

NCCPA Recertification Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

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- 1. What characterizes the murmur of mitral regurgitation?**
 - A. Pansystolic and high pitch**
 - B. Mid-diastolic and low pitch**
 - C. Continuous and low frequency**
 - D. Diastolic and non-radiating**
- 2. Which non-invasive test is considered the best for diagnosing angina?**
 - A. Holter monitor**
 - B. Exercise stress test**
 - C. Echocardiogram**
 - D. CT angiogram**
- 3. What is the main clinical feature of rotator cuff syndrome?**
 - A. Localized swelling**
 - B. Dull aching pain**
 - C. Limited range of motion**
 - D. Sharp shooting pain**
- 4. What is the triad of symptoms that includes nasal polyps, asthma, and aspirin sensitivity known as?**
 - A. Samter's triad**
 - B. Allergic triad**
 - C. Mucosal triad**
 - D. Baker's triad**
- 5. Which of the following is not a symptom of cystic fibrosis?**
 - A. Abdominal pain**
 - B. Excessive sputum**
 - C. Fever**
 - D. Sinusitis**
- 6. What is another term for Trisomy 21?**
 - A. Turner's syndrome**
 - B. Down's syndrome**
 - C. Klinefelter syndrome**
 - D. Edward's syndrome**

- 7. What is the treatment of choice for syphilis?**
- A. Tetracycline 500 mg orally**
 - B. Benzathine PCN 2.4 Million units IM**
 - C. Ceftriaxone 250 mg IM**
 - D. Azithromycin 1 g orally**
- 8. Which two disease states are commonly linked to Campylobacter infection?**
- A. Multiple sclerosis and lupus**
 - B. Guillain Barre and reactive arthritis**
 - C. Rheumatoid arthritis and fibromyalgia**
 - D. E. coli infection and Crohn's disease**
- 9. Which of the following describes the classic radiologic findings in gout?**
- A. Large osteophytes and joint space narrowing**
 - B. Small punched out lesions and interosseous tophi**
 - C. Subchondral cysts and joint effusion**
 - D. Joint erosion and narrowing of bones**
- 10. Which valve is most commonly affected in rheumatic heart disease?**
- A. Tricuspid**
 - B. Mitral**
 - C. Aortic**
 - D. Pulmonary**

Answers

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- 1. A**
- 2. B**
- 3. B**
- 4. A**
- 5. C**
- 6. B**
- 7. B**
- 8. B**
- 9. B**
- 10. B**

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Explanations

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1. What characterizes the murmur of mitral regurgitation?

- A. Pansystolic and high pitch**
- B. Mid-diastolic and low pitch**
- C. Continuous and low frequency**
- D. Diastolic and non-radiating**

The murmur of mitral regurgitation is characterized as pansystolic (also known as holosystolic) and typically has a high-pitched sound. This type of murmur occurs throughout the entire duration of systole, starting with the first heart sound and ending with the second heart sound, due to the backflow of blood from the left ventricle into the left atrium due to the improper closure of the mitral valve during ventricular contraction. The high-pitched quality can often be attributed to the turbulence of blood flow through the regurgitant orifice, and it is best heard at the apex of the heart, often radiating toward the left axilla. This specific characteristic helps differentiate it from murmurs related to other cardiac conditions, ensuring accurate diagnosis and management in clinical practice.

2. Which non-invasive test is considered the best for diagnosing angina?

- A. Holter monitor**
- B. Exercise stress test**
- C. Echocardiogram**
- D. CT angiogram**

The exercise stress test is widely regarded as the best non-invasive test for diagnosing angina because it effectively evaluates the heart's response to physical stress. During the test, the patient is typically asked to walk on a treadmill or use a stationary bike. As the exercise intensity increases, the test monitors the heart's activity through an electrocardiogram (ECG). This helps identify any changes in heart rhythm, blood pressure, and other important parameters that may indicate insufficient blood flow to the heart muscle, which is a key marker of angina. The exercise component increases the oxygen demand of the heart, and if there are coronary artery blockages, the heart may not receive adequate blood supply, leading to symptoms such as chest pain or discomfort. This test also allows for further evaluation of exercise tolerance, which can provide insight into the severity of the underlying coronary artery disease. Other non-invasive tests, while valuable for specific situations, do not focus on the heart's performance under stress in the same way. For instance, the Holter monitor records heart rhythms over a period of time but does not test the heart under physical stress. An echocardiogram provides imaging of the heart structures and can assess heart function but may not directly measure the heart's response to exert

