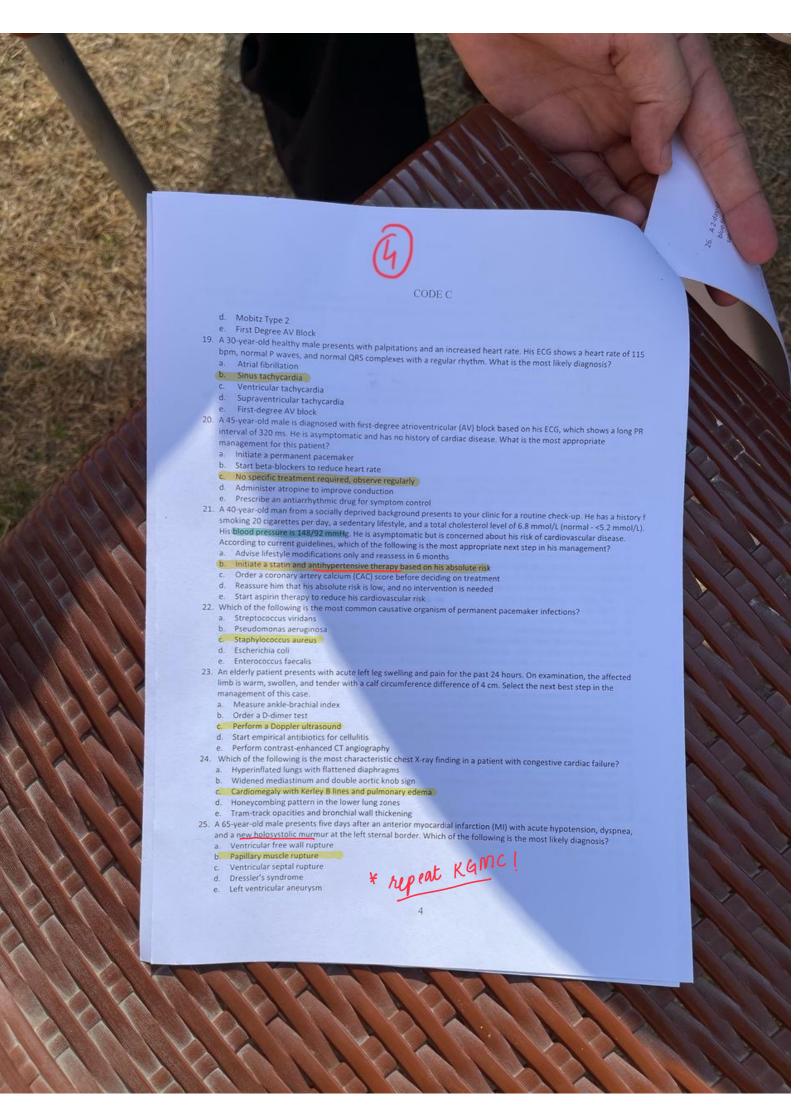
  10. A 68-year-old woman with a history of chronic heart failure presents to the clinic with increasing shortness of breath Oxygen A 68-year-old woman with a history of chromo-heart famore presents to the calling with the casing shortness of breath and over the past month. She reports that she feels comfortable at rest but experiences significant shortness of breath and
  - over the past month, one reports that she rees comfortable at rest but experiences significant shortness of pleating in fatigue when walking up the stairs or doing light housework. She is unable to perform activities like jogging or walking long distances without feeling exhausted. Select the NYHA class in which does this patient most likely fall into.
- Class II: Mild limitation of physical activity
- Class III: Severe limitation of physical activity d.
- Class IV: Symptoms at rest
- Patient odes do not fall in any of the class
- 21. A 72-year-old man with a history of heart failure and ischemic heart disease presents with increasing difficulty A 72-year-old than with a mattery of near calculate and ischeme the breathing over the past few weeks. He reports that he has been unable to walk more than 50 meters without feeling breathing over the past tew weeks. He reports that he has been unable to walk more than but meters without reging breathless and fatigued. He avoids climbing stairs and doing household chores due to his symptoms. At rest, he feels breathiess and ratigued. The avoids climbing states and doing mosterior choice due to the symptoms. Acrest, the recession, but any exertion, even minimal, triggers significant shortness of breath. Based on this information, which NYHA class does this patient most likely fall into? a. Class I: No limitation of physical activity
- b. Class II: Mild limitation of physical activity
- Class III: Severe limitation of physical activity

