Presenter Slides



Preparing for Your Upcoming Presentation

Thank you for partnering with us.
This deck provides suggested slides to support your upcoming presentation.

To ensure you are fully prepared, we recommend the following:

Schedule a 15-minute call with Sheela Roth
for “Pearl’s Sneak Peek into the Future of AI Capabilities.”

We will review your materials, update any outdated content, and confirm you have the most current slides.

Review this deck highlighting AI, clinical images, and practical applications of AI in dentistry.

Reach out with any custom content requests so we can understand how best to meet your presentation objectives.



Sheela Roth
Head of Clinical Education, Pearl
Sheela@hellopearl.com
949-922-1072

Starting the Radiologic AI Revolution

Pearl introduced AI to dentistry with the world first and most widely deployed radiologic AI technologies.



2019
Launch

2020
Practice Intelligence® introduced

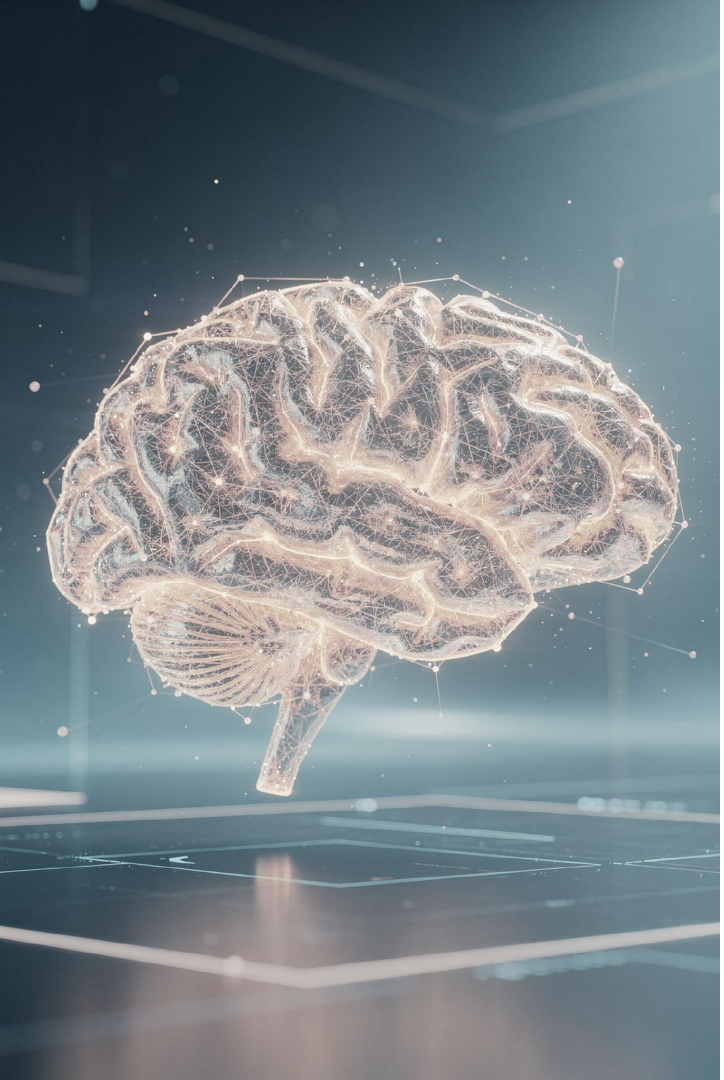
2021
Second Opinion® introduced in EU, Canada and Australia

2022
Second Opinion® introduced in USA, UK & beyond

2023
Second Opinion® integrated with 7 imaging & PMS systems, including Eaglesoft

2024
Precheck™ and Calibrate™ introduced; Second Opinion® natively integrated with 25 imaging & PMS system globally

2025
FDA cleared 3D CBCT; Claimcheck™ and Automation launched; first Practice Intelligence® PMS integration (Denticon)



A Simple Definition

What Is AI?

Artificial Intelligence is the ability of a machine to perform tasks that normally require human thinking — like recognizing patterns, making decisions, and learning from experience.

You Already Use AI Every Day



GPS Navigation



Music Streaming



Fraud Detection



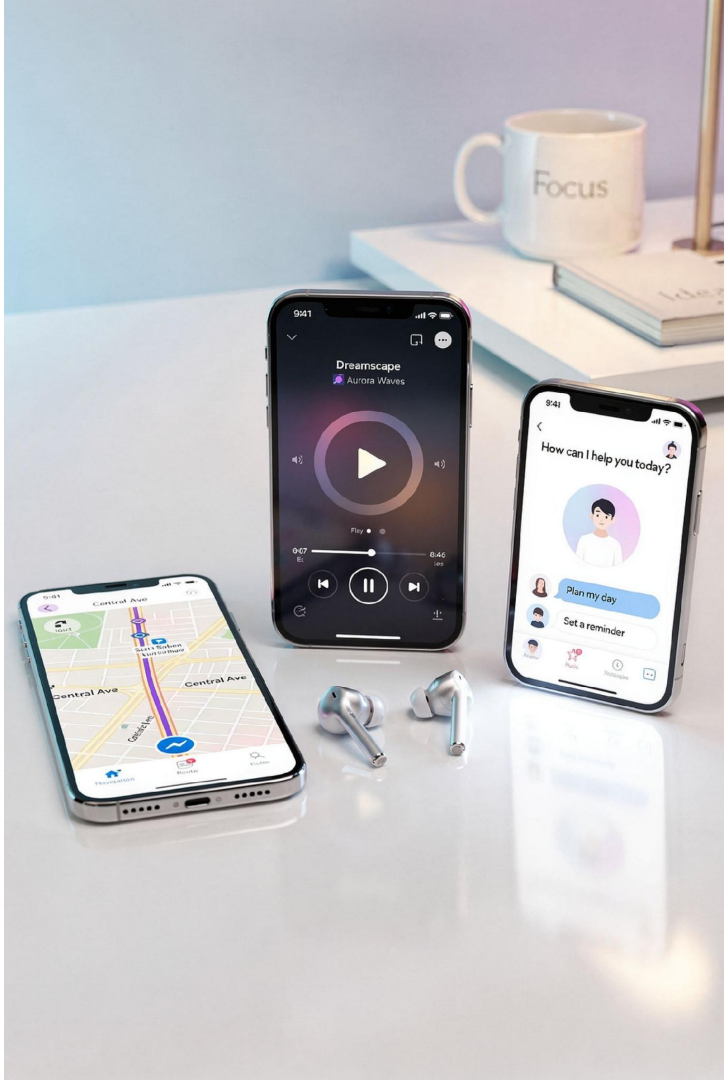
Email Filters



Facial Recognition



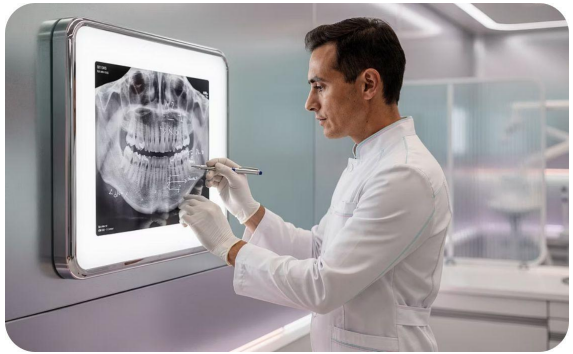
Netflix



How Dental AI Is Trained



Input: Millions of X-Rays



Learning: Dentists Label the Findings



Output: A Trained Algorithm

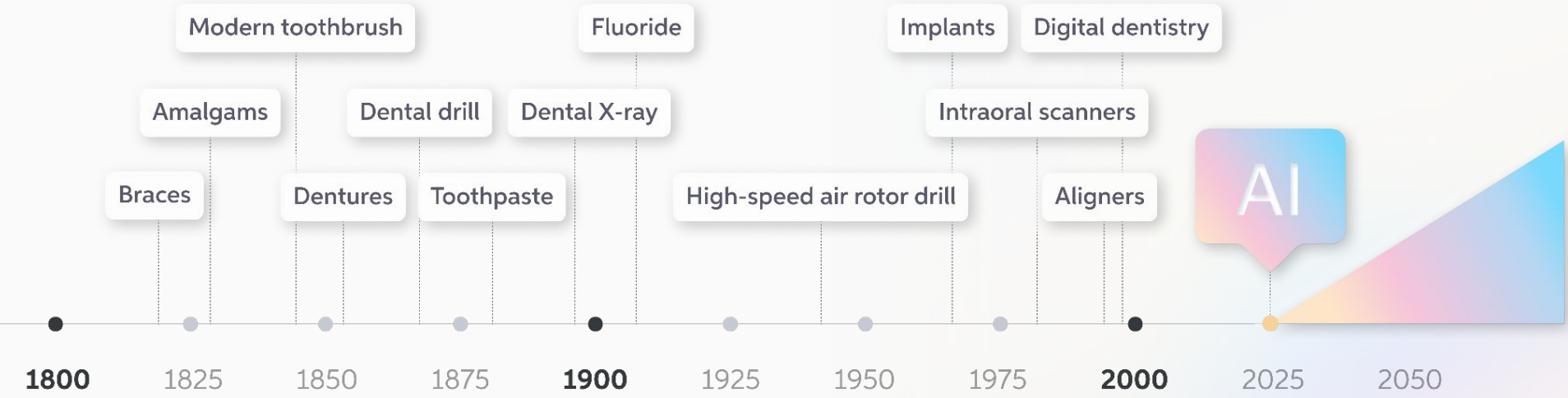


The Foundation of Care

Can We All Agree — Diagnosis Begins With the Radiograph?

When patients can see what you see, understanding comes naturally — and so does saying yes.

History of Modern Dentistry



More X-rays | BY THE NUMBERS

1.4 B
dental x-rays captured annually in US[1]

39%
of medical x-rays are dental[2]

Dentistry[3]

86%
US patients with dental imaging captured

Other medical fields[4]

10-15%
US patients with medical imaging captured

[3] https://meps.ahrq.gov/data_files/publications/st368/stat368.shtml [4] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8621920/

Second Opinion



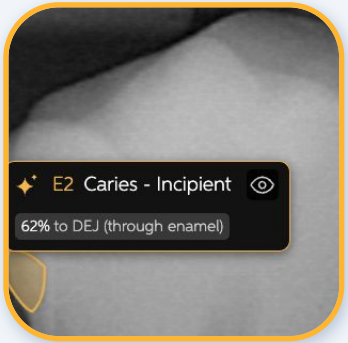
Features | AI Detections

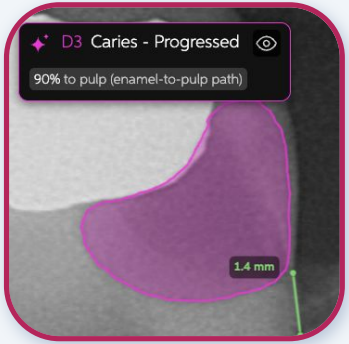
Detections

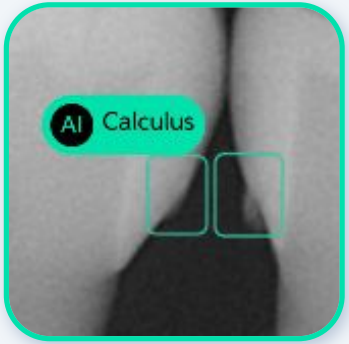
- Lesions within enamel
- Lesions progressed into Dentin
- Calculus
- Notable Margin
- Periapical Radiolucency

