

ADC Scenario-based MCQ example

Case scenario *(including resources)*

Alexander, a 64 year-old patient who is receiving warfarin as part of the management of his atrial fibrillation tells you that one of his lower right back teeth was restored three years ago by a dentist who has since retired from your practice.

The tooth is now occasionally sensitive to hot and cold. The clinical notes confirm the history and indicate that the tooth was restored using a resin composite material.

You obtain the a periapical radiograph.



Related question 1

In addition to testing the pulp vitality with either cold or an electric pulp tester, which of the following clinical tests or procedures would be the most appropriate to assist in making a diagnosis?

Response options

- A Orthopantomogram (OPG)
- B Bite-wing radiograph
- C Percussion test
- D Crack test
- E International normalized ratio (INR) test

Correct option (Y)

Y

Related question 2

In this case, what is most likely to cause the failure of the class II composite restorations of the posterior teeth?

Response options

Correct option (Y)

- A** Material placed in increments because of the risk of leakage between the increments
- B** Glass-ionomer lining used because of the risk that the lining will leach out over time
- C** Occlusal loads applied to the marginal ridge due to flexure of the material
- D** Extended curing time due to greater shrinkage of the material
- E** Gingival margin on dentine because bonding under these conditions is unpredictable

Y

Related question 3

Given the history and radiographic evidence, what is the best description of the sensitivity to hot and cold you would expect Alexander to report?

Response options

Correct option (Y)

- A** Sharp, occurring once or twice per week and only with ice-cream and hot coffee
- B** Sharp and relieved on removal of the hot or cold stimulus
- C** Dull and lingering for 1-2 minutes
- D** Always present but worse after a hot or cold stimulus
- E** Worse in the morning

Y

Related question 4

You decided to extract the tooth and in planning for the procedure you find that that the patient's International normalized ratio (INR) is 2.4.

What is the most appropriate action to take at this time?

Response options

Correct option (Y)

- A** Proceed with the extraction and provide appropriate post-operative instructions
- B** Proceed with the extraction and suggest that the patient stop their warfarin for 3 days
- C** Suggest that the patient stop their warfarin and commence taking 125mg aspirin before returning in 3 days to have the tooth removed
- D** Consult the patient's cardiologist to discuss stopping their warfarin treatment
- E** Refer to patient to a consultant Oral and Maxillofacial Surgeon who is best placed to manage complex surgical problems such as this

Related question 5

After removal of the 46, which prosthodontic options would be most appropriate for Alexander?

Response options

Correct option (Y)

- A** Immediate placement and immediate restoration with a dental implant
- B** Replacement with an immediate removable partial denture
- C** Replacement with a removable partial denture after the extraction site has healed
- D** Replacement with a fixed bridge
- E** No replacement until the patient has had an opportunity to assess their functional and aesthetic concerns