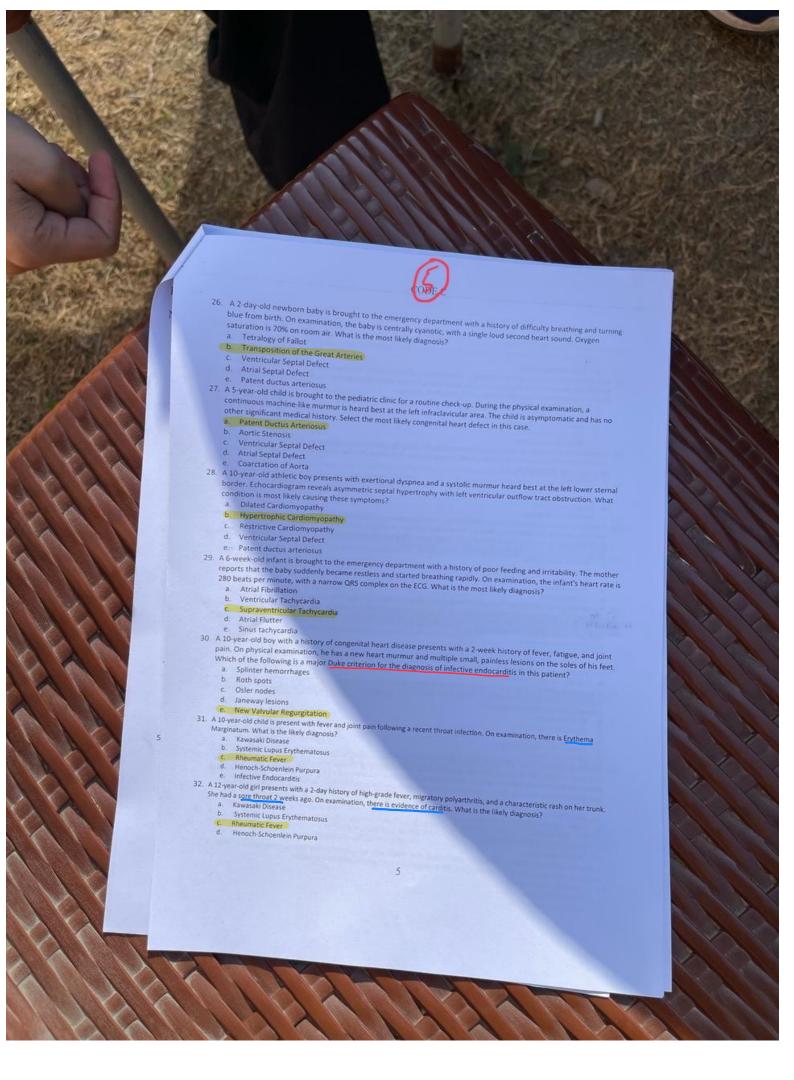


- d. Class IV: Symptoms at rest
- e. Patient odes do not fall in any of the class
- 12. A 45-year-old male presents with chest pain, fever, and dyspnea after a viral infection. On clinical examination there is pericardial rub, and he is suspected of pericarditis. Which of the following is the most characteristic ECG finding in acute pericarditis?
  - a. Diffuse ST-segment elevation and PR depression
  - b. T-wave inversion and Q waves in lead V1-V3
  - c. ST-segment depression and QT prolongation
  - d. Tall, peaked T waves and short PR intervals
  - e. Wide QRS complex with absent P waves
- 13. A 60-year-old man presents with sudden-onset chest pain and shortness of breath. His ECG shows a ST-segment elevation in leads II, III, and aVF, with reciprocal ST-segment depression in leads I and aVL. Which of the following is the most likely diagnosis based on these ECG findings?
  - a. Anterior myocardial infarction
  - b. Inferior myocardial infarction
  - c. Pericarditis
  - d. Atrial fibrillation
  - e. Pulmonary embolism
- 14. A 58-year-old male with a history of hypertension presents to the emergency department with severe chest pain radiating to his left arm. His ECG shows ST-segment elevation in leads V1-V4, with reciprocal ST-segment depression in leads II, III, and aVF. What is the most likely diagnosis based on these ECG findings?
  - a. Inferior myocardial infarction
  - b. Anterior myocardial infarction
  - c. Lateral myocardial infarction
  - d. Pericarditis
  - e. Right ventricular infarction
- 15. A 60-year-old male with a history of hypertension presents with crushing chest pain and diaphoresis. His ECG shows ST-segment elevation in leads V1-V4, and ST-segment depression in leads II, III, and aVF. Which coronary artery is most likely involved in this patient's myocardial infarction?
  - a. Left anterior descending artery
  - b. Right coronary artery
  - c. Left circumflex artery
  - d. Posterior descending artery
  - e. Branch of the left main coronary artery
- 16. A 68-year-old male with a history of hypertension and hyperlipidemia presents with chest pain and sweating. He is diagnosed with an occlusion of the left circumflex artery. Select the most likely ECG finding in this patient.
  - a. ST-segment elevation in leads V1-V4 and reciprocal depression in II, III, aVF
  - b. ST-segment elevation in leads I, aVL, V5, V6 and reciprocal depression in II, III, aVF
  - c. ST-segment elevation in leads II, III, aVF and reciprocal depression in V1-V4
  - d. ST-segment elevation in leads V1-V3 and reciprocal depression in V5, V6
- e. ST-segment elevation in leads V4R-V6R and reciprocal depression in I, aVL

  17. A 55-year-old female presents with dizziness and occasional lightheadedness. Her ECG shows a second-degree atrioventricular (AV) block, Type II, with a dropped QRS complex. What is the most likely next step in management for
  - this patient?

    a. Observation with no immediate intervention
  - b. Administer atropine to increase heart rate
  - c. Immediate placement of a temporary pacemaker
  - d. Oral beta-blockers for rate control
  - e. Cardioversion to restore normal rhythm
- 18. ECG of a patient shows progressively increasing PR intervals followed by dropped beat. What is the condition?
  - a. Third degree heart block
  - b. Mobitz Type 1
  - c. Sinus Arrhythmia







- Infective Endocarditis
- 33. A 4-year-old child presents a history of frequent respiratory tract infections, failure to thrive, and easy fatigability. On physical examination, there is a harsh pansystolic murmur heard best at the right upper sternal border. Chest X-ray showed cardiomegaly and increased pulmonary vascular markings. What is the likely diagnosis?

  a Ventricular Septal Defect

  - Atrial Septal Defect
  - Patent Ductus Arteriosus
  - Tetralogy of Fallot
  - e. Tricuspid Regurgitation
- 34. A 4-month-old infant presents with a 3-day history of difficulty breathing, poor feeding, and lethargy. On examination, there is tachycardia, muffled heart sounds, and decreased peripheral pulses. ECG shows electrical alternans. Select the confirmatory investigation for this condition
  - Cardiac MRI
  - b. Echocardiography
  - Heart enzymes
  - Chest X-rays
  - Endomyocardial Biopsy
- 35. A 4-year-old girl with a history of unrepaired Tetralogy of Fallot presents to the hospital with a 3-day history of fever, fatigue, and decreased appetite. Her parents also noticed that she has become more irritable and lethargic. On physical examination, a new grade 3/6 diastolic murmur is heard along the left sternal border. Blood cultures are positive for Streptococcus viridans after 24 hours of incubation. Select the most likely initial diagnosis in this case

