

# OSCE Diagnostic Skills Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. When can you use tissue conditioner and soft reline on a complete denture patient?**
  - A. You can do them anytime**
  - B. 1 week after delivery**
  - C. 6 months after delivery**
  - D. 1 year after delivery**
- 2. What is the time frame for delaying dental treatment for stroke patients who required significant hospitalization?**
  - A. 1 month**
  - B. 3 months**
  - C. 6 months**
  - D. 1 year**
- 3. What indicates a treatment option of retreating all canals in an RCT case?**
  - A. Single canal failure**
  - B. Presence of a radiolucency with symptoms**
  - C. Enamel fracture**
  - D. Attachment loss**
- 4. What adverse substance should be avoided in local anesthetics during the first 6 months after a stroke?**
  - A. Sodium**
  - B. Epinephrine**
  - C. Lidocaine**
  - D. Procaine**
- 5. What characteristic must a major connector of a denture possess?**
  - A. Provide relief**
  - B. Does not act as a support element**
  - C. Must be rigid**
  - D. Stability**

- 6. What is a common side effect of cyclosporine?**
- A. Rash**
  - B. Gingival hyperplasia**
  - C. Hair loss**
  - D. Weight gain**
- 7. Which diagnostic test is most appropriate for diagnosing Candida after antibiotic use?**
- A. Cytology smear**
  - B. Fungal culture**
  - C. Serology test**
  - D. Blood test**
- 8. Which of the following is NOT a characteristic of hyperpituitarism?**
- A. Increased bone marrow space**
  - B. Loss of lamina dura**
  - C. Reduction in trabeculations**
  - D. Enhanced muscle function**
- 9. What condition might a 14-year-old patient with high WBC, sore lymph nodes, and painful gums be experiencing?**
- A. Viral infection**
  - B. Leukemia**
  - C. Gingivitis**
  - D. Anemia**
- 10. What is the primary relationship established between diabetes and periodontitis?**
- A. Periodontitis causes diabetes**
  - B. Controlled diabetic patients have worse periodontitis**
  - C. Severity of periodontitis is related to hyperglycemia**
  - D. There is no significant relationship**

## **Answers**

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

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## **Explanations**

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**1. When can you use tissue conditioner and soft reline on a complete denture patient?**

**A. You can do them anytime**

**B. 1 week after delivery**

**C. 6 months after delivery**

**D. 1 year after delivery**

Tissue conditioners and soft relines are used in the management of complete dentures to enhance comfort and improve fit, and they can be utilized at various times throughout the lifespan of the denture. The correct choice highlights the flexibility in their application. Typically, tissue conditioners can be applied soon after the initial delivery of the dentures to help accommodate changes in the soft tissues of the mouth as the patient begins to adapt. This is especially important in the first few weeks when the mucosa may be sensitive or when there are initial adjustments to the denture fit. Soft relines can also be applied at any time to improve the adaptation of the denture to the underlying structures, addressing issues such as minor resorption of the ridge or changes in oral tissues over time. While there are recommended timelines for specific use after the initial fitting — such as during adjustment periods or in response to significant changes in the patient's oral anatomy — tissue conditioners and soft relines are versatile tools that can be incorporated into the care regimen as needed, thus allowing for their use at any point when symptoms arise or adjustments are necessary.

**2. What is the time frame for delaying dental treatment for stroke patients who required significant hospitalization?**

**A. 1 month**

**B. 3 months**

**C. 6 months**

**D. 1 year**

The recommendation to delay dental treatment for stroke patients who have needed significant hospitalization is rooted in ensuring patient safety and optimizing recovery. After a stroke, particularly one that has resulted in significant medical intervention, the patient may have various potential complications, whether they be neurological, physiological, or psychological. Delaying dental procedures for six months is generally considered appropriate because, during this time, patients may undergo rehabilitation and monitoring for any late-emerging effects of the stroke. This six-month period allows for sufficient recovery from the acute event, and it is within this timeframe that most individuals begin to regain their strength and stability. Additionally, it helps to ensure that any prescribed medications, such as anticoagulants or antiplatelet agents, are properly managed and assessed for potential interactions or bleeding risks that could complicate dental treatments. It's also important to consider that post-stroke patients may have unique dental needs or increased anxiety regarding dental procedures, requiring more time to ensure they are emotionally and physically prepared. Therefore, setting a six-month waiting period balances the need for timely dental care with the necessary precautions following a significant health event like a stroke.