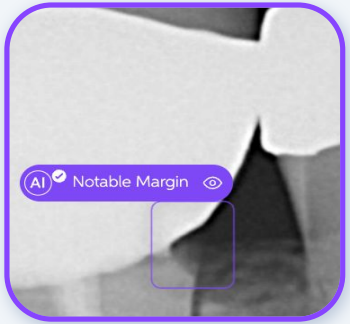
Bone Level Measurements

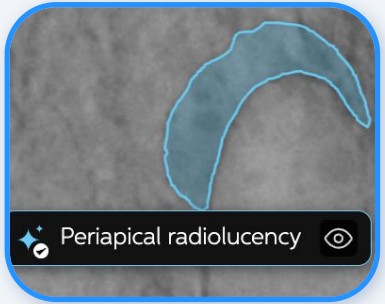
- 0 - 2.5mm
- 2.5 - 4mm
- 4mm +

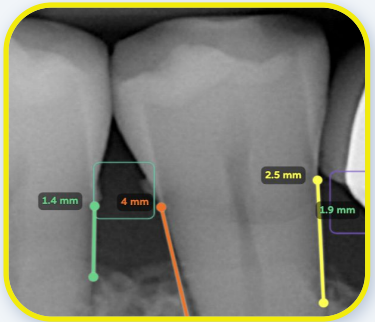




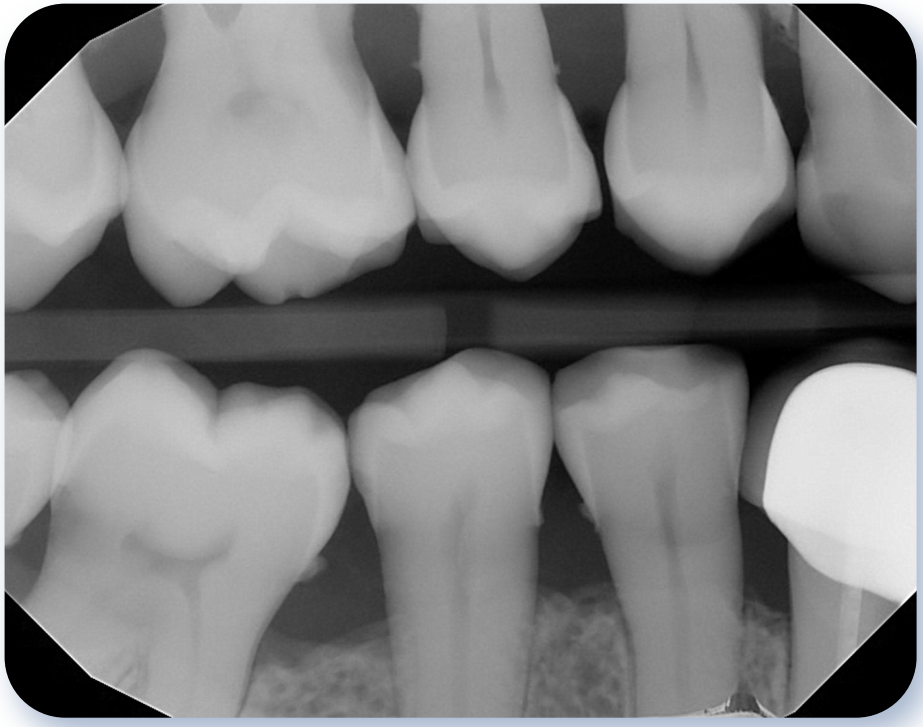


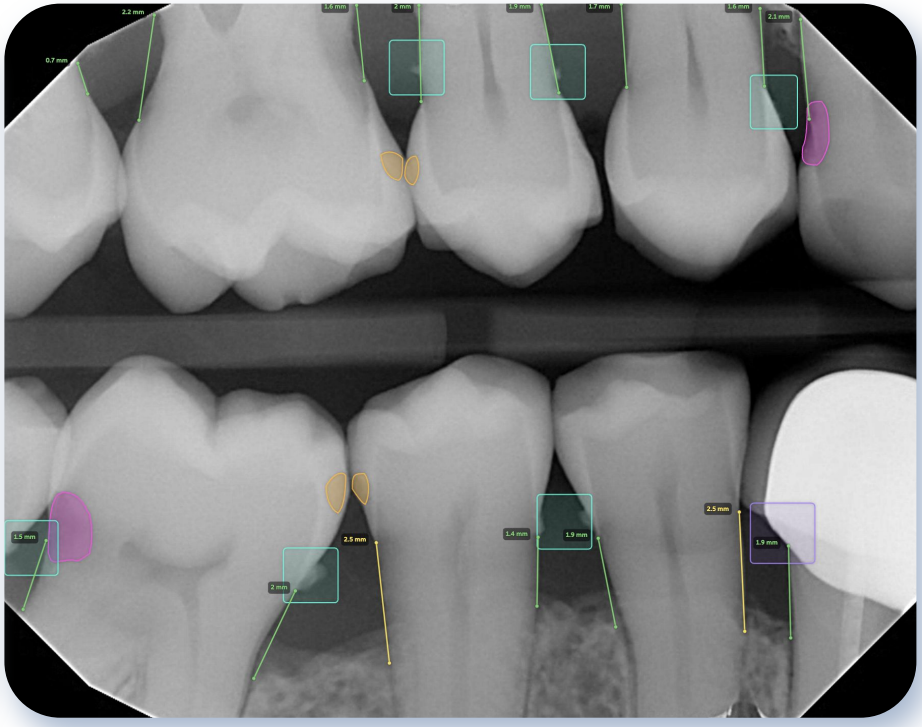




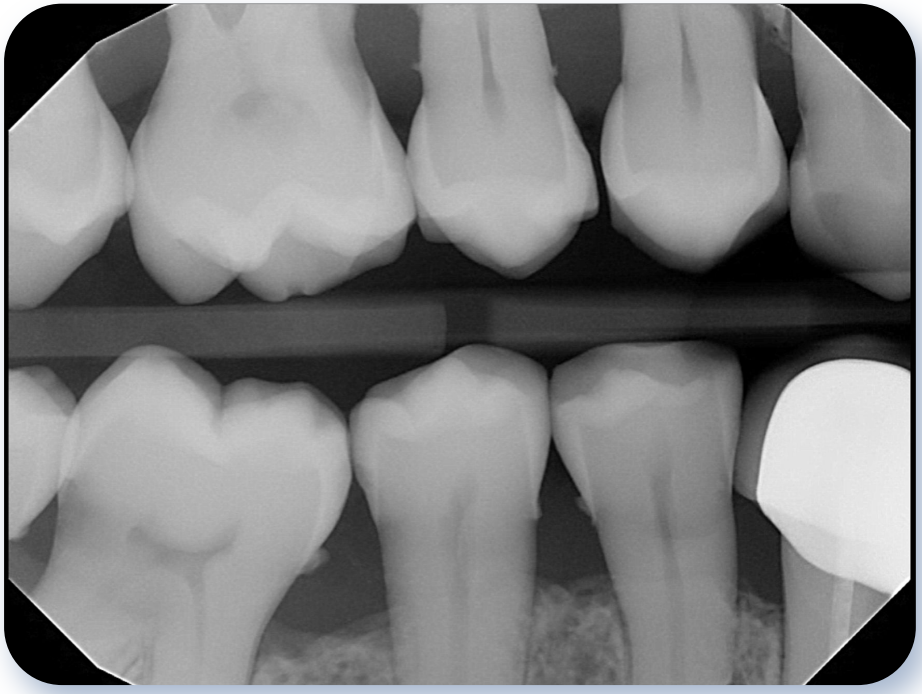


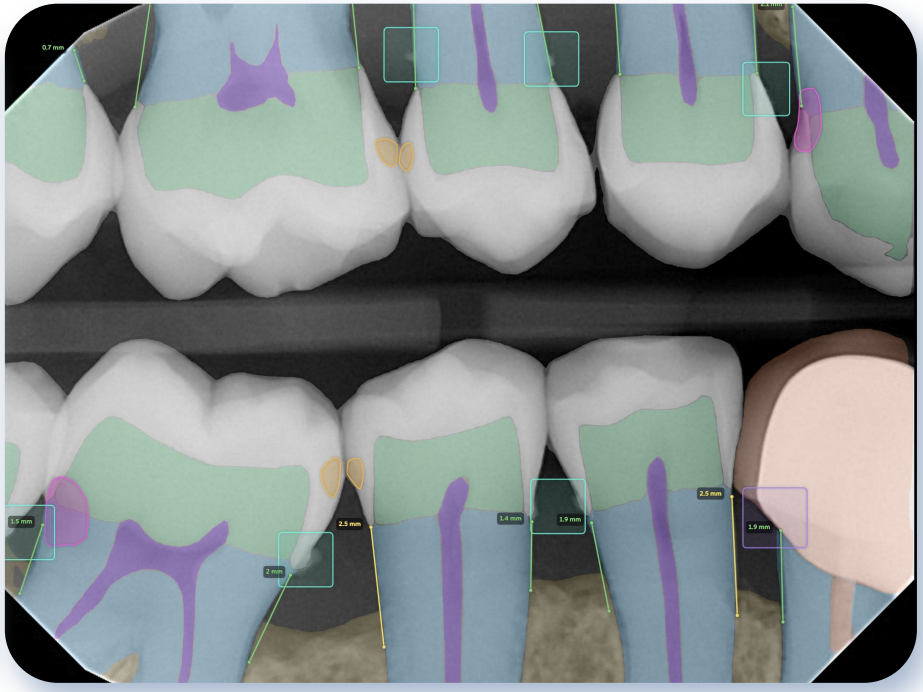
Radiograph Review Before & After AI



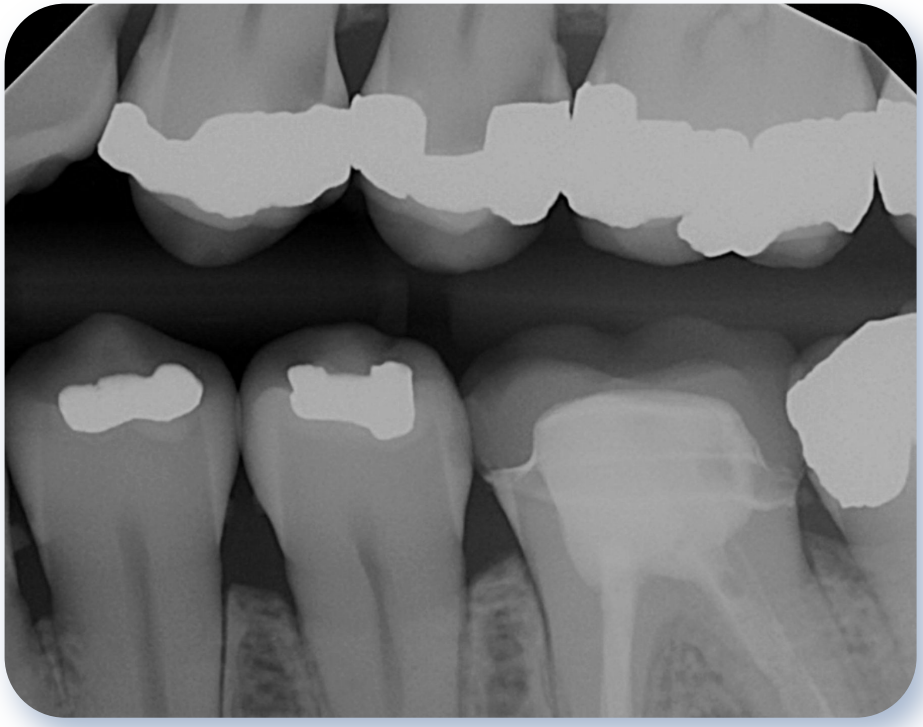


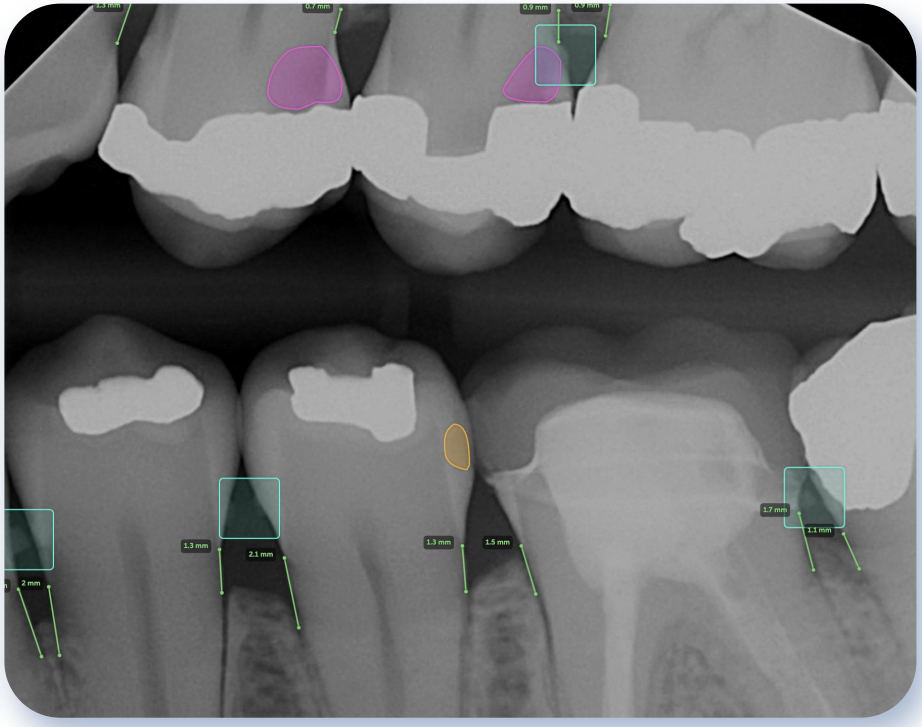
Case Presentation Night & Day



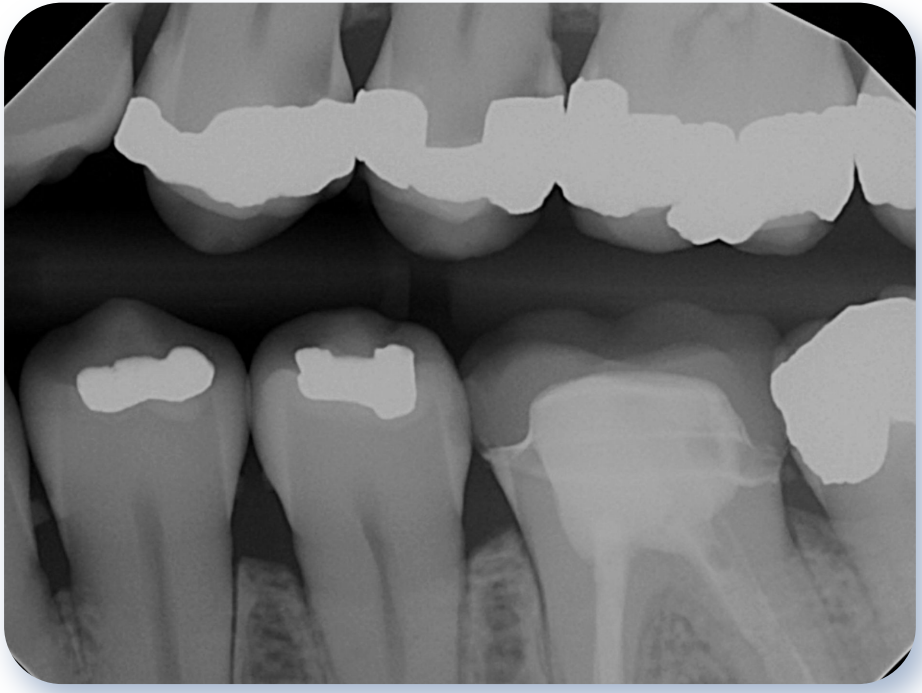


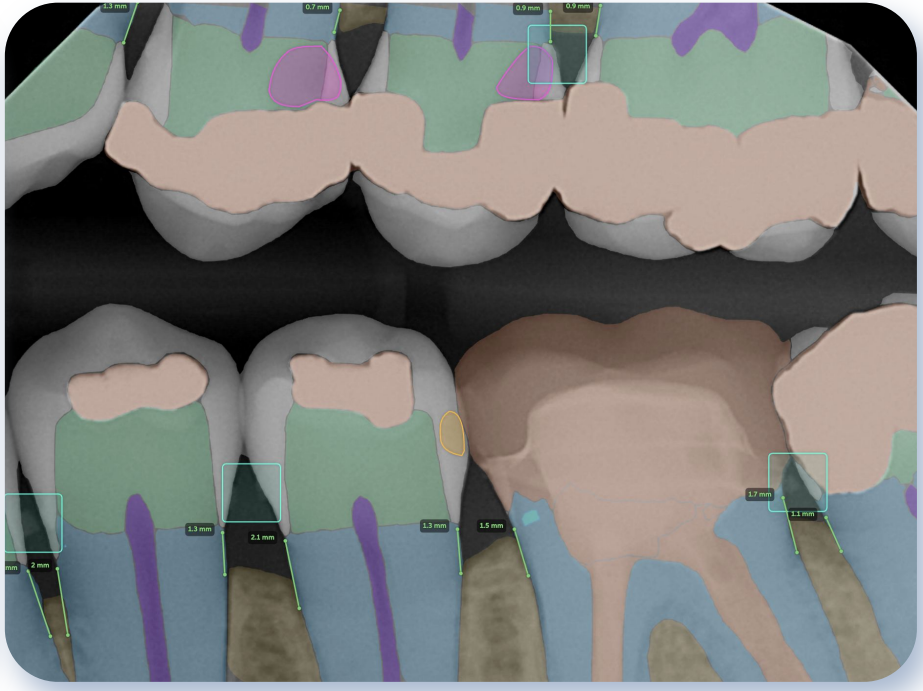
Radiograph Review Before & After AI





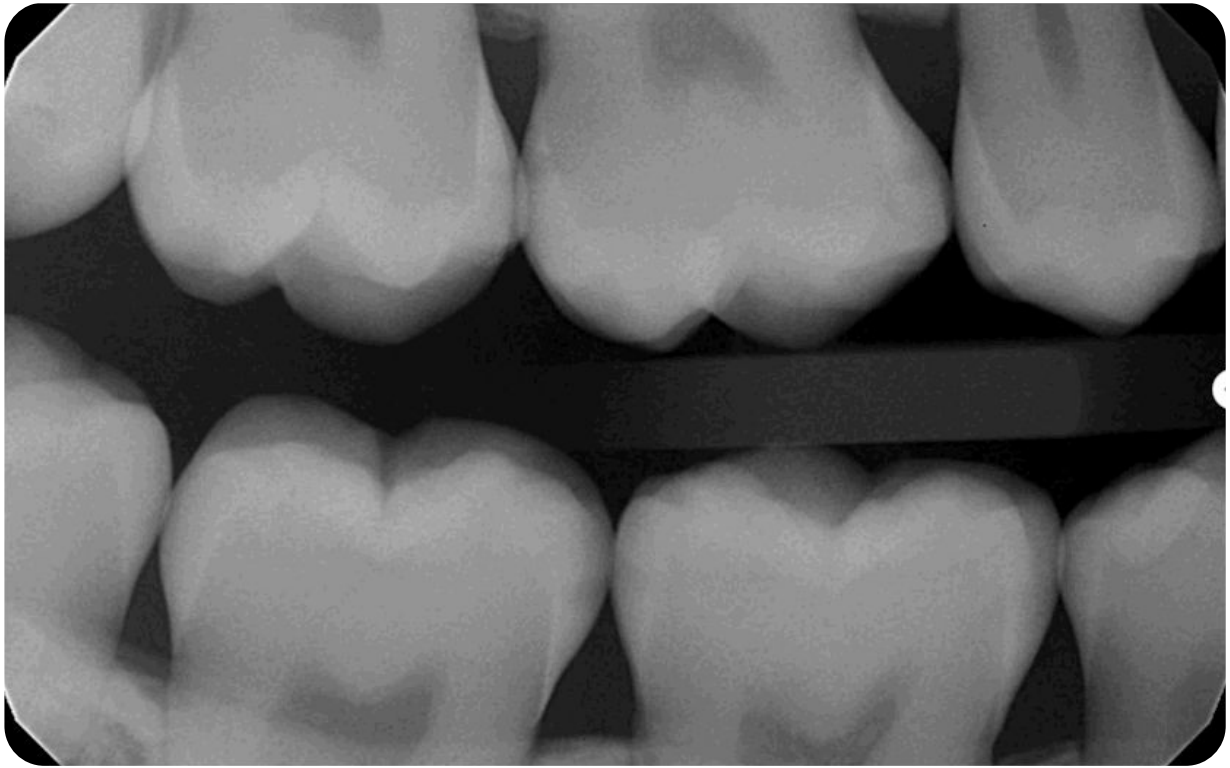
Case Presentation Night & Day



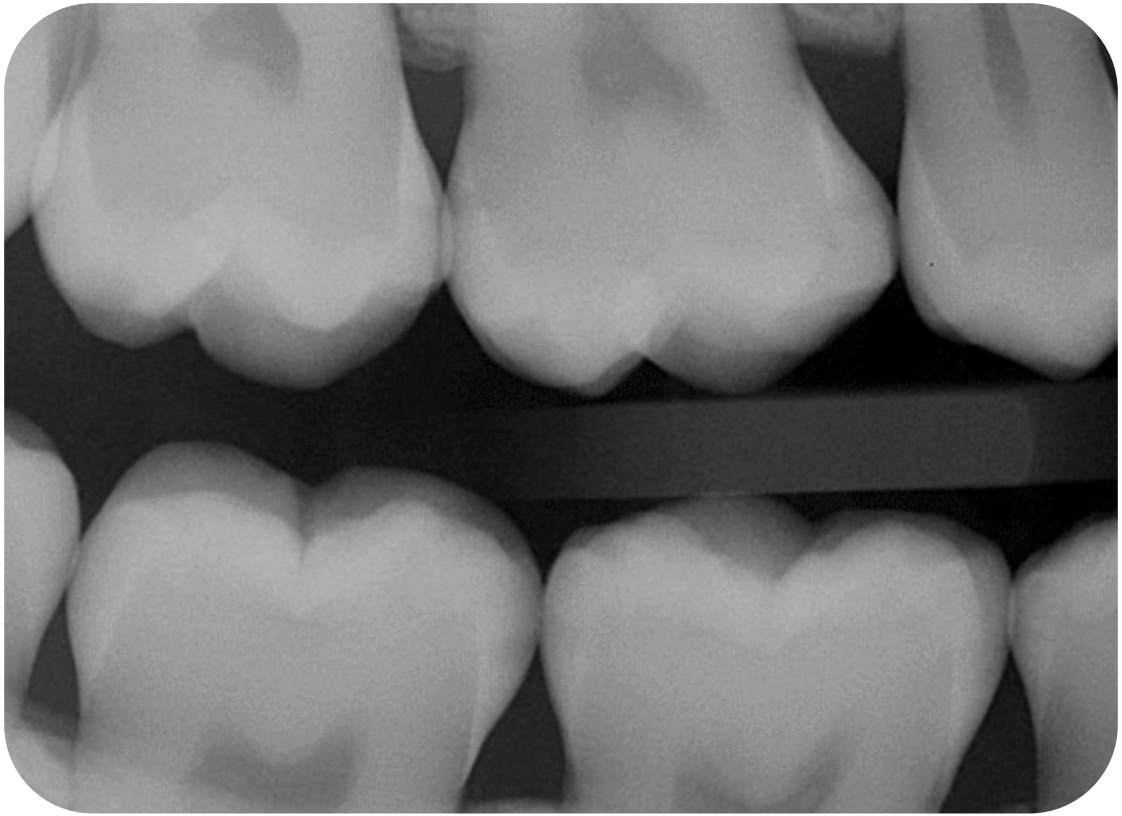




Second Opinion



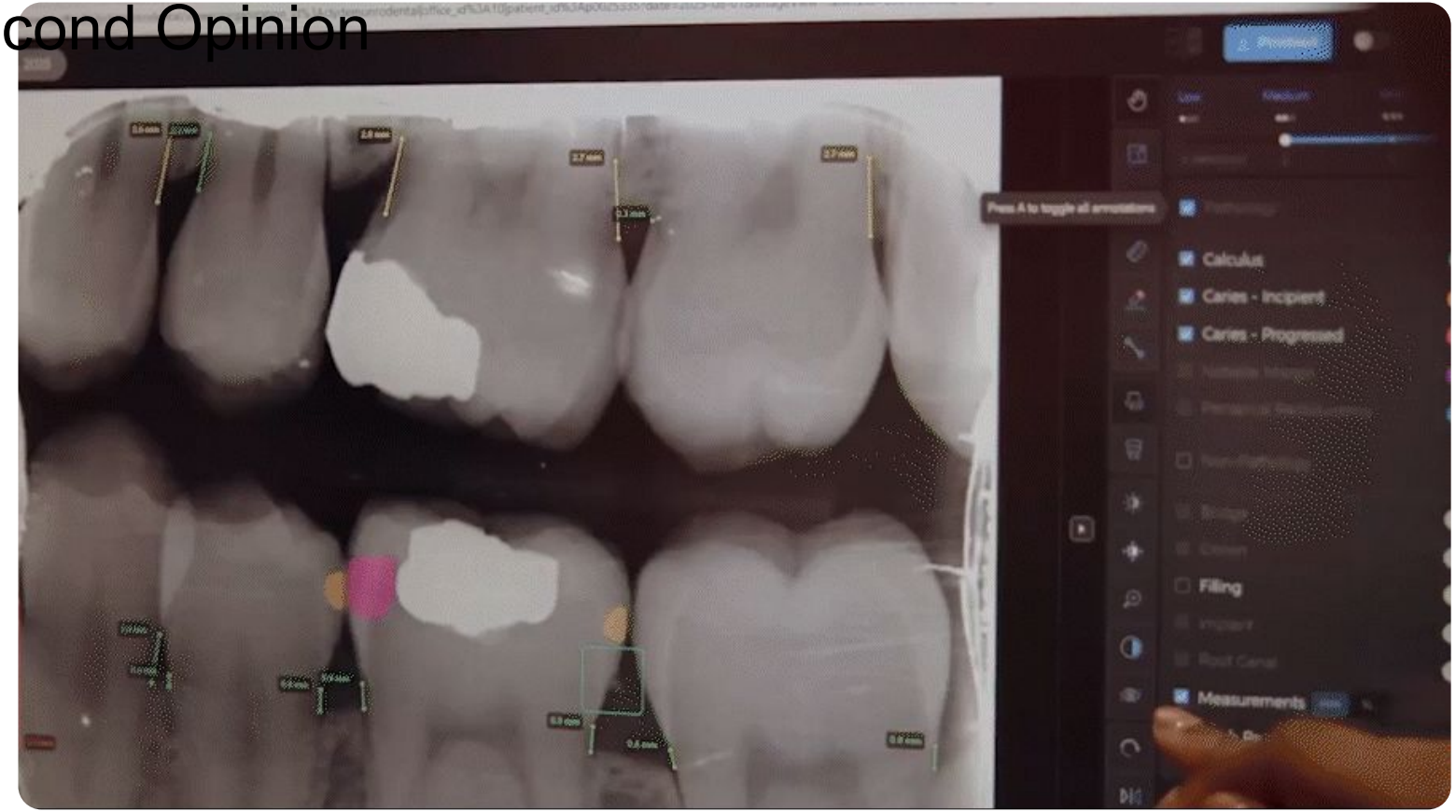
Second Opinion



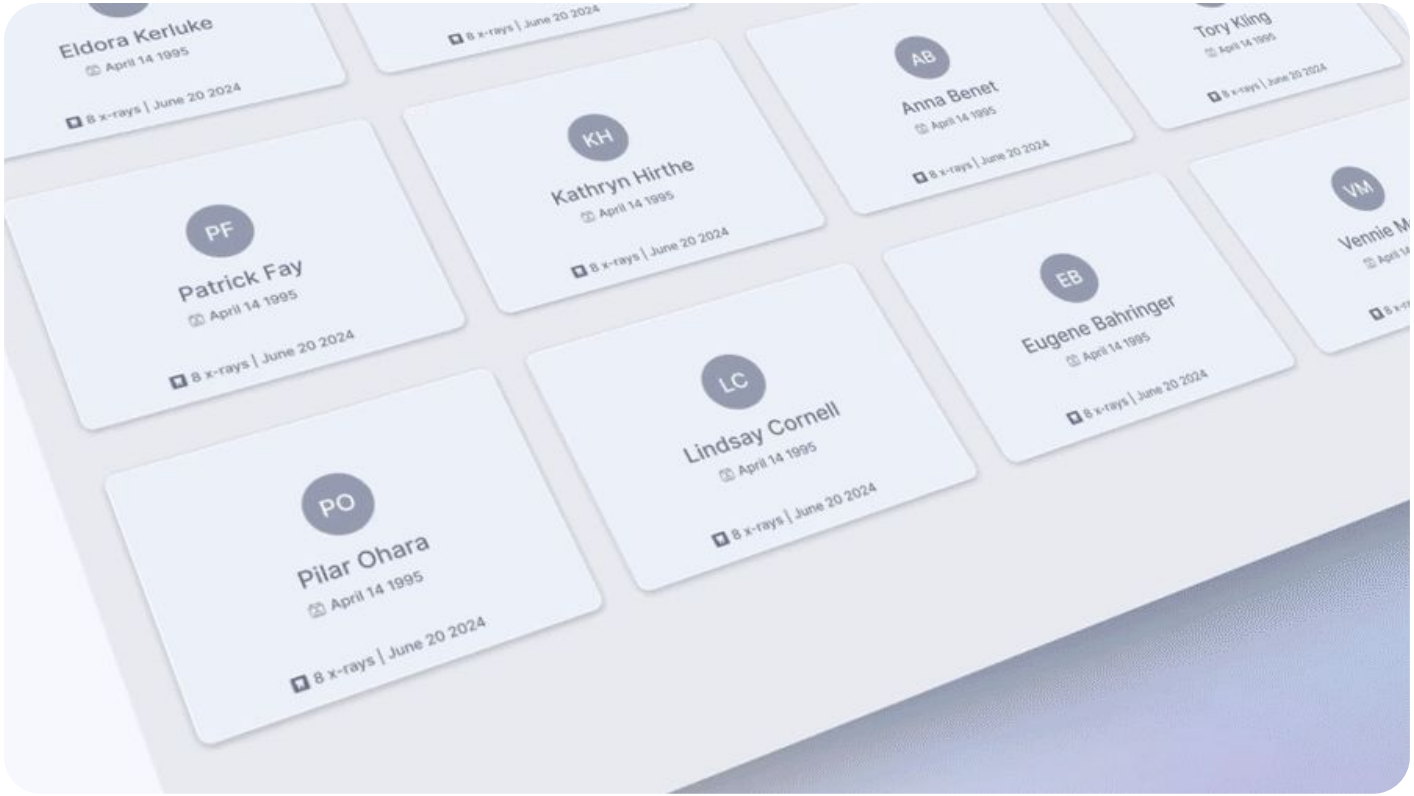
Second Opinion



Second Opinion



Second Opinion



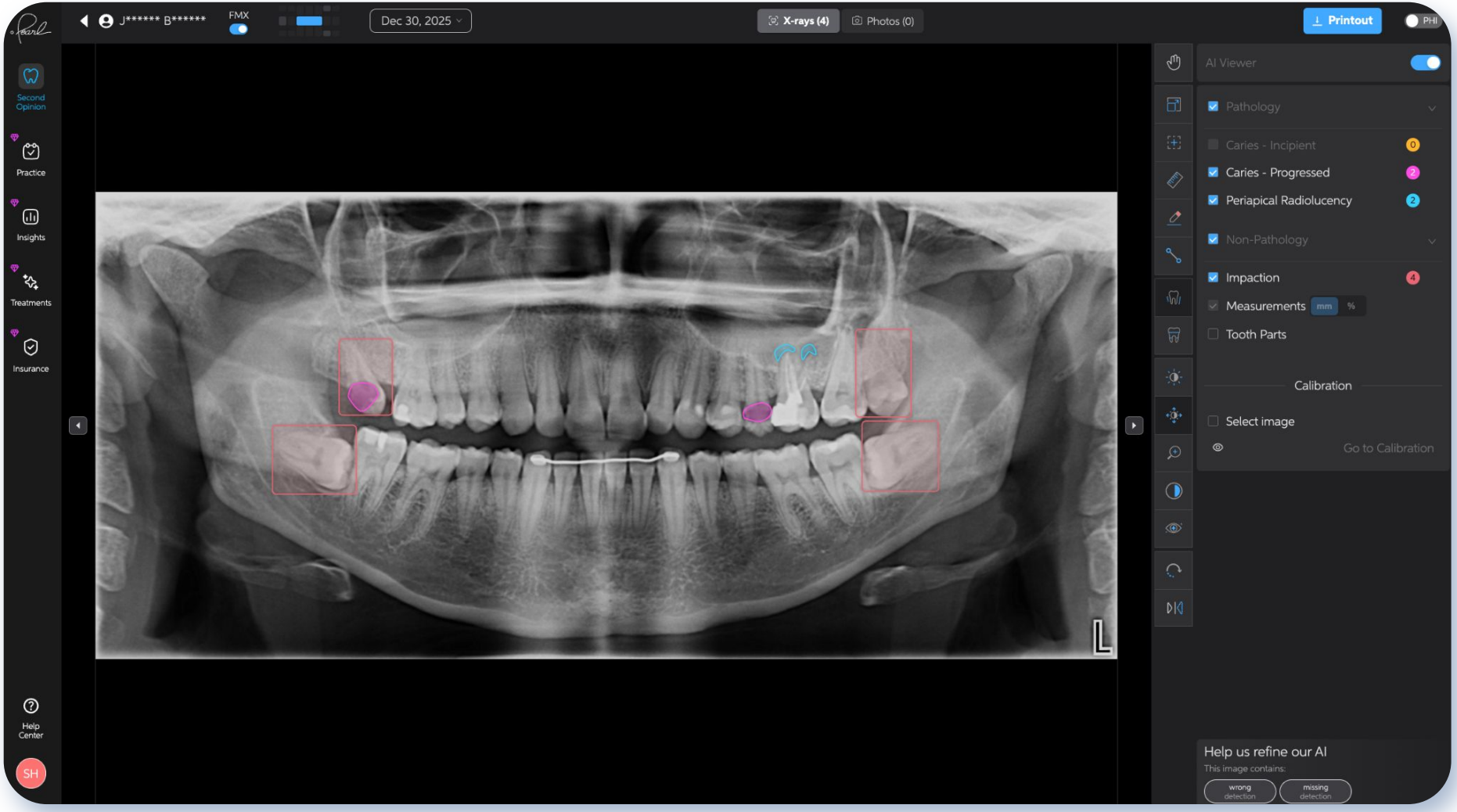


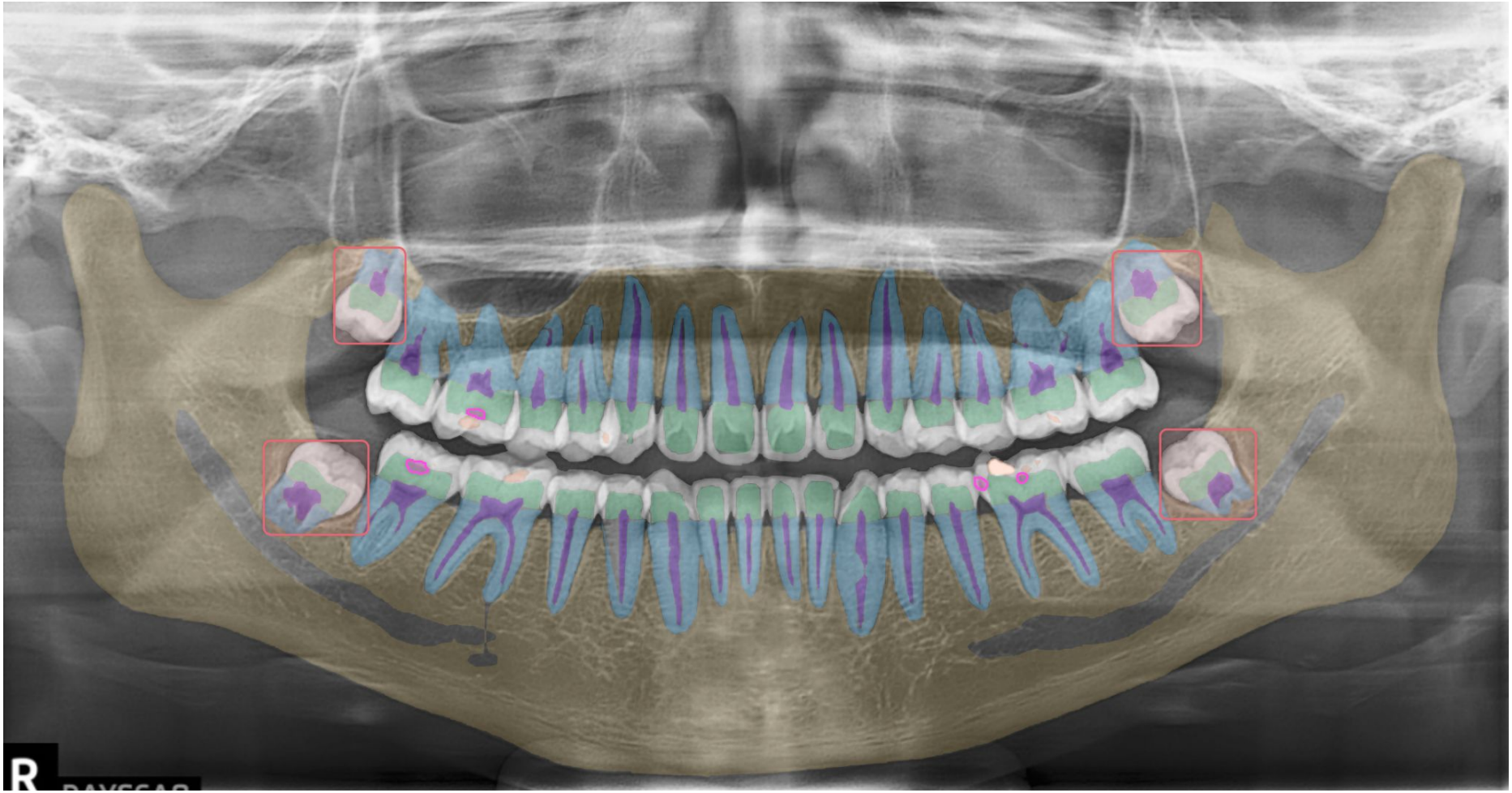
DENTIST + PEARL



37%

MORE DETECTED

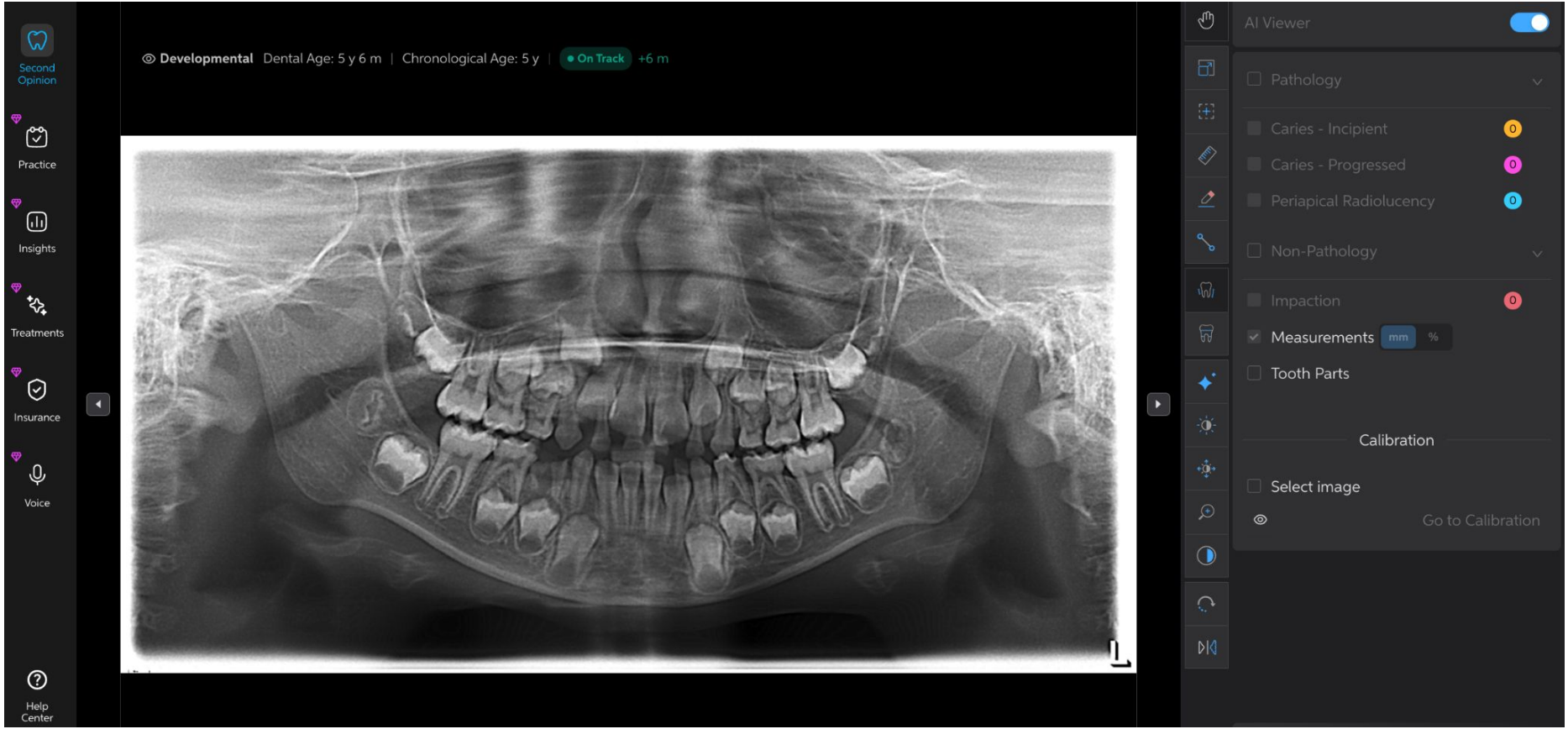

J****** B******
FMX
Dec 30, 2025
X-rays (4)
Photos (0)
Printout
PHI
Second Opinion
Practice
Insights
Treatments
Insurance
Help Center
SH
AI Viewer
Pathology
Caries - Incipient
Caries - Progressed
Periapical Radiolucency
Non-Pathology
Impaction
Measurements
mm
%
Tooth Parts
Calibration
Select image
Go to Calibration
Help us refine our AI
This image contains:
wrong detection
missing detection



Developmental Age added to Panorex Imaging



Chronological Age & Developmental Age Added to Panorex Imaging




Ethan Garcia
FMX
Aug 02, 2026
X-rays (5)
Photos (0)
Printout
Developmental
Dental Age: 5 y 6 m
Chronological Age: 5 y
On Track
+6 m
AI Viewer
Pathology
Caries - Incipient
Caries - Progressed
Periapical Radiolucency
Non-Pathology
Impaction
Measurements
mm
%
Tooth Parts
Calibration
Select image
Go to Calib
Help us refine our AI
This image contains:
wrong detection
missing detection



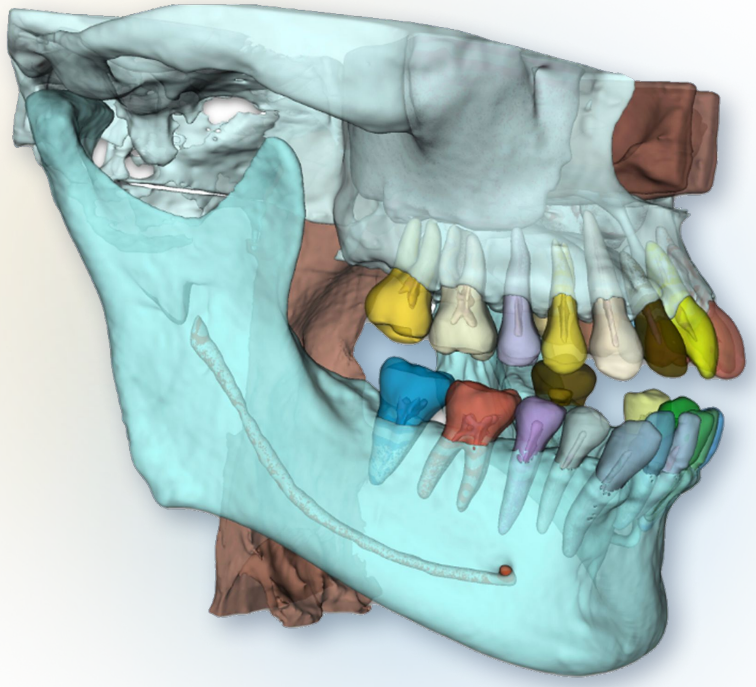
AI in 3D

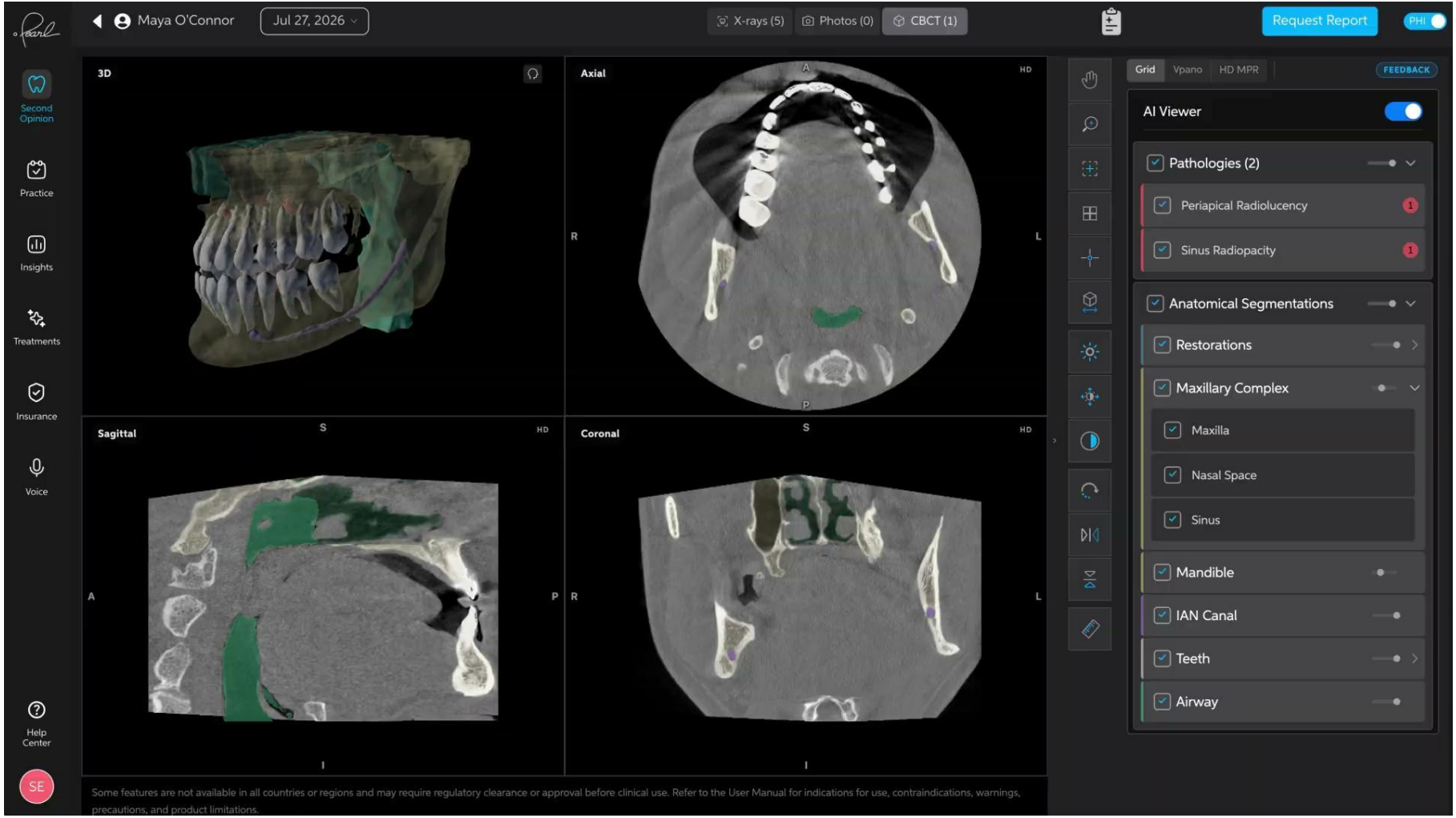


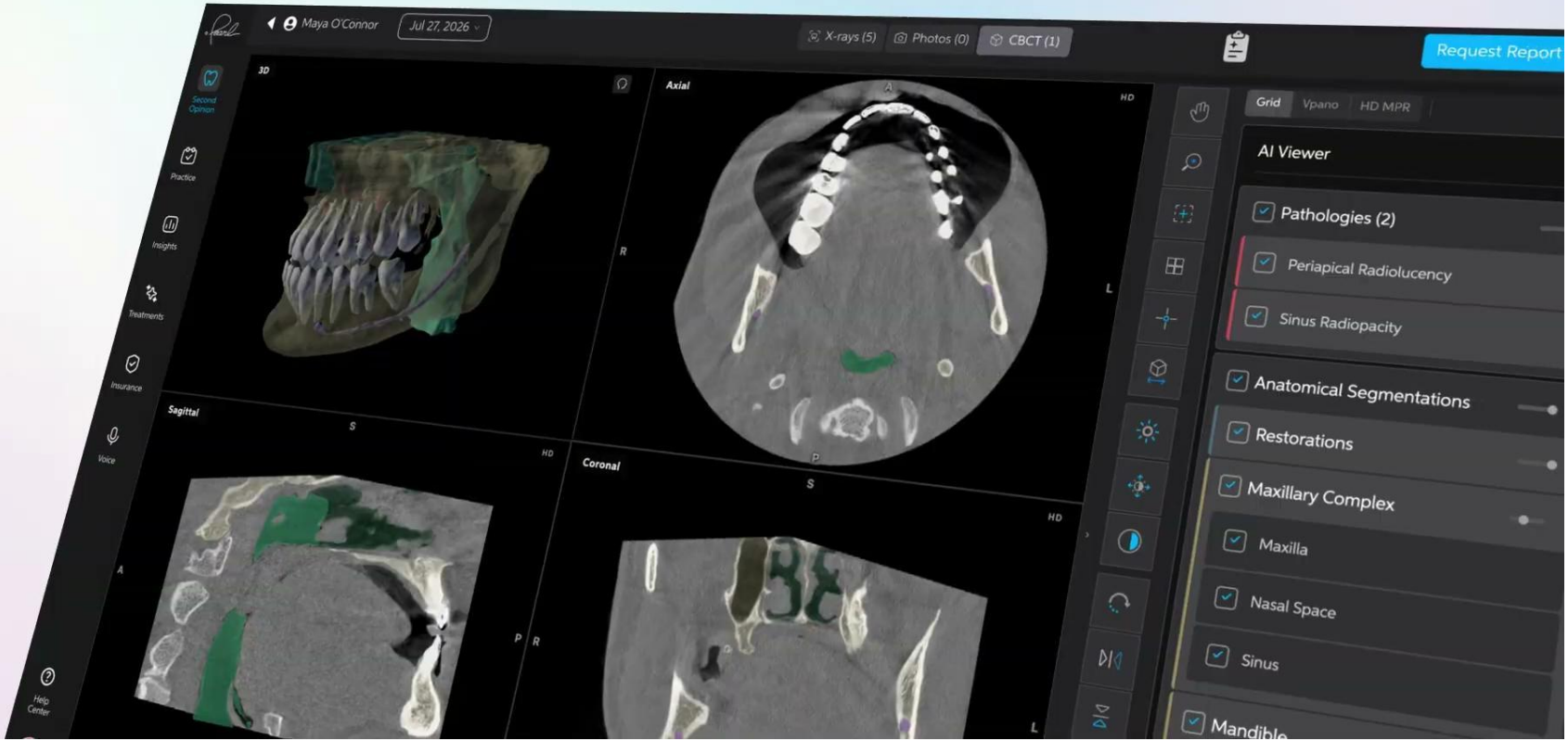
FDA Clearance for 3D

Automatic CBCT segmentation

- Annotation for real-time assessments
- Individual Teeth
- Implants
- Bridge
- IA canal
- Maxillary sinus
- Nasal Space
- Individual tooth annotation
- Mandible
- Mental foramen
- Skull




Maya O'Connor
Jul 27, 2026
X-rays (5)
Photos (0)
CBCT (1)
Request Report
PHI
Second Opinion
Practice
Insights
Treatments
Insurance
Voice
Help Center
SE
3D
Axial
Sagittal
Coronal
Grid
Vpano
HD MPR
FEEDBACK
AI Viewer
Pathologies (2)
Periapical Radiolucency
Sinus Radiopacity
Anatomical Segmentations
Restorations
Maxillary Complex
Maxilla
Nasal Space
Sinus
Mandible
IAN Canal
Teeth
Airway
Some features are not available in all countries or regions and may require regulatory clearance or approval before clinical use. Refer to the User Manual for indications for use, contraindications, warnings, precautions, and product limitations.


Maya O'Connor
Jul 27, 2026
X-rays (5)
Photos (0)
CBCT (1)
Request Report
Second Opinion
Practice
Insights
Treatments
Insurance
Voice
Help Center
3D
Axial
Sagittal
Coronal
Grid
Vpano
HD MPR
AI Viewer
Pathologies (2)
Periapical Radiolucency
Sinus Radiopacity
Anatomical Segmentations
Restorations
Maxillary Complex
Maxilla
Nasal Space
Sinus
Mandible

Second Opinion 3D

Second Opinion 3D



Second Opinion 3D



Image Check

Alerts your team about image concerns at acquisition



Introducing Imagecheck™

Real-time x-ray quality assurance

Poor quality x-rays can be a subtle drain on time, revenue and patient trust.

In a recent study, a 35-location DSO found that over a 3 month period **12.4% of x-rays captured did not meet diagnostic standards** due to issues like underexposure, overexposure, cone cuts, overlap and missing root tips.