#### Infective Endocarditis

- Myocarditis
- Pericarditis
- Rheumatic Fever
- Cardiac Abscess
- 36. A 4-year-old girl with a history of unrepaired Tetralogy of Fallot presents with a 3-day history of fever, fatigue, and decreased appetite. Her parents report increased irritability and lethargy. On examination, a new grade 3/6 diastolic murmur is noted along the left sternal border. Blood cultures grow a pathogen after 24 hours of incubation. Which of the following is the most likely causative organism of infective endocarditis in this patient?
  - Staphylococcus aureus

- Enterococcus faecalis
- Pseudomonas aeruginosa
- Candida species
- 37. A 10-year-old girl with a history of acute rheumatic fever presents symptoms of heart failure, including shortness of breath, fatigue, and swelling of the legs. Echocardiogram shows mitral stenosis and regurgitation. What is the most likely long-term complication of rheumatic heart disease in this patient?
  - Aortic Aneurysm

# a. Aortic Aneurysm b. Mitral Valve Calcification ( bottle 112 c. Pulmonary Hypertension d. Tricusoid Valve Requisitation

- Pulmonary Hypertension Tricuspid Valve Regurgitation
- Cardiac Arrhythmias
- 38. A 9-month-old infant is brought by his parents to the pediatric clinic with a history of cyanosis, poor feeding, and failure to thrive. The parents report that the infant becomes cyanotic during feeding and crying. Physical examination reveals a harsh grade 3/6 systolic ejection murmur heard loudest at the left upper sternal border. Chest X-ray shows a "boot-shaped" heart with decreased pulmonary vascular markings. Echocardiogram confirms the presence of a ventricular septal defect, pulmonary stenosis, right ventricular hypertrophy, and an overriding aorta. Select the most likely diagnosis.

### a. Tetralogy of Fallot

- Transposition of the Great Arteries
- Tricuspid Atresia
- Hypoplastic Left Heart Syndrome
- e. Truites afterests.

  39. A 2-month-old infant is noted to have difficulty feeding, poor weight gain, and sweating while feeding. On examination there's is systolic murmur radiating all over precordium. What congenital heart defect is most likely present?
  - Patent Ductus Arteriosus
  - Atrial Septal Defect
  - Ventricular Septal Defect





- Coarctation of the Aorta
- Aortic stenosis
- 40. A 10-year-old child presents with a 1-week history of migratory polyarthritis. Investigations show no evidence of cardiac involve (carditis). According to current guidelines, how long should this child receive prophylactic treatment for rheumatic fever?

  - b. Until 15 years of age
  - Until 11 years of age
  - Until 40 years of age
  - Lifelong
- 41. A 10-year-old child presents with a 1-week history of fever, joint pain, and swelling. Which additional finding would be most significant in diagnosing the underlying condition
  - Elevated ESR
  - b. Elevated CRP
  - C. Elevated ASO titer
  - **Elevated Total Leukocyte Count**
  - Low Hemoglobin
- 42. A S-year-old boy presents to the emergency department with a 2-hour history of rapid heart rate, palpitations, and shortness of breath. ECG shows a narrow QRS complex tachycardia with a heart rate of 240 beats per minute. What is the first-line treatment for acute episodes of supraventricular tachycardia (SVT) in this patient?

  - b. Adenosine
  - Metoprolo
  - Verapamil
- A one-year-old child presents with history fast breathing, and excessive sweating for 2 days, after he had a viral infection. You find him to be tachypneic and tachycardiac with hepatomegaly Scm. you suspect diagnosis of myocarditis. What initial investigation with help you in making this diagnosis? 43.
  - Arterial blood gases
  - Troponin
  - CK MR
  - Chest X ray
  - MRI
- 44. A 9-year-old boy presents with a 2-day history of high-grade fever, Joint pain, and swelling in the knees and elbows. Physical examination reveals erythema marginatum on the trunk and migratory polyarthritis. ECG shows a prolonged PR interval. What other major criterion is required for the diagnosis of acute rheumatic fever in this patient?
  - Subcutaneous nodules
  - Elevated erythrocyte sedimentation rate
  - Positive throat culture for Streptococcus pyogenes Carditis (e.g., new heart murmur)
- Raised CRP
- A premature infant born at 32 weeks gestation presents with a systolic murmur and widened pulse pressure. Select the congenital heart defect is most likely responsible for these clinical findings.
  - Tetralogy of Fallot
  - Atrial Septal Defect

  - Ventricular Septal Defect
- Transposition of the Great Arteries
- 46. A 2-month-old infant is diagnosed with a moderate-sized Patent Ductus Arteriosus (PDA). The infant is asymptomatic and has no signs of heart failure. What is the most appropriate initial management strategy for this infant?
  - Immediate surgical ligation of the PDA
  - Pharmacological closure with indomethacin
  - Watchful waiting with regular echocardiographic monitoring
  - Catheter-based closure with an Am Platzer duct occluder
- Initiation of diuretics to manage potential heart failure
- A 10-year-old child presents with symptoms of exertional dyspnea, chest pain, and syncope. Echocardiogram confirms the diagnosis of Hypertrophic Cardiomyopathy with asymmetric septal hypertrophy. What is the most appropriate initial pharmacological
  - a. Beta-Blockers



- ACE inhibitor b.
- Anti-arrhythmic medications
- Diuretics (e.g., furosemide)
- A patient with prosthetic heart valve is at increased risk of infective endocarditis. What is the recommended prophylactic antibiotic regimen before dental procedures?
  - a. Amoxicillin

  - Vancomycin
  - Azithromycin d.
- 49. A 12-year-old child develops chorea following a streptococcal throat infection. What is the term for this movement disorder associated with rheumatic fever?
  - Myoclonus
  - Athetosis
  - Hemiballismus
  - Sydenham Chorea

