

Anthelmintic Agents Practice Test (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. What diagnostic results should support the choice of anthelmintic medication?**
 - A. Complete blood count**
 - B. Stool for ova and parasites**
 - C. Urinalysis**
 - D. X-ray results**
- 2. Which agent is commonly used for the treatment of hookworm?**
 - A. Albendazole**
 - B. Thiabendazole**
 - C. Mebendazole**
 - D. Pyrantel pamoate**
- 3. Which of the following is not a common route of transmission for pinworm infection?**
 - A. Ingestion of contaminated food**
 - B. Inhalation of eggs**
 - C. Direct contact with contaminated surfaces**
 - D. Injection**
- 4. In which of the following is Ivermectin primarily indicated?**
 - A. Hookworm infection**
 - B. Scabies**
 - C. Echinococcosis**
 - D. Onchocerciasis**
- 5. What are anthelmintic agents primarily used to treat?**
 - A. Parasitic worm infections**
 - B. Bacterial infections**
 - C. Fungal infections**
 - D. Viral infections**

- 6. When caring for a child with a longstanding tapeworm infection, what is an important nursing consideration?**
- A. Ensure that the client receives regular dental check-ups**
 - B. Ensure that the client receives frequent, nutritious meals**
 - C. Limit the client's physical activity**
 - D. Advise the client to avoid all carbohydrates**
- 7. What instruction should a nurse provide for someone taking praziquantel for a helminth infection?**
- A. "You only need to take one dose."**
 - B. "Make sure to take all three doses that you've been prescribed."**
 - C. "You can stop once you feel better."**
 - D. "Take this medication with a large meal."**
- 8. A client presents with elephantiasis of the lower legs. Which helminthic infection is most likely suspected?**
- A. Ascariasis**
 - B. Filariasis**
 - C. Schistosomiasis**
 - D. Trichinosis**
- 9. Anthelmintics are commonly used to eliminate:**
- A. Bacterial infections**
 - B. Parasitic infestations**
 - C. Viral infections**
 - D. Fungal infections**
- 10. What type of helminth does the term 'cestodes' refer to?**
- A. Flatworms or tapeworms**
 - B. Roundworms or nematodes**
 - C. Flukes or trematodes**
 - D. Pinworms or enterobiasis**

Answers

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

SAMPLE

Explanations

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1. What diagnostic results should support the choice of anthelmintic medication?

- A. Complete blood count**
- B. Stool for ova and parasites**
- C. Urinalysis**
- D. X-ray results**

The diagnosis of a parasitic infection requiring anthelmintic medication is primarily confirmed through the examination of stool samples for ova and parasites. This testing directly identifies the presence of helminthic eggs, larvae, or adult parasites in the gastrointestinal tract, which is crucial for determining the appropriate anthelmintic treatment. Identifying the specific type of parasite allows practitioners to choose the most effective medication, as different anthelmintics work against different types of worms, such as nematodes, trematodes, or cestodes. While a complete blood count may provide supportive information—such as elevated eosinophil levels associated with some parasitic infections—this alone does not confirm the presence of a specific helminth. Similarly, urinalysis and X-ray results are not standard diagnostic tools for directly identifying intestinal parasites. Thus, stool examination remains the gold standard for diagnosing infections and supporting the choice of anthelmintic therapy.

2. Which agent is commonly used for the treatment of hookworm?

- A. Albendazole**
- B. Thiabendazole**
- C. Mebendazole**
- D. Pyrantel pamoate**

Mebendazole is widely recognized for its effectiveness against hookworm infections. It acts by inhibiting the polymerization of tubulin, which disrupts microtubule formation and impairs the parasite's ability to absorb glucose, leading to its energy depletion and eventual death. This mechanism is particularly effective against various helminths, including hookworms such as *Ancylostoma duodenale* and *Necator americanus*. While other agents like albendazole and thiabendazole may also have activity against hookworms, mebendazole is often preferred due to its dosing regimen and safety profile. Pyrantel pamoate, although effective against some other intestinal helminths, is not as commonly used for hookworm treatment compared to mebendazole, making mebendazole the standard choice for this specific infection.

