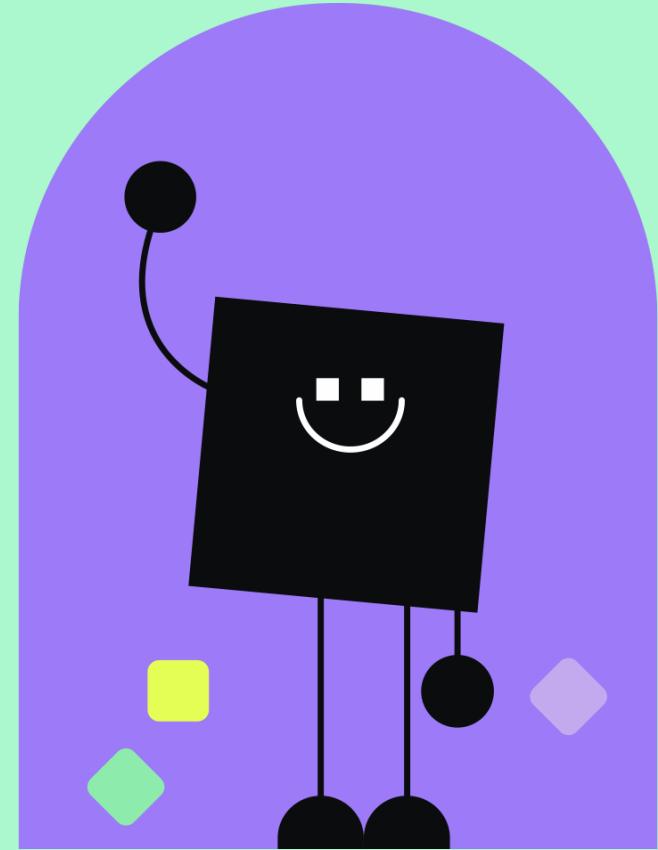


# Bridging the Gap

How AI Connects Dental Clinics with Students

AI:Dental



# Brief Intro

Peter Jurkáček

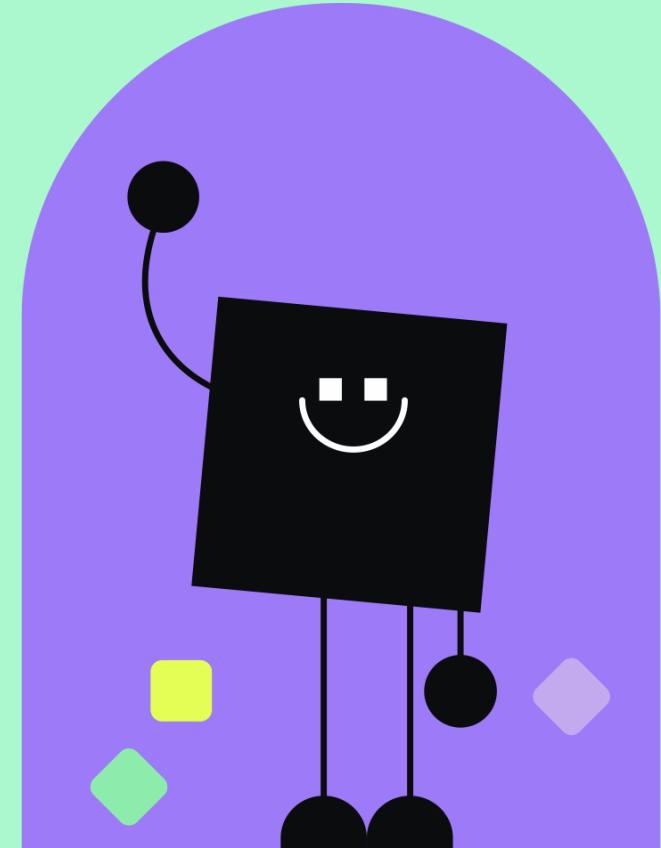
CTO at AI:Dental

[peter.jurkacek@aidental.ai](mailto:peter.jurkacek@aidental.ai)