  - 50. A newborn exhibits cyanosis, respiratory distress, and a single loud second heart sound. The chest X-ray shows a "snowman" or "figure-eight" heart. What is the most likely diagnosis?
    - Tetralogy of Fallot
    - Transposition of the Great Arteries b.
    - Tricuspid Atresia
    - d Total Anomalous Pulmonary Venous Return
  - e. Truncus arteriosus
    51. A 50-year-old male presents with a one-week history of fever and dry cough, followed by progressive shortness of breath and vomiting over the last 48 hours. His past medical history is significant for hypertension and ischemic heart disease. On physical examination, he is febrile (102°F), with respiratory rate 25/min and oxygen saturation 82% on room air. Bilateral crepitations and scattered wheezes are noted on chest auscultation. Which of the following diagnoses is most likely given the patient's clinical presentation and physical examination findings? presentation and physical examination findings?
    - Acute severe asthma
    - Acute exacerbation of chronic obstructive pulmonary disease
    - unity-acquired pneumonia
    - Adult respiratory distress syndrome
  - e. Acute pulmonary eoema

    52. A 30-year-old, 15 days postpartum woman presents with a 4-day history of palpitations, cough, and hemoptysis. Physical examination reveals signs of deep yein thrombosis in the left leg, confirmed by Doppler ultrasound. Her electrocardiogram shows right axis deviation. Given her symptoms and findings, which of the following diagnostic tests is most appropriate to confirm the suspected diagnosis?
    - D-Dimer assay
    - b. Electrocardiography
    - Chest X-ray (PA view)
    - d. CT pulmonary angiography Ventilation-perfusion scan
  - 53. A 40 years old man presented 5 days' history of pain right side of the chest which increases with inspiration. He also complains of fever with chills and cough with blood-stained sputum. Chest examination shows bronchial breathing on the right side. Which one of the following is the most likely diagnosis in this patient?

    a. Pleural effusion

    - Pneumonia Pericarditis

    - Acute bronchitis. d.
    - Pulmonary embolism
  - 54. A 50-year-old lady presented with 6 years' history of recurrent productive cough and occasionally blood in the sputum. She had history of pulmonary tuberculosis 10 years back and has taken full course of anti-tuberculous drugs. On examination, she has clubbing and bilateral coarse crepitations on auscultation. Which one of the following is the most appropriate investigation for his current condition.
    - Sputum for AFB.
    - X ray chest PA view



# c. High resolution CT-scan chest

- Sputum for culture and sensitivity. d.
- Pulmonary function tests
- 55. A 20-year-old lady presented with three months' history of low-grade fever, dry cough and right sided chest pain which increases with inspiration. Clinical examination shows a pale and wasted lady with dull percussion note and decreased breath sounds on the right-side chest, which one of the following tests of the region of the region of the following tests of the region of the following tests of the region right-side chest. which one of the following tests is the most appropriate for diagnosis in this patient?
  - X ray chest PA view
  - Diagnostic Pleural tap
  - CT Scan thorax.
  - Sputum for AFB.
  - Erythrocyte sedimentation rate
- S6. A 23-year-old woman presents to the emergency department with a 10-year history of recurrent shortness of breath and audible wheezing. Over the past 2 days, her symptoms have worsened, with severe breathlessness, cough, and inability to complete sentences. Her vital signs are notable for a respiratory rate of 25/min, and her physical examination reveals a silent chest at the bases wheezing in the upper zones. Her oxygen saturation is 92% on room air. What is the most appropriate immediate diagnostic test to guide her management?

NW-Key (1)

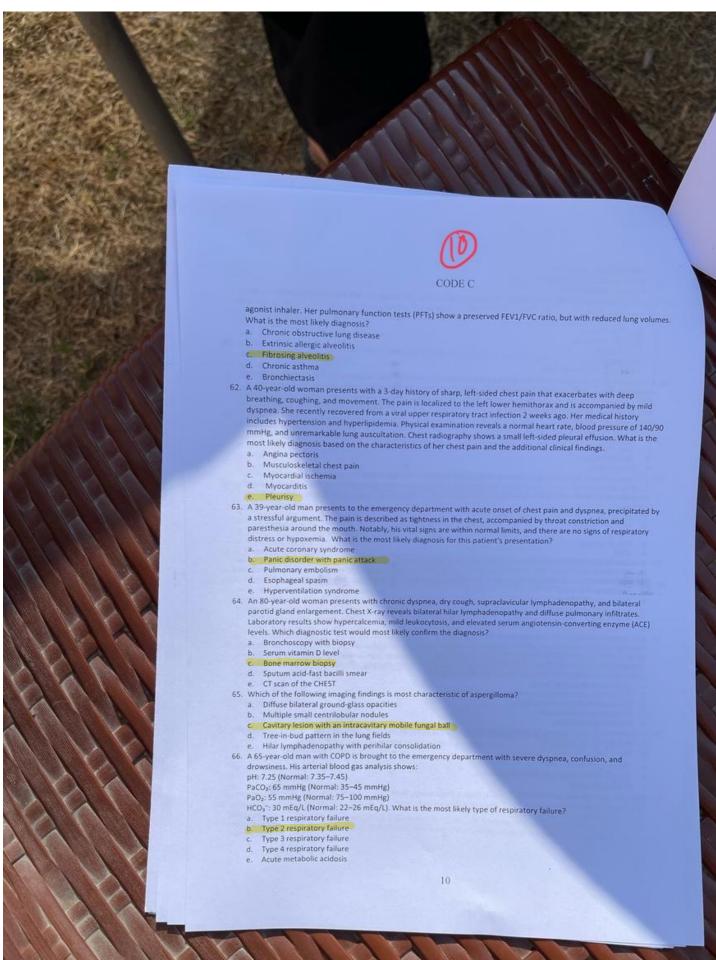
- Arterial blood gases
- Spirometry
- Chest X-ray
- Peak flow meter
- Pulse oximetry
- 57. A 56-year-old farmer is complaining of shortness of breath and wheezes in the chest mostly after returning from the fields. His daughter, who is married, has history of pulmonary tuberculosis. Clinical examination shows, otherwise normally built, no clubbing or cyanosis. Chest examination shows few scattered wheezes. X ray chest is normal. Which one of the following is the most likely diagnosis?
  - a. Extrinsic allergic alveolitis
  - Pulmonary edema
  - Pulmonary TB

