

CDCA Objective Structured Clinical Examination (OSCE) Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. In a case of occlusal discrepancies noted from the frontal view of teeth, what does a midline fracture indicate?**
 - A. Dislocation of the mandible**
 - B. Possible facial fracture**
 - C. A need for surgical intervention**
 - D. Teeth misalignment**
- 2. Which condition could arise as a complication from untreated phlebitis?**
 - A. Sepsis**
 - B. Pulmonary embolism**
 - C. Internal bleeding**
 - D. Venous stasis**
- 3. For burning mouth syndrome management, which of the following is commonly recommended?**
 - A. Topical anesthetics**
 - B. Antidepressants**
 - C. Salivary stimulants**
 - D. Nutritional supplements**
- 4. What is the cause of epulis?**
 - A. Poor oral hygiene**
 - B. Cancer treatment**
 - C. Wearing ill-fitting complete dentures**
 - D. Early tooth development**
- 5. Which treatment is commonly used for managing major aphthous ulcers?**
 - A. Topical anesthetics**
 - B. Corticosteroids**
 - C. Antibiotics**
 - D. Antifungals**

- 6. What significant outcome can result from the early identification of supernumerary teeth in mixed dentition?**
- A. Increase in oral cancer risk**
 - B. Improved alignment of other teeth**
 - C. Higher likelihood of dental decay**
 - D. Fixed orthodontic requirements**
- 7. Why might one side of a complete denture contact in centric relation (CR) while the other does not?**
- A. Dimensional changes during processing**
 - B. Unequal occlusal surfaces**
 - C. Poor patient jaw alignment**
 - D. Inadequate laboratory procedures**
- 8. What type of restoration is most likely to require less tooth reduction?**
- A. Full crown**
 - B. Maryland bridge**
 - C. Inlay**
 - D. Composite filling**
- 9. If a tooth responds to cold stimuli within 3 seconds during pulp testing, what is the likely diagnosis?**
- A. Reversible pulpitis**
 - B. Irreversible pulpitis**
 - C. Healthy tooth**
 - D. Necrotic pulp**
- 10. Type III gold is best suited for which dental application?**
- A. Composite fillings**
 - B. Full crowns**
 - C. Partial dentures**
 - D. Bridges**

Answers

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

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Explanations

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1. In a case of occlusal discrepancies noted from the frontal view of teeth, what does a midline fracture indicate?

- A. Dislocation of the mandible**
- B. Possible facial fracture**
- C. A need for surgical intervention**
- D. Teeth misalignment**

A midline fracture can indicate a possible facial fracture, particularly when there are occlusal discrepancies noted from the frontal view of the teeth. This type of fracture often affects the balance and alignment of the facial structures and can disrupt normal occlusion. When the midline of the teeth does not align properly, it often suggests underlying issues, such as fractures in the facial bones, including the maxilla or mandible. The indication of a facial fracture becomes critically important in the context of clinical diagnosis and treatment planning. In traumatic situations, a midline fracture may present with additional symptoms such as swelling, bruising, or deformities in the facial region, further supporting the conclusion of a significant underlying injury besides just dental misalignment. Recognizing the implications of midline fractures can lead to more comprehensive patient evaluations and appropriate referrals for imaging or specialist care, ensuring safe and effective management of potential fractures. Understanding that occlusal discrepancies can stem from structural issues rather than simply dental alignment is crucial for correct diagnosis and treatment.

2. Which condition could arise as a complication from untreated phlebitis?

- A. Sepsis**
- B. Pulmonary embolism**
- C. Internal bleeding**
- D. Venous stasis**

Pulmonary embolism can arise as a complication from untreated phlebitis because of the potential for thrombus formation within the affected vein. Phlebitis, which is the inflammation of a vein, can lead to the formation of a blood clot (thrombus) in that vein. If a part of this clot dislodges, it can travel through the bloodstream and eventually lodge in the pulmonary arteries, resulting in a pulmonary embolism. This condition can lead to serious complications, including difficulties in breathing, decreased oxygen levels, and even death if the blockage is significant. In contrast, while sepsis can occur from infections in inflamed veins, it is not a direct result of phlebitis itself without additional complications like an infection. Internal bleeding is typically not associated with phlebitis but rather with vascular injury or conditions affecting coagulation. Venous stasis is often a consequence of the poor venous return but does not directly represent a complication from untreated phlebitis. Understanding the relationship between these conditions clarifies why pulmonary embolism is a critical concern linked to phlebitis.