# **Bridging the Gap**

**How AI Connects Dental Clinics with Students**

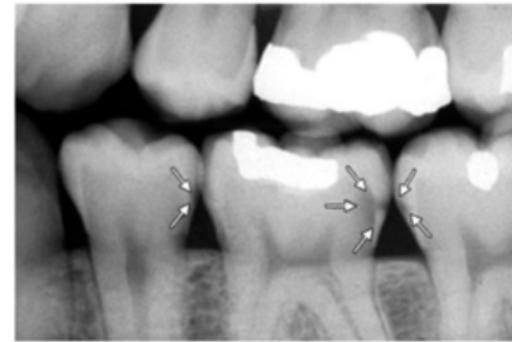


# The Gap

Dental students' accuracy ranges from  
**48% – 65%** in X-Ray interpretation

## X-Rays interpretation<sup>1</sup>

6.arrowheads here indicate?

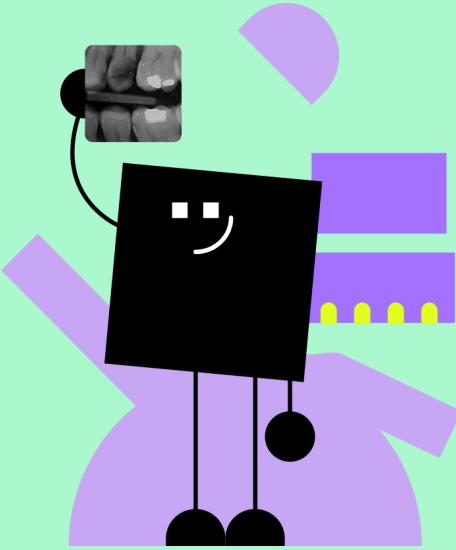


- cervical burnout
- incipient caries
- incorrect projection
- artifact

5.which disease condition of periapex does this radiograph reveal?

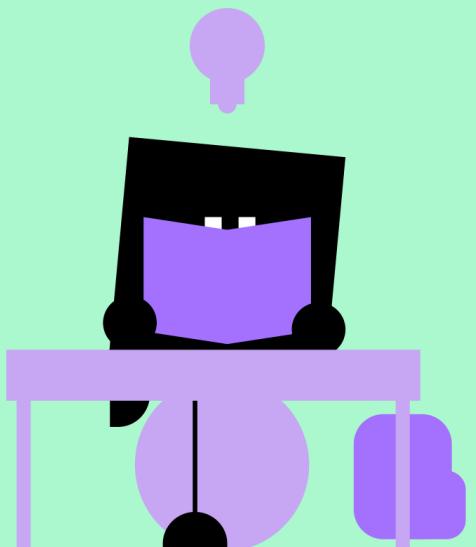


- apical periodontitis
- apical cyst
- dentoalveolar abscess
- periapical granuloma



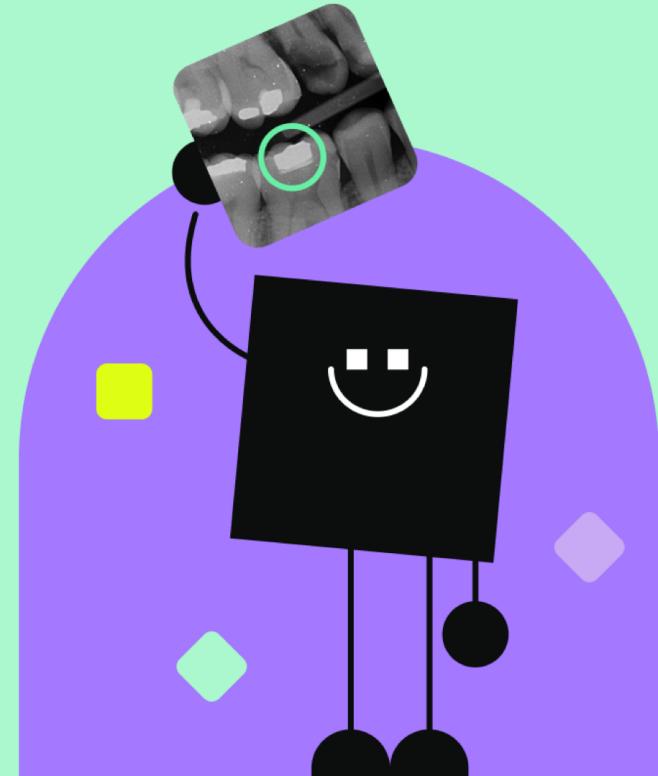
## Why the Gap?<sup>2</sup>

- Limited or no access to relevant X-Rays
- Challenges in obtaining real-time supervision feedback