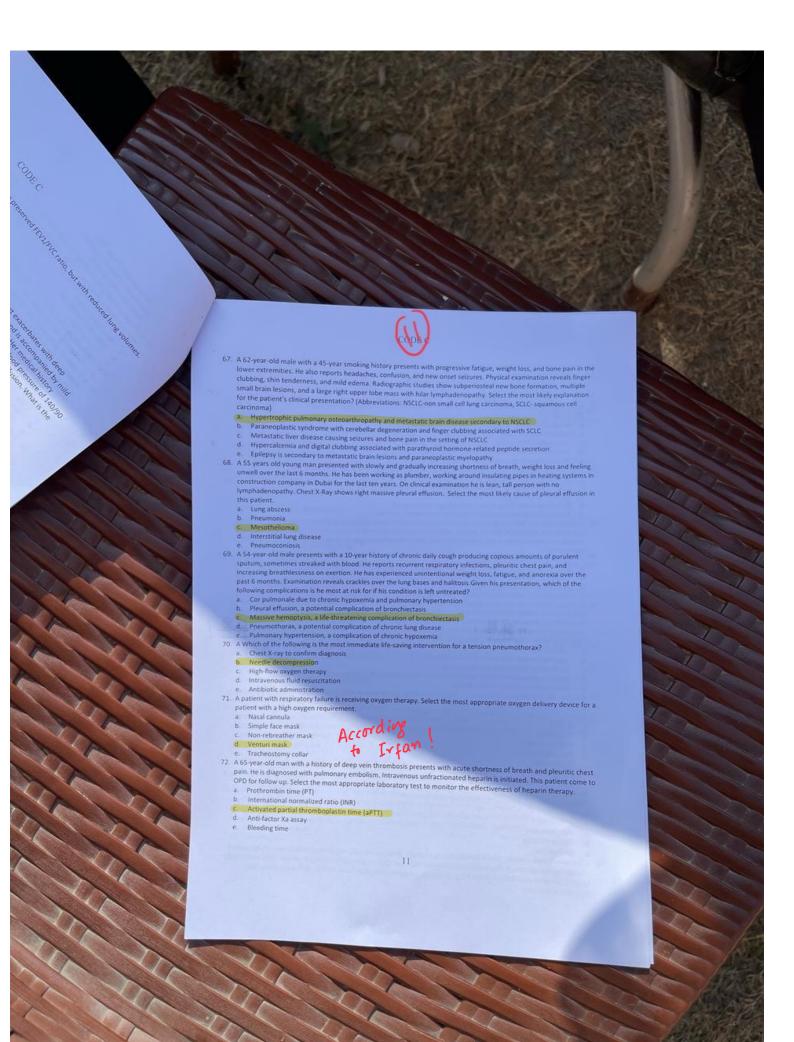
  - COPD
- 58. A 16-year-old boy presented with 3 weeks' history of left side chest pain which increases with deep inspiration. X ray chest PA view shows left side pleural effusion. His pleural tap was done which shows the following results: Protein-3.3gm/dl, glucose-47mg%, total cells-176/cmm, 80% lymphocytes, 13% neutrophils, and 7% RBCs. Which one of the following is the most likely diagnosis?
  - Pulmonary tuberculosis
  - Para pneumonic effusion
  - Extrapulmonary tuberculosis Mesothelioma
  - e. Viral pleurisy
- A 55-year-old woman presents with a persistent dry cough lasting for the past 4 months. She denies fever, weight loss, or hemoptysis. She has no history of asthma or smoking. Her medical history includes hypertension, for which she has been taking ramipril for the past 6 months as well as on off use of antacids. Physical examination is unremarkable, with normal respiratory findings. A chest X-ray is performed and is normal. Pulmonary function tests, including methacholine challenge, are also normal. Which of the following is the most likely cause of her chronic cough?

  a. Gastroesophageal reflux disease

  - Angiotensin-converting enzyme inhibitor-induced cough
  - Chronic obstructive pulmonary disease Bordetella pertussis infection

  - Postnasal drip syndrome
- 60. Which of the following is a component of the CURB-65 score used to assess the severity of community-acquired pneumonia (CAP)?
  - Blood glucose >200 mg/dL
  - White blood cell count >15,000/mm3 b
  - Oxygen saturation <90%
  - BP <90 mmHg systolic or ≤60 mmHg diastolic d
- Hematocrit <35%
- 61. A 45-year-old woman presents with a 1-month history of dry cough, fever, and worsening shortness of breath. She has a history of chronic chest problems and is currently taking steroids, azathioprine, and a steroid plus long-acting beta-