That's why Pearl created Image check™, the industry's first real-time, AI-powered dental radiograph quality assurance tool — now available for **Pearl's Second Opinion.**



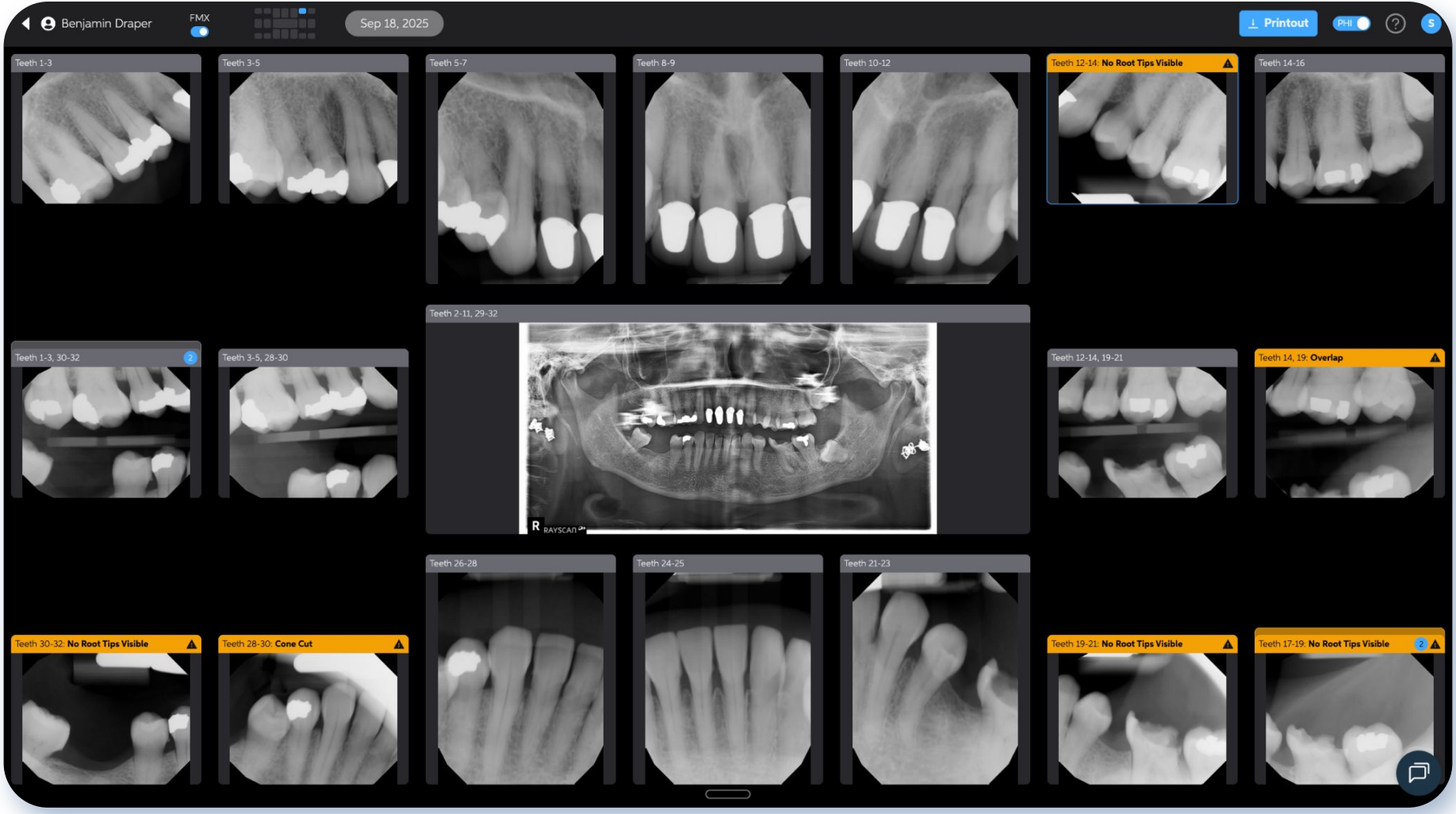

Benjamin Draper
FMX
Sep 18, 2025
Printout
PHI
Teeth 1-3
Teeth 3-5
Teeth 5-7
Teeth 8-9
Teeth 10-12
Teeth 12-14: No Root Tips Visible
Teeth 14-16
Teeth 2-11, 29-32
Teeth 1-3, 30-32
Teeth 3-5, 28-30
Teeth 12-14, 19-21
Teeth 14, 19: Overlap
Teeth 26-28
Teeth 24-25
Teeth 21-23
Teeth 30-32: No Root Tips Visible
Teeth 28-30: Cone Cut
Teeth 19-21: No Root Tips Visible
Teeth 17-19: No Root Tips Visible

Image Check | Better Patient Outcomes & Clean Claims

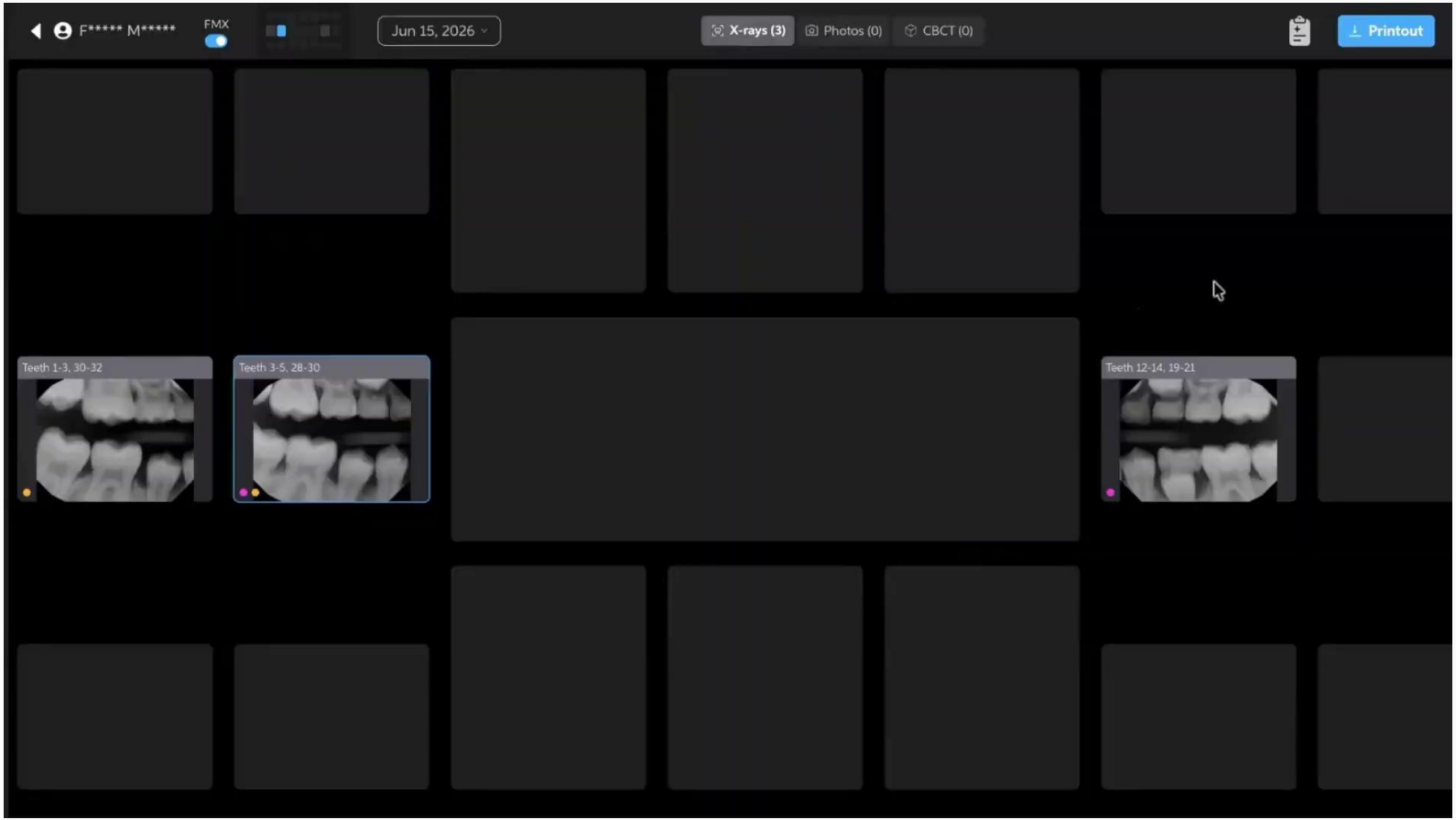
Teeth 12-14: **No Root Tips Visible**



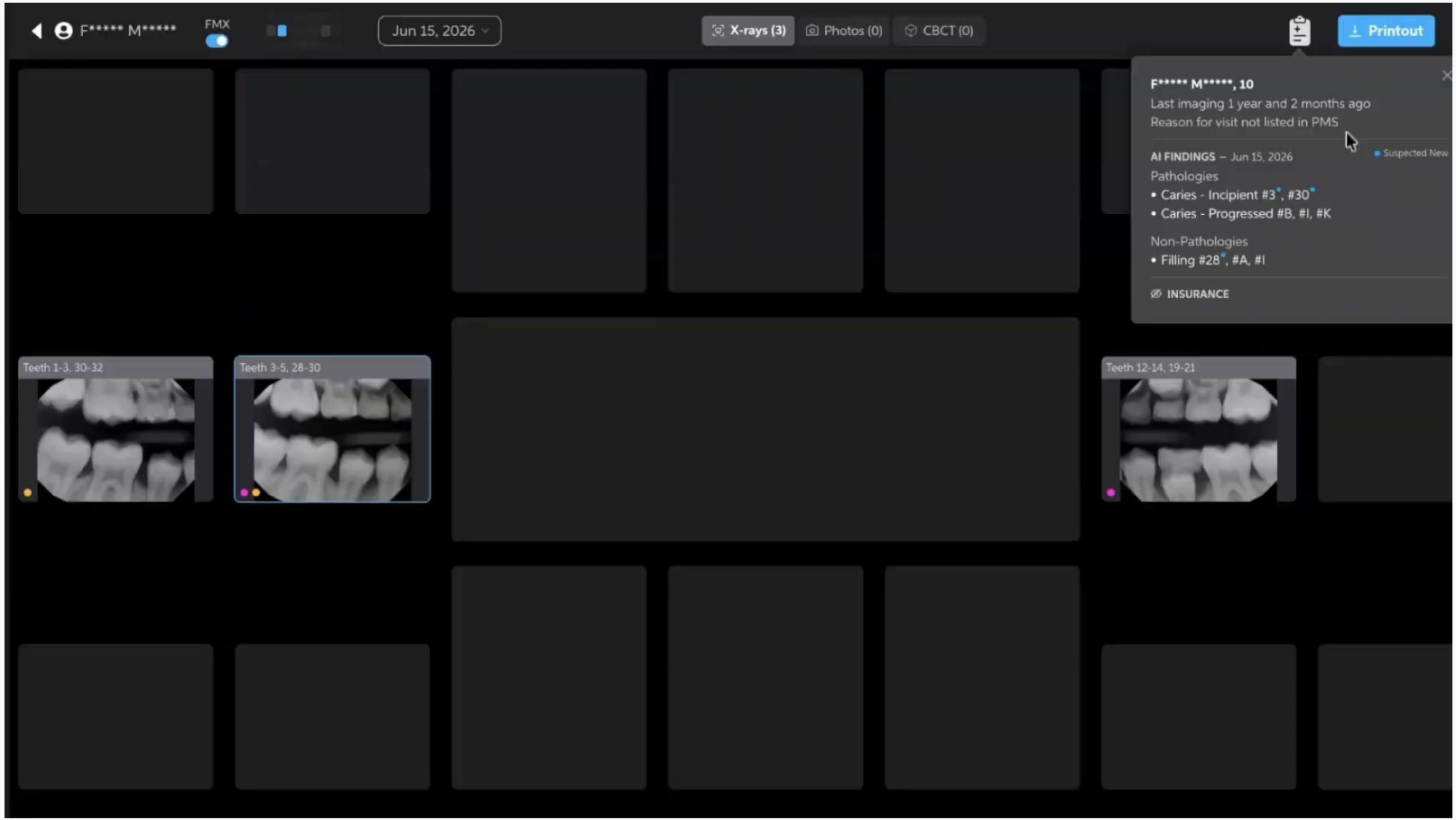
Teeth 14, 19: **Overlap**



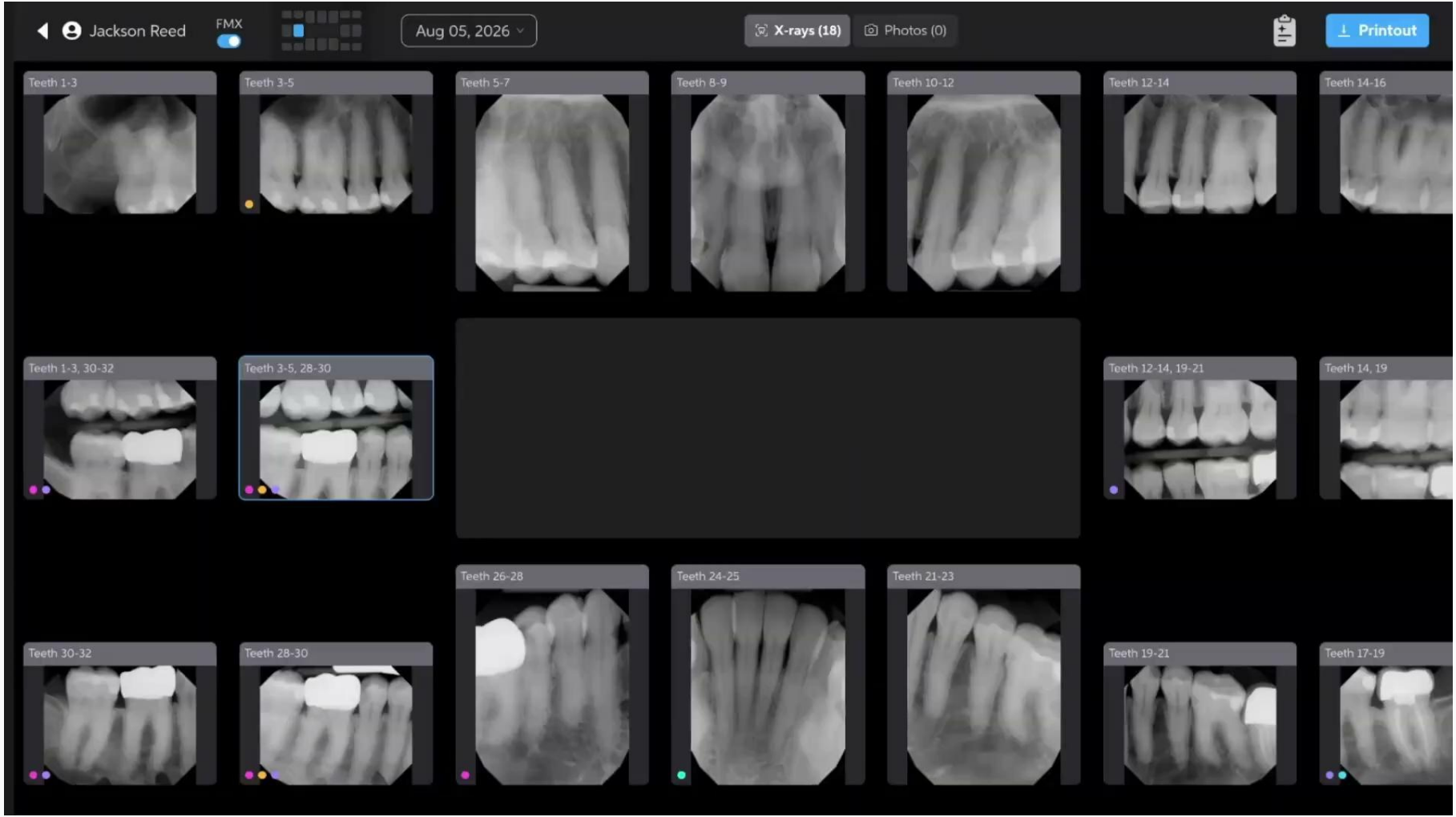
Second Opinion Pearl Assist



Silent Video for Presenting Second Opinion Pearl Assist

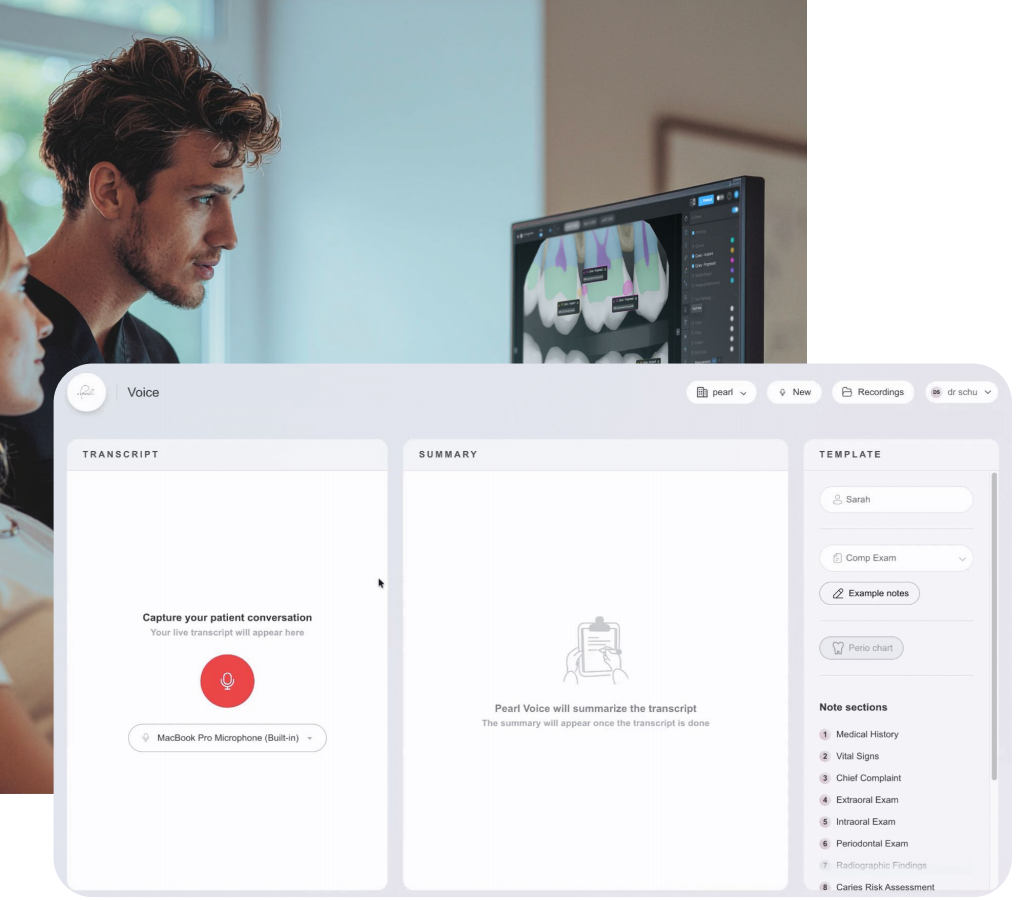





Jackson Reed
FMX
Aug 05, 2026
X-rays (18)
Photos (0)
Printout
Teeth 1-3
Teeth 3-5
Teeth 5-7
Teeth 8-9
Teeth 10-12
Teeth 12-14
Teeth 14-16
Teeth 1-3, 30-32
Teeth 3-5, 28-30
Teeth 12-14, 19-21
Teeth 14, 19
Teeth 26-28
Teeth 24-25
Teeth 21-23
Teeth 30-32
Teeth 28-30
Teeth 19-21
Teeth 17-19

Pearl Voice
AI Documentation & Perio Charting





Pearl Voice™

Hands-Free Notes and Perio Charting

Turn natural conversations into structured, comprehensive clinical notes instantly.

- Increased production
- Cleaner, consistent documentation
- Faster reimbursement
- Reduced risk

Pearl Voice – Product Details

Real-Time Voice Capture

Records patient conversations chairside, while reviewing Second Opinion

30+ Templates

Generates notes tailored to exams, fillings, crowns, SRP, root canals, extractions, and more

Customized Notes

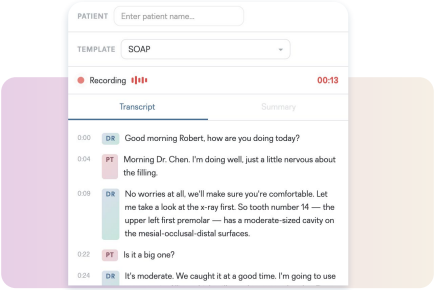
Provider-specific note fillers with repeat content auto-filled

PMS Integration

5 Key Practice Management systems supported, more added every month

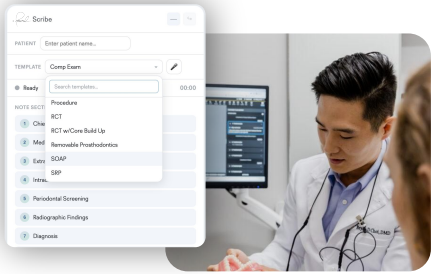
Accurate Transcription

Converts spoken dialogue into clean, readable text



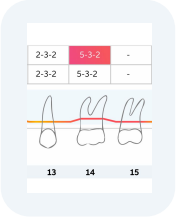
AI-Powered Templates

Organizes content into clinically relevant, usable documentation



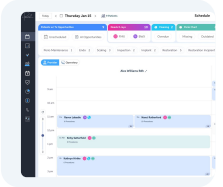
Perio-Charting

Captures detailed perio measurements hands-free with natural, easy-to-use commands

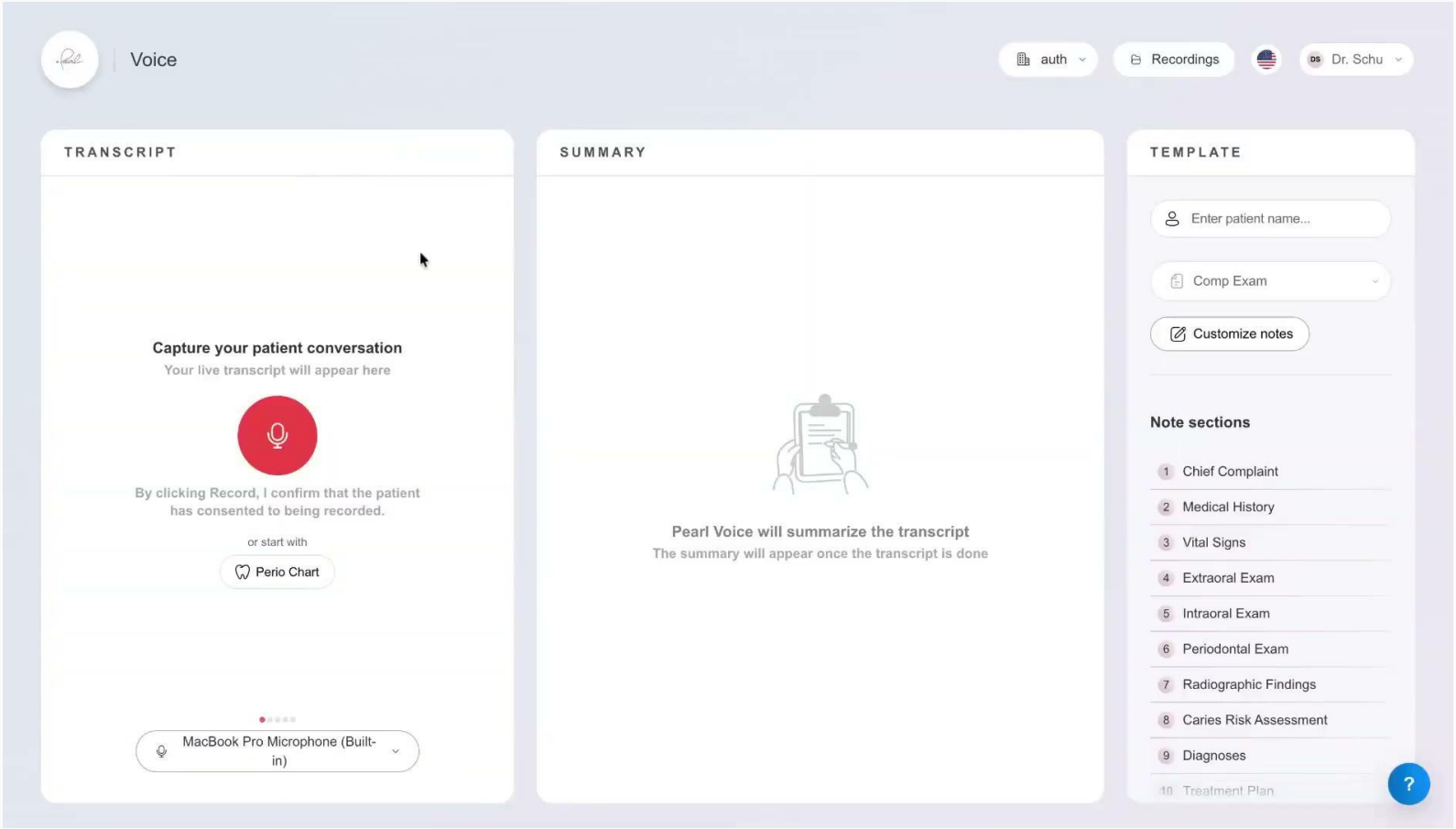


Direct PMS Write-Back

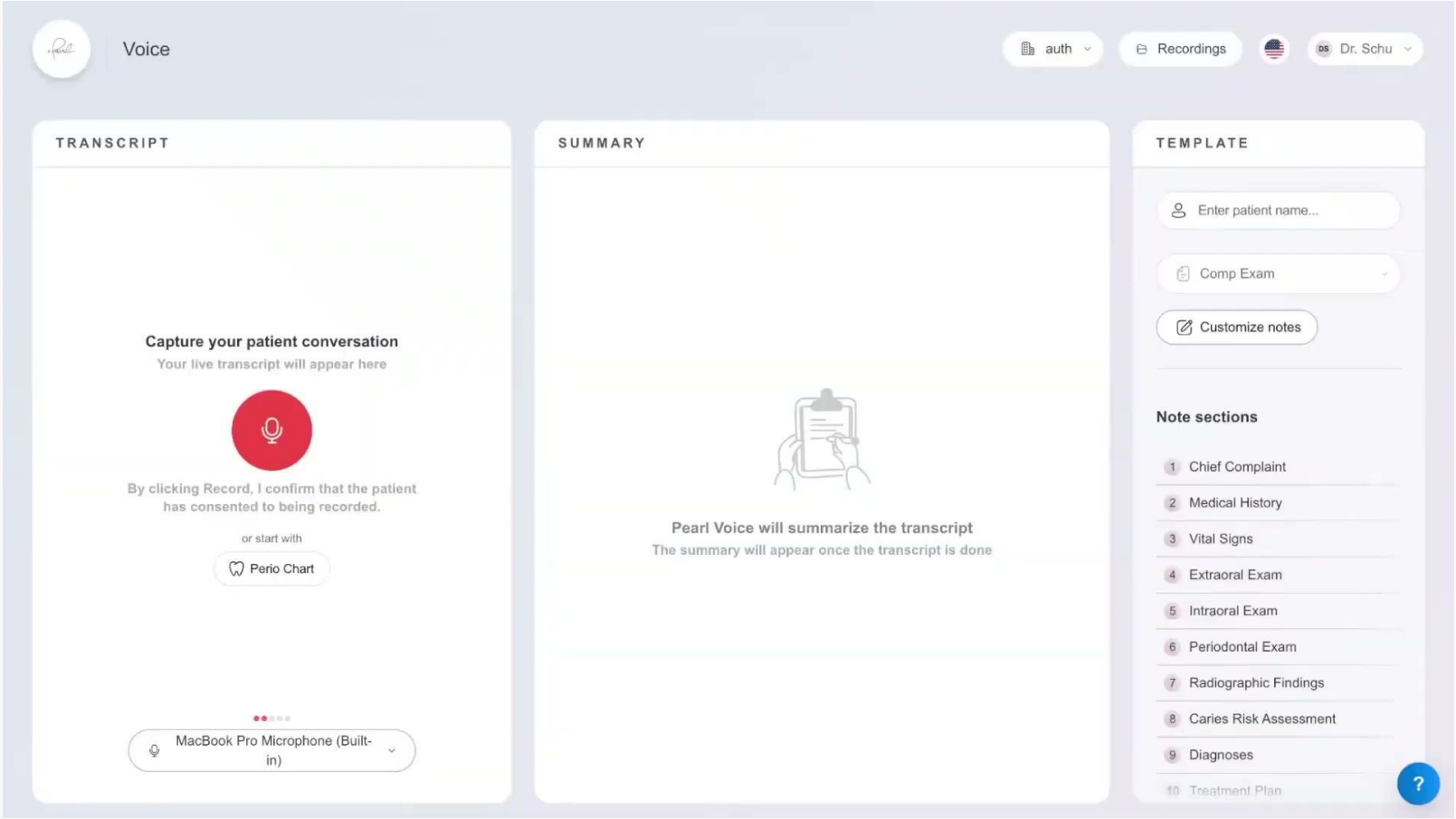
Notes populate supported practice management systems automatically



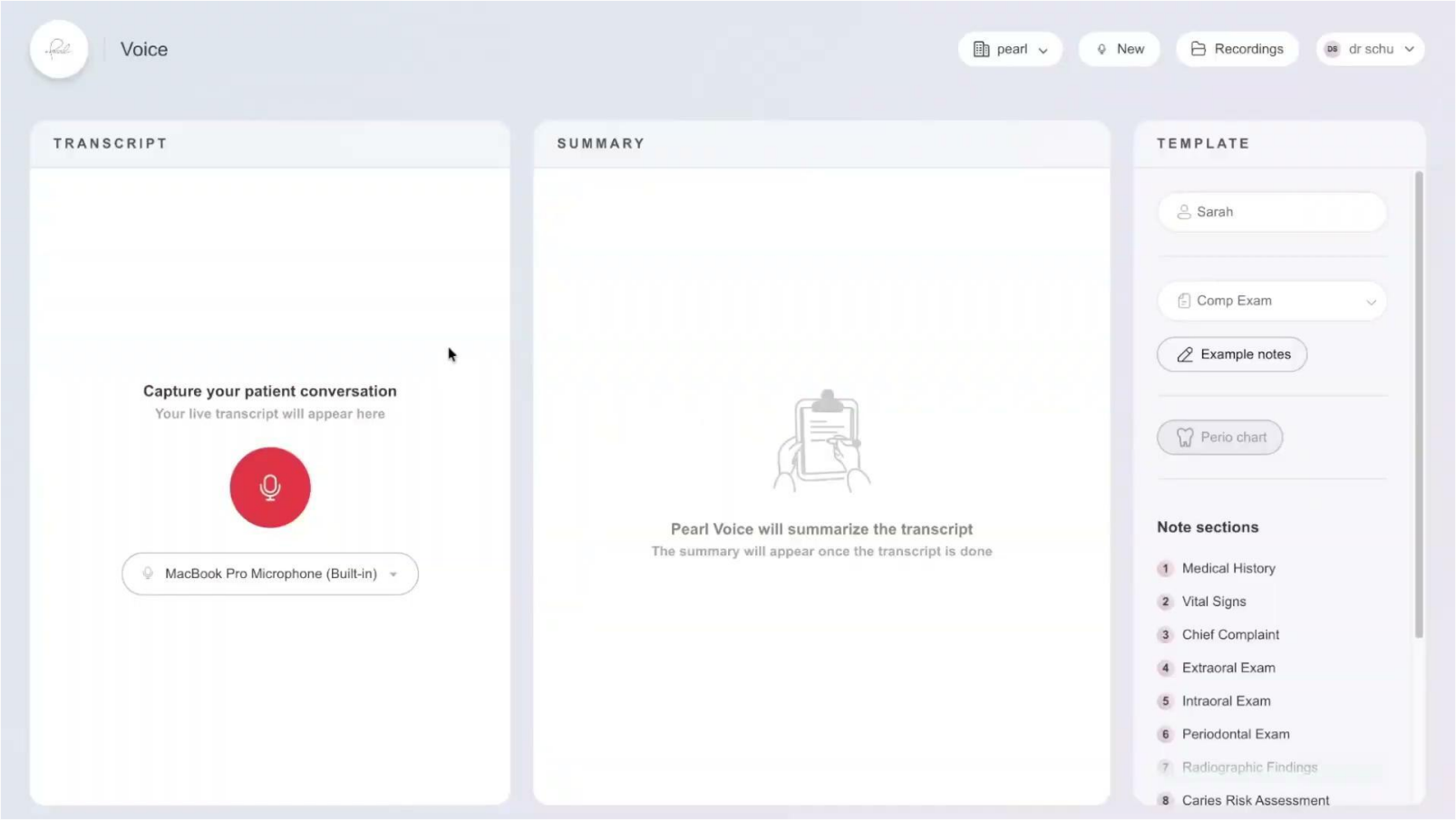
Video for Presenting Pearl Voice Perio Chart



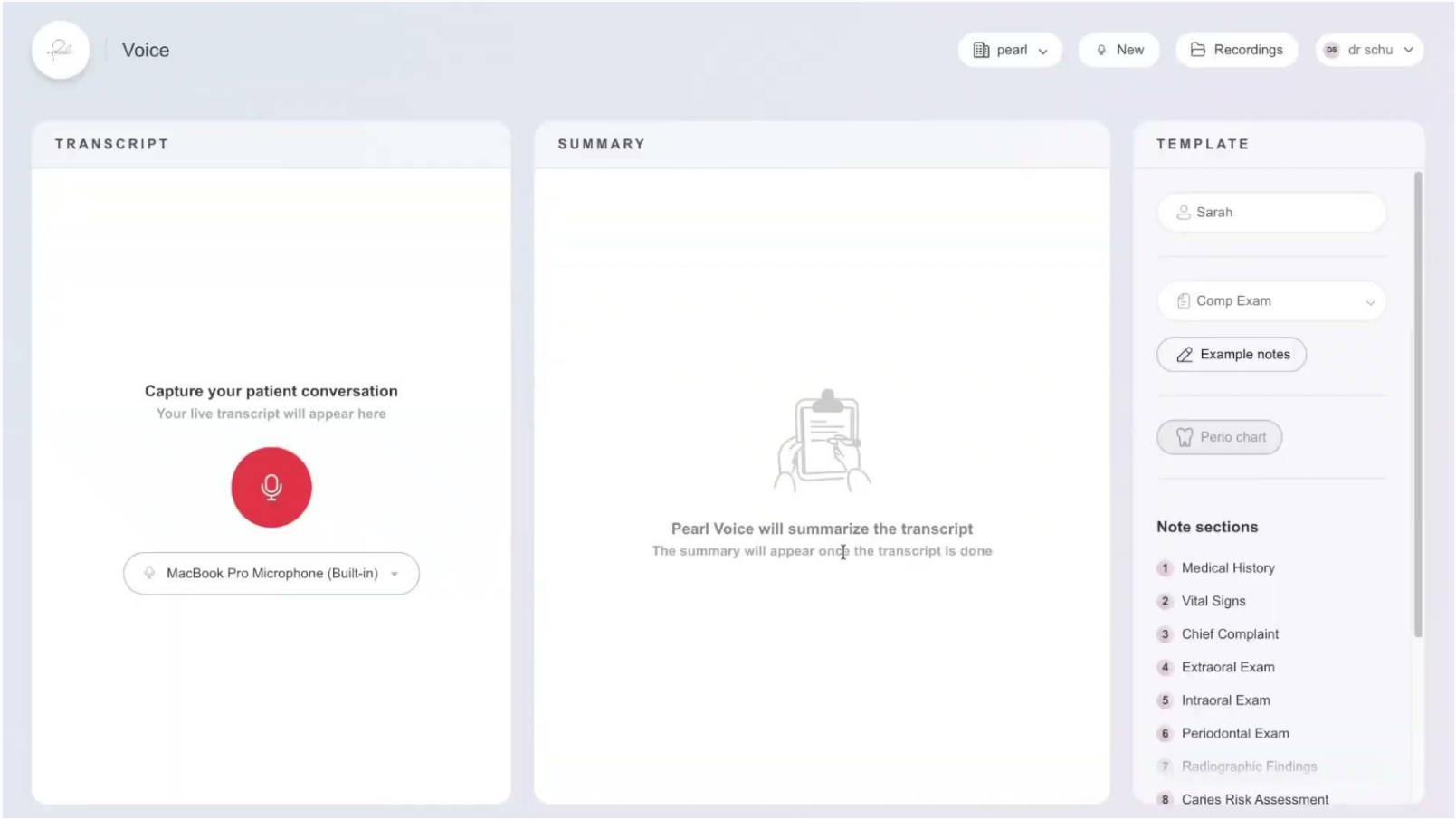
Silent Video for Presenting Pearl Voice Perio Chart



Video for Presenting Pearl Voice Notes



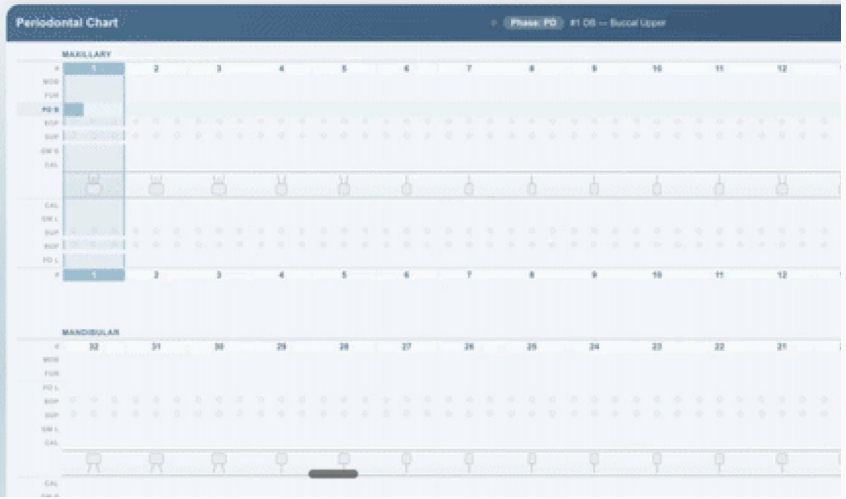
Silent Video for Presenting Pearl Voice Notes



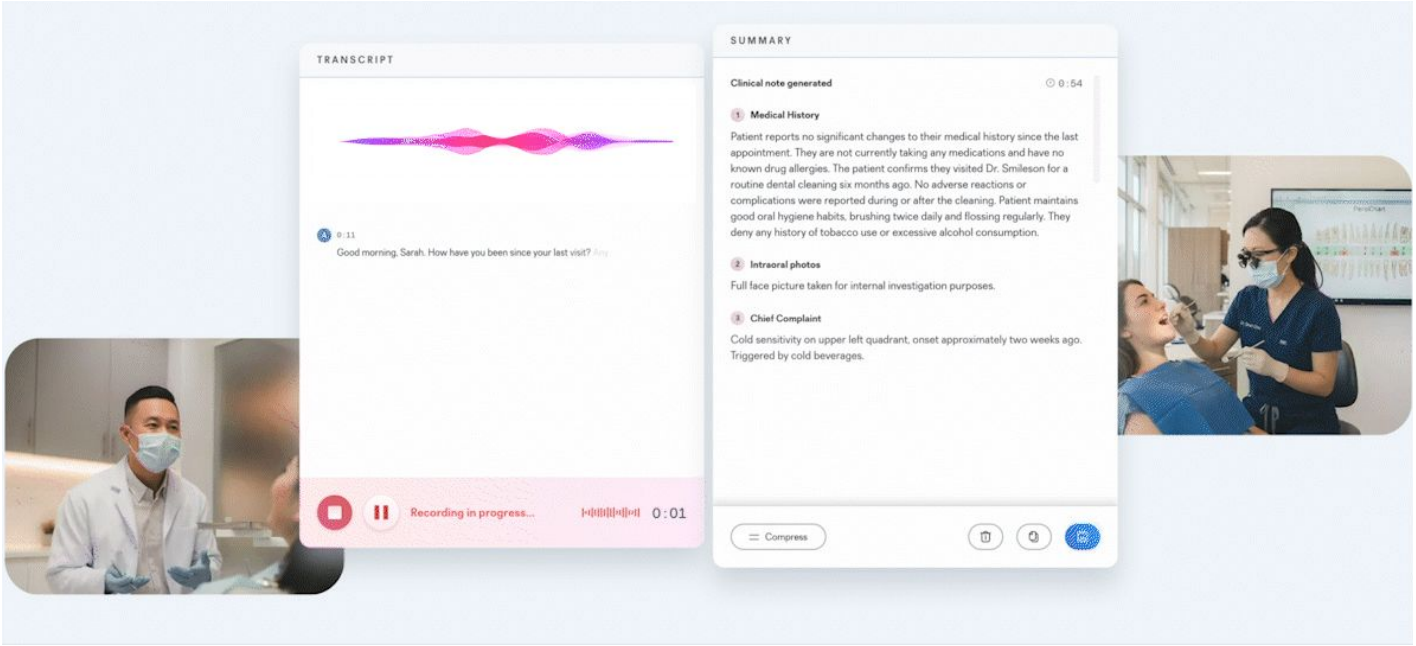
Voice

Pearl Voice turns conversations into **chart-ready** clinical notes.