3. What is the main clinical feature of rotator cuff syndrome?

- A. Localized swelling
- B. Dull aching pain**
- C. Limited range of motion
- D. Sharp shooting pain

The primary clinical feature of rotator cuff syndrome is dull aching pain. This type of pain typically arises from inflammation or injury to the rotator cuff muscles and tendons, which play a crucial role in the stability and movement of the shoulder joint. Patients often describe the pain as a nagging discomfort that can be exacerbated by overhead activities, reaching, or lifting. Dull aching pain can also lead to secondary issues, such as muscle weakness or intervals of sleep disturbance due to discomfort during rest. While other symptoms can be present in rotator cuff syndrome, such as limited range of motion or localized swelling, the hallmark symptom that patients often first report is the persistent, dull ache in the shoulder. This characteristic nature of the pain helps differentiate it from other types of shoulder injuries that may present with sharp or sudden discomfort.

4. What is the triad of symptoms that includes nasal polyps, asthma, and aspirin sensitivity known as?

- A. Samter's triad**
- B. Allergic triad
- C. Mucosal triad
- D. Baker's triad

The triad of symptoms that includes nasal polyps, asthma, and aspirin sensitivity is known as Samter's triad. This condition is significant because it highlights a specific group of individuals who exhibit an unusual hypersensitivity to aspirin and nonsteroidal anti-inflammatory drugs (NSAIDs), which can exacerbate asthma and lead to the formation of nasal polyps. Samter's triad is particularly important for healthcare providers to recognize because the management of these symptoms often requires a comprehensive approach that includes avoidance of aspirin and NSAIDs, as well as treatment of asthma and potential surgical intervention for nasal polyps. Understanding this triad helps in better diagnosing and managing patients who present with these interconnected symptoms.

5. Which of the following is not a symptom of cystic fibrosis?

- A. Abdominal pain**
- B. Excessive sputum**
- C. Fever**
- D. Sinusitis**

Cystic fibrosis (CF) is a genetic disorder that primarily affects the lungs and digestive system. Symptoms typically arise due to the thick and sticky mucus produced by the body, leading to various complications. Excessive sputum is a hallmark of cystic fibrosis as the condition causes obstructive lung disease due to the accumulation of mucus in the airways, which can lead to chronic infections and respiratory issues. Abdominal pain can also occur in cystic fibrosis due to pancreatic insufficiency; the thick mucus blocks the release of digestive enzymes, leading to malabsorption and gastrointestinal discomfort. Sinusitis is another common complication in individuals with cystic fibrosis, as the condition predisposes patients to chronic sinusitis due to mucus build-up and infections in the sinuses. Fever, however, is not a direct symptom of cystic fibrosis itself but can occur in the setting of an infection or inflammation due to complications arising from the disease. It is not considered a core symptom of CF, which is why selecting fever as an option identifies it correctly as not being a symptom of cystic fibrosis. In summary, the other options are integral symptoms associated with the progression of the disease, while fever arises secondary to other complications and does not reflect the underlying condition directly.

6. What is another term for Trisomy 21?

- A. Turner's syndrome**
- B. Down's syndrome**
- C. Klinefelter syndrome**
- D. Edward's syndrome**

Trisomy 21 is another term for Down's syndrome, which is a genetic condition caused by the presence of an extra chromosome 21 in an individual's cells. This additional genetic material alters the developmental process, leading to the characteristic features associated with Down's syndrome, including physical traits, cognitive delays, and an increased risk for certain health issues. Understanding the context of Trisomy 21 is essential, as it specifically refers to the trisomy involving chromosome 21. This condition is the most common chromosomal disorder related to intellectual disability and is well-known in both medical literature and the general population. Other syndromes mentioned, such as Turner's syndrome (associated with a missing X chromosome in females), Klinefelter syndrome (characterized by an extra X chromosome in males), and Edward's syndrome (which involves an extra chromosome 18), are distinct genetic conditions with different features and implications. Therefore, the identification of Down's syndrome as synonymous with Trisomy 21 highlights the relationship between genetics and the clinical presentation of this disorder.