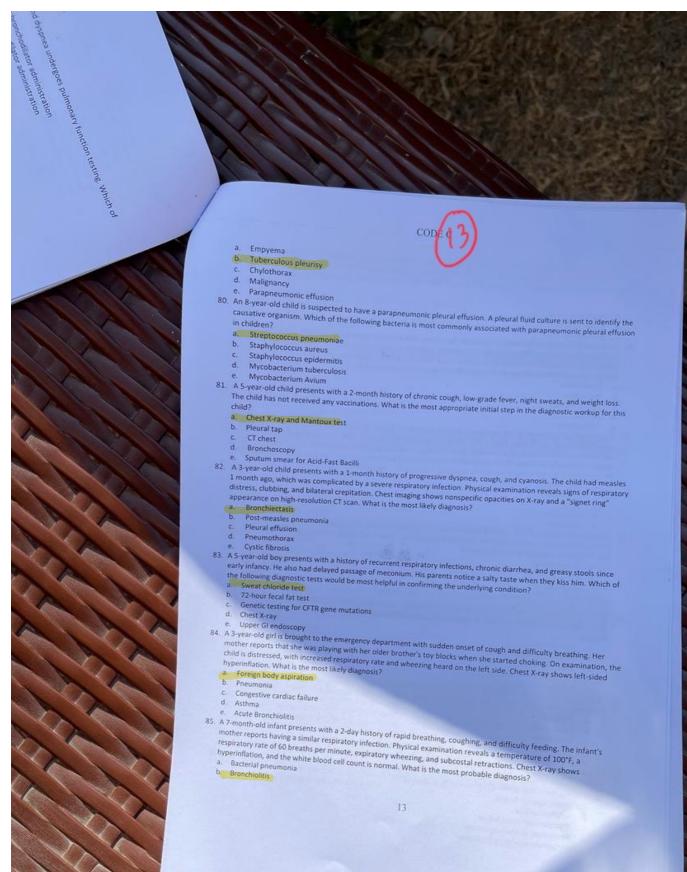




- 73. A 45-year-old woman with a history of episodic wheezing and dyspnea undergoes pulmonary function testing. Which of the following PFT findings is most suggestive of asthma?
  - a. Reduced FEV<sub>1</sub>/FVC ratio with partial reversibility after bronchodilator administration
  - Reduced FEV<sub>1</sub>/FVC ratio with no improvement after bronchodilator administration
  - Normal FEV<sub>1</sub>/FVC ratio with reduced total lung capacity
  - Increased diffusing capacity of the lung for carbon monoxide
  - Reduced total lung capacity with a normal FEV<sub>1</sub>/FVC ratio
- 74. Which ventilation-perfusion (V/Q) scan finding is most suggestive of pulmonary embolism?
  - a. Normal ventilation with decreased perfusion in multiple lung areas
  - b. Both ventilation and perfusion decreased in the same areas
  - Normal ventilation and normal perfusion
  - d. Decreased ventilation and perfusion throughout both lungs
  - A single small area of decreased ventilation with normal perfusion
- 75. A 40-year-old man with a long history of asthma presents with increasing frequency of daytime symptoms, including wheezing and shortness of breath, despite using his inhaled corticosteroid (ICS) regularly. He has not required oral steroids. His doctor wants to step up his treatment. Which of the following is the most appropriate next step in his management?
  - a. Increase the dose of his current ICS
  - b. Add a long-acting beta-agonist to his ICS regimen
  - Switch to a leukotriene receptor antagonist
  - d. Start oral corticosteroids
  - Discontinue ICS and start a short-acting beta-agonist alone
  - 76. A 65-year-old male, long-term smoker, presents with worsening fatigue, muscle weakness, and unsteady gait over the past 3 months. On examination, he has proximal muscle weakness, difficulty rising from a seated position, and absent deep tendon reflexes in the lower limbs. His gait is broad-based, and he exhibits slight digital clubbing. Blood tests reveal hyponatremia (serum sodium 123 mmol/L) with low serum osmolality, and a chest X-ray shows a mass in the right upper lobe. Which of the following paraneoplastic syndromes is most likely contributing to his presentation?
    - Lambert-Eaton myasthenic syndrome and syndrome of inappropriate antidiuretic hormone secretion
    - Hypercalcemia due to parathyroid hormone-related peptide secretion and cerebellar degeneration
    - Carcinoid syndrome and polyneuropathy
    - Ectopic adrenocorticotrophic hormone secretion and hypertrophic pulmonary osteoarthropathy
    - Polymyositis and nephrotic syndrome
  - 77. A 4-year-old child presents to you with 5 days history of high-grade fever and dyspnea. On examination there are signs of respiratory distress, on chest auscultation decreased air entry on right side, with hyper resonant percussion note and decreased vocal fremitus. What is the most likely diagnosis?
    - a. Asthma
    - Pneumonia b.

    - Pleural effusion d. Chylothorax
  - 78. A 7-year-old child is admitted with a 3-day history of worsening cough, fever, and difficulty breathing. Chest examination reveals decreased breath sounds, dullness to percussion, and decreased vocal fremitus on the right side. A chest X-ray shows a homogeneous area of consolidation on the right side with a visible fluid level. Which of the following conditions is most consistent with these findings?
    - a. Asthma

    - Pneumothorax
    - Pleural effusion
    - Chylothorax
  - 79. A 9-year-old child presents with a 2-week history of cough, fever, and weight loss. A chest X-ray shows a large pleural effusion on the left side. A diagnostic pleural tap is performed, and the pleural fluid analysis reveals. WBC count: 1000 cells/µL, Lymphocytes: 80%, Protein: 3.5 g/dL, Adenosine deaminase (ADA) level: 40 IU/L. Select the most likely





- Acute epiglottitis
- d. Pneumothorax
- Viral pneumonia
- 86. A 4-year-old girl presents with persistent cough, tachypnea, and recurrent episodes of wheezing since infancy. Her mother reports that two siblings also have a history of recurrent respiratory infections. Physical examination reveals nasal flaring, wheezing, and increased respiratory rate. Chest X-ray shows hyperinflation, flattened diaphragm, and a narrow, elongated heart silhouette. Complete Blood Count reveals eosinophilia. What is the most probable diagnosis?
  - Pneumonia
  - Pleural Effusion
  - d. Asthma
  - e. Tuberculosis
- 87. A 2-year-old girl is brought to the emergency department with a 12-hour history of worsening cough, hoarseness, and inspiratory stridor. Her mother reports that the child was exposed to a cousin with a similar illness. Physical examination reveals a distressed child with a barking cough, inspiratory stridor, and hoarse voice. The child is sitting upright, refusing to lie down. Chest examination reveals bilateral equal air entry with no signs of consolidation or effusion. A lateral neck X-ray shows the "steeple sign." What is the most probable diagnosis?
  - b. Pneumonia
  - Croup
  - Pharyngitis
  - Tracheitis
- 88. A 2-year-old boy presents to you with sudden onset of respiratory distress. The mother narrates that the child was playing with very small blocks when he developed the distress. Chest X-ray shows unilateral hyperinflation. Select the

