

KAP Questionnaire on Bioceramic Use in Endodontics

I. General Information

1. Gender

- a) Male b) Female

2. Age group

- a) 24–30 b) 30–50 c) Over 50

3. Years of clinical experience

- a) 0–5 b) 6–10 c) 11–15 d) More than 15

4. Practice location

- a) North-East (Tunis, Nabeul, Hammamet)
b) North-West (Bizerte, Beja, Jendouba, Kef)
c) Central region
d) Coastal region
e) South

5. Have you received any postgraduate training on bioceramic materials in endodontics?

- a) Yes b) No

6. Would you be interested in future training on the use of bioceramics in endodontics?

- a) Yes b) No

II. Knowledge

1. Do you use bioceramic-based endodontic sealers for root canal obturation?

- a) Yes b) No

2. If yes, what formulation do you use?

- a) Powder-liquid b) Injectable

3. What indications are you aware of for bioceramic sealers? (Multiple choice)

- a) All cases
b) Periapical lesions
c) Root resorptions
d) Calcified canals
e) Endo-perio lesions
f) Root perforations

4. In your opinion, how do bioceramic sealers influence endodontic healing?

- a) Faster healing compared to other sealers
b) No difference in healing
c) I do not follow up healing outcomes

III. Attitudes

1. Do you consider bioceramic materials effective in improving endodontic outcomes?

- a) Yes b) No c) Not sure

2. Do you trust second-generation bioceramics like Biodentine over traditional materials (e.g. MTA)?

- a) Yes b) No c) No opinion

IV. Practices

1. How often do you perform endodontic treatments per week?

- a) 1–10 teeth b) 11–20 teeth c) More than 20 teeth

2. How often do you use bioceramic sealers in your root canal obturations?

- a) Never b) 1–10 teeth/week c) 11–20 teeth/week d) >20 teeth/week

3. Do you use bioceramic filling materials (e.g. MTA, Biodentine)?

- a) Yes b) No

4. If yes, which material do you use?

- a) MTA b) Biodentine c) Both

5. How long have you been using bioceramic filling materials?

- a) Less than 1 year b) 1–2 years c) More than 2 years

6. How often do you use bioceramic filling materials?

- a) Never b) 1–5 teeth/week c) 6–10 teeth/week d) >10 teeth/week

7. In which clinical situations do you use bioceramic filling materials? (Multiple choice)

- a) Direct or indirect pulp capping
- b) Dentin substitute
- c) Floor perforation repair
- d) Root perforation repair
- e) External root resorption
- f) Apical plug in apexification
- g) Retrograde filling in apical surgery
- h) Revascularization

8. How do you evaluate the outcomes of cases treated with bioceramic filling materials?

- a) No failures observed
- b) I have encountered failures
- c) Neutral opinion

9. What do you believe is the most common cause of treatment failure using bioceramic materials?

- a) Improper endodontic protocol
- b) Handling errors
- c) Incorrect diagnosis or indication