7. What is the treatment of choice for syphilis?

- A. Tetracycline 500 mg orally
- B. Benzathine PCN 2.4 Million units IM**
- C. Ceftriaxone 250 mg IM
- D. Azithromycin 1 g orally

Benzathine penicillin G is the treatment of choice for syphilis due to its effectiveness and targeted action against the *Treponema pallidum* bacterium, which causes the infection. The single intramuscular dose of 2.4 million units provides a sustained release of penicillin that helps eradicate the spirochete over an extended period, which is crucial in managing not just early syphilis but also preventing the progression to late complications. Other treatment options, while they may show efficacy in certain contexts, do not hold the same level of effectiveness or recommendation for syphilis treatment. Tetracyclines, for instance, can be used in penicillin-allergic patients or in specific cases but are not the first-line treatment due to concerns about resistance and gastrointestinal side effects. Ceftriaxone may be effective in atypical cases or co-infections but again is not the standard for treating primary syphilis. Azithromycin has been explored as an alternative in specific situations, but there have been concerns about its reliability and treatment failure, making it unsuitable as the first-line option. Benzathine penicillin G remains the cornerstone of therapeutic management for syphilis, endorsed by guidelines from health organizations and corroborated by its

8. Which two disease states are commonly linked to Campylobacter infection?

- A. Multiple sclerosis and lupus
- B. Guillain Barre and reactive arthritis**
- C. Rheumatoid arthritis and fibromyalgia
- D. E. coli infection and Crohn's disease

Campylobacter infection is primarily associated with gastrointestinal illness, but it can also lead to other serious complications. The link to Guillain-Barré syndrome, an acute autoimmune condition that can cause muscle weakness and paralysis, is particularly notable. This association arises because the body's immune response to the Campylobacter bacteria can mistakenly target peripheral nerves, resulting in the symptoms characteristic of Guillain-Barré syndrome. Similarly, Campylobacter infection can trigger reactive arthritis, which is a form of joint inflammation that occurs as a reaction to an infection in another part of the body. This condition commonly affects the knees, ankles, and feet and can follow an episode of gastroenteritis caused by Campylobacter. Understanding these associations highlights the complexities of infections and their potential long-term effects on health, particularly regarding autoimmune responses. The other options do not have well-established connections to Campylobacter infection, focusing instead on other conditions or diseases that either involve different pathogenic mechanisms or are not linked to the consequences of Campylobacter.

9. Which of the following describes the classic radiologic findings in gout?

- A. Large osteophytes and joint space narrowing**
- B. Small punched out lesions and interosseous tophi**
- C. Subchondral cysts and joint effusion**
- D. Joint erosion and narrowing of bones**

The classic radiologic findings in gout are characterized by small punched-out lesions that typically appear around the joints, particularly in areas like the metatarsophalangeal joint of the big toe. These lesions are the result of bone erosion due to the inflammatory processes associated with gout, which is caused by the deposition of monosodium urate crystals in the tissues and synovial fluid. Interosseous tophi, which are aggregations of urate crystals, can also be visualized on imaging. These tophi appear as soft tissue masses in patients with chronic gout and further support the diagnosis, particularly in longstanding cases. The presence of these two features—punched-out bone lesions and tophi—helps establish a definitive diagnosis of gout, especially when correlated with clinical symptoms such as recurring joint pain and swelling. The other options describe different conditions or findings associated with various arthropathies. For instance, large osteophytes and joint space narrowing are more characteristic of osteoarthritis. Subchondral cysts and joint effusion are common in conditions like rheumatoid arthritis, and joint erosion and narrowing of bones can also occur in other types of arthritis, not specifically indicative of gout. Thus, option B accurately represents the hallmark radiologic findings of gout.

10. Which valve is most commonly affected in rheumatic heart disease?

- A. Tricuspid**
- B. Mitral**
- C. Aortic**
- D. Pulmonary**

Rheumatic heart disease primarily affects the heart valves as a consequence of rheumatic fever, which is typically a complication of untreated streptococcal throat infections. The mitral valve is the most commonly involved valve in this condition. It can become stenotic (narrowed) or regurgitant (leaking), leading to heart failure symptoms and other complications. The mitral valve is particularly susceptible because it experiences significant mechanical stress during the cardiac cycle and is subject to the immunological damage caused by the body's response to streptococcal infection. While the aortic valve can also be affected in rheumatic heart disease, the mitral valve is most frequently the primary site of disease, making it a key focus for diagnosis and management in patients with a history of rheumatic fever. Understanding this prevalence emphasizes the importance of early treatment for streptococcal infections to prevent the development of rheumatic heart disease.