  - b. CT chest
  - Laryngoscopy
  - d. Give IV fluids
  - Give IV antibiotics
- 89. A 7-year-old child presents to you with recurrent respiratory tract infections. On examination his sinuses are tender to touch, there are bilateral crepitation on chest auscultation, and apex beat is on the right side. Select the most likely

  - b. Primary Immunodeficiency
  - Acquired Immunodeficiency
  - d. Primary Ciliary dyskinesia
  - Foreign Body aspiration
- 90. You are suspecting that a 7-year-old child has pleural effusion. You perform a diagnostic pleural tap. Pleural fluid RE show 60000 WBCs, 90% neutrophils, protein 4g/dl. What is the most likely diagnosis?
  - b. Tuberculosis
  - Chylothorax
  - Malignancy Hemothorax
- 91. A newborn baby at birth presents with respiratory distress immediately after birth, requiring supplemental oxygen. Physical examination reveals a scaphoid abdomen, bowel sounds audible in the right thoracic cavity, and decreased air

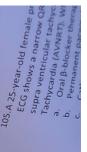
  - Tracheoesophageal fistula d.
  - Respiratory distress syndrome
  - Meconium aspiration syndrome



- 92. A 6-year-old child with a history of asthma presents to the emergency department with acute worsening of cough, wheezing, and difficulty breathing. His oxygen saturation is 90% on room air. On examination, he has intercostal retractions and audible wheezing. What is the first-line treatment for this acute exacerbation? (Metered-Dose Inhaler
  - Inhaled corticosteroids via nebulizer or MDI with spacer
  - Montelukast oral

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- c. Short-acting beta-agonist via nebulizer or MDI with spacer
- d. Long-acting beta-agonist
- Oral theophylline
- 93. A 10-year-old child with asthma undergoes spirometry. Which of the following findings is most characteristic of asthma?
  - a. Normal FEV<sub>1</sub>/FVC ratio
  - b. Increased FEV<sub>1</sub>/FVC ratio
  - c. Decreased FEV<sub>1</sub>/FVC ratio
  - Decreased FEV<sub>1</sub> with no change after bronchodilator
  - Increased FVC after bronchodilator
- 94. A child presented with gradual onset, dry cough, and mild symptoms despite abnormal chest X-ray findings. The pediatrician suspects atypical pneumonia. Which of the following atypical bacteria is a common cause of pneumonia in children?
  - Streptococcus pneumoniae
  - b. Haemophilus influenzae
  - c. Mycoplasma pneumoniae
  - Staphylococcus aureus
  - Moraxella catarrhalis
- 95. Which of the following is the most common initial clinical feature of cystic fibrosis in infants?
  - Recurrent urinary tract infections
  - b. Meconium ileus
  - Late-onset jaundice
  - Macroglossia
  - e. Hypoglycemia
- A 20-year-old male is brought to the emergency department 50 minutes after being struck by a car. He appears distressed, pale, and clammy, with signs of respiratory distress. Vital signs reveal heart rate 148/bpm, hypotension 84/47 mmHg, and tachypnea (36 breaths/min). Physical examination shows bilateral air entry, engorged neck veins, and a large bruise on the central and right chest. Needle aspiration of the right chest does not yield free air. What is the most likely diagnosis?
  - a. Cardiac tamponade
  - Compression asphyxiation
  - Diaphragmatic rupture
  - Rupture of thoracic aorta
  - Tension pneumothorax
- 97. An 18-year-old bike rider is brought to the emergency room after a road traffic accident, presenting with respiratory distress, cyanosis, and anxiety. Physical examination reveals a silent left lung with tracheal deviation to the right side, leading to a clinical diagnosis of tension pneumothorax. What is the best immediate management option?
  - Chest intubation in the 5th intercostal space, mid-axillary line
  - Chest intubation in the 5th intercostal space, mid-clavicular line
  - Insertion of a wide-bore needle in the 2nd intercostal space, mid-clavicular line Insertion of a wide-bore needle in the 7th intercostal space, mid-axillary line
  - e. Needle decompression followed by chest tube insertion
- 98. A 20-year-old male presents to the emergency department after a motor vehicle accident. He is conscious, but short of breath and has chest pain. His respiratory rate is 24 breaths per minute, and he has tachycardia. What is the first step in management according to the ABCs of trauma?