**3. What indicates a treatment option of retreating all canals in an RCT case?**

- A. Single canal failure
- B. Presence of a radiolucency with symptoms**
- C. Enamel fracture
- D. Attachment loss

A treatment option of retreating all canals in a root canal treatment (RCT) case is indicated by the presence of a radiolucency with symptoms. This situation typically suggests that there may be persistent infection or a failure of the previous treatment, often evidenced by the radiographic appearance of a periapical radiolucency. This radiolucency indicates that the bacteria may still be present within the root canals, potentially leading to ongoing symptoms such as pain or swelling. Therefore, retreatment is needed to adequately address the infection in all canals to achieve successful healing and resolution of symptoms. In contrast, while single canal failures might suggest localized issues, they don't necessarily warrant retreating all canals, as treatment could be effectively focused on the affected canal only. Enamel fractures relate more to restorative concerns rather than pulp or periapical pathologies, and attachment loss is typically associated with periodontal issues rather than problems that necessitate retreatment of root canals.

**4. What adverse substance should be avoided in local anesthetics during the first 6 months after a stroke?**

- A. Sodium
- B. Epinephrine**
- C. Lidocaine
- D. Procaine

Epinephrine is a vasoconstrictor that is often added to local anesthetics to prolong their effect and minimize bleeding at the site of injection. However, in the context of a patient who has had a stroke within the last six months, the use of epinephrine can pose significant risks. After a stroke, there is an increased risk for cardiovascular events, including hypertension and other complications. The vasoconstrictive properties of epinephrine can lead to increased blood pressure and exacerbate the potential for adverse cardiovascular outcomes in these patients. Moreover, it could potentially increase the risk of secondary strokes by promoting cerebral vasoconstriction. Therefore, avoiding epinephrine in local anesthetics during the initial period following a stroke is crucial for patient safety, as it helps mitigate the risks of exacerbating the patient's condition and contributes to better overall management in the recovery phase post-stroke. Other substances, such as lidocaine or procaine, do not have the same cardiovascular effects and can be safer alternatives in this specific clinical scenario.

**5. What characteristic must a major connector of a denture possess?**

- A. Provide relief**
- B. Does not act as a support element**
- C. Must be rigid**
- D. Stability**

A major connector of a denture must be rigid to ensure that the denture can effectively transmit functional forces without flexing or deforming. Rigidity is essential because it helps maintain the shape and position of the denture in the mouth during activities such as chewing and speaking. A rigid connector provides stability and prevents movement of the denture base, which is crucial for the comfort and efficacy of the prosthesis. When the major connector is rigid, it contributes to the overall strength of the partial denture, preventing potential distortion that could lead to mechanical failure or discomfort for the patient. This rigidity allows the connector to adequately support other components of the denture, such as artificial teeth and clasps, ensuring that the forces applied during function are evenly distributed. While relief, support characteristics, and stability are also important considerations in denture design, they do not override the necessity for rigidity in the function of the major connector. A connector lacking rigidity may compromise the entire prosthesis, leading to issues with fit and function.

**6. What is a common side effect of cyclosporine?**

- A. Rash**
- B. Gingival hyperplasia**
- C. Hair loss**
- D. Weight gain**

Gingival hyperplasia is a well-documented side effect of cyclosporine, which is an immunosuppressant commonly used in organ transplant patients and in the treatment of certain autoimmune diseases. Cyclosporine can lead to an overgrowth of gum tissues, which can be exacerbated by poor oral hygiene or concurrent use of other medications, such as calcium channel blockers. This side effect typically manifests as swollen and often painful gums, which can lead to difficulties in maintaining oral hygiene and may necessitate periodontal intervention. While other side effects can occur with cyclosporine use, such as rash, hair loss, or weight gain, gingival hyperplasia is particularly notable and distinctive among patients taking this medication. The underlying mechanisms might involve the drug's influence on cellular processes, leading to the proliferation of gum tissue. This distinction helps clinicians identify and manage this specific side effect effectively.