# Bridging the Gap

How AI Connects Dental Clinics with Students



# Bridging the Gap

AI:Dental Education platform & AI

The screenshot shows the AI:Dental mobile application interface. At the top right, there is a message bubble with the text "I have tips for you!" and a small purple circular icon with a white character. On the left side, there is a vertical navigation bar with icons for Home (smile), Rooms (house), and You (person). The main content area is titled "Welcome Peter". Below this, there is a button labeled "Start practice". Three cards are displayed below the button:

- Tagging**: X-Ray tagging per patient. This card is purple and features an icon of a dental X-ray with a green dot.
- Quiz**: Learn from specific dental cases. This card is green and features an icon of a dental X-ray with a checkmark.
- Catalog**: Learn from catalog of cases. This card is yellow and features an icon of a folder with a tooth inside.

At the bottom, there is a section titled "Tagging in progress" showing a thumbnail of a dental X-ray with a progress bar indicating "25 %". A "Continue" button is located at the bottom of this section.

# **AI:Dental Education platform & AI**

- :A Convert X-Rays to educational content
- :B Real-time supervised learning
- :C Search for relevant X-Rays

# A Convert X-Rays to educational content

## Digital Medical Record



## Questions & Answers

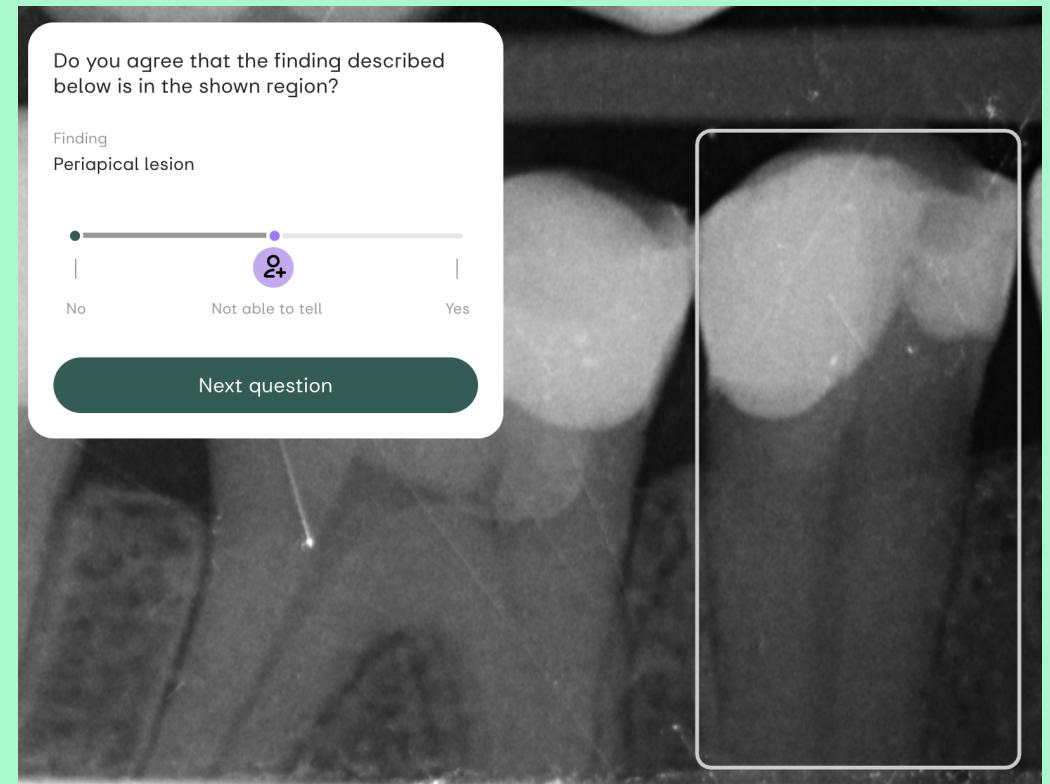
Do you agree that the finding described below is in the shown region?