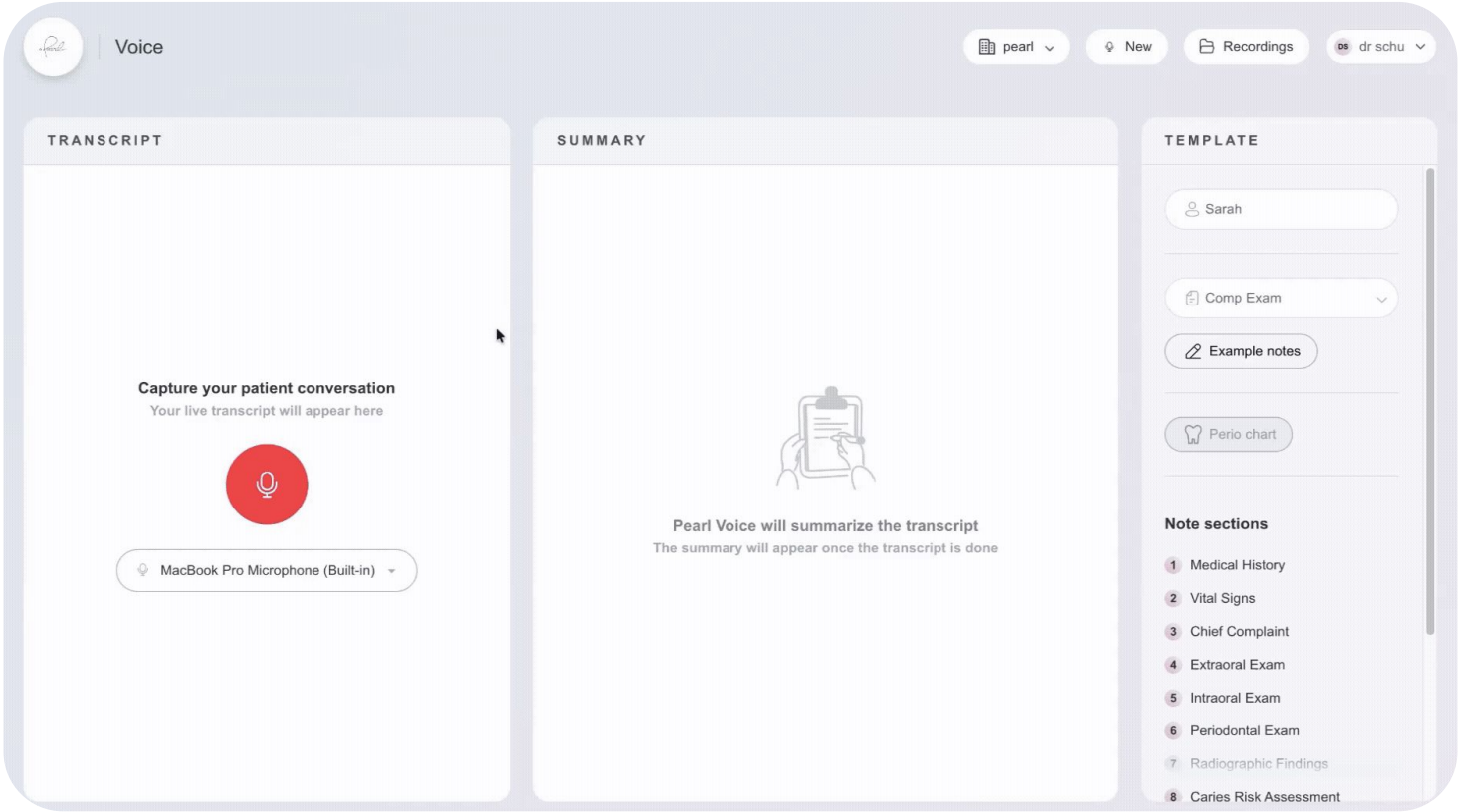




Voice


TRANSCRIPT
0:11
Good morning, Sarah. How have you been since your last visit?
Recording in progress...
0:01
SUMMARY
Clinical note generated
0:54
1 Medical History
Patient reports no significant changes to their medical history since the last appointment. They are not currently taking any medications and have no known drug allergies. The patient confirms they visited Dr. Smileson for a routine dental cleaning six months ago. No adverse reactions or complications were reported during or after the cleaning. Patient maintains good oral hygiene habits, brushing twice daily and flossing regularly. They deny any history of tobacco use or excessive alcohol consumption.
2 Intraoral photos
Full face picture taken for internal investigation purposes.
3 Chief Complaint
Cold sensitivity on upper left quadrant, onset approximately two weeks ago. Triggered by cold beverages.
Compress

Voice


Voice
pearl
New
Recordings
dr schu
TRANSCRIPT
Capture your patient conversation
Your live transcript will appear here
MacBook Pro Microphone (Built-in)
SUMMARY
Pearl Voice will summarize the transcript
The summary will appear once the transcript is done
TEMPLATE
Sarah
Comp Exam
Example notes
Perio chart
Note sections
1 Medical History
2 Vital Signs
3 Chief Complaint
4 Extraoral Exam
5 Intraoral Exam
6 Periodontal Exam
7 Radiographic Findings
8 Caries Risk Assessment

Voice

Voice

Patient Printouts



Brentwood

Oral Health Report

Ryan Adamson

Aug 12, 2026

Oral Health Report

Ryan Adamson

Patient Visit: Aug 12, 2026

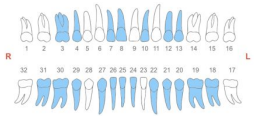
Your Oral Health Assessment:

Good

Thank you for trusting us with your dental care

Your oral health is important to us, and we're committed to providing clear, personalized care. Below is a summary of your exam, including our findings and recommended next steps.

Here is what we found



Cavity — 10
Advanced decay that has reached the inner layer or pulp of the tooth.
Tooth #12, #13, #18, #31

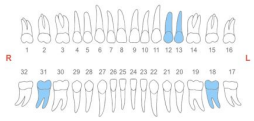
Early Cavity — 10
Early-stage decay limited to outer layer, which may be reversible.
Tooth #7, #8, #20, #27

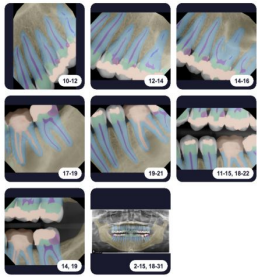
Tartar Buildup — 14
Hardened plaque that can't be removed by brushing, which can irritate your gums.
Tooth #3, #4, #10, #13, #19, #20, #21, #22, #24, #25, #26, #27, #29, #30, #31

Restoration Concern — 2
A discrepancy between a restoration and the surface of a tooth.
Tooth #18

Root Tip Finding — 1
Dark area near the root tip suggesting possible infection or inflammation
Tooth #19

Cavity





What is a Cavity?

A cavity, known clinically as progressed caries, is tooth decay that has moved past the enamel into the deeper layers of the tooth, such as the dentin or pulp. At this stage, the decay can cause pain and infection if not treated promptly.

Symptoms

- Tooth pain or throbbing, including spontaneous pain with no obvious trigger
- Sensitivity to hot, cold, or sweet foods
- Visible holes, dark spots, or discoloration on the tooth
- Pain when biting down

Possible Treatments

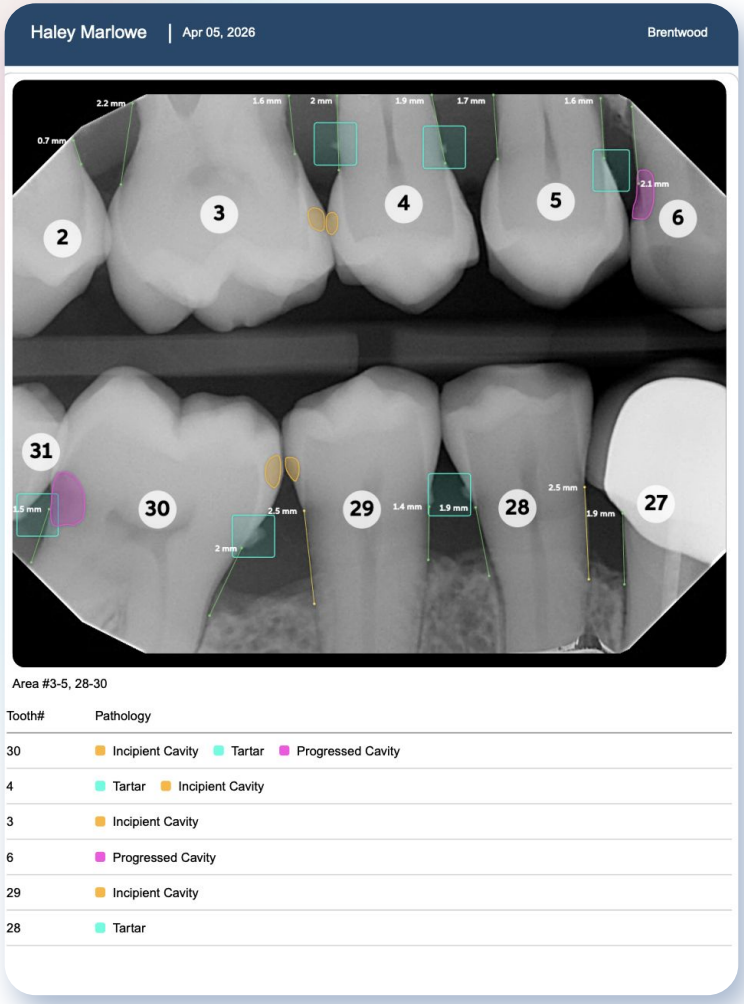
- Dental filling to restore the damaged area
- Dental crown if a large portion of the tooth is affected
- Root canal treatment if decay has reached the pulp
- Extraction in cases where the tooth cannot be saved

How to Prevent

Regular dental check-ups, fluoride treatments, daily brushing, and flossing help prevent decay from developing or advancing. Early treatment of an early cavity prevents it from becoming a full cavity.

AI Printouts for Patient Communication & Clean Claim Submissions



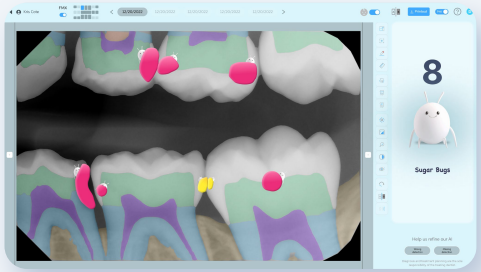


AI for Pediatric Images

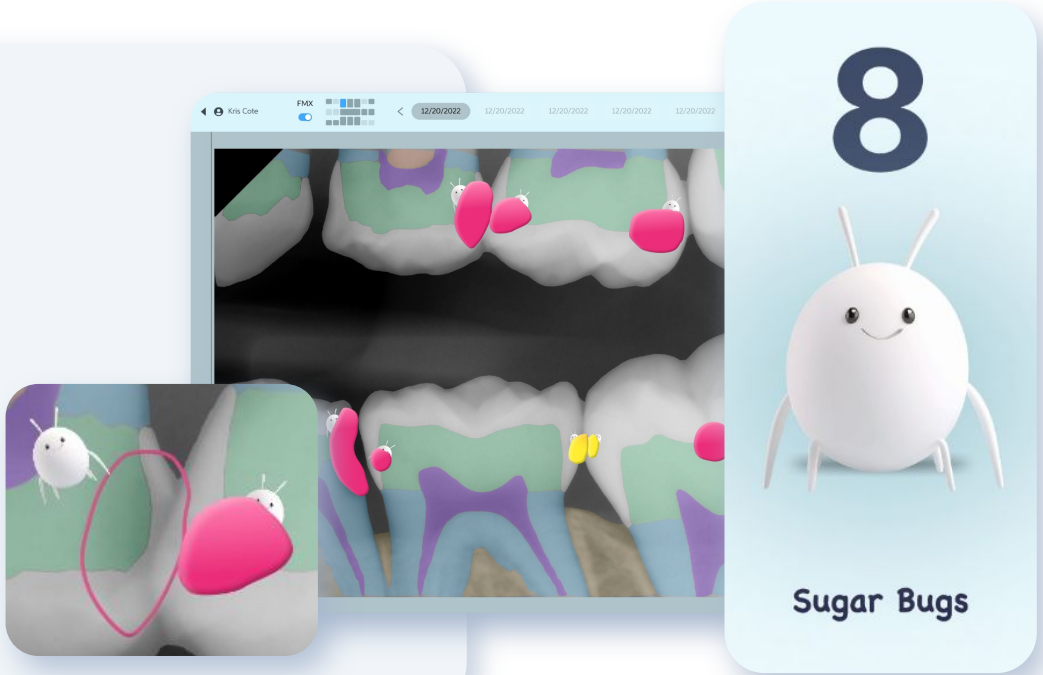


Child-Friendly Case Presentation

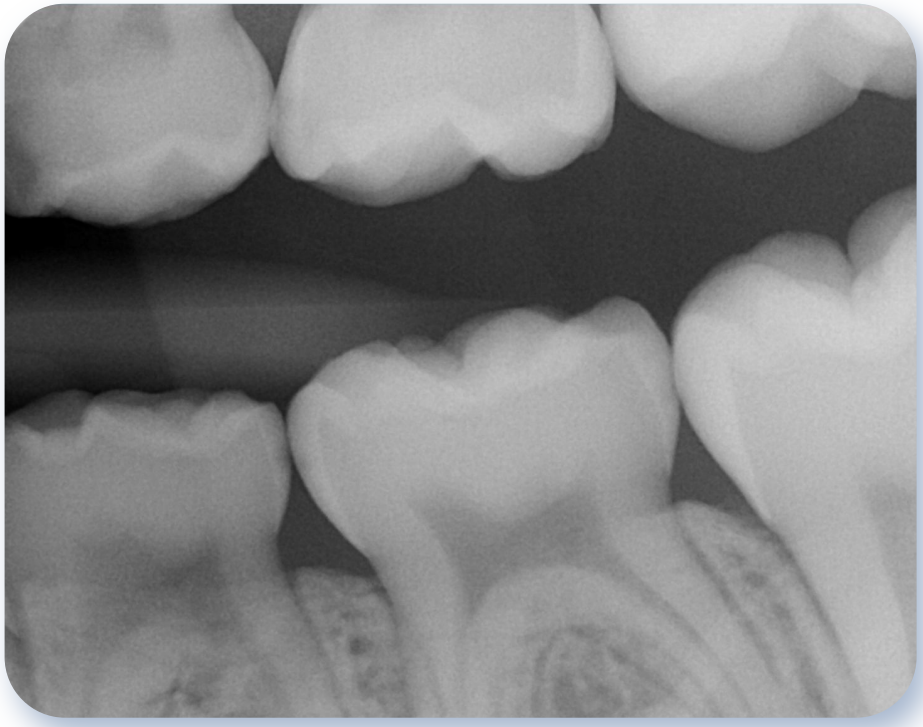
To enhance the pediatric AI experience, we've developed **Second Opinion for Kids**, a dedicated user interface for pediatric dentistry.



Deliver clinical findings with simplified, fun visualizations and language that transform cavities and tartar into hungry "sugar bugs."



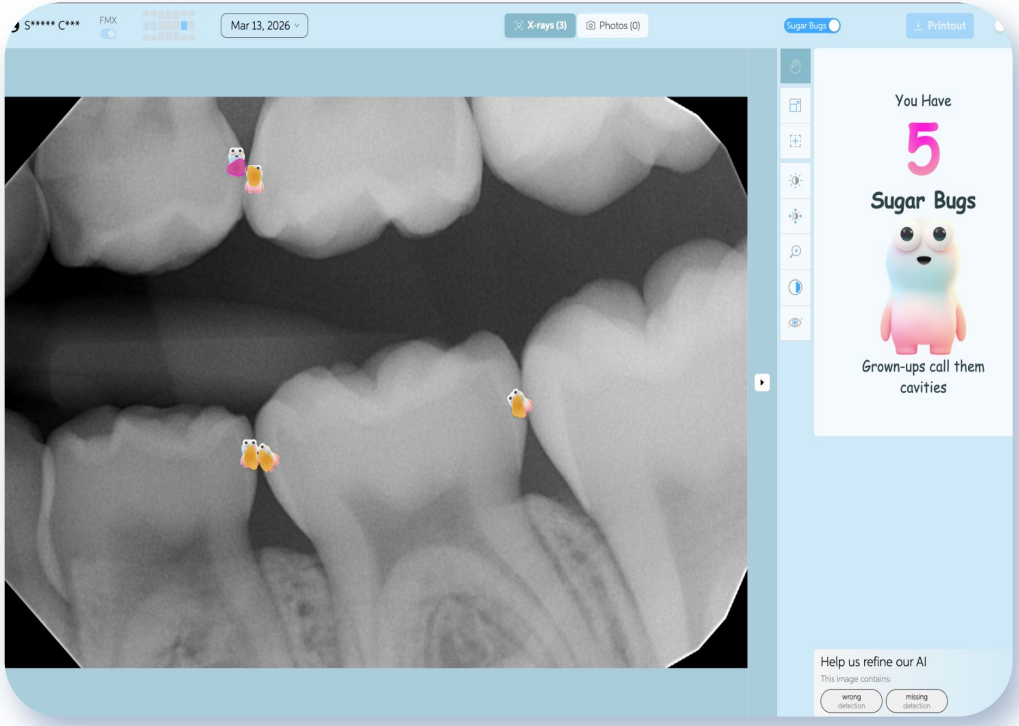
Pediatric Images: Sugar Bugs Before & After AI



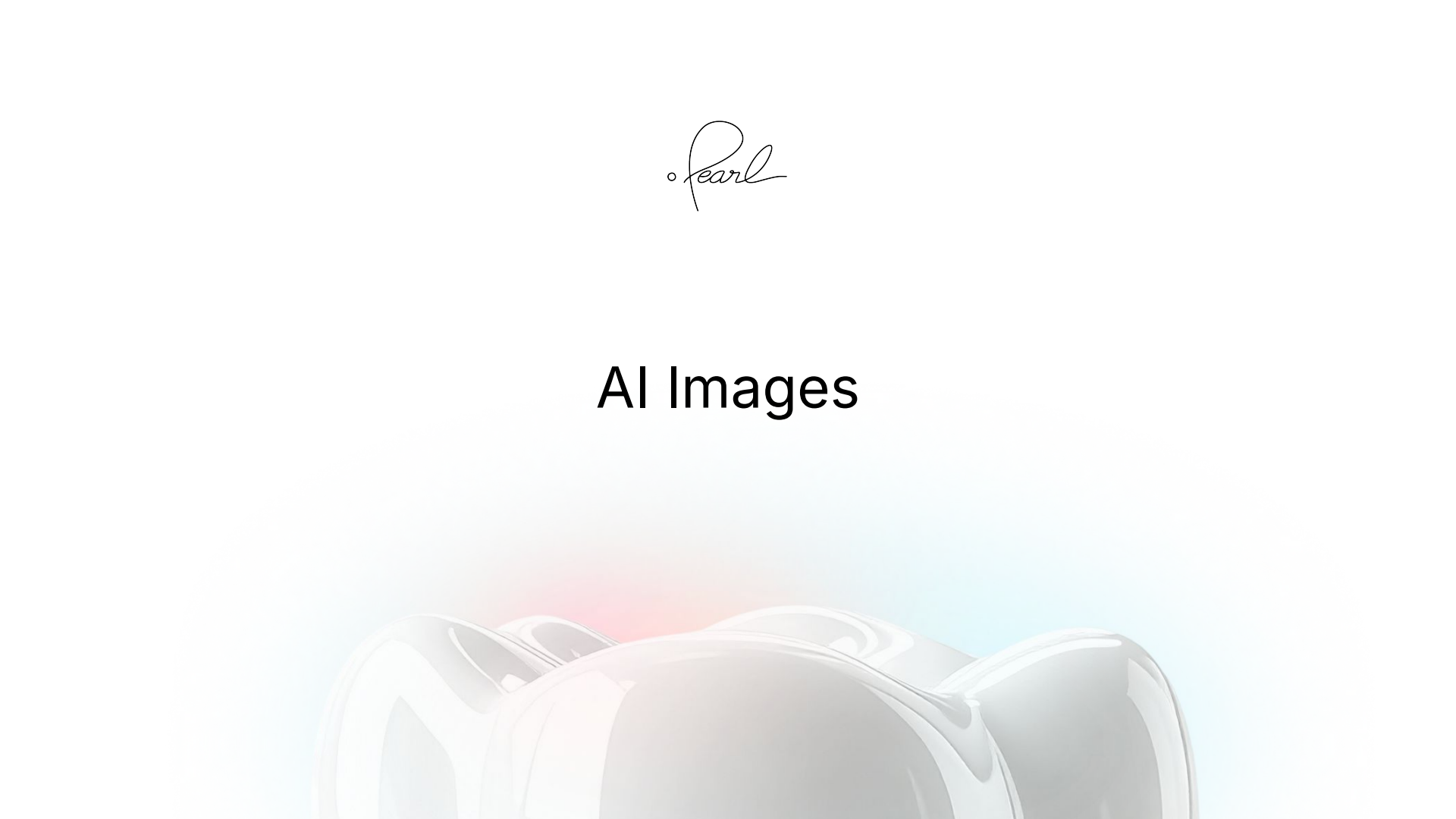


Case Presentation with Sugar Bugs!

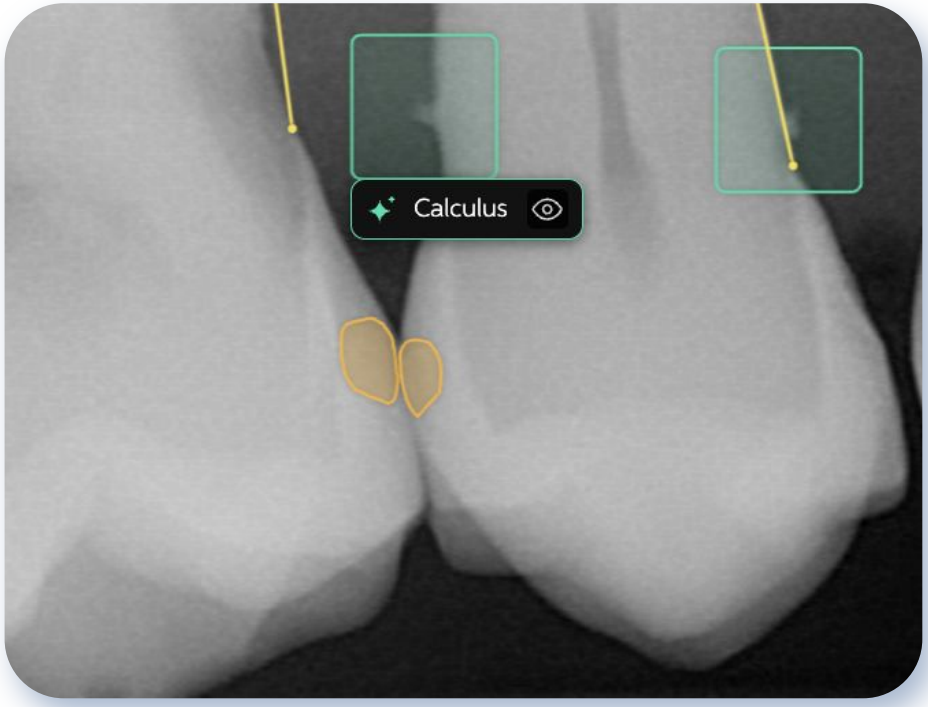


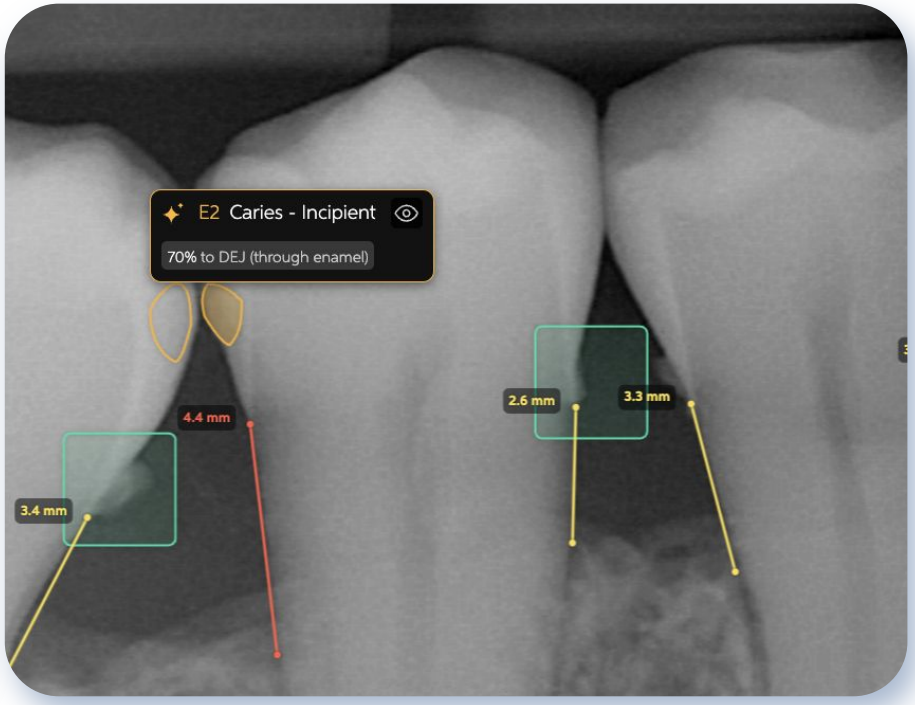


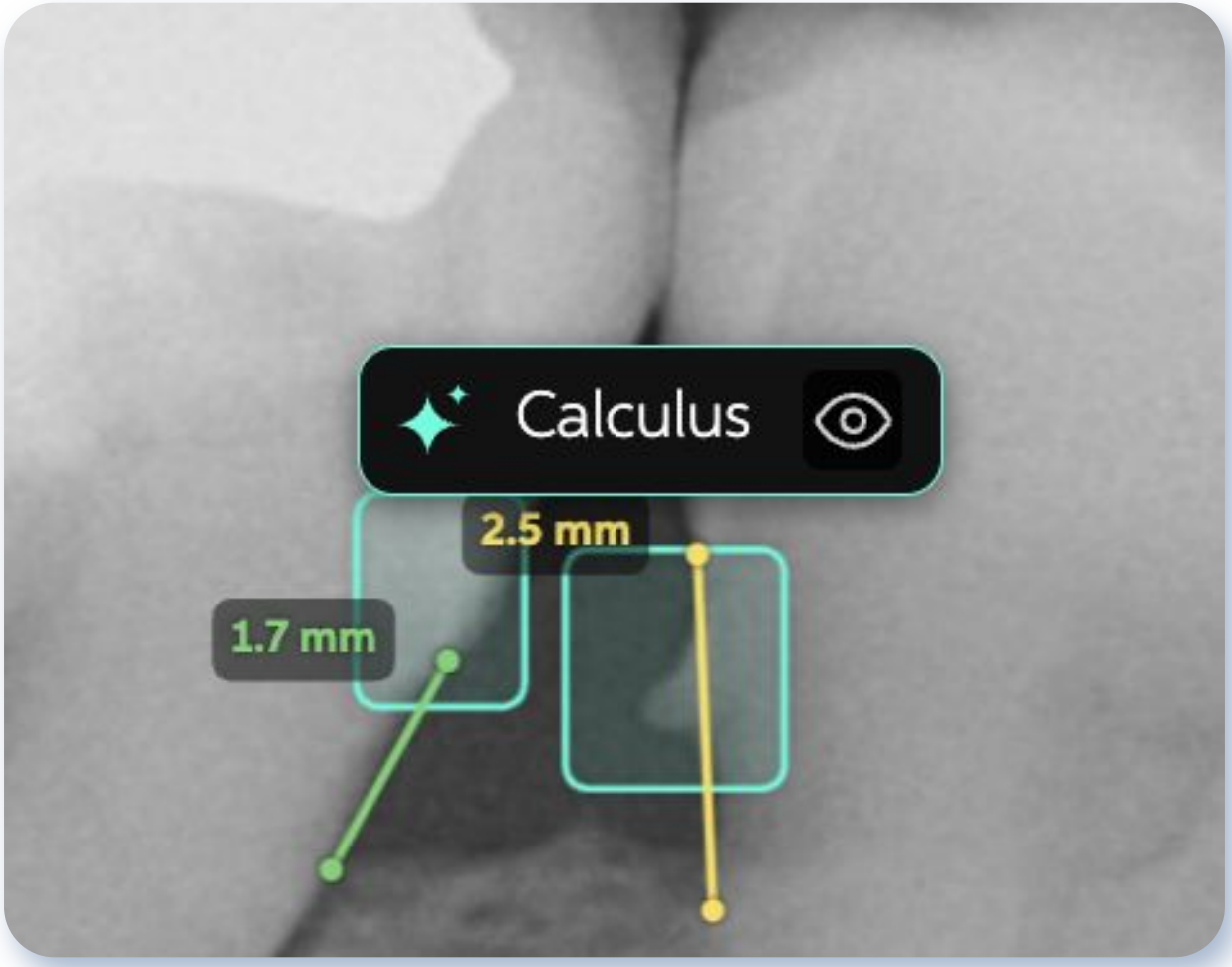
AI Images

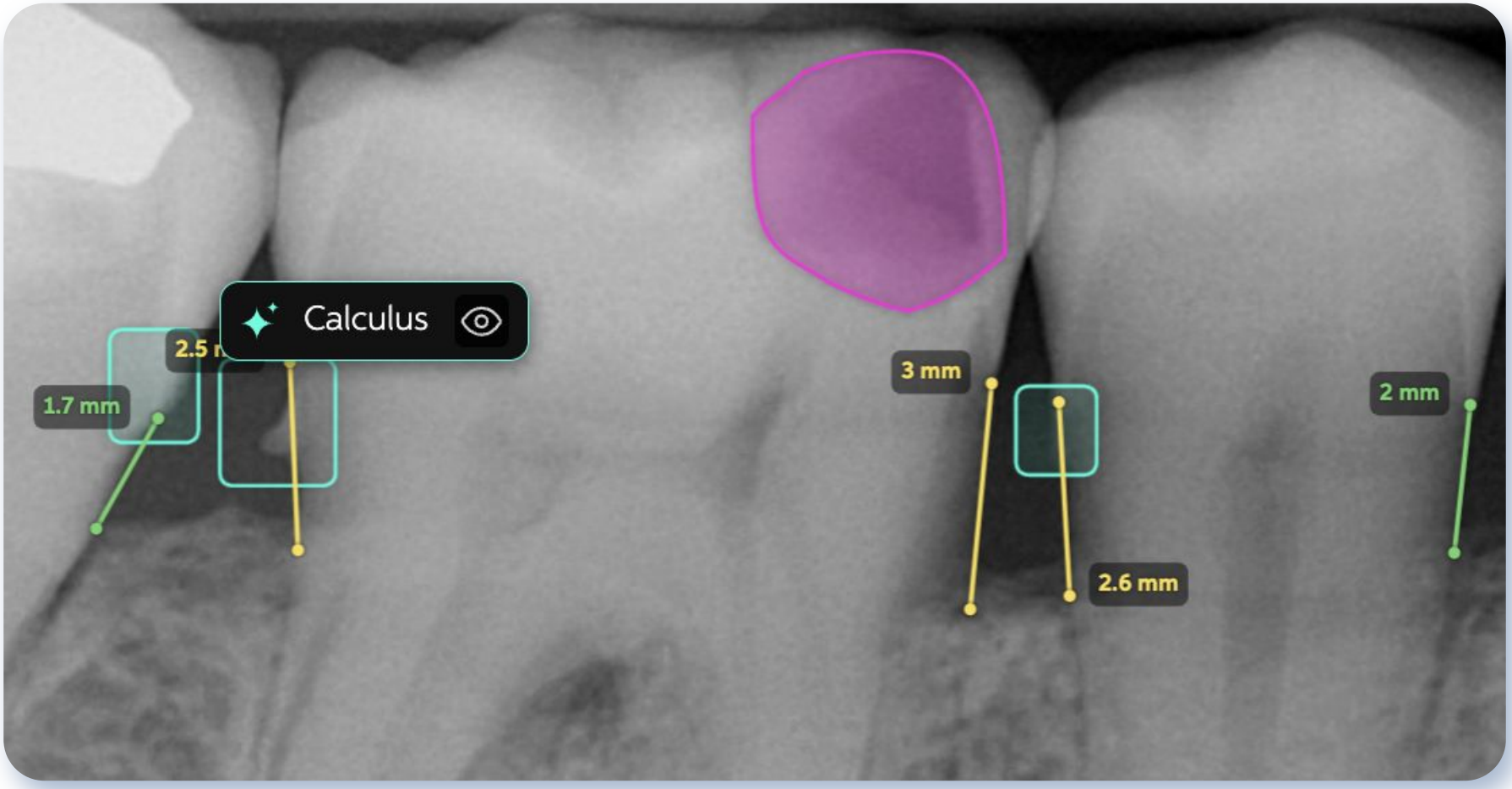


Calculus & Bone Levels






Calculus
2.5 mm
1.7 mm


Calculus
1.7 mm
3 mm
2 mm
2.6 mm

Do You See any areas of concern on this image?