**7. Which diagnostic test is most appropriate for diagnosing Candida after antibiotic use?**

- A. Cytology smear**
- B. Fungal culture**
- C. Serology test**
- D. Blood test**

The most appropriate diagnostic test for diagnosing Candida after antibiotic use is a cytology smear. This method is beneficial because it allows for direct visualization of fungal elements, such as Candida organisms, under a microscope. After antibiotic treatment, the normal flora of bacteria that typically keep Candida in check is disrupted, leading to an overgrowth of yeast. A cytology smear can quickly identify the presence and characteristics of these fungal organisms, making it a useful tool in diagnosing candidiasis in a timely manner. Fungal culture, while a valuable test, often takes longer to yield results, as it involves growing the organism in a lab setting, which can delay diagnosis and treatment. Serology tests are generally more useful for systemic infections and may not provide specific information for localized candidiasis. Blood tests typically assess for systemic spread, which is less relevant if the concern is localized infection after antibiotic treatment. In this scenario, a cytology smear stands out for its rapid and direct identification of Candida.

**8. Which of the following is NOT a characteristic of hyperpituitarism?**

- A. Increased bone marrow space**
- B. Loss of lamina dura**
- C. Reduction in trabeculations**
- D. Enhanced muscle function**

Hyperpituitarism is a condition characterized by excessive secretion of growth hormone and can lead to various skeletal and soft tissue changes. The presence of increased bone marrow space, loss of lamina dura, and reduction in trabeculations are all features commonly associated with conditions resulting from excess growth hormone, such as acromegaly. Enhanced muscle function is not a characteristic associated with hyperpituitarism. In fact, individuals with hyperpituitarism may experience muscle weakness or altered muscle metabolism over time. While there can be some hypertrophy of muscles due to increased growth hormone, it doesn't necessarily translate to overall enhanced muscle function. The characteristic impacts of hyperpituitarism are more focused on the skeletal changes and overall metabolic effects rather than enhancing muscle performance.

**9. What condition might a 14-year-old patient with high WBC, sore lymph nodes, and painful gums be experiencing?**

**A. Viral infection**

**B. Leukemia**

**C. Gingivitis**

**D. Anemia**

The symptoms presented by the 14-year-old patient—a high white blood cell count (WBC), sore lymph nodes, and painful gums—strongly point toward leukemia as a potential diagnosis. Leukemia is a type of cancer that affects the blood and bone marrow, leading to the overproduction of abnormal white blood cells. This can result in significant symptoms that align with what the patient is experiencing. A high white blood cell count is characteristic of leukemia, as the body is producing large quantities of these cells, though they are often dysfunctional. The presence of sore lymph nodes suggests that the lymphatic system is being affected, which is common in leukemia due to the infiltration of leukemic cells. Additionally, painful gums can occur in leukemia as a consequence of the periodontal effects of blood dyscrasia, leading to oral health problems and discomfort. In contrast, while viral infections might cause elevated white blood cell counts, they usually present with different systemic symptoms rather than the combination of lymphadenopathy and oral symptoms seen here. Gingivitis, primarily an oral inflammation, would not explain the high WBC or lymph node involvement. Anemia, while it can cause some systemic issues, primarily entails a low red blood cell count and does not typically present with high white blood cells.

**10. What is the primary relationship established between diabetes and periodontitis?**

**A. Periodontitis causes diabetes**

**B. Controlled diabetic patients have worse periodontitis**

**C. Severity of periodontitis is related to hyperglycemia**

**D. There is no significant relationship**

The primary relationship established between diabetes and periodontitis is that the severity of periodontitis is related to hyperglycemia. This means that poor blood glucose control can exacerbate periodontal disease. Diabetic patients often exhibit alterations in their immune response, which can impair their ability to fight infections, including oral infections like periodontitis. Additionally, the presence of periodontal infection can contribute to further complications in diabetes management, leading to a cycle where each condition negatively influences the other. In this context, the correlation is well-documented in clinical studies, highlighting that individuals with uncontrolled diabetes tend to have more severe periodontal disease due to the effects of high blood sugar on their overall immune function and tissue healing. This interrelation emphasizes the importance of maintaining good glycemic control not only for managing diabetes but also for preventing or mitigating periodontal complications.