

Supplementary

Appendix 1 Questionnaire for Dental Students

Dear Students,

A team of academic staff kindly requests your participation in a study investigating the role of artificial intelligence (AI) in dental practice, as well as dental students' self-assessment of their confidence in their theoretical preparation for professional clinical practice.

The survey is anonymous and will be used solely for scientific purposes. It does not concern specific individuals or clinical practices and does not provide any form of evaluation.

Thank you in advance for your cooperation!

Please fill in - gender

Female ☐ Male ☐

Please fill in – age:

1. As future dental practitioners, do you consider your theoretical knowledge sufficient for diagnostic purposes, or would you rely on external sources such as search engines?

- A) I would rely entirely on my own knowledge
- B) I would verify my knowledge using a search engine
- C) I would seek a second opinion from a colleague
- D) I am unsure how I would proceed in such a situation

2. Do you believe that specialization is mandatory in order to practice specialized fields of dentistry (such as orthodontics, oral surgery, implantology, etc.)?

- A) Yes, specialization is mandatory
- B) It is possible with a short course
- C) I believe I can manage all procedures without specialization
- D) I am not sure

3. Do you believe that digital diagnostic methods should be incorporated into dental education?

- A) Yes, but conventional methods should be taught first
- B) Yes, they should be taught alongside conventional methods
- C) Yes, conventional methods should be completely replaced
- D) I cannot decide

4. What is your opinion on dental teledentistry (e.g., a patient enters a self-service booth, scans their oral cavity, and the data is sent to a digital processing center; you then receive the data by email and develop a treatment plan)?

- A) I am not yet ready to diagnose and treat via teledentistry
- B) Yes, I would trust it because I believe in the technology
- C) Yes, I would trust it because it saves time
- D) I cannot decide

5. As a future dentist, would you trust a diagnosis made by artificial intelligence (AI) for your dental treatment?

- A) Yes, I would trust it
- B) Yes, I would trust, but with the patient's consent
- C) I prefer the diagnosis to be made by a dentist (myself or the clinical team)
- D) I cannot assess

6. Do you accept that part of your dental diagnostic process could rely on data obtained, processed, and interpreted by specialized software (e.g., computer-assisted radiographic analysis, digital model analysis, etc.)?

- A) I would trust it
- B) I wouldn't trust it
- C) I would trust it, but the interpretation of the data should be done by a dentist
- D) I cannot assess

7. As a future dentist, would you trust dental treatment performed by a computer-controlled dental machine (AI)?

- A) I would trust it
- B) I would trust, but with the patient's explicit consent
- C) I prefer manual clinical work (performed by myself)
- D) I cannot assess