2

Caries



Radiograph Review Before & After AI





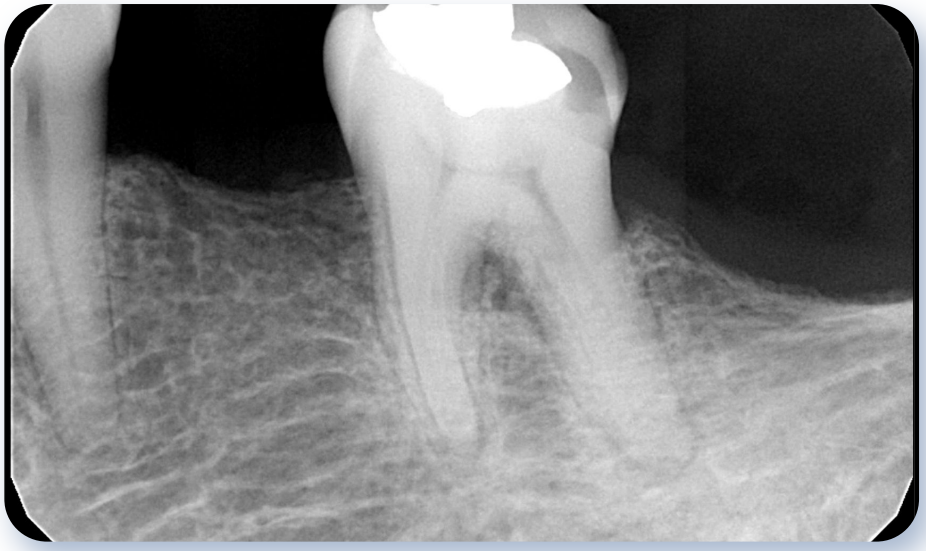
When You Disagree With the AI

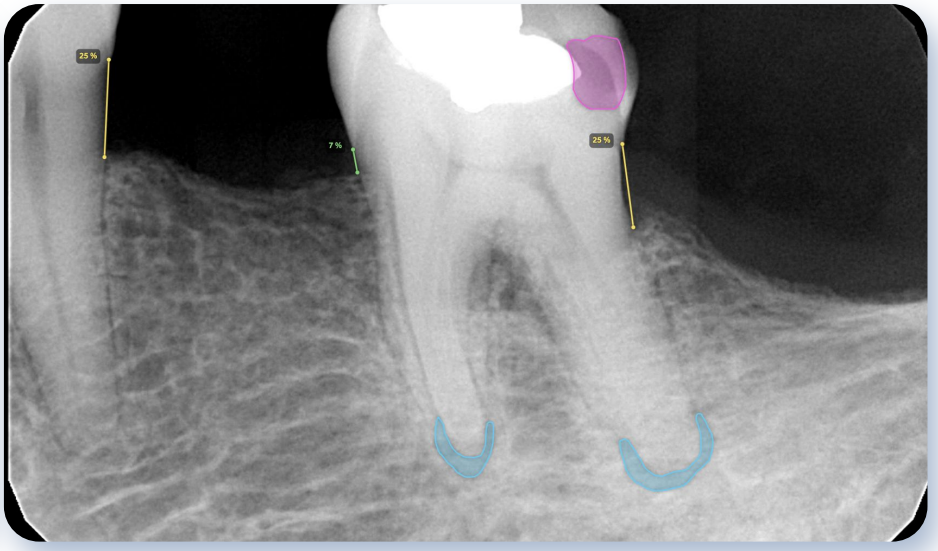
AI can highlight potential concerns, but not all findings are worth presenting to patients. When something is incorrect or irrelevant, you can simply dismiss it with our **edit tool**—keeping your diagnosis clear and confident.

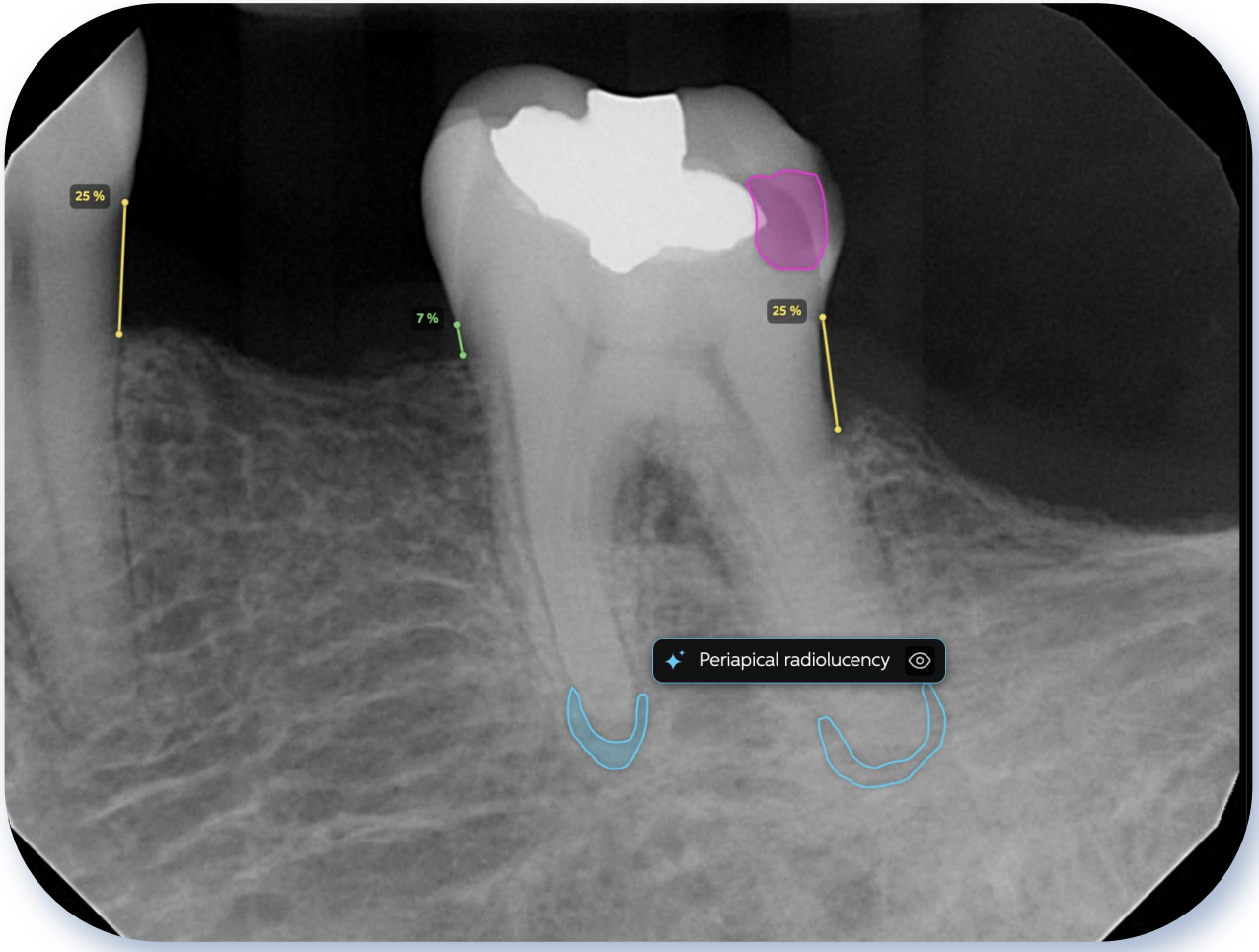


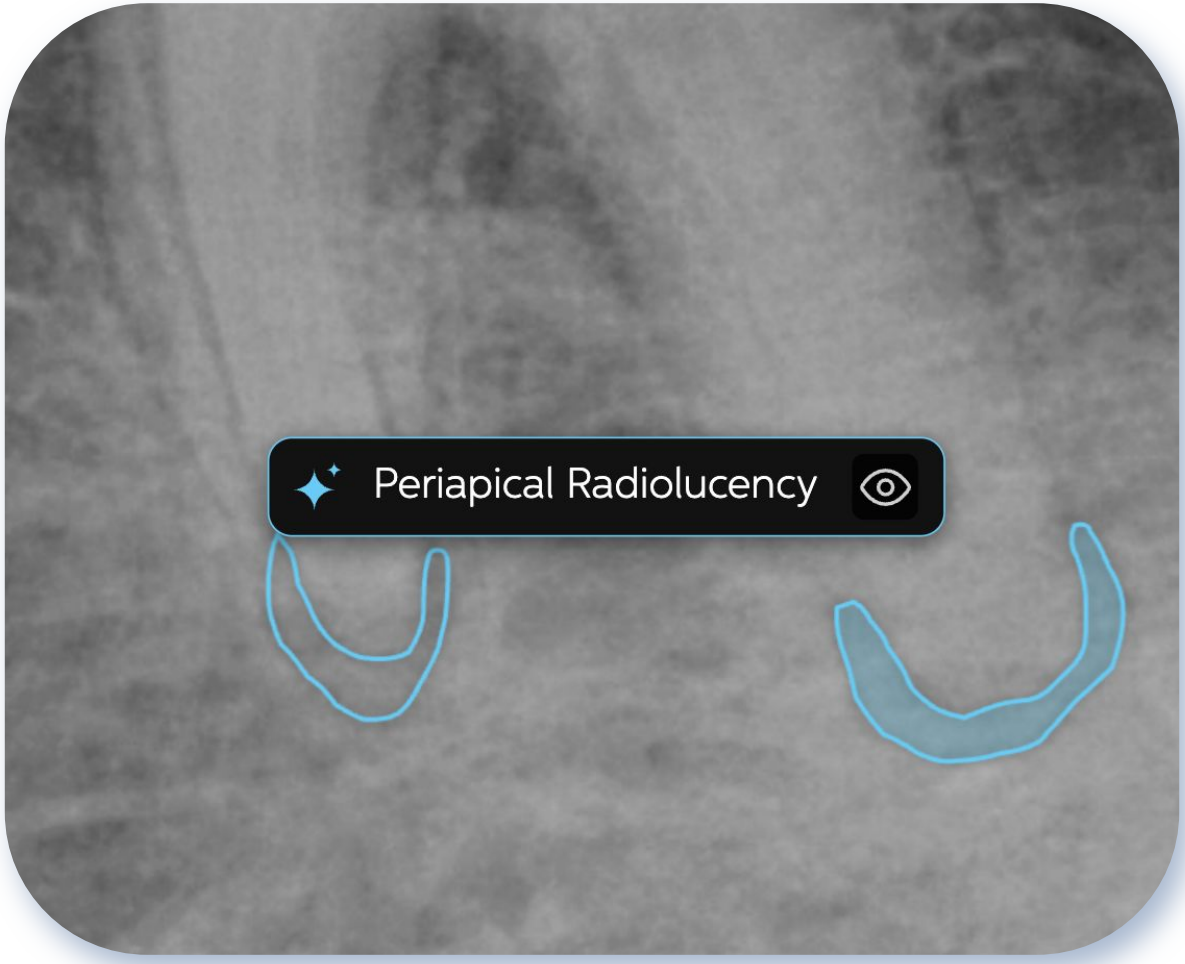
Periapical Radiolucencies



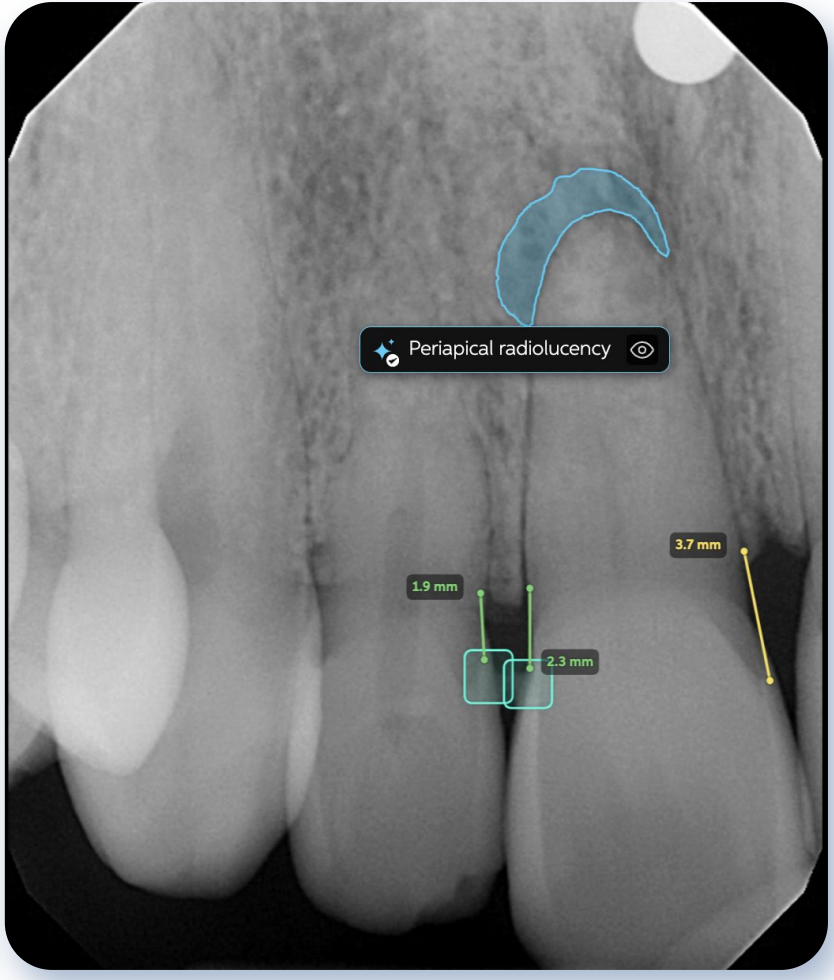


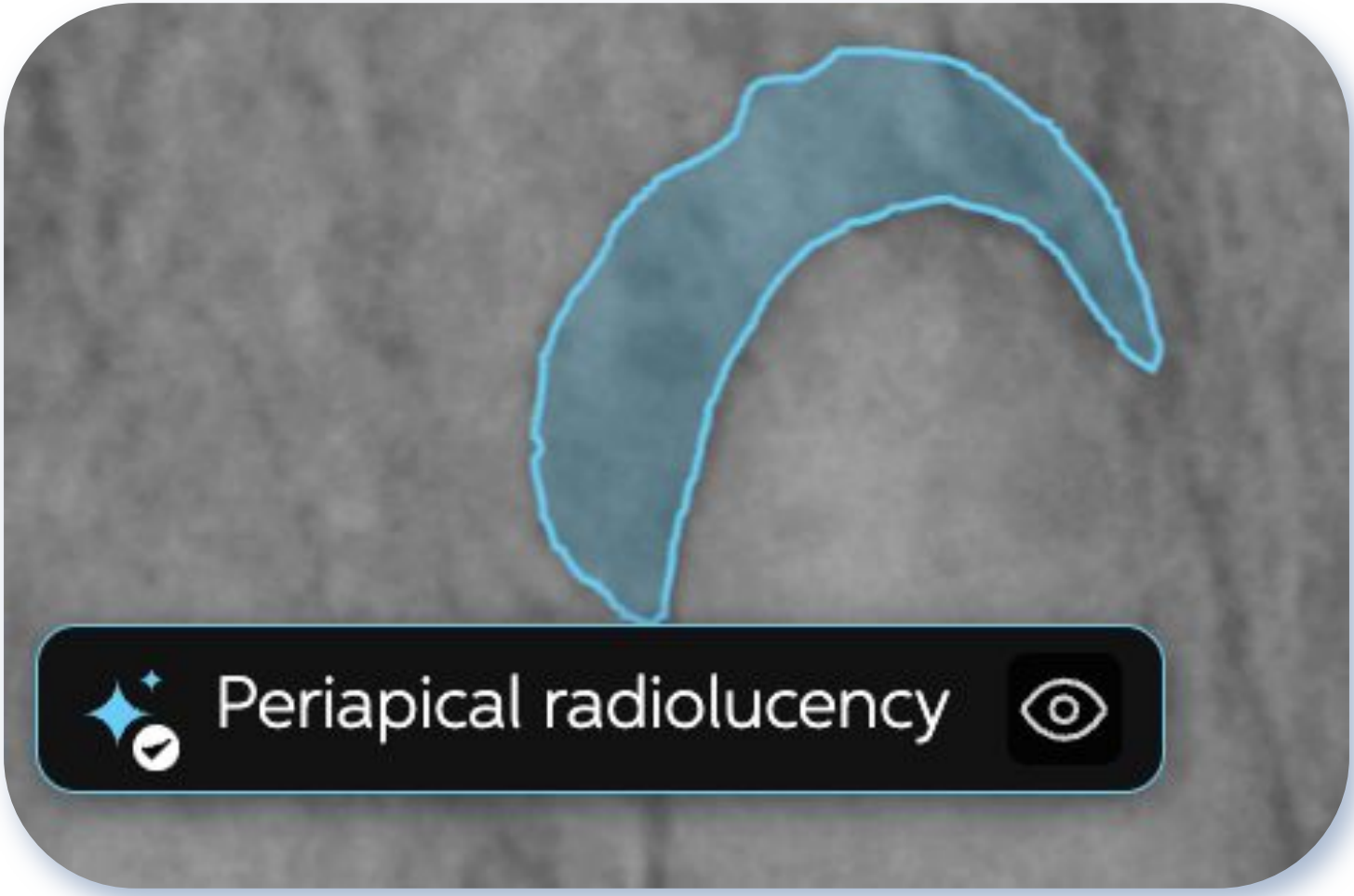

25 %
7 %
25 %


25 %
7 %
25 %
Periapical radiolucency


Periapical Radiolucency



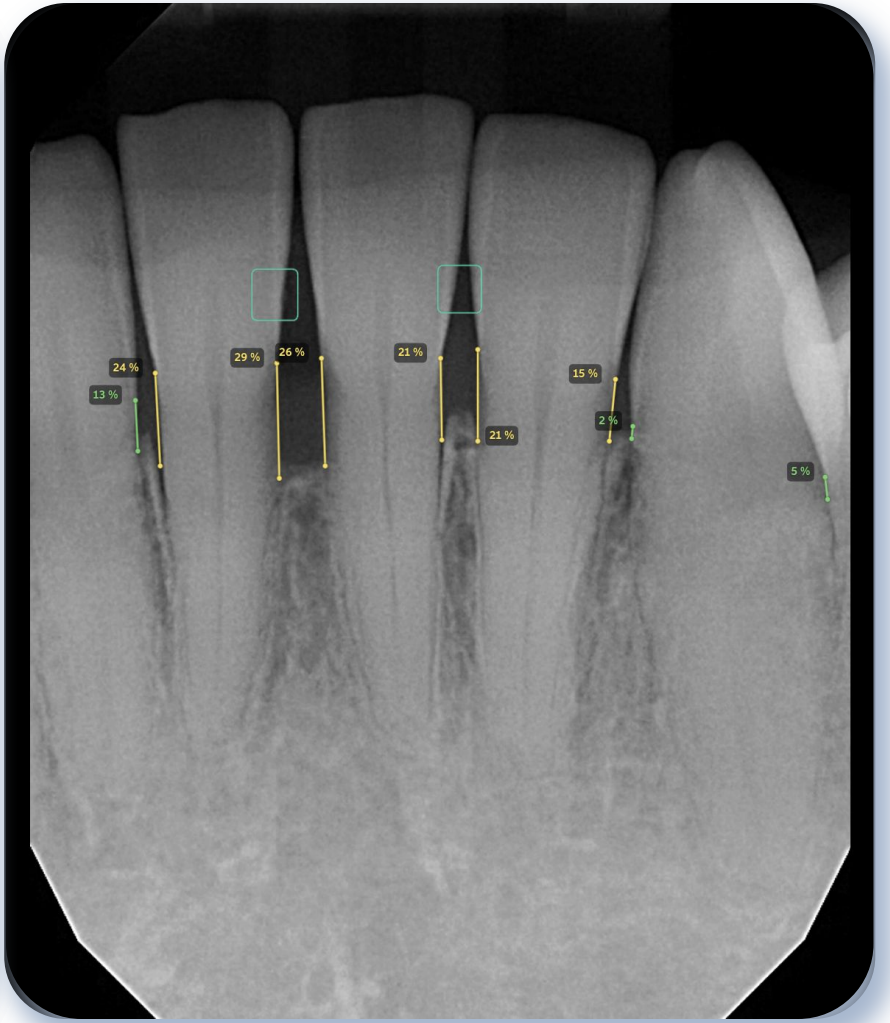

Periapical radiolucency
1.9 mm
2.3 mm
3.7 mm


Periapical radiolucency

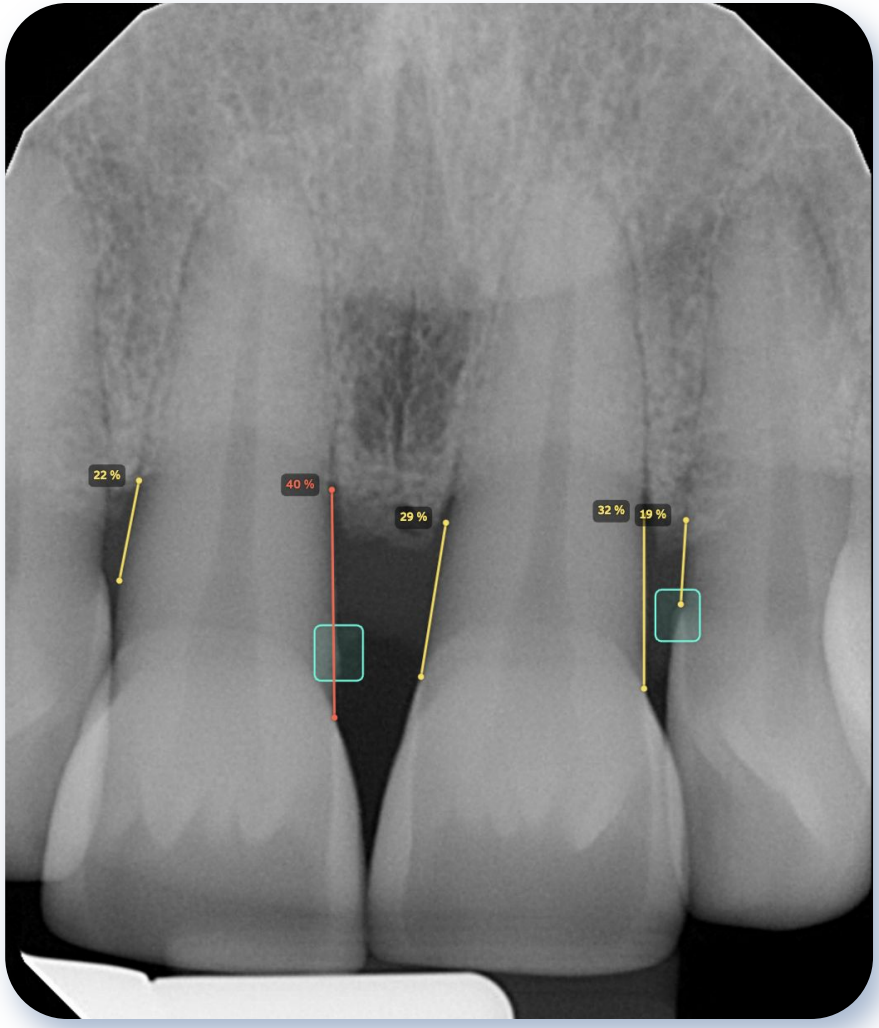
Periodontal Patients





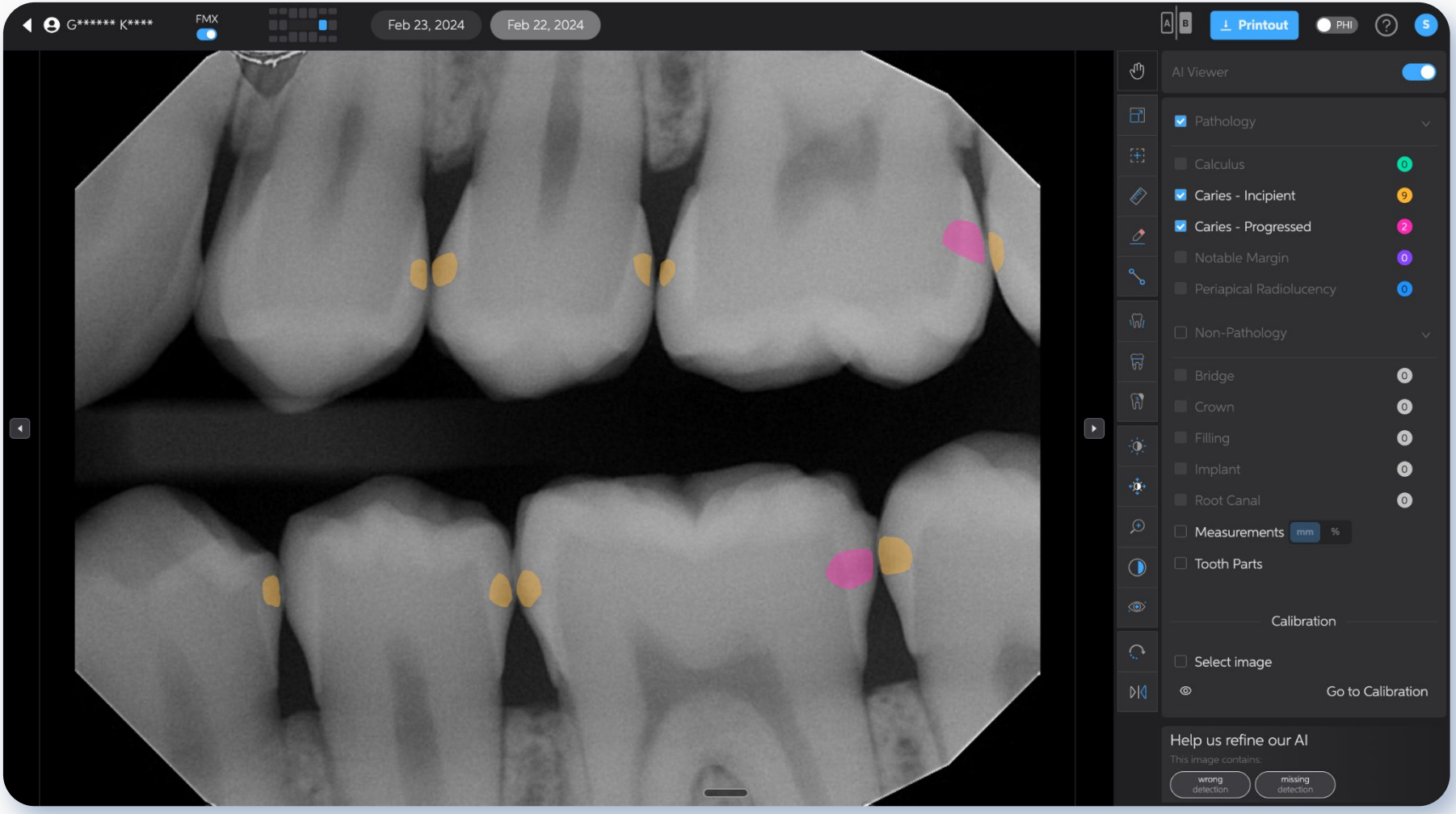

24 %
13 %
29 %
26 %
21 %
21 %
15 %
2 %
5 %

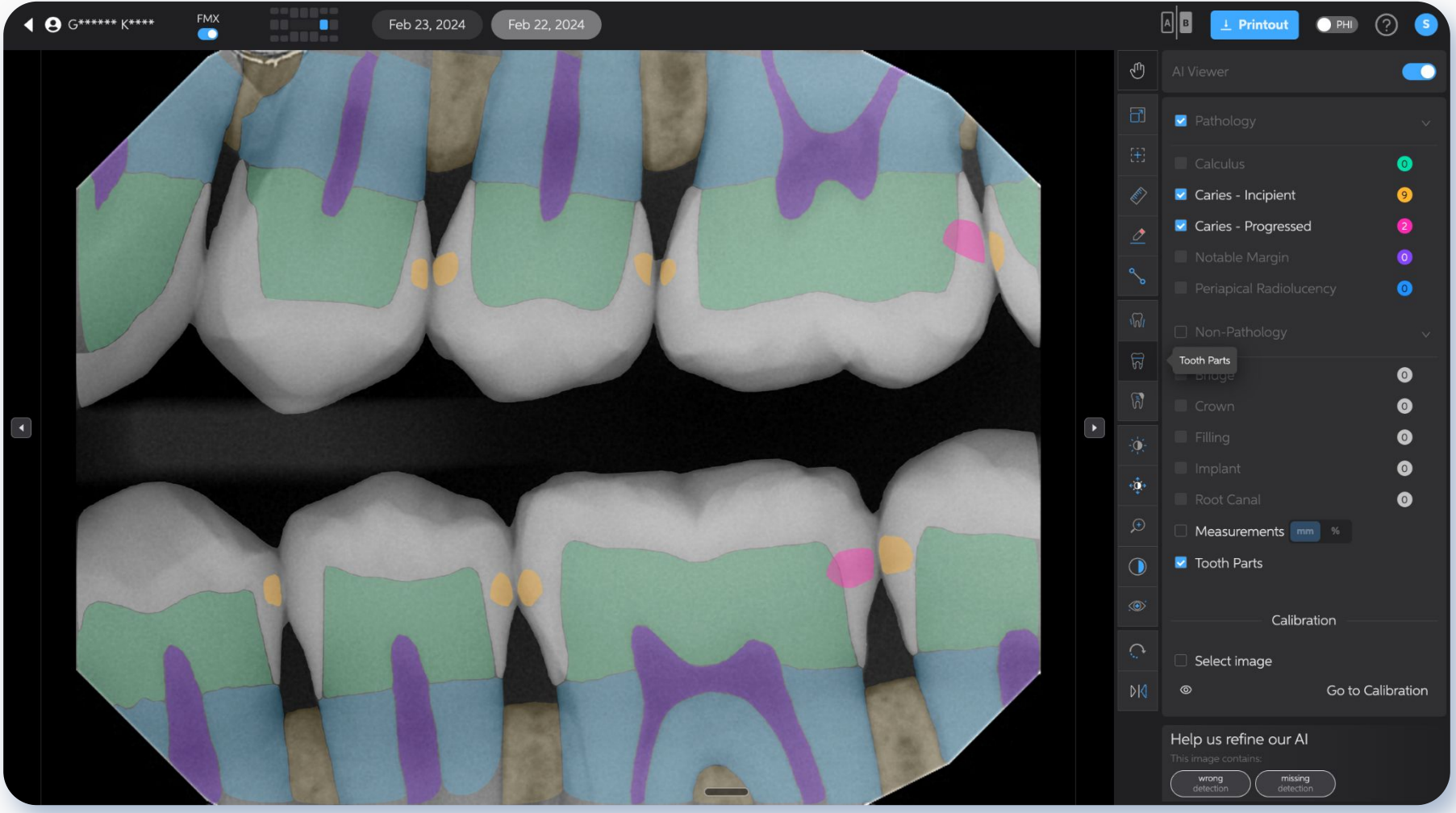



22 %
40 %
29 %
32 %
19 %

The New Patient:
Kendall


G****** K****
FMX
Feb 23, 2024
Feb 22, 2024
Printout
PHI
S
AI Viewer
Pathology
Calculus 1
Caries - Incipient 9
Caries - Progressed 2
Notable Margin 0
Periapical Radiolucency 0
Non-Pathology
Bridge 0
Crown 0
Filling 0
Implant 0
Root Canal 0
Measurements mm %
Tooth Parts
Calibration
Select image
Go to Calibration
Help us refine our AI
This image contains:
wrong detection
missing detection