3. Which of the following is not a common route of transmission for pinworm infection?

- A. Ingestion of contaminated food**
- B. Inhalation of eggs**
- C. Direct contact with contaminated surfaces**
- D. Injection**

Pinworm infection, caused by the *Enterobius vermicularis* parasite, typically spreads through several specific routes. The ingestion of contaminated food occurs when eggs from pinworms, which are often found on contaminated surfaces or transmitted from hands to mouth, are swallowed. Additionally, inhalation of eggs is possible, as tiny pinworm eggs can become airborne and be inhaled, leading to infection if they reach the gastrointestinal tract. Direct contact with contaminated surfaces also plays a crucial role in the transmission cycle. Pinworm eggs can survive on surfaces like bedding, clothing, or toilet seats, and if a person touches these contaminated areas and then touches their mouth or face, they can become infected. On the other hand, injection is not a route of transmission for pinworm infection. This mode of transmission is not applicable as pinworm eggs do not enter the body through the bloodstream or via any injectable means. Understanding the common routes of transmission helps in implementing proper hygiene practices to prevent pinworm infections effectively.

4. In which of the following is Ivermectin primarily indicated?

- A. Hookworm infection**
- B. Scabies**
- C. Echinococcosis**
- D. Onchocerciasis**

Ivermectin is primarily indicated for the treatment of onchocerciasis, also known as river blindness. This parasitic infection is caused by the filarial worm *Onchocerca volvulus*, which is transmitted to humans through the bite of infected blackflies. Ivermectin works effectively by targeting the microfilariae (larval forms) of the parasite, paralyzing and killing them, which reduces the symptoms and potential complications associated with the disease. The selection of Ivermectin for onchocerciasis is based on its efficacy and safety profile. It has been shown to significantly reduce the number of microfilariae in patients, leading to improvement in ocular health and a decrease in the transmission of the disease in endemic areas. The World Health Organization has endorsed Ivermectin as a key element in the strategy to control and eliminate onchocerciasis in affected regions. While Ivermectin is also used to treat other conditions, such as scabies and certain types of worm infections, its primary and most established use remains in the treatment of onchocerciasis.

5. What are anthelmintic agents primarily used to treat?

A. Parasitic worm infections

B. Bacterial infections

C. Fungal infections

D. Viral infections

Anthelmintic agents are specifically designed to treat infections caused by parasitic worms, making them effective against a range of helminthic infections such as those caused by roundworms, tapeworms, and flukes. These medications work by targeting the unique biological processes of the worms, leading to their immobilization and subsequent elimination from the host's body. In contrast, bacterial infections are treated with antibiotics, which target the characteristics of bacteria, while fungal infections require antifungal agents that act on fungal cells. Viral infections are managed with antiviral medications that interfere with the replication and life cycle of viruses. Thus, anthelmintic agents are distinctly classified for use against parasitic worms, confirming that they are primarily utilized for that purpose.

6. When caring for a child with a longstanding tapeworm infection, what is an important nursing consideration?

A. Ensure that the client receives regular dental check-ups

B. Ensure that the client receives frequent, nutritious meals

C. Limit the client's physical activity

D. Advise the client to avoid all carbohydrates

In managing a child with a longstanding tapeworm infection, an important nursing consideration is to ensure that the client receives frequent, nutritious meals. This is crucial because a tapeworm can significantly affect the nutritional status of the host. The presence of the parasite can lead to malabsorption of nutrients, resulting in deficiencies that may compromise the child's growth and development. Providing frequent and nutritious meals helps to support the child's overall health and may mitigate some of the nutritional deficiencies caused by the tapeworm. It's essential to focus on a balanced diet rich in necessary vitamins and minerals to help the child regain strength and support recovery. While dental health, physical activity, and carbohydrate intake are important aspects of overall health management, they do not directly address the immediate nutritional needs of a child suffering from a long-term parasitic infection like a tapeworm. Therefore, emphasizing nutritious meals is the most relevant consideration.