- Administer analgesia for pain relief
- Perform a focused ultrasound for cardiac injury
- Secure the airway and provide supplemental oxygen C.
- d. Perform a chest X-ray
- e. Insert a central venous line for monitoring
- 99. A 60 years old patient is admitted with blunt trauma to the chest. He has severe right sided chest pain with labored breathing and dyspnoea. His ECG shows only tachycardia. Trachea is slightly deviated to left & on auscultation breath sounds are diminished on right side. Select the complications of trauma might have occurred in this case.
  - Hemothorax
  - Pneumothorax
  - Tension pneumothorax
  - Chylothorax d.
  - Cardiac tamponade
- 100. A 40-year-old man presented in emergency with history of penetrating chest trauma that leads to tension pneumothorax. Select the type of shock is expected in this case.
  - a. Endocrine
  - b. Septic
  - Anaphylactic
  - Vaso-vagal d.
  - Obstructive
- 101.A 60-year-old male with metastatic lung cancer presents with worsening dyspnea, chest discomfort, and fatigue. Echocardiography shows a large pericardial effusion with diastolic collapse of the right atrium. Despite fluid resuscitation, he remains hypotensive. What is the most appropriate next step in management to relieve the cardiac tamponade and stabilize his hemodynamics?
  - a. Emergency percutaneous pericardiocentesis to drain the pericardial effusion
  - b. Administration of high-dose corticosteroids to control inflammation
  - Initiation of intravenous inotropes to support blood pressure
  - Surgical pericardial window creation due to underlying malignancy
  - Referral to palliative care for symptom management and end-of-life care
- 102.A 68-year-old woman with chronic heart failure, atrial fibrillation, and anticoagulant therapy presents with suddenonset dyspnea and chest pain. Physical examination reveals unilateral leg swelling and warmth. What is the most plausible explanation for her symptoms?
  - a. Acute pulmonary embolism is secondary to deep vein thrombosis
  - b. Atrial fibrillation-induced thromboembolism leading to acute myocardial infarction
  - Acute heart failure exacerbation causing right-sided heart strain and peripheral edema
  - Fluid overload due to heart failure, worsened by inappropriate diuretic use
  - Cardiac tamponade resulting from anticoagulant therapy
- 103.A 62-year-old woman with a history of systemic lupus erythematosus presents with worsening fatigue, dyspnea, and chest pain. Physical examination reveals a pericardial friction rub, and ECG shows diffuse ST-segment elevations. Which cardiovascular complication is most likely related to her underlying SLE?
  - a. Aortic dissection
  - b. Libman-Sacks endocarditis
  - c. Myocardial infarction
  - d.
  - Cardiac tamponade
- 104.A 65-year-old male presents with fever and a new heart murmur, raising suspicion for infective endocarditis. To confirm the diagnosis, which of the following approaches is the most accurate?
  - Collecting two sets of blood cultures from a central line at intervals of ≥6 hours
  - b. Collect 3-6 sets of blood cultures from peripheral sites at intervals of ≥6 hours
  - Blood culture is not required and start antibiotics
  - d. Delaying blood culture collection until the patient develops a fever
  - e. Relying solely on clinical presentation and medical history for diagnosis





- 105.A 25-year-old female presents to the emergency department with palpitations, dizziness, and shortness of breath. Her ECG shows a narrow QRS complex tachycardia with a heart rate of 180 beats per minute. She has a history of recurrent supra ventricular tachycardia (SVT). After initial stabilization, she is diagnosed with Atrioventricular Nodal Re-entrant Tachycardia (AVNRT). Which of the following is the most appropriate definitive management strategy for this patient?
  - a. Oral β-blocker therapy
  - Permanent pacemaker
  - c. Catheter ablation

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- d. Oral flecainide therapy
- Implantable cardioverter-defibrillator
- 106.A 55-year-old male with a history of hypertension and hyperlipidemia presents to the clinic with chest discomfort. He describes the discomfort as a constricting sensation in the center of his chest that radiates to his neck and left arm. The discomfort occurs during his morning walks and is relieved within 5 minutes by rest. Which of the following features most strongly supports a diagnosis of typical angina?
  - The discomfort is associated with palpitations and sweating.
  - The discomfort is not related to physical exertion.
  - The discomfort is relieved by rest or glyceryl trinitrate within 5 minutes.
  - The discomfort is sharp and localized to the left side of the chest.
  - The discomfort occurs at rest and lasts for more than 20 minutes.
  - 107. A 50-year-old male patient with a history of hypertension and hyperlipidemia presents to the emergency department with sudden onset of severe chest pain radiating to the left arm, accompanied by diaphoresis and shortness of breath. What is the underlying condition that most likely contributed to this patient's acute presentation?

## a. Acute Coronary Occlusion

- Acute aortic dissection
- Pneumothorax
- Herpes Zoster
- 108.A 60-year-old male presents with severe chest pain for 1hour, diaphoresis, and ECG changes consistent with STelevation myocardial infarction (STEMI). He has history of intracranial bleed previously. His troponin levels are elevation trives are relevated. What is the most appropriate management approach for this patient with acute Myocardial infarction? Antiplatelet and anticoagulant therapy
  - Beta-blockers and Tenecteplase
  - Primary percutaneous coronary intervention
  - Intravenous thrombolysis and heparin
- 109.A 75-year-old female presents with symptoms of shortness of breath and fatigue, accompanied by an irregularly
- A 75-year-old female by an integuring the following string from the female by an integuring fregular pulse of 100 bpm. Electrocardiography confirms atrial fibrillation, characterized by the absence of P waves, fibrillatory waves, and irregular QRS complexes. What is the most suitable initial management strategy for this patient? a. Anticoagulation therapy and beta-blockers for rate control

  - Antiplatelet therapy and cardioversion to restore sinus rhythm
  - Cardioversion followed by catheter ablation to maintain sinus rhythm
  - Rate control using calcium channel blockers to alleviate symptoms Rhythm control with amiodarone therapy to restore and maintain sinus rhythm
- 110.A 60-year-old male presents with symptoms of syncope, dizziness, and fatigue, and electrocardiography reveals a thirddegree atrioventricular (AV) block with a junctional escape rhythm. What is the most suitable long-term management strategy for this patient with complete heart block?
  - a. Temporary pacing and pharmacological management with atropine
  - Cardiac catheterization and angiography to rule out underlying coronary artery disease
  - c Implantation of a dual-chamber permanent pacemaker to restore normal cardiac conduction
  - d. Observe only
  - Pharmacological management with epinephrine and aminophylline to augment cardiac conduction
  - 111.A 65-year-old male presents with symptoms of advanced heart failure, including significant dyspnea (NYHA III), fatigue, and bilateral leg edema, alongside a reduced left ventricular ejection fraction (LVEF) of 30%. What is the