G****** K****
FMX
Feb 23, 2024
Feb 22, 2024
Printout
PHI
S
AI Viewer
Pathology
Calculus 0
Caries - Incipient 9
Caries - Progressed 2
Notable Margin 0
Periapical Radiolucency 0
Non-Pathology
Bridge 0
Crown 0
Filling 0
Implant 0
Root Canal 0
Measurements mm %
Tooth Parts
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Help us refine our AI
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G****** K****
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Non-Pathology
Tooth Parts
Crown
Filling
Implant
Root Canal
Measurements
mm
%
Tooth Parts
Calibration
Select image
Go to Calibration
Help us refine our AI
This image contains:
wrong detection
missing detection

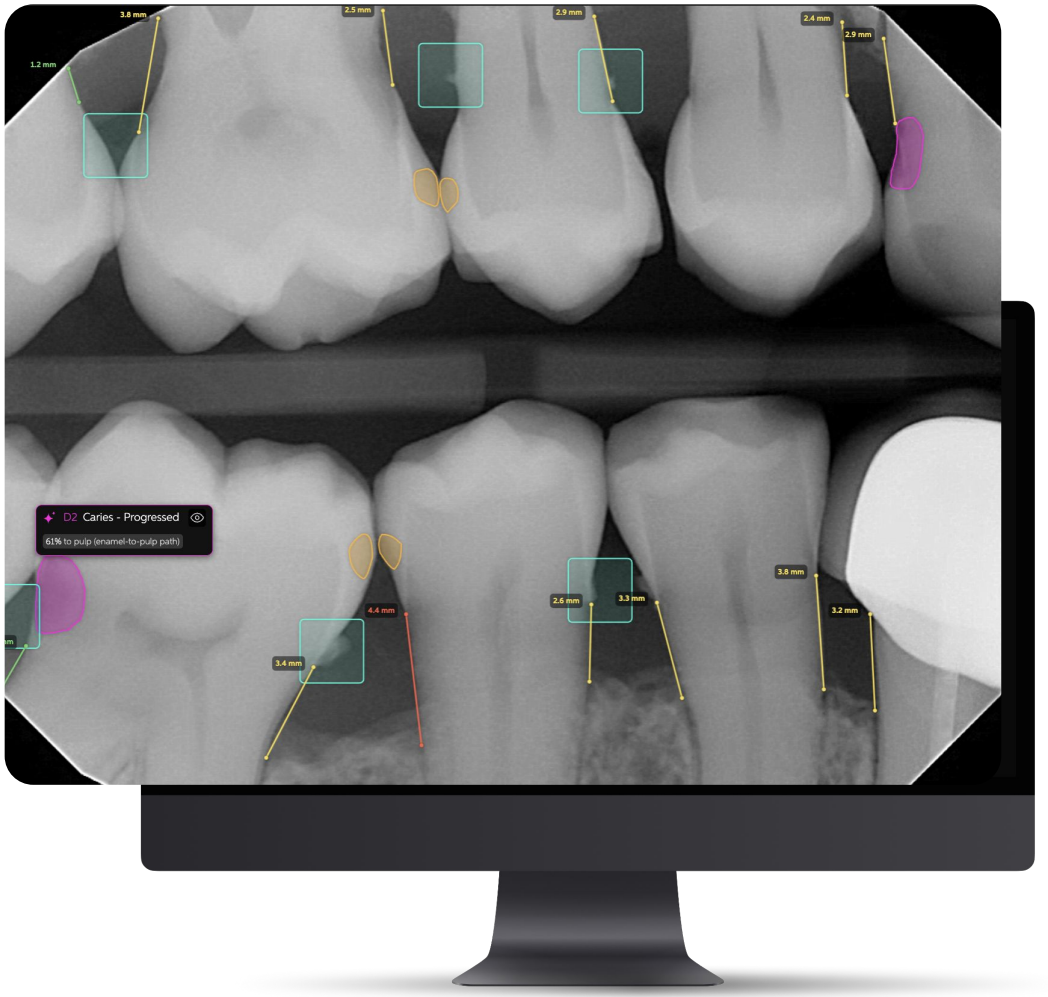
Clinician Vision vs. Patient Vision



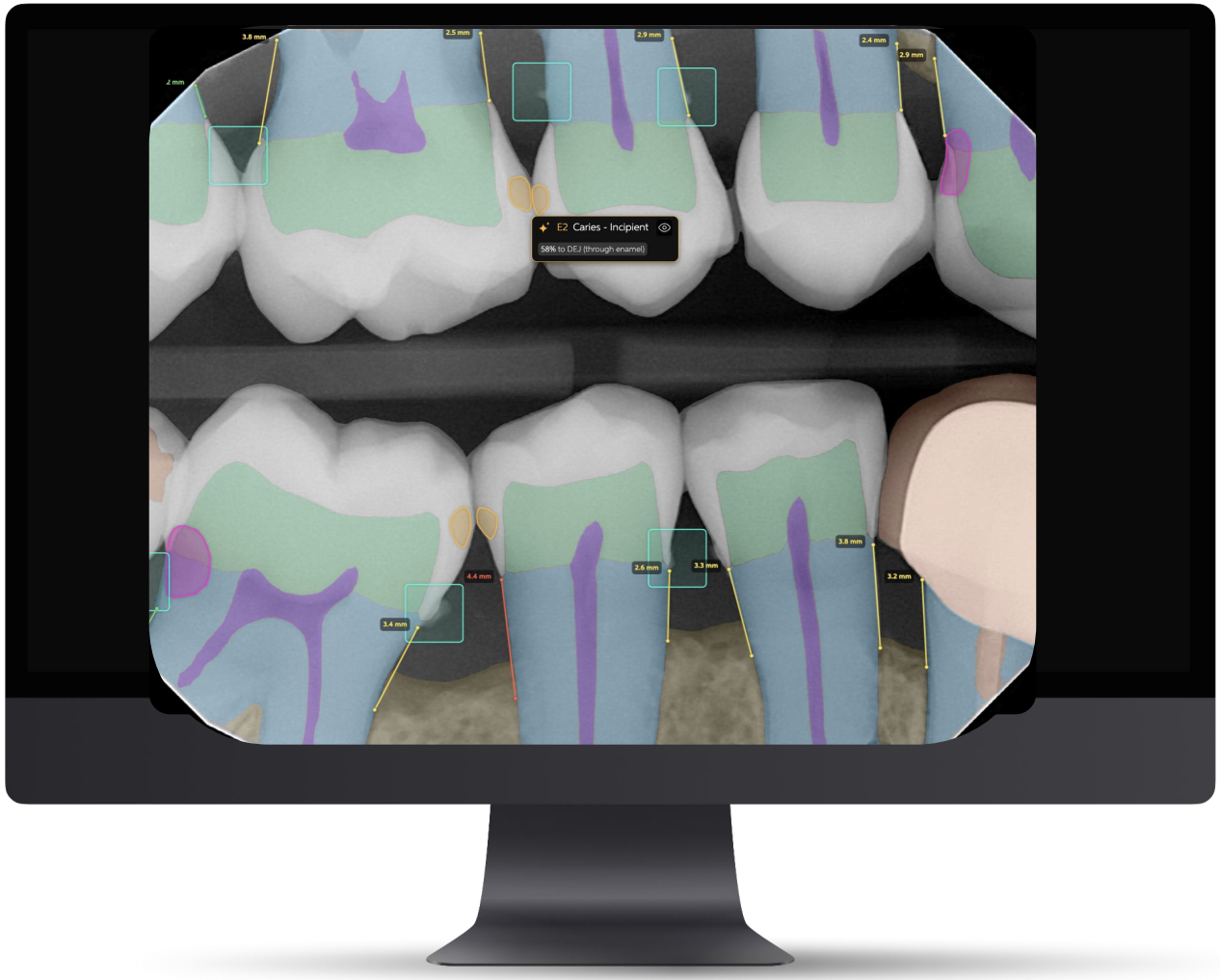


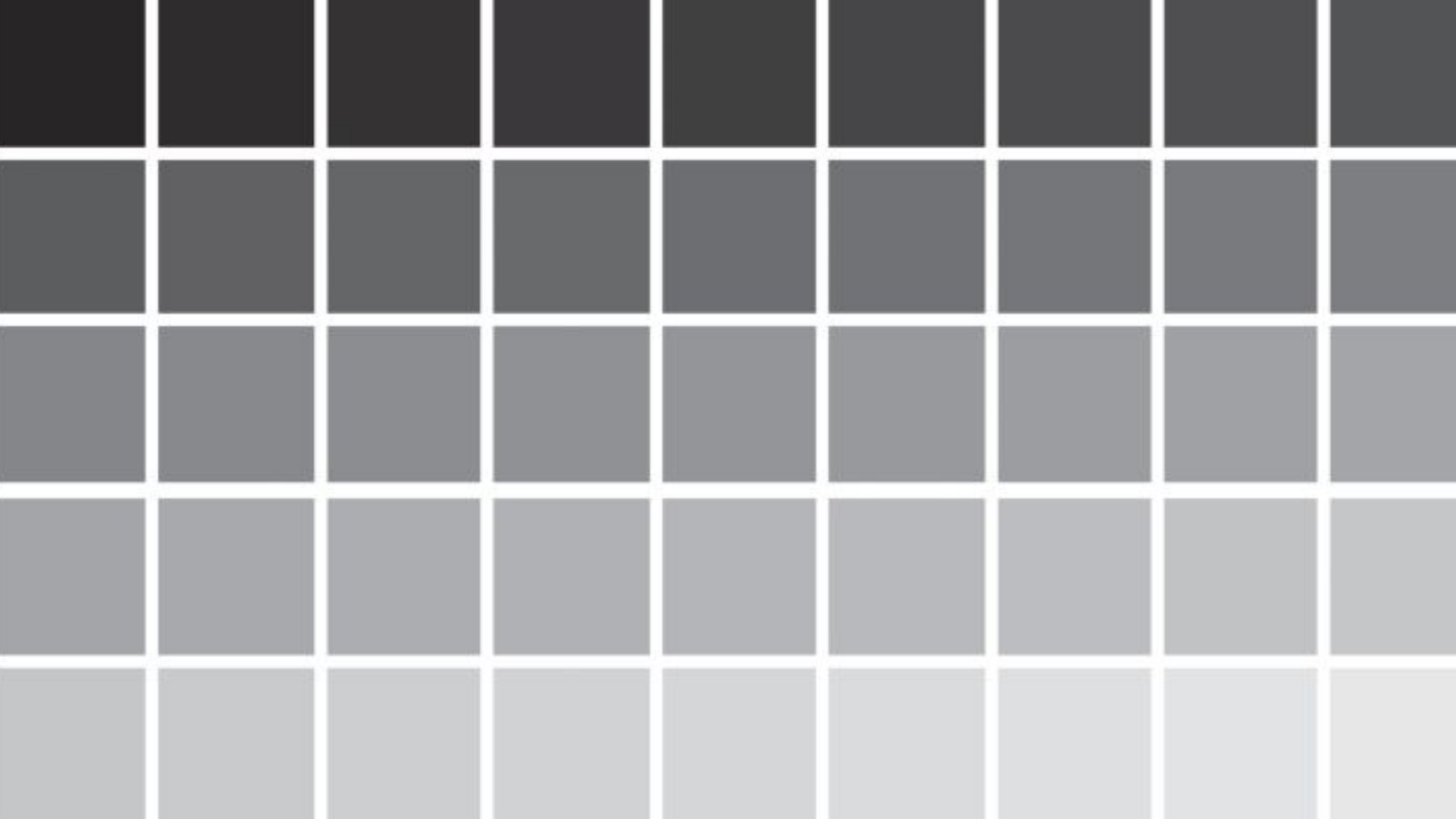
6

Caries


3.8 mm
1.2 mm
2.5 mm
2.9 mm
2.4 mm
2.9 mm
D2 Caries - Progressed
61% to pulp (enamel-to-pulp path)
4.4 mm
3.4 mm
2.6 mm
3.3 mm
3.8 mm
3.2 mm



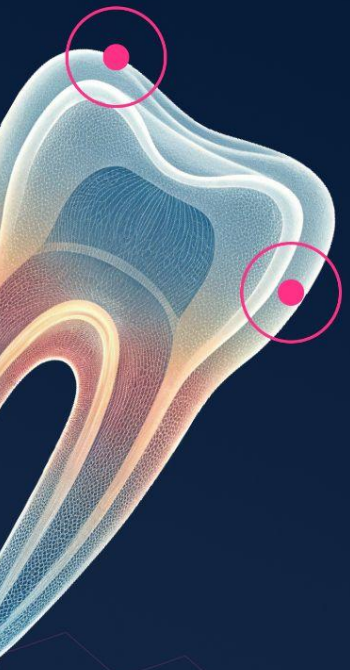

3.8 mm
2.5 mm
2.9 mm
2.4 mm
2.9 mm
E2 Caries - Incipient
58% to DEJ (through enamel)
4.4 mm
3.4 mm
2.6 mm
3.3 mm
3.8 mm
3.2 mm



Radiologic Skills Game
Play Live at Your Events!
Click here to request a game

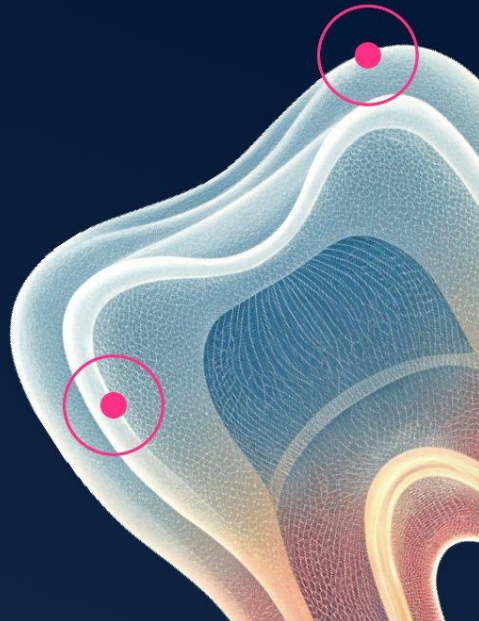
Request a Skills Game





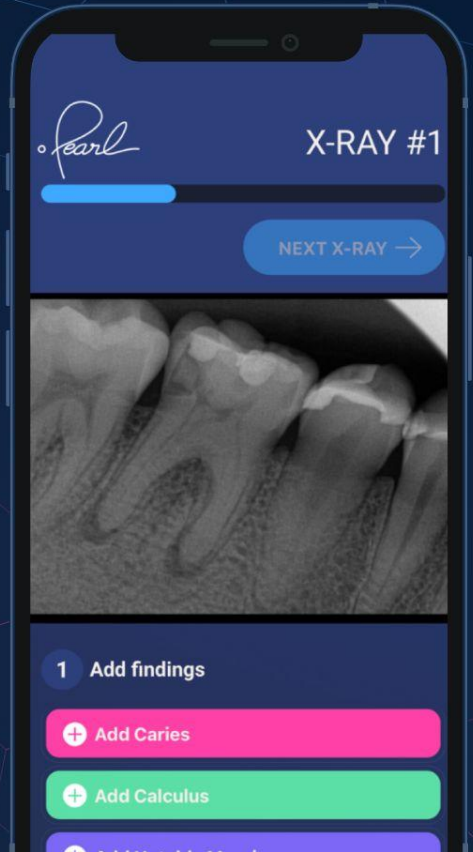
Pearl

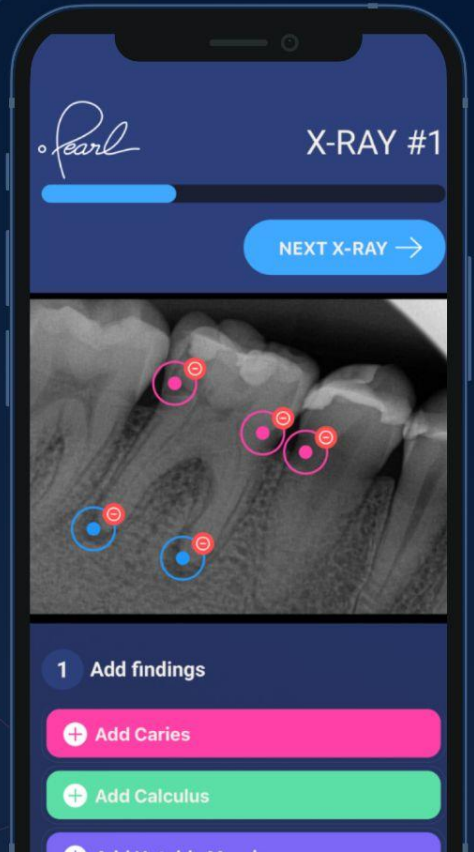
RADIOLOGIC SKILLS CHALLENGE

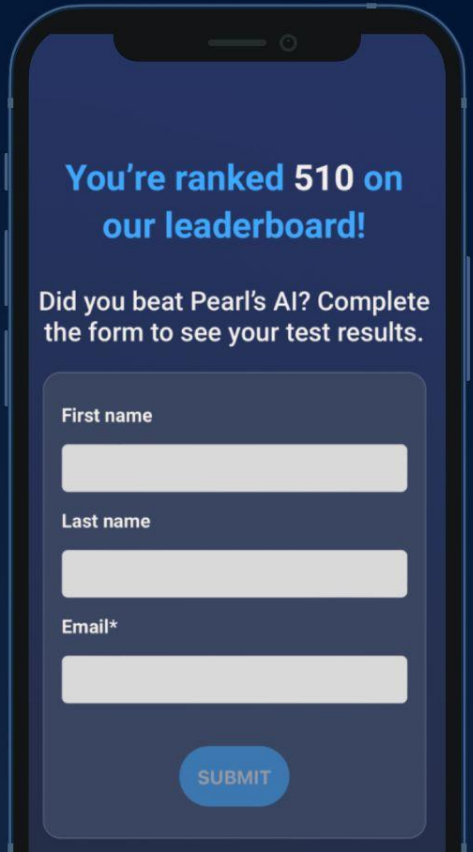


Pearl

RADIOLOGIC SKILLS CHALLENGE



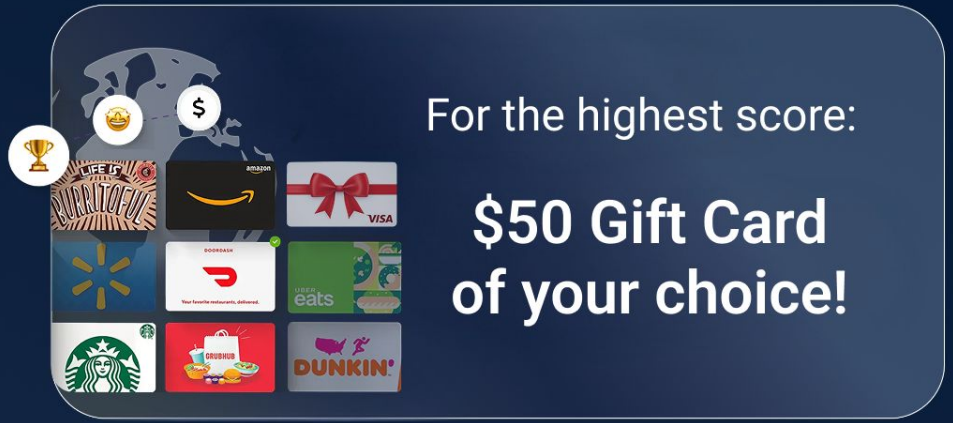




RADIOLOGIC SKILLS CHALLENGE

[Request a Skills Game]

Get Ready to Play



Pearl's Radiologic Skills Challenge: Facilitator Guide

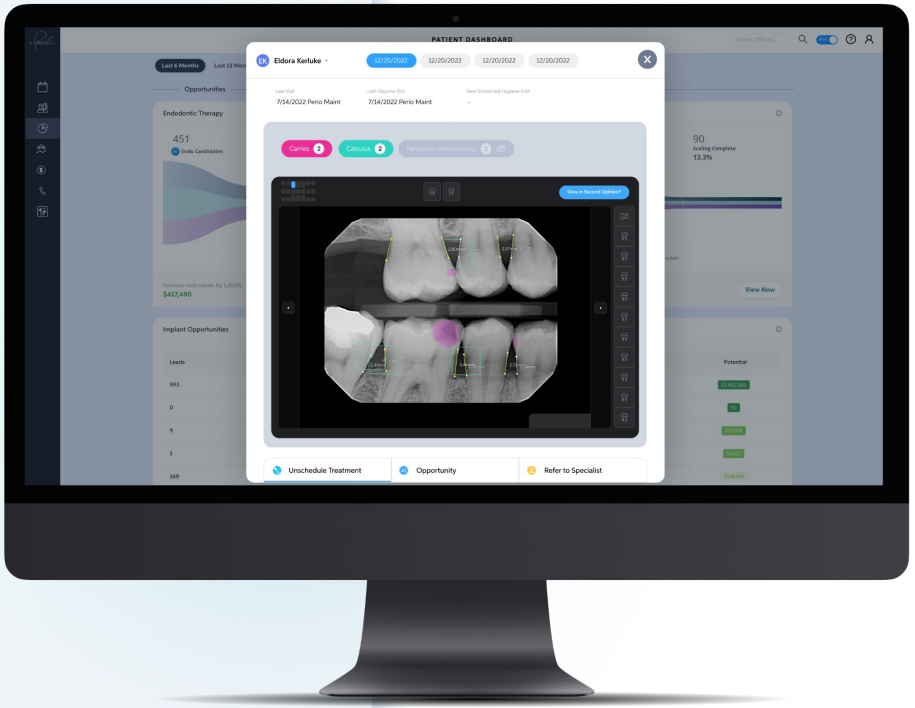
You will receive your slides to play Pearl's Radiologic Skills Challenge (to be customized to each KOLs event) . You can try yourself at play.hellopearl.com. Let me know if you have any questions!

1. **Slide into the Fun**
   ➤ Add the game slides to your presentation.
2. **Get Phones Ready**
   ➤ Ask attendees to take out their phones.
   ➤ **On Slide 2**, have them scan the QR code to begin the game.
3. **Share the Stakes**
   ➤ Let them know:
   - The top scorer wins a $50 Amazon Gift Card
   - They must enter an email address they can receive the prize at
4. **Time to Play**
   ➤ Give attendees about 5 minutes to complete the game.
   ➤ Encourage them to focus and have fun spotting radiologic findings.
5. **Group Discussion**
   ➤ **Go to Slide 5** to reveal the group results.
   ➤ Discuss how each person may have interpreted the images differently – a great learning moment.
6. **Announce the Winner**
   ➤ Slide 5 will display the top scorer's name.
   ➤ Award the $50 gift card directly to the winner, or Pearl will email them the gift certificate within 72 hours.

Pearl RADIOLOGIC SKILLS CHALLENGE

Practice Intelligence®

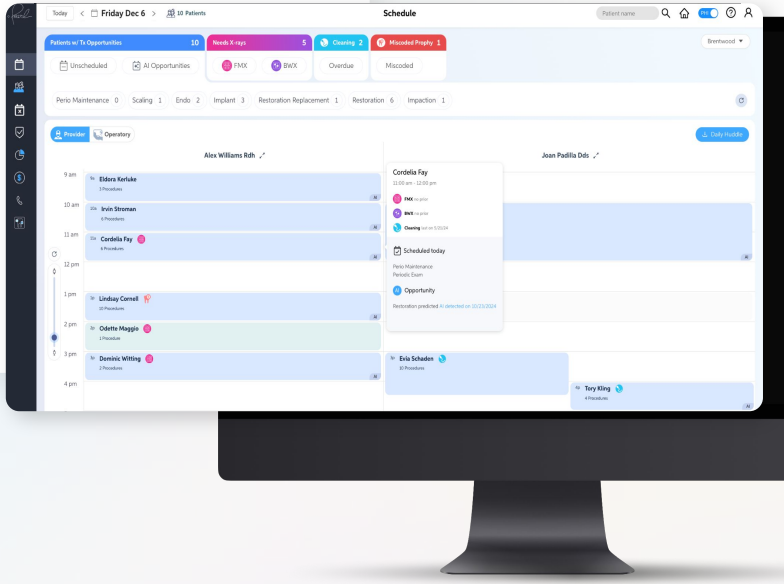
The first AI-powered, clinical performance platform for dental offices.



Start Smart

Performance Schedule

Pearl's AI flags **unscheduled and undiagnosed needs**, as well as needed x-rays and periodontal care right in your schedule.



Daily Chart Review Time

Industry Standard:

30 minutes - 2 hours per day

1 Hour	5 Hours	20 Hours
Per Day (average)	Per Week	Per Month

Significant time burden on staff

Opportunity for AI automation

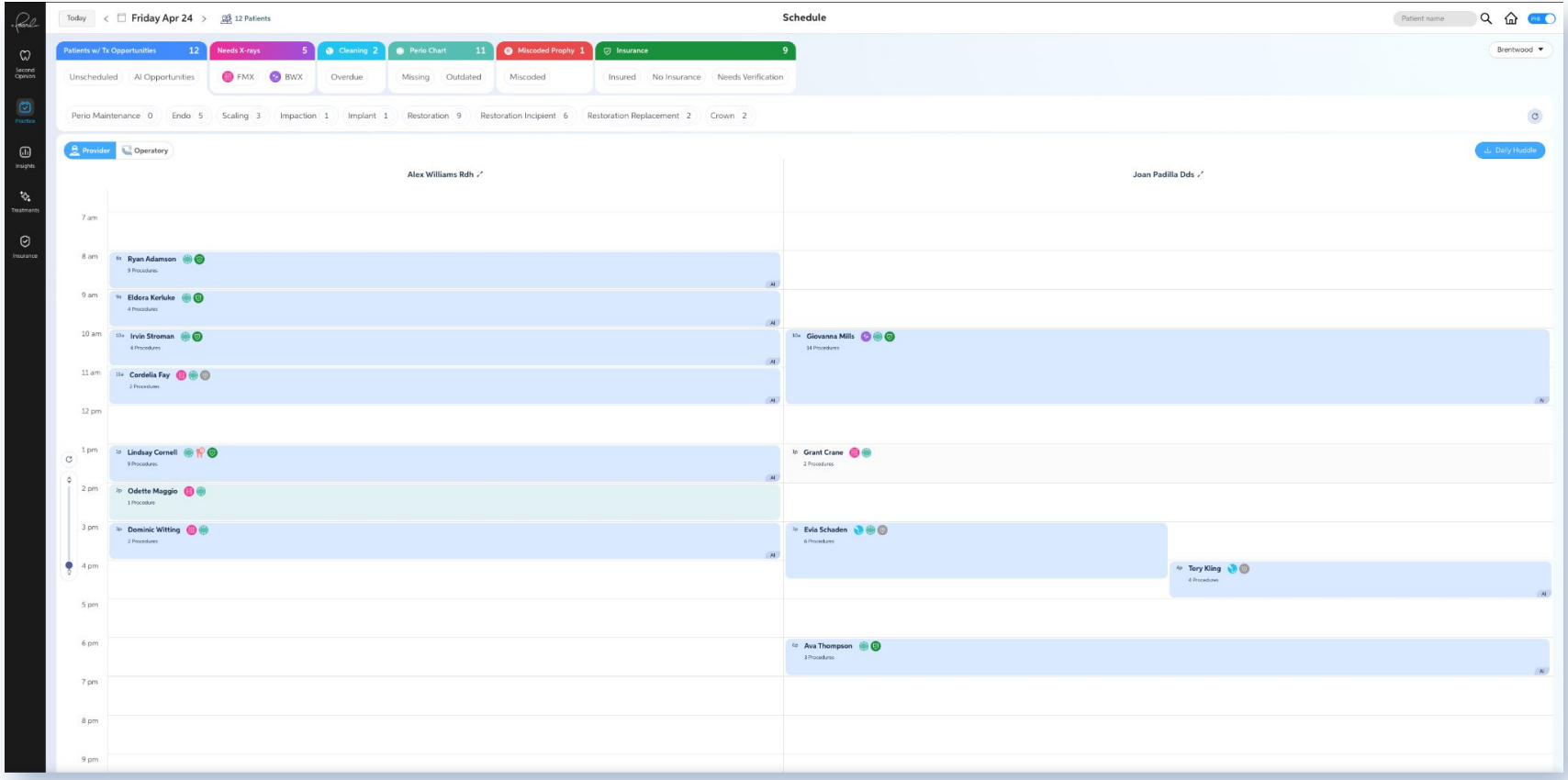


Provider Printouts

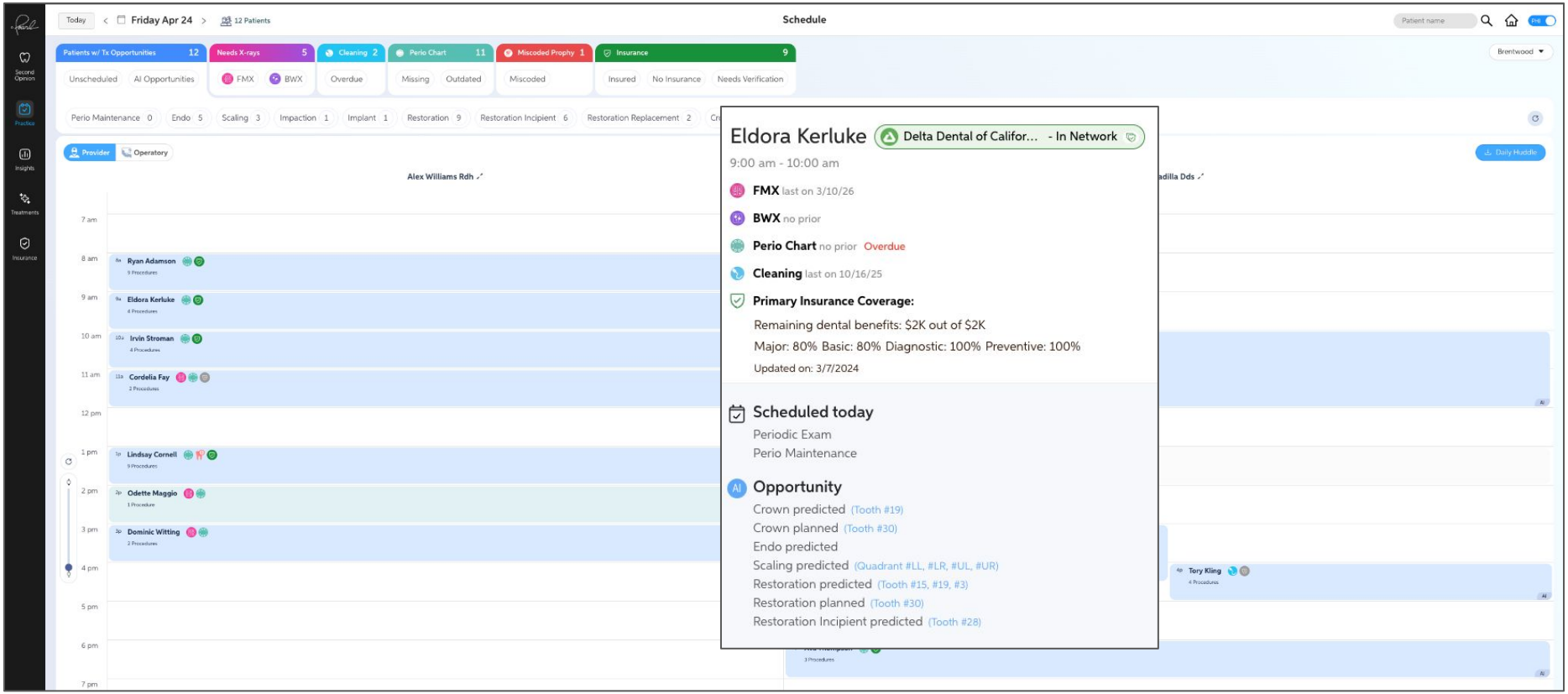
- **Unscheduled** treatment in the chart
- **Undiagnosed** treatment on the x-ray
- Who is due for x-rays?
- Who needs periodontal probings?
- Who has a Miscoded prophy?
- **Estimated Remaining Benefits**
- **Claim Actions**