7. What instruction should a nurse provide for someone taking praziquantel for a helminth infection?

- A. "You only need to take one dose."
- B. "Make sure to take all three doses that you've been prescribed."**
- C. "You can stop once you feel better."
- D. "Take this medication with a large meal."

The instruction to take all three doses prescribed for praziquantel is correct because completing the entire course of treatment is essential for effectively eliminating the helminth infection. Praziquantel is often used in a multi-dose regimen to ensure that the drug remains effective against the entire population of parasites, including those at different stages of their life cycle. Stopping the medication too soon, even if symptoms improve, can lead to incomplete treatment and the potential for the infection to persist or recur. In addition, while the medication may be effective in a single dose for some types of infections, the specific treatment plan, including the number of doses, is tailored to the type of helminth being treated and individual patient needs. Proper adherence to the prescribed regimen maximizes the chances of a successful outcome and minimizes the risk of developing drug resistance. On the other hand, simply taking one dose or stopping the medication when feeling better fails to address the need for an adequate therapeutic regimen, and taking praziquantel without considering food intake may not utilize the medication's full efficacy; it is indeed recommended to take it with food to enhance absorption, but following the complete dosing schedule remains most critical.

8. A client presents with elephantiasis of the lower legs. Which helminthic infection is most likely suspected?

- A. Ascariasis
- B. Filariasis**
- C. Schistosomiasis
- D. Trichinosis

In cases of elephantiasis, the most likely suspected helminthic infection is filariasis. This condition is typically caused by a type of parasitic worm from the filarial family, particularly *Wuchereria bancrofti*. These worms are transmitted to humans through mosquito bites, leading to lymphedema and, over time, significant swelling and thickening of the skin, which is characteristic of elephantiasis. The pathology associated with filariasis involves the obstruction of lymphatic vessels, causing fluid accumulation and subsequent swelling. This is distinct from the other listed conditions which do not typically manifest as elephantiasis. Ascariasis involves infection by the roundworm *Ascaris lumbricoides*, leading to gastrointestinal issues rather than lymphatic obstruction. Schistosomiasis is caused by trematode worms and primarily affects the urinary and gastrointestinal systems, presenting with symptoms such as hematuria or gastrointestinal bleeding but not with elephantiasis. Trichinosis results from infection with *Trichinella spiralis* and is characterized by gastrointestinal symptoms and muscle pain, not by elephantiasis. Thus, the connection between filariasis and the clinical presentation of elephantiasis makes filariasis the most likely suspected helminthic infection in this scenario.

9. Anthelmintics are commonly used to eliminate:

- A. Bacterial infections**
- B. Parasitic infestations**
- C. Viral infections**
- D. Fungal infections**

Anthelmintics are specifically designed to target and eliminate helminths, which are parasitic worms such as tapeworms, roundworms, and flukes. Their primary function is to disrupt the life cycle and physiology of these parasites, leading to their expulsion or death within the host. The correct choice focuses on the role of anthelmintics in treating parasitic infestations, which is the key aspect of their usage. In contrast, the other options refer to infections caused by different types of pathogens: bacterial infections are targeted by antibiotics, viral infections are treated with antiviral agents, and fungal infections are addressed with antifungal medications. Thus, anthelmintics are defined distinctively by their effectiveness against helminthic infections, making the correct answer the one that highlights their primary purpose.

10. What type of helminth does the term 'cestodes' refer to?

- A. Flatworms or tapeworms**
- B. Roundworms or nematodes**
- C. Flukes or trematodes**
- D. Pinworms or enterobiasis**

The term 'cestodes' specifically refers to flatworms, which are commonly known as tapeworms. These organisms are characterized by their long, flattened bodies and a unique anatomical structure that includes a scolex (head) and a segmented body known as proglottids. Cestodes are part of the phylum Platyhelminthes and are typically found in the intestines of their hosts, where they can absorb nutrients directly through their skin. Understanding the classification of helminths is important as it relates to their morphology, life cycle, and the diseases they may cause in humans and animals. Cestodes, distinct from other forms of helminths like nematodes (roundworms) or trematodes (flukes), have specific treatment protocols associated with them, making it vital to recognize their classification. This knowledge is essential for effective diagnosis and management in clinical settings.