3. For burning mouth syndrome management, which of the following is commonly recommended?

- A. Topical anesthetics**
- B. Antidepressants**
- C. Salivary stimulants**
- D. Nutritional supplements**

Burning mouth syndrome (BMS) is characterized by a burning sensation in the oral mucosa without an obvious clinical cause. The management of this complex condition often includes approaches aimed at addressing symptoms and underlying factors. Antidepressants are commonly recommended for managing BMS due to their potential effects on neuropathic pain and their ability to improve patient comfort. These medications can help modulate the pain pathways and alleviate discomfort, possibly addressing any psychological factors contributing to the syndrome. While topical anesthetics, salivary stimulants, and nutritional supplements may also have roles in the management of oral conditions, they are not typically first-line treatments for BMS. Topical anesthetics provide only temporary relief, salivary stimulants are more relevant for patients with dry mouth conditions, and nutritional supplements may be appropriate if deficiencies are identified but do not address the central issue of burning sensation directly. Therefore, the recommendation of antidepressants aligns with evidence supporting their effectiveness in alleviating the symptoms of burning mouth syndrome.

4. What is the cause of epulis?

- A. Poor oral hygiene**
- B. Cancer treatment**
- C. Wearing ill-fitting complete dentures**
- D. Early tooth development**

Epulis is a term broadly used to describe a tumor or growth that arises on the gingiva, often associated with irritation or trauma in the oral cavity. The correct option relates to wearing ill-fitting complete dentures, which can cause chronic irritation of the soft tissues in the mouth. When dentures don't fit properly, they rub against the gum tissue, leading to inflammation and potential growth of soft tissue masses like epulis. While other factors such as poor oral hygiene could contribute to gum disease or other oral health issues, they do not specifically lead to the localized irritation and subsequent growth that occurs with poor-fitting dentures. Similarly, while cancer treatment may affect oral tissues, it is not a direct cause of epulis itself. Lastly, early tooth development is not related to epulis as it pertains more to the eruption and formation of teeth, rather than the soft tissue changes in the gums. Therefore, the connection between ill-fitting complete dentures and the development of an epulis is the most direct and relevant cause.

5. Which treatment is commonly used for managing major aphthous ulcers?

- A. Topical anesthetics**
- B. Corticosteroids**
- C. Antibiotics**
- D. Antifungals**

Corticosteroids are commonly used for managing major aphthous ulcers because they help reduce inflammation and immune response associated with the ulcer. Major aphthous ulcers, also known as major canker sores, can be quite painful and significantly affect eating and speaking. Corticosteroids work by suppressing the inflammatory processes and promoting healing in the affected area, thereby alleviating discomfort and facilitating faster recovery. Topical anesthetics may provide temporary pain relief but do not address the underlying inflammation or aid in the healing process. Antibiotics are primarily used for bacterial infections, which are generally not involved in the causation of aphthous ulcers. Antifungals are relevant for fungal infections and are not applicable in the context of aphthous ulcer treatment. Thus, corticosteroids are the most effective choice for managing the pain and inflammation associated with major aphthous ulcers.

6. What significant outcome can result from the early identification of supernumerary teeth in mixed dentition?

- A. Increase in oral cancer risk**
- B. Improved alignment of other teeth**
- C. Higher likelihood of dental decay**
- D. Fixed orthodontic requirements**

The early identification of supernumerary teeth during the mixed dentition phase can lead to improved alignment of other teeth, which is crucial for maintaining optimal dental health and aesthetics. Supernumerary teeth, or extra teeth, can disrupt the alignment and eruption of adjacent teeth, leading to malocclusion and overcrowding. When these extra teeth are identified early, it allows for timely intervention, often through extraction or orthodontic management. By addressing the presence of supernumerary teeth, the remaining teeth have a greater chance to achieve proper alignment and positioning, which supports normal function and contributes to the overall health of the dental arch. In contrast, outcomes associated with increased oral cancer risk, higher likelihood of dental decay, or fixed orthodontic requirements may be influenced by a variety of factors not directly related to the identification of supernumerary teeth. While dental decay could occur as a consequence of overcrowding, it is not the primary benefit of early identification in this context. The focus is on maintaining proper dental alignment and reducing complications that could arise from unaddressed supernumerary teeth.