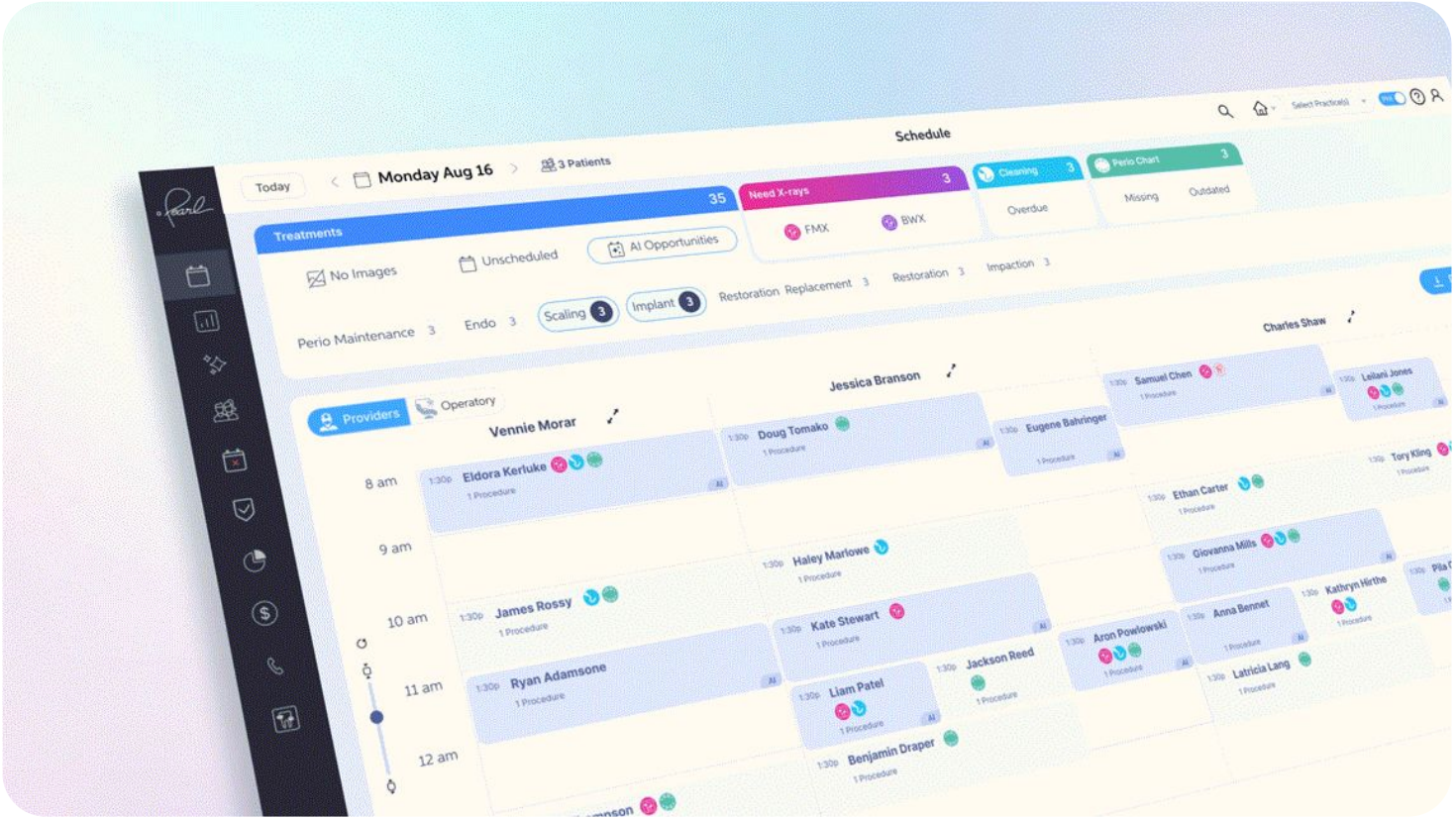
Enhanced Opportunity Schedule



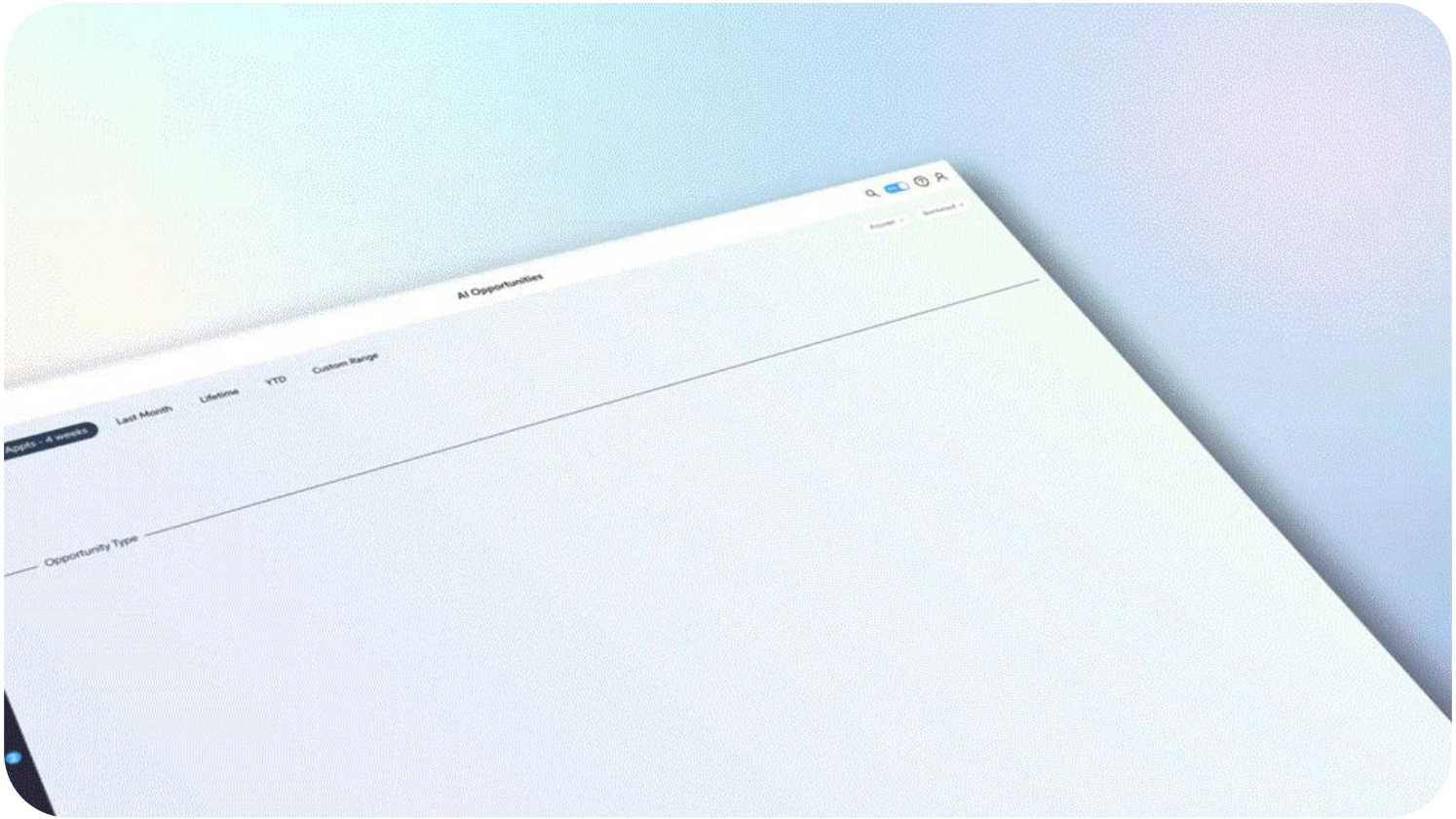
Patient Insights on Hover- Remaining Insurance & Unmet Treatment needs



Practice Intelligence



Practice Intelligence



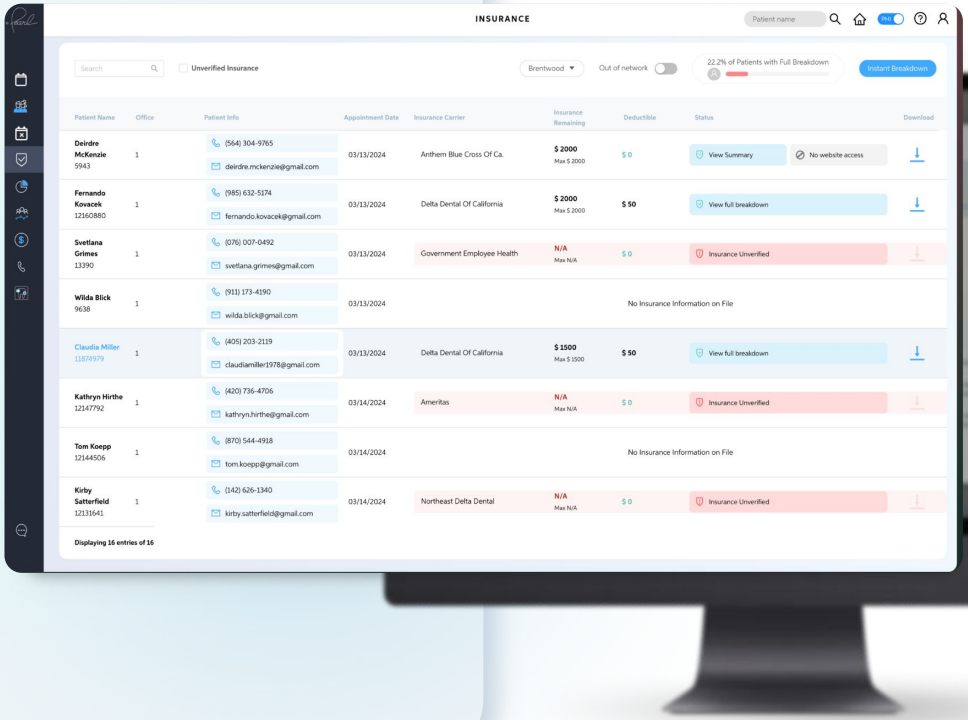
Practice Intelligence



Automating Insurance Verification with AI



Next-generation insurance eligibility & benefits verification, powered by AI.



Average Time Spent on Daily Insurance Verification

- 15-30 minutes per patient if done manually

Small Practices

~1-3 hours/day

Medium Practices

~3-6 hours/day

Large practices/DSOs

dedicated full-time staff (6–8 hrs/day)

- Automation reduces time to ~2-5 minutes per patient



More verified patients

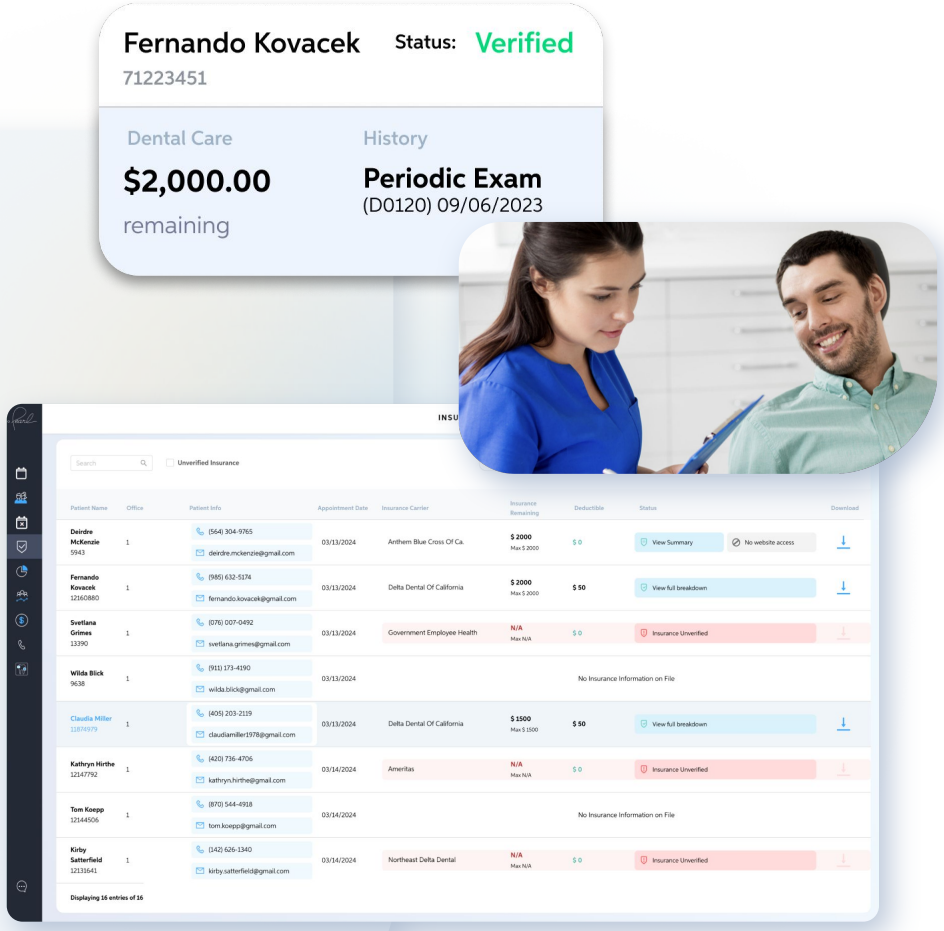
Higher case acceptance

Smarter treatment planning

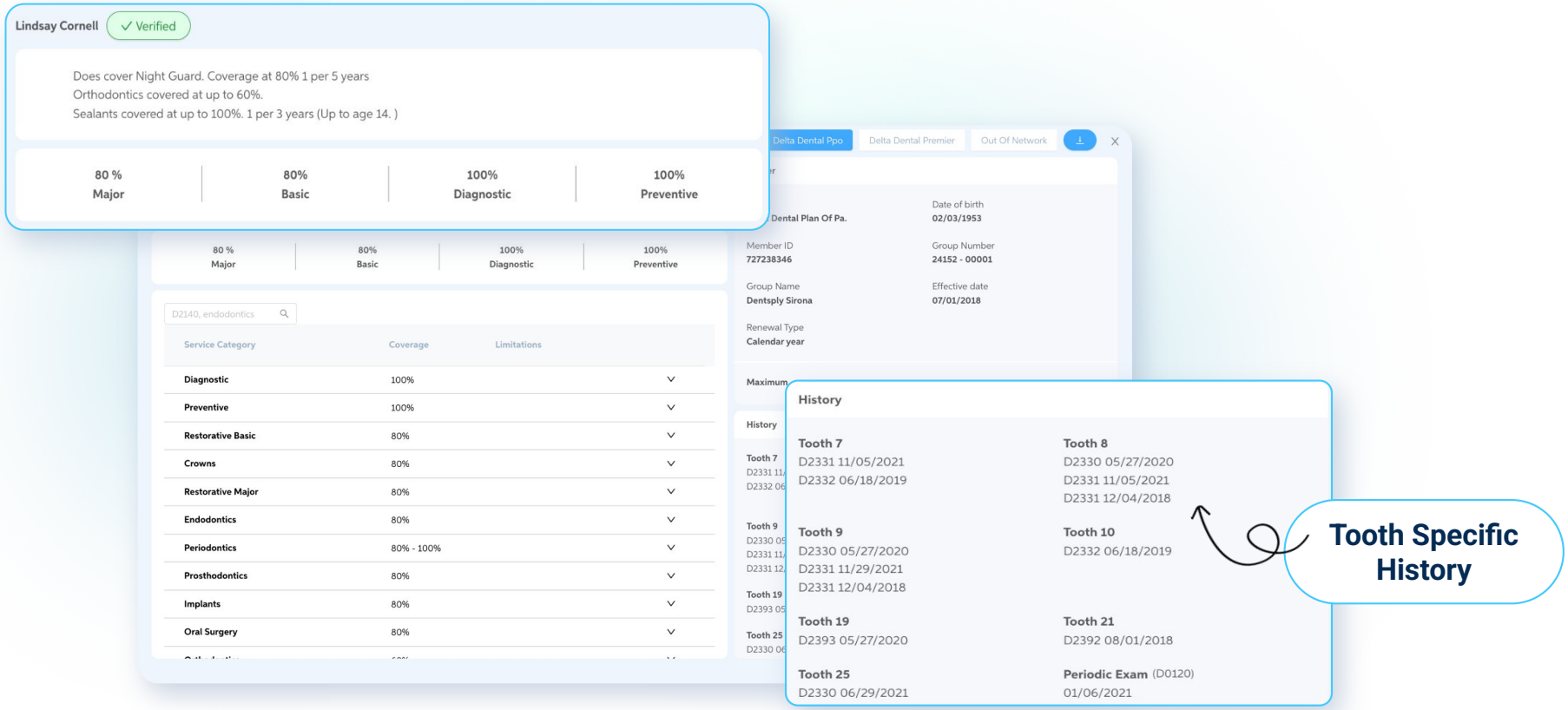
More accurate estimates

Increased claim approvals

Streamlined claim submissions



Detailed Insight for Efficient Treatment Planning

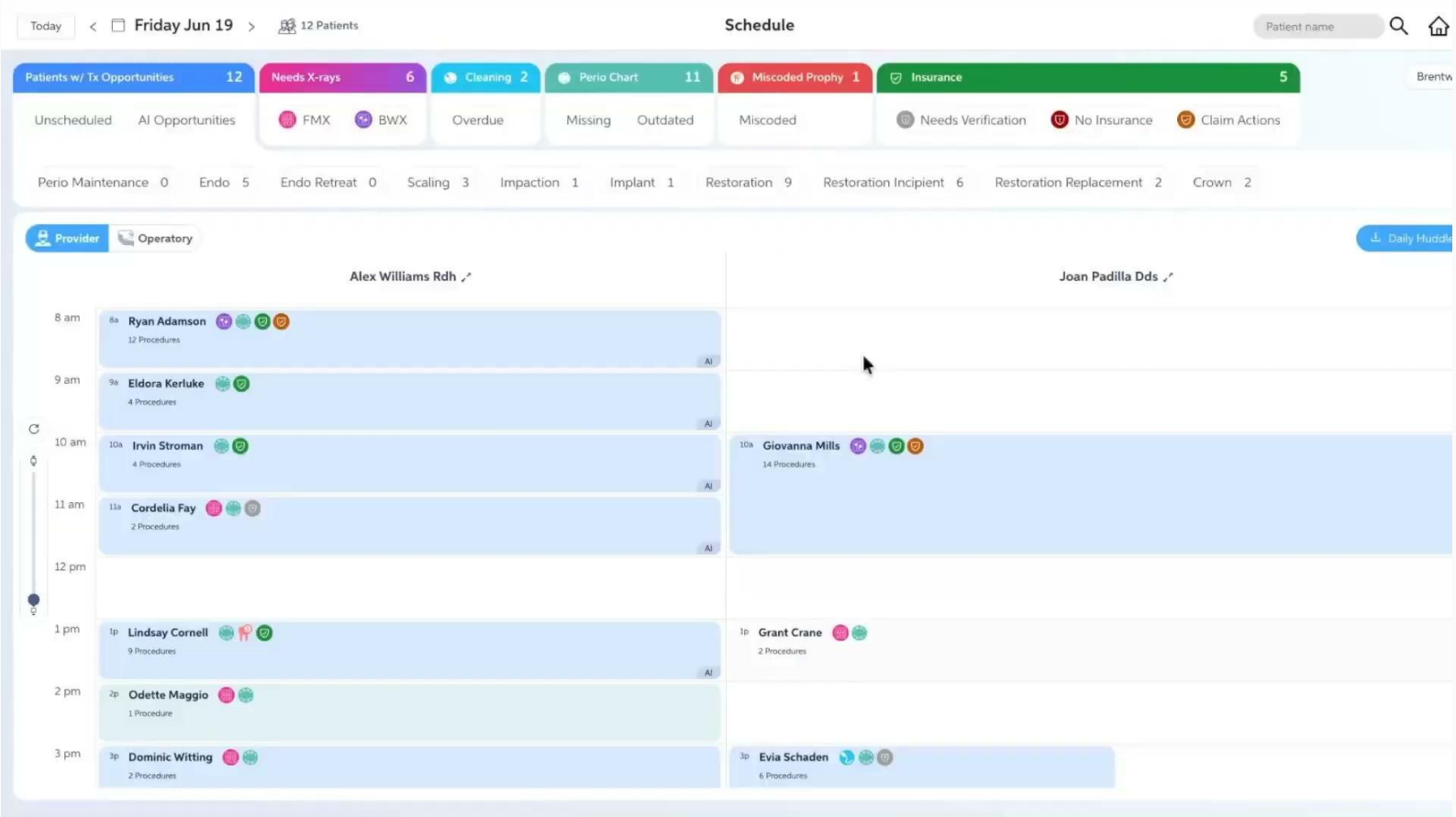


Provider Printouts

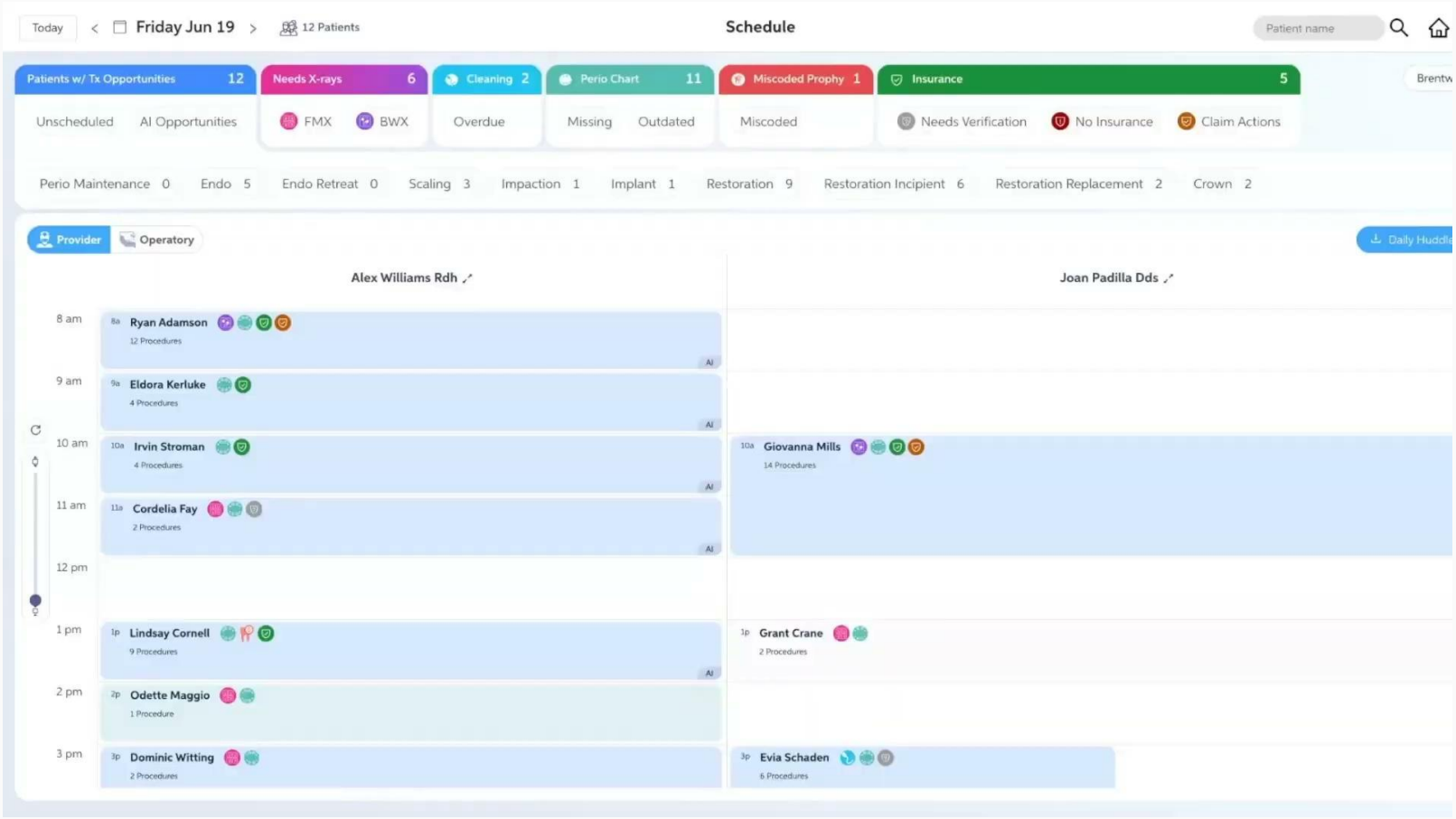
- **Unscheduled** treatment in the chart
- **Undiagnosed** treatment on the x-ray
- **Estimated Remaining Benefits**
- **Claim Actions: Missing/Outdated Images**



How to: Claim Actions



Silent Video for Presenting Claim Actions

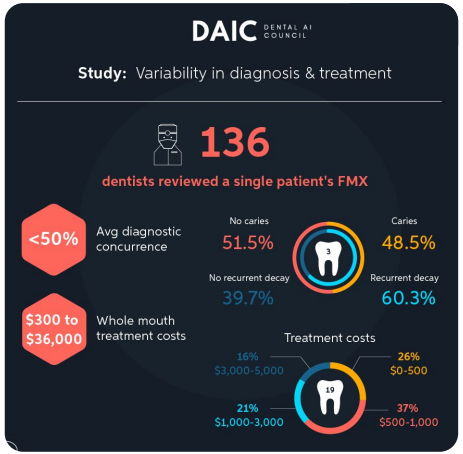


Clinical Inconsistency

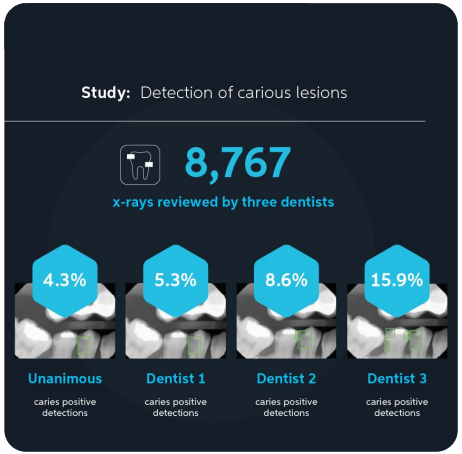


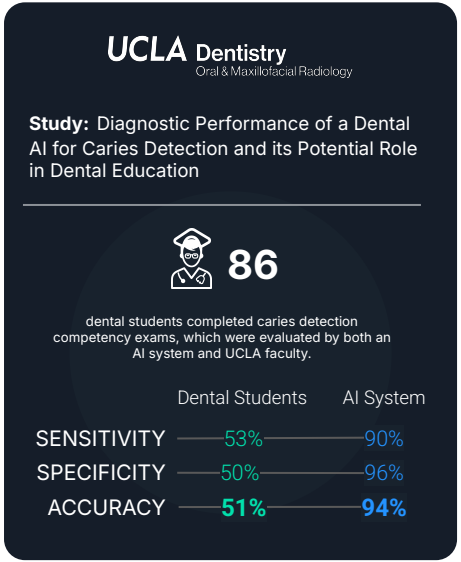
Clinical Inconsistency | BY THE NUMBERS

DAIC DENTAL AI COUNCIL × pearl



pearl





AI is a Team Tool



Patient Trust | BY THE NUMBERS



64%

Say they **don't understand their x-rays** during a consultation with their dentist 2

55%

Say **trust in the diagnosis/dentist** is the most important factor in treatment acceptance.[2]

61%

Say they have **switched dentists, sought second opinions or refused treatment** after a diagnosis.[2]

40%

Say they **distrust** dentists.

[1] https://news.gallup.com/poll/1654/honesty-ethics-professions.aspx
[2] https://5664760.fs1.hubspotusercontent-na1.net/hubfs/5664760/Guides%20and%20Studies/Dental%20Patient%20Trust%20Survey_8_22.pdf

Outcomes: The Data-Driven Impact

These aren't projections — they are measurable results experienced by practices already using Pearl AI across the full clinical workflow.

31.7%

Case Acceptance Lift

Increase in same-day case acceptance with AI-assisted chairside presentation

89-94%

Detection Accuracy

Reversing diagnostic decline with near-perfect radiographic finding identification

$31K

Monthly Opportunity

Average restorative revenue unlocked per practice per month through AI diagnostics

15+

Hours Saved Weekly

Administrative hours returned to your team through automated insurance verification alone

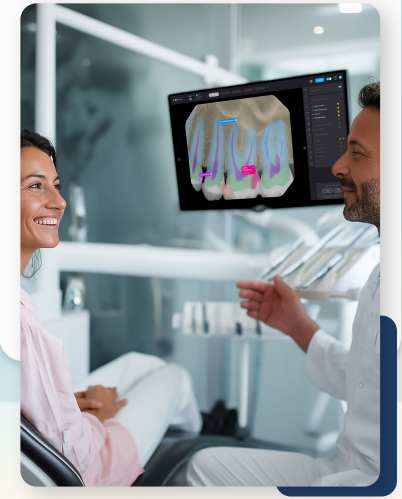
Dental hygienists

use AI in patient education and exam preparation.



Dentists use AI

to build trust and boost case acceptance.



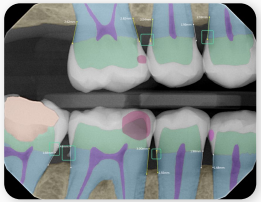
The admin team

uses AI for patient communication, claims submissions, and case presentation.



Patient Printouts

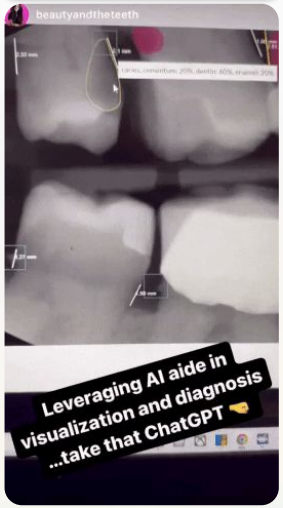
- Treatment Presentations
- Insurance Claims
- Email Correspondence





Pearl

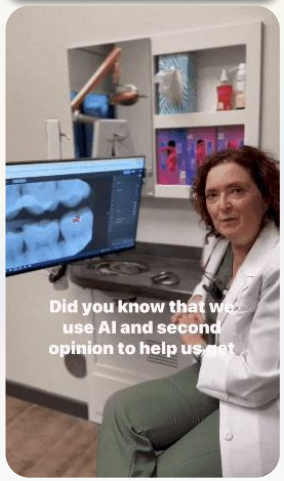
Lana Rivera
Pearl is an incredible product and highly recommend it!

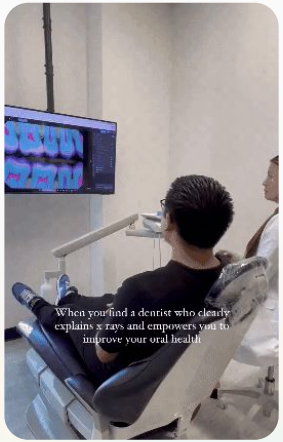


David K. Yang · Follow
We all want to be the best. And I can tell you with 💯 certainly that I have too missed cases like this. I can't tell you why. Maybe I was too busy. Maybe I just wasn't at my best that day. Maybe I am just a human being that is fallible. May I just suck. People act like they can't make simple mistakes or made simple mistakes. Sorry, that's hard to believe. Well I can admit that I have. AI has made me a better dentist. Just like my loupes, microscope, CBCT and others. Thank you Austin Vetter for sharing. Much appreciated

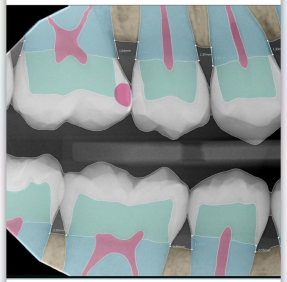
Sundar Jagadeesan
Initial Thoughts from New Zealand:
1) love the "wow" factor for the patients. Suddenly the X-ray becomes something they can understand.
2) my associate and dental assistants are going gaga over the whole thing.
3) we probably landed a RCT today due to PEARL AI
4) I am still thinking about $500 (NzD = $300USD) per month!
But nevertheless I am thrilled! 99.9% we will atleast go ahead and sign up for 6 months and see how many cases we convert purely due to Pearl AI!

Great Lakes Dental Care · Follow
We use it and it's a great resource once you get it trained to your preferences to help use as a second opinion. Patients are always impressed with the technology





nejad_institute



Liked by bigbluewhale and 230 others
nejad_institute Have you tried Pearl AI? What did you think? Let me know
I have been testing and using Pearl for years now. My patients and I love it because of how much it helps educate patients and I will readily admit that it helps me find cavities that I might normally miss. One of my favorite features is the "Tooth Parts" which makes way more sense to patients than you can imagine. There are a lot of other examples too but it's really easy to get attached with it. I do find there are many false positives but it has been improving a lot recently and I always prefer to review more than to miss something.

Leonard Tau
The practice I sold now uses Pearl and absolutely loves it. Helps with treatment acceptance, highly recommend



Debra Engelhardt-Nash
We love Pearl. Great way to help patient understand what Dr sees. And reviews Perio on pictures

Meredith Gantos
Love Pearl.

It's a great tool to help educate and communicate with patients. It doesn't replace critical thinking, but it's a great adjunctive aid.

It's very affordable with the Oryx integration and a no brainer to me.

Tai Ger Wudz
Pearl. Excellent for patient communication and case acceptance. Pays for itself over and over again.





Great Lakes Dental Care · Follow
We use it and it's a great resource once you get it trained to your preferences to help use as a second opinion. Patients are always impressed with the technology



Michael Fulbright
As much as I love Oryx if they don't start partnering more with companies like Pearl than I have no choice but to change softwares.

aquabluedental
Vancouver, British Columbia

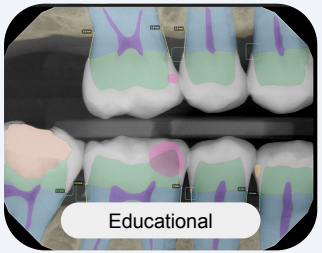


Using AI to Strengthen Patient Communication

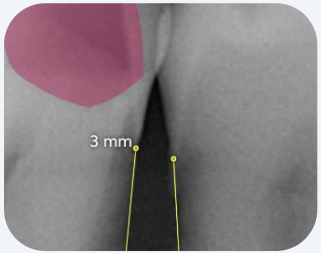


Dental Teams use AI to redefine patient communication.