Finding  
Periapical lesion

No      Not able to tell      Yes

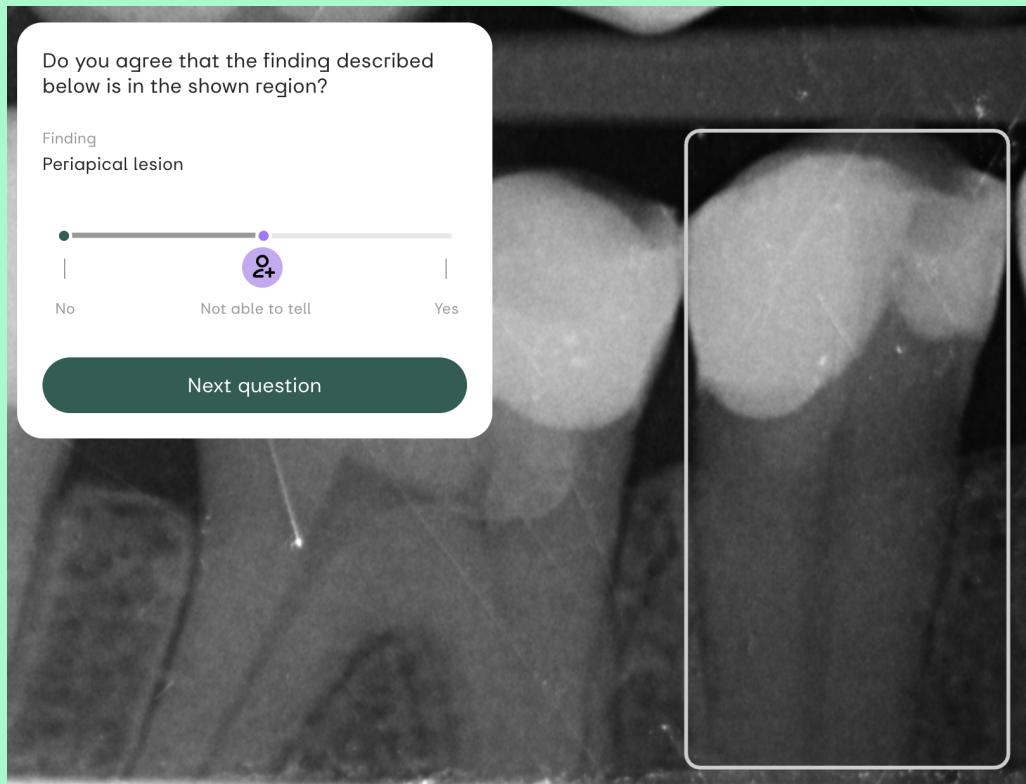
2+

Next question

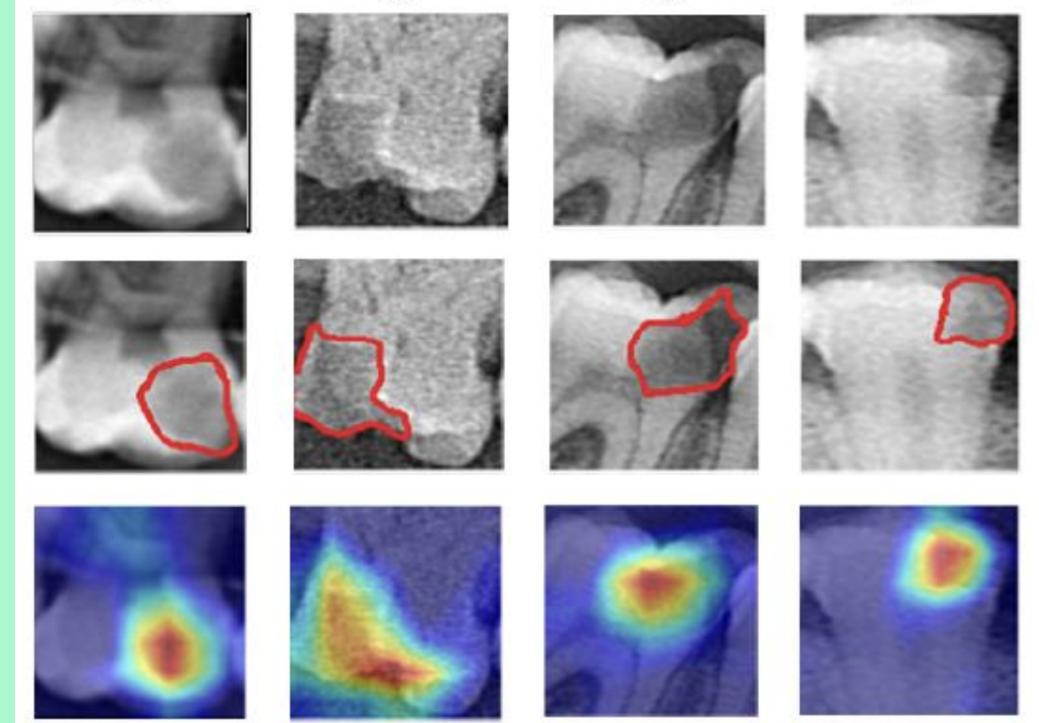


# :B Real-time supervised learning

## Questions & Answers



## Solution explanation<sup>3</sup>



# :C Search for relevant X-Rays

## Catalog of cases



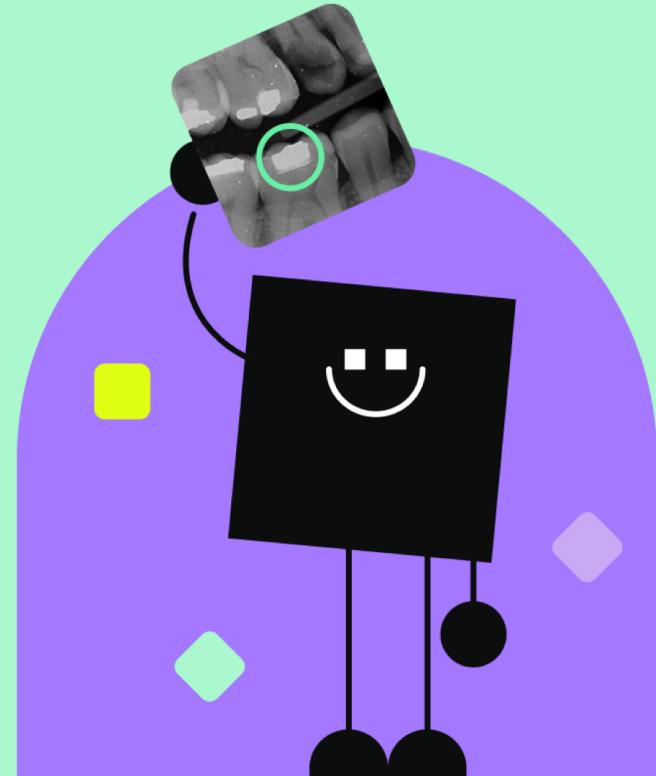
## Relevant X-Ray<sup>4</sup>

The image shows a detailed view of a dental X-ray of tooth 21. The X-ray is displayed on the right side of the interface. A white rectangular box highlights a specific area of interest on the X-ray. On the left side, there is a sidebar with the following information:

- Up arrow: Catalog of cases
- Text: Tooth 21 >
- Text: Tooth 21
- Text: Female, 18 - 34
- Section: Findings
  - Filling
- Section: Periapical lesion
- Section: Recommendations
  - Filling
  - Root canal treatment

# Better dental care :D

- Performance evaluation
- Employee onboarding
- Saved time & money
- Patient treatment outcomes



# Let's collaborate :D

- Universities
- Dental clinics
- Hospital
- Case Studies
- CE Mark

AI:Dental

