

SURVEY QUESTIONS FOR MAGNIFICATION SYSTEMS

SECTION 1 – DEMOGRAPHIC INFORMATION

1- What is your specialty?

Endodontics

Other specialties

2- What is your title?

Endodontist

Post graduate student in endodontics

3- What is your gender?

Female

Male

4- What is your age group?

<35

36-45

46-55

56-65

66<

5- How many years have you been working as a specialist in endodontics?

0-5 years

6-10 years

11-15 years

16-20 years

21<

1

The part that all participants must answer

SECTION 2 – USAGE OF MAGNIFICATION SYSTEMS

6- Do you have a loupe in your institution?

Yes

No

7- Do you personally own a loupe in your institution?

Yes

No

8- Does your institution have a dental operating microscope?

Yes

No

9- Which magnification systems do you use most frequently during endodontic treatments?

Dental operating microscope

Loupe

Videodentoscope

None

2

The part that all participants must answer

**The survey was concluded for participants who answered 'none' to question 9. Those who answered 'loupe'/'dental operating microscope' continued in 2 different ways.*

10- What type of loupe do you prefer?

Flip-up

Through-the-lens (TTL)

I don't know the type of loupe I use.

11. What is the magnification rate of your loupe?

×1.5–×3.5

×3.6–×5.5

×5.6–×6.5

I don't know the magnification rate.

12. When did you start using the loupe?

Before specialty training

During specialty training

After specialty training

13- How often do you use the loupe during the following procedures in root canal treatments?

Diagnosis	Never	Sometimes	Frequently	Always
Root canal access cavity	Never	Sometimes	Frequently	Always
Determining canal entries	Never	Sometimes	Frequently	Always
Root canal preparation	Never	Sometimes	Frequently	Always
Root canal filling	Never	Sometimes	Frequently	Always
Adesiv restoration	Never	Sometimes	Frequently	Always
Managing complications	Never	Sometimes	Frequently	Always

14- Do you perform periapical surgery?

Yes

No

19- Do you use magnification systems during the following procedures in surgical root canal treatments (periapical surgery)?

Incision	Never	Sometimes	Frequently	Always
Flap elevation	Never	Sometimes	Frequently	Always
Bone removal	Never	Sometimes	Frequently	Always
Root-end preparation	Never	Sometimes	Frequently	Always
Root-end inspection	Never	Sometimes	Frequently	Always
Root-end filling	Never	Sometimes	Frequently	Always
Flap repositioning/suturing	Never	Sometimes	Frequently	Always

I don't use loupe or dental operating microscope in surgical root canal treatments.

3

Participants who answered loupe to question 9 can answer the questions in this section.

15- What is the magnification rate of your dental operating microscope?

x10 or less

x10-x20

x21-x40

I don' t know the magnification rate.

16- When did you start using the dental operating microscope?

Before specialty training

During specialty training

After specialty training

17- How often do you use the dental operating microscope for the following procedures in root canal treatments?

Diagnosis	Never	Sometimes	Frequently	Always
Root canal access cavity	Never	Sometimes	Frequently	Always
Determining canal entries	Never	Sometimes	Frequently	Always
Root canal preparation	Never	Sometimes	Frequently	Always
Root canal filling	Never	Sometimes	Frequently	Always
Adesiv restoration	Never	Sometimes	Frequently	Always
Managing complications	Never	Sometimes	Frequently	Always

18- Do you perform periapical surgery?

Yes

No

3

Participants who answered dental operating microscope to question 9 can answer the questions in this section.

4

Participants who answered loupe to question 14 or 18 can answer the questions in this section.

20- How often do you use magnification systems?

- Every day
- For special cases
- Never

21- Do you think magnification systems increase the success of the treatment?

- Yes
- No
- Sometimes

22- How did you learn to use a dental operating microscope and/or loupe?

- With my own experiences
- From my colleagues
- From courses
- With company training
- Other

23- Why do you prefer to use magnification systems?

- Increased vision
- Increased lighting
- Increased ergonomics
- Preventing eye fatigue
- Increased work quality
- Other

24- What do you think is the most important advantage of magnification systems in endodontic treatments?

- Reducing the number of complications and procedural errors
- Easier identification of root canal entrances
- Providing better visualization of root canals
- Facilitating root canal preparation and filling stages
- Facilitating endodontic surgery procedures
- Performing procedures with high precision
- Shortening treatment time
- Preventing iatrogenic errors
- Reducing physical fatigue of physicians
- Easier storage of data
- Patient education
- Education of physicians and postgraduate students

25- What do you think is the most important disadvantage of magnification systems in endodontic treatments?

- Difficulty in use
- Long adaptation period
- Extra adaptation for prescription glasses
- Headache and eye fatigue
- Reduced field of vision
- Difficulty in disinfection
- Requiring high technical precision in their use

26- Do you use magnification systems as often as you think? If no, what is the most important reason for this situation?

- Limited space
- Increased treatment time
- Patient density
- Lack of support from auxiliary personnel
- Lack of training and experience

I do not often use magnification systems in my endodontic treatments.

27- In which of the following procedures do you use magnification systems (dental operating microscope or loupe) to what extent?

Loope during root canal treatment	0%	25%	50%	75%	100%
Loope during surgical root canal treatment	0%	25%	50%	75%	100%
DOM during root canal treatment	0%	25%	50%	75%	100%
DOM during surgical root canal treatment	0%	25%	50%	75%	100%

28- What is your field of work and do you use magnification systems?

- Private sector - I use magnification systems.
- Private sector - I do not use magnification systems.
- Oral and Dental Health Center/Hospital - I use magnification systems.
- Oral and Dental Health Center/Hospital - I do not use magnification systems.
- Faculty of Dentistry - I use magnification systems.
- Faculty of Dentistry - I do not use magnification systems.

All participants, except those who answered 'none' to question 9, have answered this part and are continuing the survey.

29- How do you price treatments where magnification systems are used?

- I charge the same as treatments without using magnification systems.
- I include the cost of magnification systems in the treatment fee but charge more than usual.
- I charge an additional fee specifically for using magnification systems.

30- If you charge an additional fee for your patients, what is the average increase?

- 10-20% increase compared to the standard price for root canal treatment.
- 20-50% increase compared to the standard price for root canal treatment.
- More than 50% increase compared to the standard price for root canal treatment.
- I do not charge extra.

31- What is the average current price of the loupe in your clinic?

- Less than €310
- €310 - €1250
- €1270 or more
- I don't know the price.
- We do not have a loupe in our clinic.

32- What is the average current price of the dental operating microscope in your clinic?

- Less than €12,500
- €12,500 - €25,000
- €25,000 or more
- I don't know the price.
- We do not have a dental operating microscope in our clinic.

33- If you own a dental operating microscope in your clinic or private practice, how many years does it take to recover its cost through extra charges or increased patient preference?

- Less than 1 year
- 1-2 years
- 3-4 years
- 5 years or more
- We do not have a dental operating microscope in our clinic.

34- When purchasing a magnification system, which feature did you prioritize most?

- Price
- Magnification rate
- Depth of field and width of field
- Resolution
- I did not purchase a magnification system.

Participants who came up to question 28 and gave answers regarding the 'Private sector' were able to answer this part.