AI-Influenced Treatment | BY THE NUMBERS

Treatment accepted by patients

+23%
Root canals

+19%
Fillings

+37%
Scaling & Root Planing

+34%
Crowns

+18%
Implants

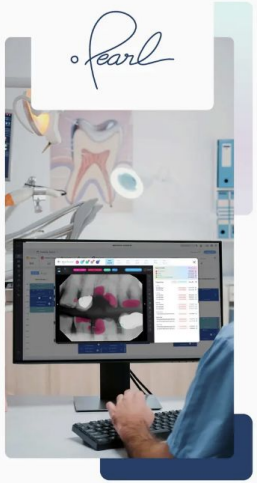
+39%
Restorative Replacement



Case Studies



How P4D Supports Growth with Confidence, Consistency—and Pearl's AI



Partnerships For Dentists (P4D) is a fast-growing dental group navigating the dual challenges of scaling care and maintaining quality. With experienced doctors operating at capacity and new recruits needing clinical support, **Chief Clinical Officer Dr. Greg Kerbel turned to Pearl to solve three critical needs:**

- Support onboarding for young doctors
- Enhance diagnostic accuracy across the board
- Standardize care without adding to clinician workload

At a glance

Partnerships for Dentists

40 Pearl-activated practices

90 Associates of varying experience

3 Imaging platforms

Challenge

P4D needed a system-wide approach that improved diagnostic accuracy among fast-moving, veteran clinicians while helping early-career clinicians diagnose and present with confidence.

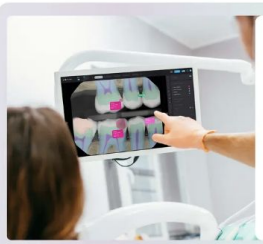
Approach

The organization selected Pearl's **Second Opinion**, for its superior pathology detection, easy-to-use interface, and ability to integrate with all three of its multiple imaging platforms. It also implemented **Practice Intelligence**, Pearl's practice insights engine.

Results

Diagnoses surged by **35%** after P4D implemented Pearl system-wide, resulting in more advanced treatment planning and higher production.

> *"Pearl is never rushed. It's always faster than we are—and it's always thorough."*
>
> — Dr. Greg Kerbel, Chief Clinical Officer, P4D



44% boost in newly diagnosed procedures

35% increase in newly identified dentistry

$29.5M in untapped revenue found

Pearl's AI-powered dental software ensured diagnostic accuracy and quality care, driving growth through three key improvements:

Confidence from Day One	Pearl's easy-to-use interface and clear, colorful highlights offered young dentists a non-judgmental **"Second Opinion,"** building confidence in their diagnoses and encouraging more advanced treatment planning that improved production per treatment by **7%.**
Speed with Accuracy	For seasoned dentists, Pearl delivered instant, high-precision diagnostics that improved clinical consistency without slowing the pace of care—resulting in 35% more monthly diagnoses.
No Opportunity Left Behind	Practice Intelligence's automated chart audits surfaced untreated needs—pointing doctors and hygienists to patients ready for care. The result? $29.5M in dentistry uncovered and acted on.

From fully booked
to **fully optimized**:

How Pearl accelerated Rand Center's Performance


Dr. Elliot Rand

Rand Center for Dentistry, a thriving multi-specialty practice in Northern New Jersey, employs a large team to deliver a wide range of services including general dentistry, orthodontics, endodontics, pediatric dentistry, and more. But lower than expected diagnosis rates, particularly in the newly added periodontal practice, and middling treatment acceptance have limited further growth.

Owner Dr. Elliot Rand enlisted Pearl's Second Opinion software to solve three core challenges:

- Improve diagnostic consistency
- Boost confidence and communication among younger clinicians
- Increase treatment acceptance

AT A GLANCE

Rand Center for Dentistry

2,000
patients per month

40
associates of varying experience

15
competitors within 10 miles

Challenge

Rand Center for Dentistry enjoyed a full schedule and a full clinical bench, but struggled to achieve incremental growth.

Approach

The practice selected Pearl, an AI-driven dental software, for its superior capabilities in pathology detection—particularly periodontal conditions—easy-to-use interface, and patient friendly case presentation.

Results

After integrating Pearl into its workflow, treatment acceptance soared from 37% to 44%, leading to an **INCREASE IN PRODUCTION PER VISIT FROM $460 TO $520.**

13% increase in PPV

2X detection of periodontal disease

$150K increase in revenue in first month

Triple Threat:
How Pearl AI Supercharged Rand Dentistry's Growth

Pearl's AI-powered dental software revolutionized Rand Dental's operations, driving growth through three key improvements:

Laser-Sharp Diagnostics

Pearl's real-time radiographic analysis brought consistency to Rand's diverse team, doubling periodontal issue detection. Periodontal **diagnosis rates skyrocketed from 7% to 14%**, with an ambitious 18% year-end target in sight.

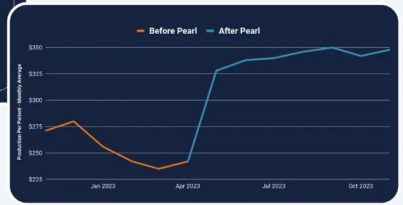
Confidence-Boosting Co-Pilot

Armed with Pearl's AI insights, Rand's clinicians communicated diagnoses with renewed assurance. This boost in confidence proved especially valuable in expanding the practice's periodontal specialty, as staff more effectively conveyed complex issues to patients.

Technicolor Treatment Plans

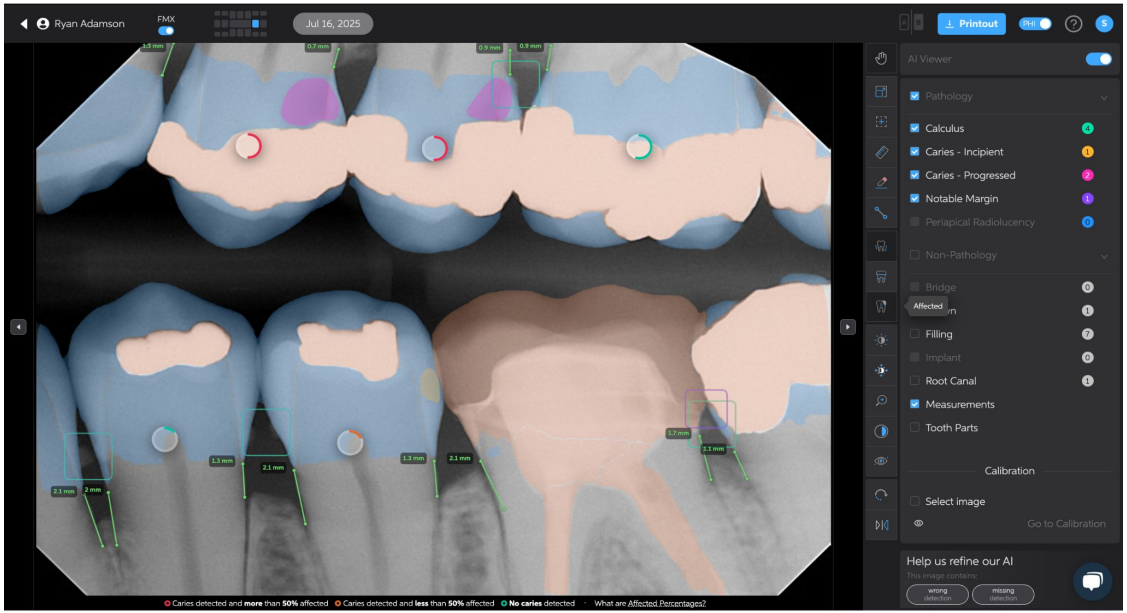
Pearl transformed standard x-rays into vibrant, patient-friendly visuals. By highlighting areas of concern in full color, the software turned "6,000 shades of gray" into compelling clinical presentations. This visual clarity shifted patient mindsets from passive observation to proactive treatment, driving acceptance rates and production skyward.

	Rand Center	Rand Center with Pearl	% Increase with Pearl
Annual Patient Value	$734	$778	6%
Hygienist Production Per Visit	$138	$172	25%
Dentist Production Per Visit	$460	$520	13%
Treatment Acceptance %	37%	43%	16%
Pre-Appointment %	63%	68%	8%
NP Reappointment %	49%	62%	27%
Hygiene Pre-Appointment %	68%	73%	7%
Hygiene Reappointment %	80%	89%	11%
Perio Visit %	11%	14%	27%

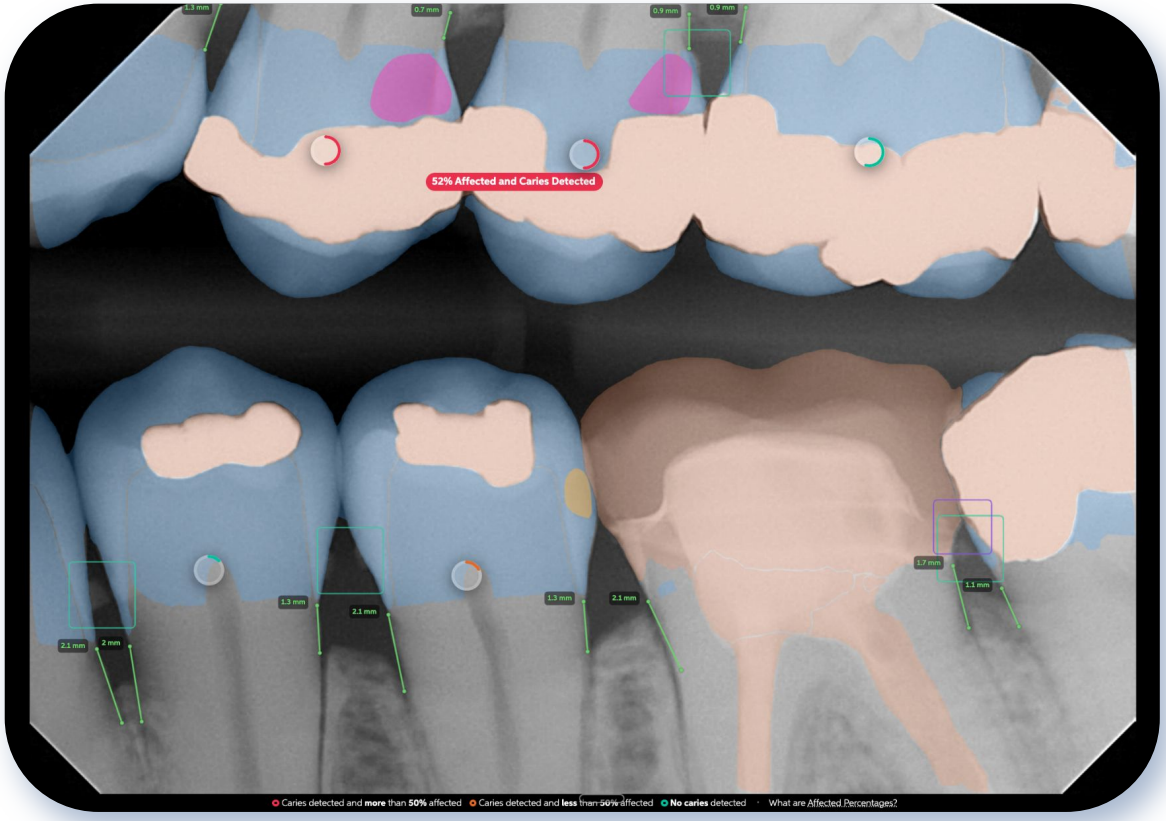


Clinician Insight: Affected Tooth

The ‘**Affected Tooth**’ breakdown shows the percentage of the coronal portion of the tooth with existing restorations and/or decay.



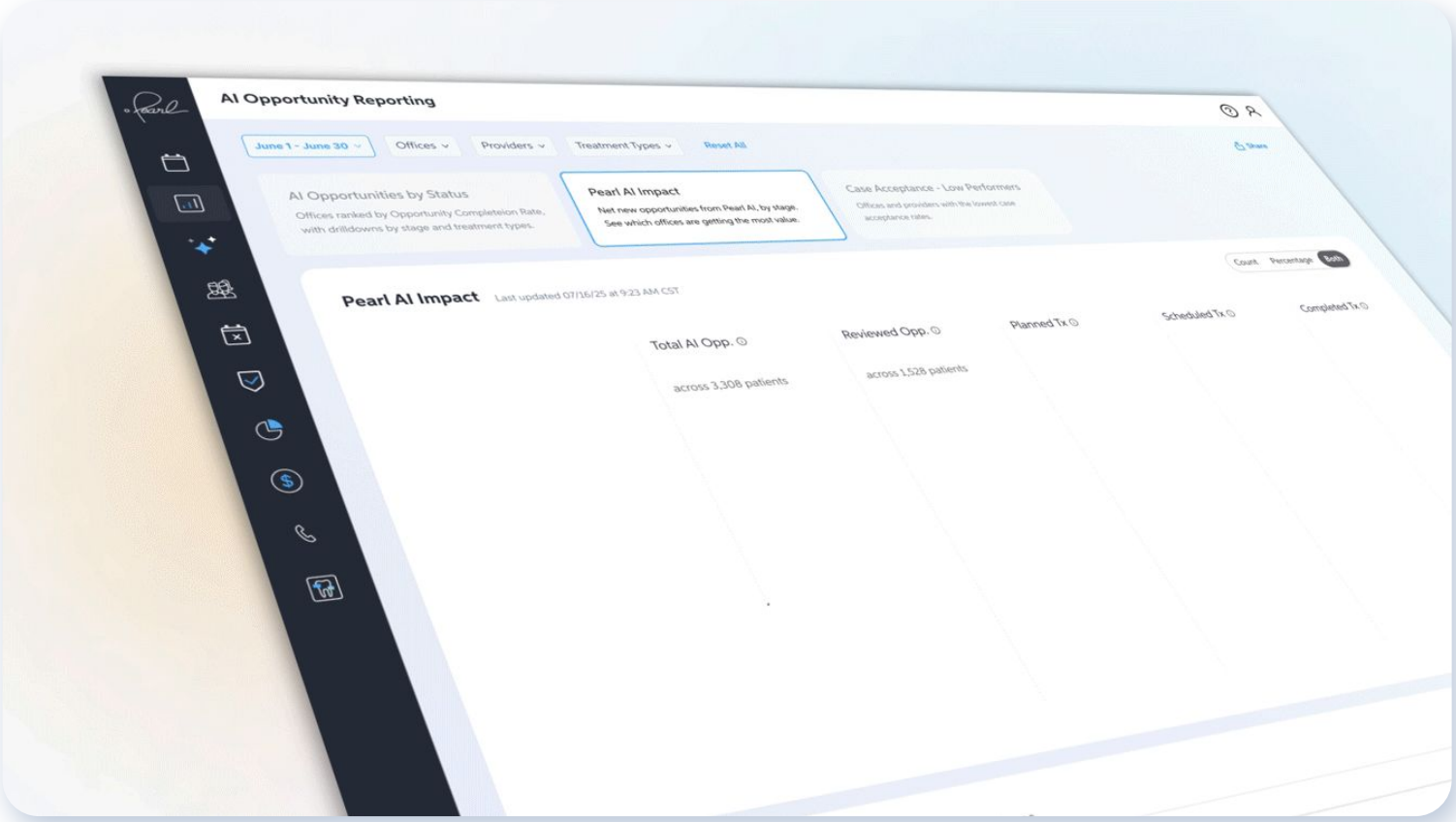
Affected Tooth Percentages



Reporting for AI Opportunities
Undiagnosed on your patients visiting today.



AI Opportunities | Reporting



Types of AI



Types of AI and their applications

Machine Learning



Natural Language Processing



Computer Vision



Generative AI



MACHINE LEARNING

A subset of artificial intelligence that uses computer systems capable of learning and adapting on their own without being explicitly programmed.



Machine learning

Content Recommendations

- Pattern recognition
- Predictive analytics



Natural Language Processing

The field of computer science that focuses on enabling computers to translate text, respond to spoken commands, summarize text, etc.



COMPUTER VISION

The field of computer science that focuses on enabling computers to identify and understand objects and people in images and videos.



Computer Vision

Automotive Safety

- Blind spot monitoring
- Parking assistance
- Collision warnings



Computer Vision

Dental Radiology

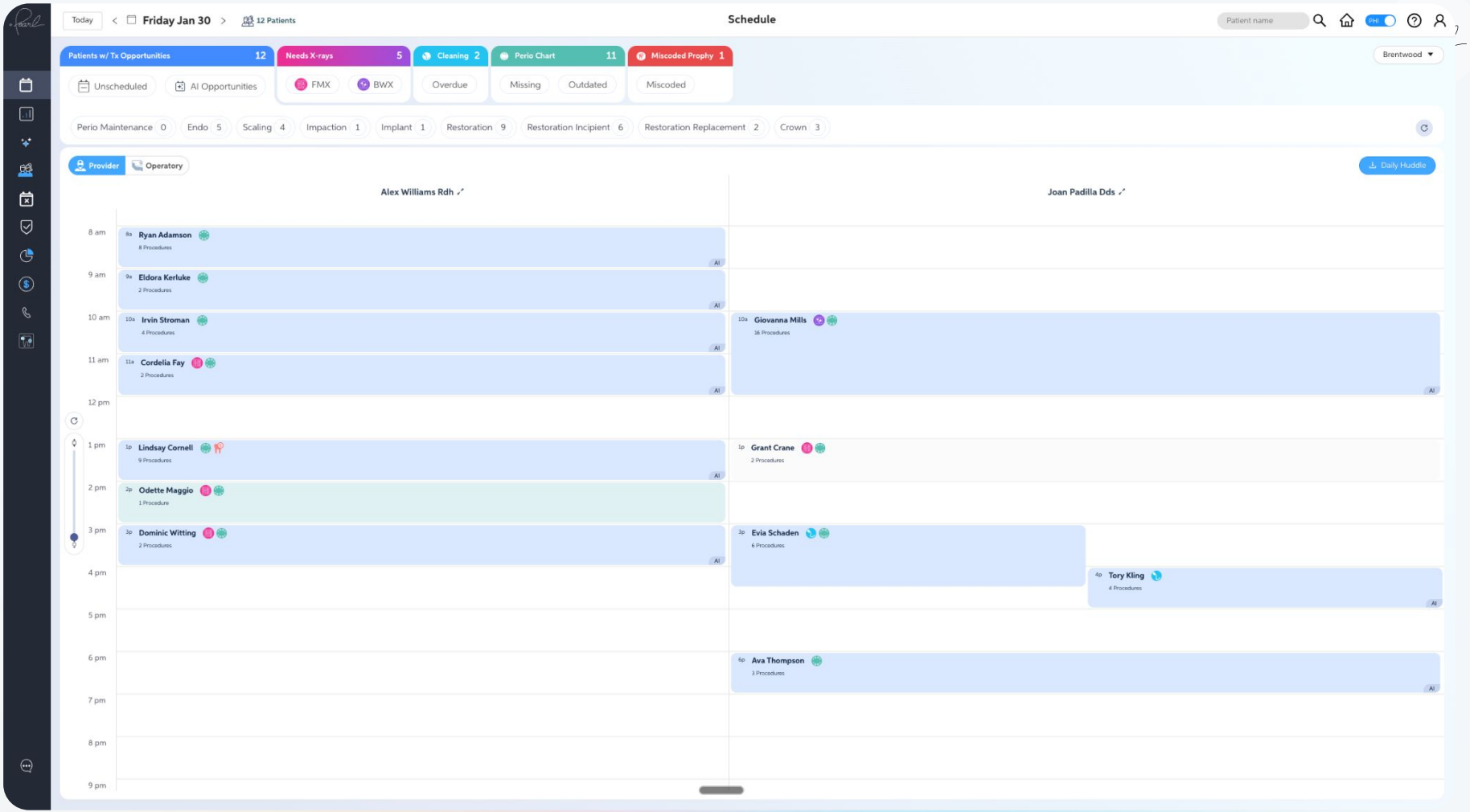
- Caries Detection
- Anatomical Segmentation
- Calculus Detection and more!

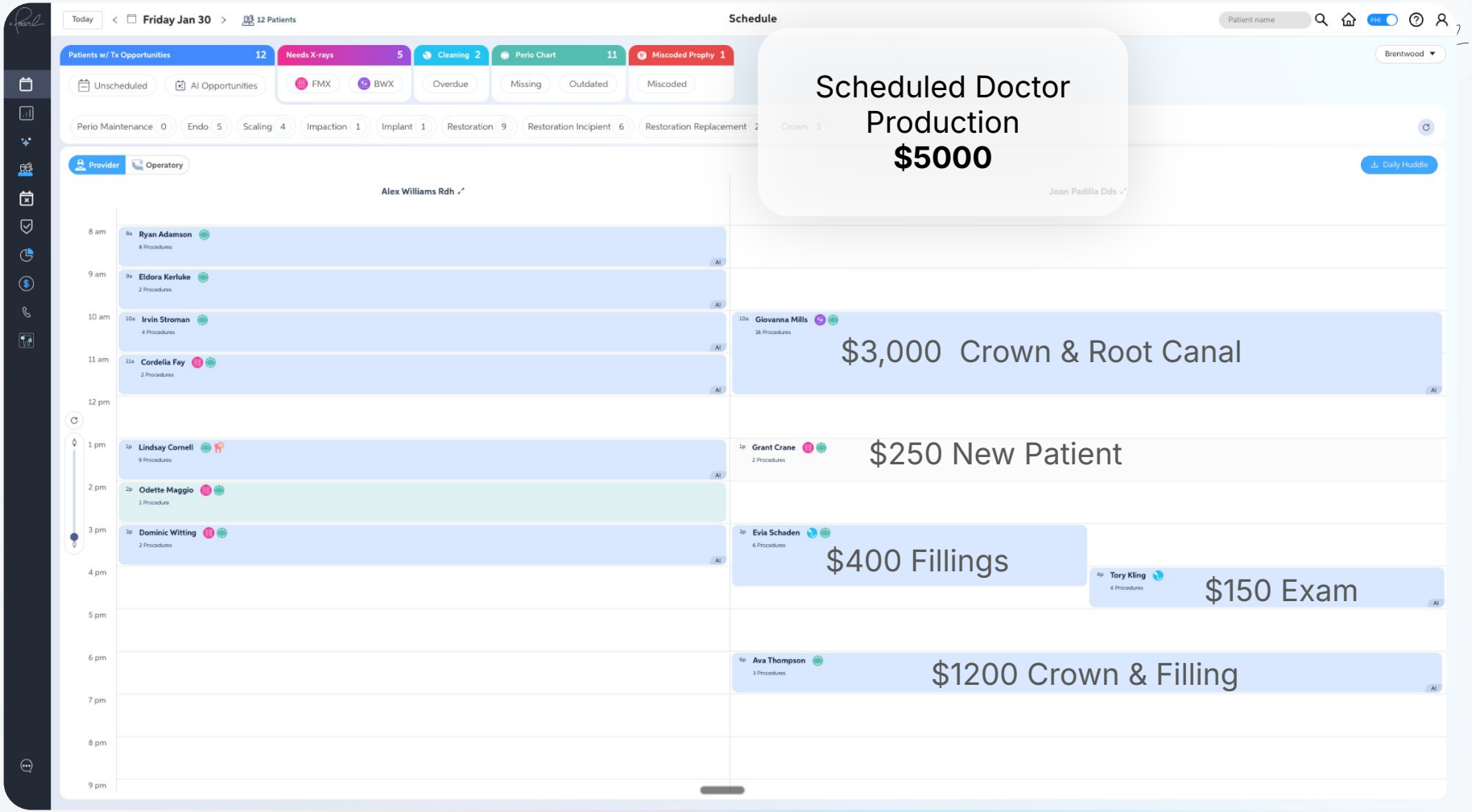


We Appreciate Your Support!



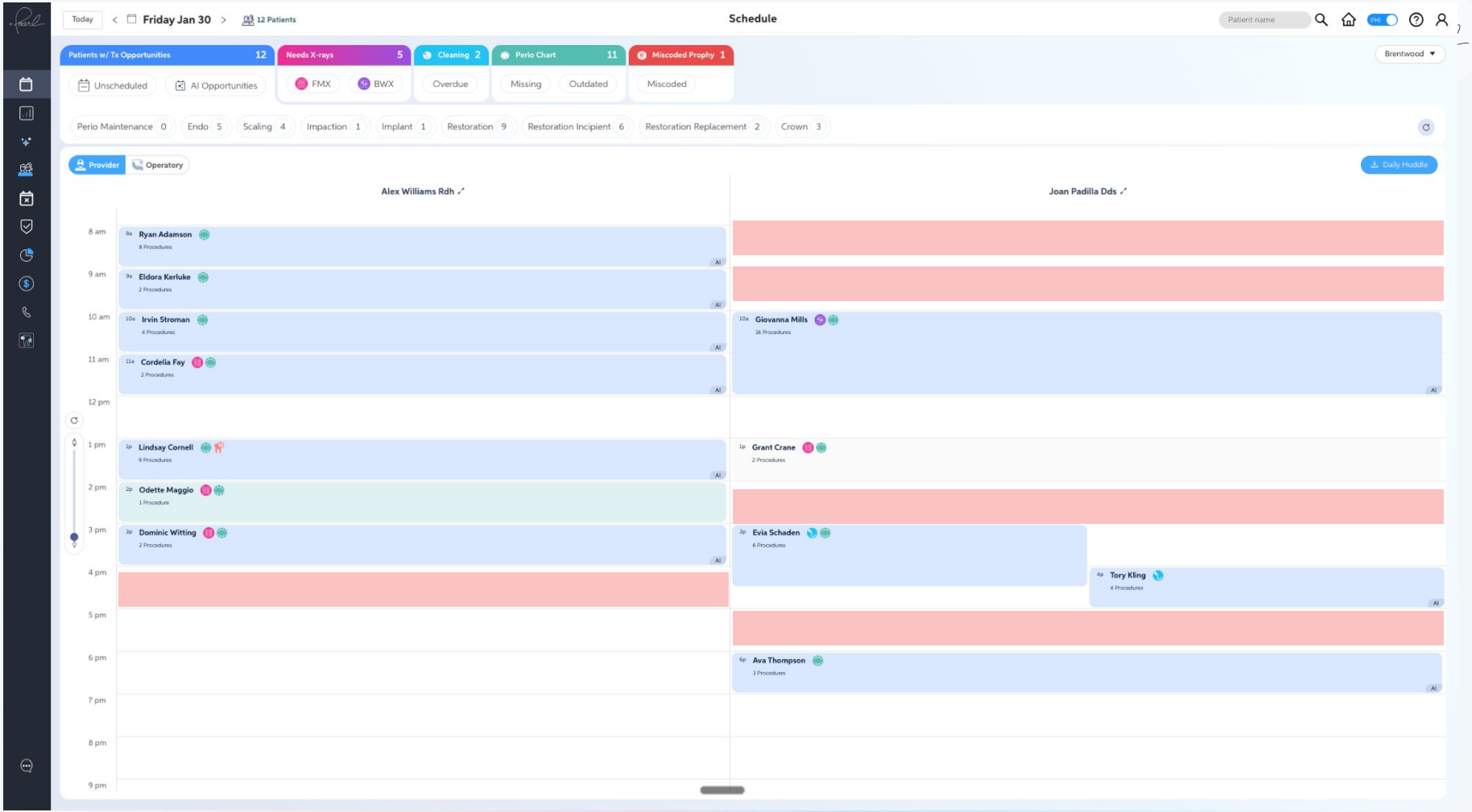
Enhanced Schedule

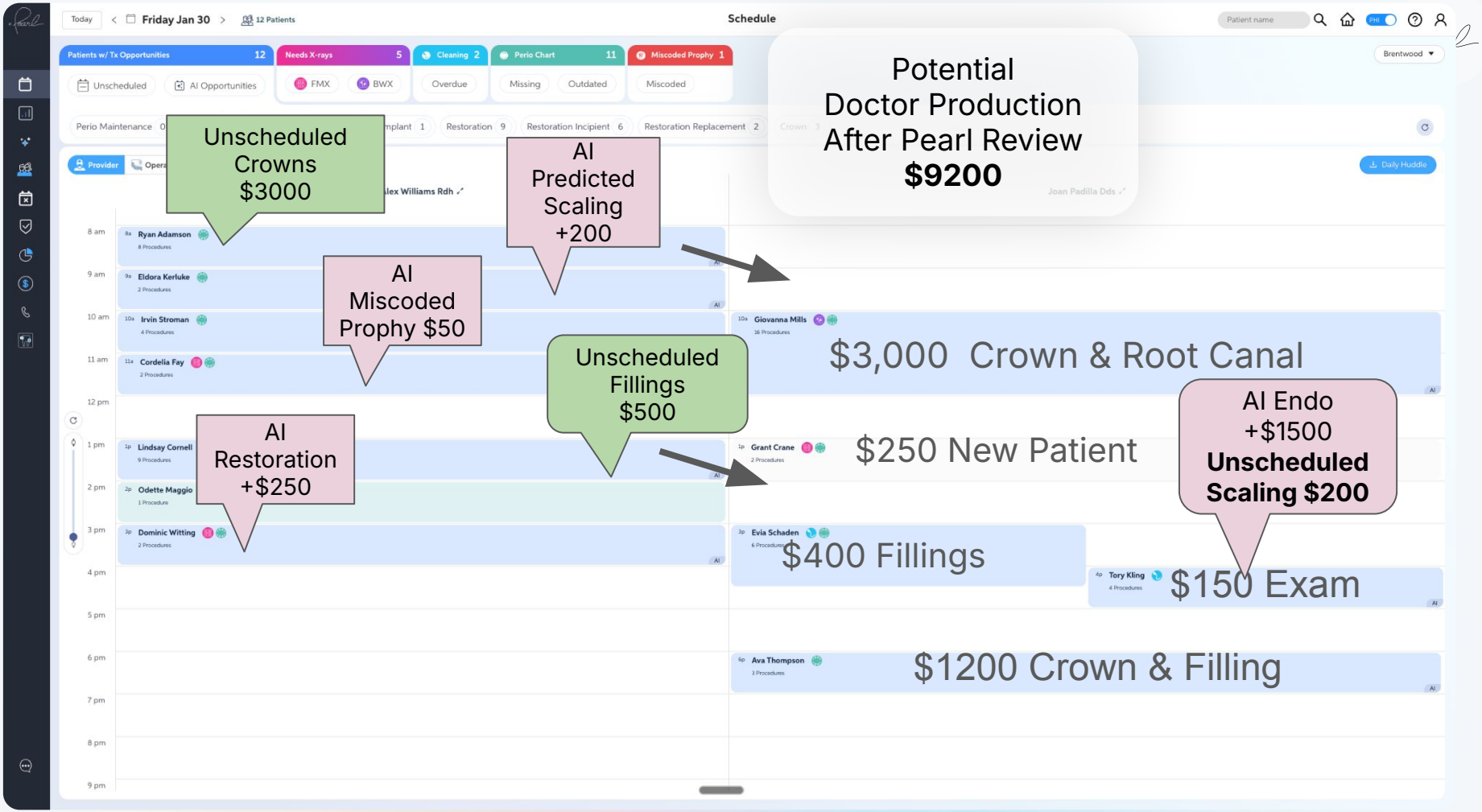

Today
Friday Jan 30
12 Patients
Schedule
Patient name
PHI
Patients w/ Tx Opportunities 12
Needs X-rays 5
Cleaning 2
Perio Chart 11
Miscoded Prophy 1
Brentwood
Unscheduled
AI Opportunities
FMX
BWX
Overdue
Missing
Outdated
Miscoded
Perio Maintenance 0
Endo 5
Scaling 4
Impaction 1
Implant 1
Restoration 9
Restoration Incipient 6
Restoration Replacement 2
Crown 3
Provider
Operatory
Daily Huddle
Alex Williams Rdh
Joan Padilla Dds
8 am
9 am
10 am
11 am
12 pm
1 pm
2 pm
3 pm
4 pm
5 pm
6 pm
7 pm
8 pm
9 pm
8a Ryan Adamson
8 Procedures
AI
9a Eldora Kerluke
2 Procedures
10a Irvin Stroman
4 Procedures
11a Cordelia Fay
2 Procedures
10a Giovanna Mills
16 Procedures
1p Lindsay Cornell
9 Procedures
1p Grant Crane
2 Procedures
2p Odette Maggio
1 Procedure
3p Dominic Witting
2 Procedures
3p Evia Schaden
6 Procedures
4p Tory Kling
4 Procedures
6p Ava Thompson
3 Procedures



Scheduled Doctor Production
$5000

What Pearl Sees


Today
Friday Jan 30
12 Patients
Schedule
Patient name
PHI
Patients w/ Tx Opportunities 12
Needs X-rays 5
Cleaning 2
Perio Chart 11
Miscoded Prophy 1
Brentwood
Unscheduled
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Restoration Replacement 2
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Daily Huddle
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8 am
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12 pm
1 pm
2 pm
3 pm
4 pm
5 pm
6 pm
7 pm
8 pm
9 pm
8a Ryan Adamson
8 Procedures
9a Eldora Kerluke
2 Procedures
10a Irvin Stroman
4 Procedures
11a Cordelia Fay
2 Procedures
1p Lindsay Cornell
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2p Odette Maggio
1 Procedure
3p Dominic Witting
2 Procedures
10a Giovanna Mills
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1p Grant Crane
2 Procedures
3p Evia Schaden
6 Procedures
4p Tory Kling
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6p Ava Thompson
3 Procedures
AI


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Unscheduled
AI Opportunities
FMX
BWX
Overdue
Missing
Outdated
Miscoded
Brentwood
Perio Maintenance
Restoration 9
Restoration Incipient 6
Restoration Replacement 2
Provider
Daily Huddle
Unscheduled Crowns $3000
AI Predicted Scaling +200
AI Miscoded Prophy $50
Unscheduled Fillings $500
AI Restoration +$250
Potential Doctor Production After Pearl Review $9200
AI Endo +$1500 Unscheduled Scaling $200
8 am
9 am
10 am
11 am
12 pm
1 pm
2 pm
3 pm
4 pm
5 pm
6 pm
7 pm
8 pm
9 pm
Ryan Adamson
Eldora Kerluke
Irvin Stroman
Cordelia Fay
Lindsay Cornell
Odette Maggio
Dominic Witting
Giovanna Mills
Grant Crane
Evia Schaden
Tory Kling
Ava Thompson
$3,000 Crown & Root Canal
$250 New Patient
$400 Fillings
$150 Exam
$1200 Crown & Filling