7. Why might one side of a complete denture contact in centric relation (CR) while the other does not?

A. Dimensional changes during processing

B. Unequal occlusal surfaces

C. Poor patient jaw alignment

D. Inadequate laboratory procedures

A situation where one side of a complete denture contacts in centric relation while the other side does not can often be attributed to dimensional changes during processing. During the manufacturing of dentures, materials may undergo shrinkage or deformation as they set, which can lead to a discrepancy between the intended design and the final product. This can cause asymmetrical alignment where one side may become narrower or less supportive than the other, affecting how the dentures fit against the jaw when the patient is in centric relation. It's essential to ensure that the processing stages are managed well to minimize these dimensional changes, as they can significantly impact the fit and stability of the dentures. Factors such as the casting and curing processes, or the specific materials used, can all influence how well the denture performs in relation to the patient's occlusal position.

8. What type of restoration is most likely to require less tooth reduction?

A. Full crown

B. Maryland bridge

C. Inlay

D. Composite filling

The option referring to a Maryland bridge is the most likely to require less tooth reduction. A Maryland bridge is a type of fixed dental prosthesis that is typically used to replace a missing tooth. Unlike a full crown or an inlay, which often necessitate significant reduction of the tooth structure to accommodate the restoration, a Maryland bridge primarily relies on the retentive wings or "pontics" that are bonded to the adjacent teeth. This design minimizes the amount of tooth structure that must be altered, making it advantageous in situations where conserving healthy tooth structure is a priority. Full crowns would necessitate complete coverage of the tooth and significant reduction, while inlays require preparation of the cavity space and often a greater reduction depending on the existing tooth structure. Composite fillings, though requiring less reduction than crowns or inlays, still involve some shaping of the existing tooth to create space for the filling material. Thus, when considering the need for minimal tooth alteration, the Maryland bridge stands out as a preferable option.

9. If a tooth responds to cold stimuli within 3 seconds during pulp testing, what is the likely diagnosis?

- A. Reversible pulpitis**
- B. Irreversible pulpitis**
- C. Healthy tooth**
- D. Necrotic pulp**

A tooth that responds to cold stimuli within 3 seconds during pulp testing is indicative of reversible pulpitis. In reversible pulpitis, the pulp is inflamed but still has the potential to heal and recover if the irritants are removed. The response to cold stimuli suggests that the pulp is still reacting normally, albeit with some sensitivity that indicates inflammation. This quick response shows that the pulp's vitality is maintained, and the inflammation has not reached a point where it causes constant or severe pain, which would be characteristic of irreversible pulpitis. In irreversible pulpitis, the reaction to stimuli is usually longer-lasting and more intense, often resulting in pain that persists even after the stimulus is removed. A healthy tooth would typically not exhibit any sensitivity to cold stimuli, and a necrotic pulp would not respond at all, as the nerve tissue is dead, meaning it cannot react to stimuli. Therefore, the observed response in this case aligns well with reversible pulpitis diagnosis.

10. Type III gold is best suited for which dental application?

- A. Composite fillings**
- B. Full crowns**
- C. Partial dentures**
- D. Bridges**

Type III gold is best suited for full crowns due to its excellent properties that make it ideal for this application. This alloy is characterized by its high strength, durability, and resistance to deformation, making it suitable for the demands of a full crown restoration, especially in areas subject to significant occlusal forces. Additionally, Type III gold has a good level of malleability and workability, which allows for precise adaptation and fit when crafting crowns. This is crucial since achieving a tight margin and appropriate contour is vital for the longevity of the restoration and the health of the underlying tooth structure. In contrast, while other options like composite fillings and partial dentures involve other materials that may be more appropriate given their specific properties and clinical requirements, they do not benefit from the same level of strength and biocompatibility offered by Type III gold in full crowns. Similarly, bridges also require strong materials, but the context of the question specifically highlights the suitability of Type III gold for full crown applications due to the unique stress-bearing needs associated with that type of restoration.