

CASE STUDY

A Stability-First Approach to Final Restoration of Two Anterior Implants

How InnerView's Quantitative Data Guided Implant Restoration Planning



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Welcome to the New Standard in Diagnostics

At Perimetrics, we believe that better diagnostics lead to better outcomes. From implants to natural teeth, the earlier you can detect subtle changes in stability, the more confidently you can treat—and the longer your work will last.

This case study collection was created to showcase real clinical examples where Quantitative Percussion Diagnostics (QPD) changed the course of treatment, revealed hidden risks, and helped clinicians take proactive steps before failure occurred.

Whether you're looking to improve patient care, reduce costly complications, or enhance your diagnostic confidence, InnerView delivers the insights traditional tools often miss—non-invasively and in just seconds.



Explore what's possible when you can see beneath the surface.



Objective Implant Stability Assessment in Anterior Restorations

* The information in this case study pertains to future capabilities, currently under clinical evaluation - Not yet FDA cleared.

Patient Overview

A 40 year old male patient had a root fracture on tooth #7 and severe resorption on tooth #9. Both were terminal. The teeth were extracted and immediate implants were placed and tested with QPD.

Implant #7 had a mobility score of 27 and implant #9 had a mobility score of 19. Both were well osseointegrated.

The patient disappeared from the practice for 10 years. He reappeared at the practice and wanted to go to final restorations. Four anterior teeth were to be restored.

The implants were tested on impression abutments 10 years after being provisionalized and the results were surprising.

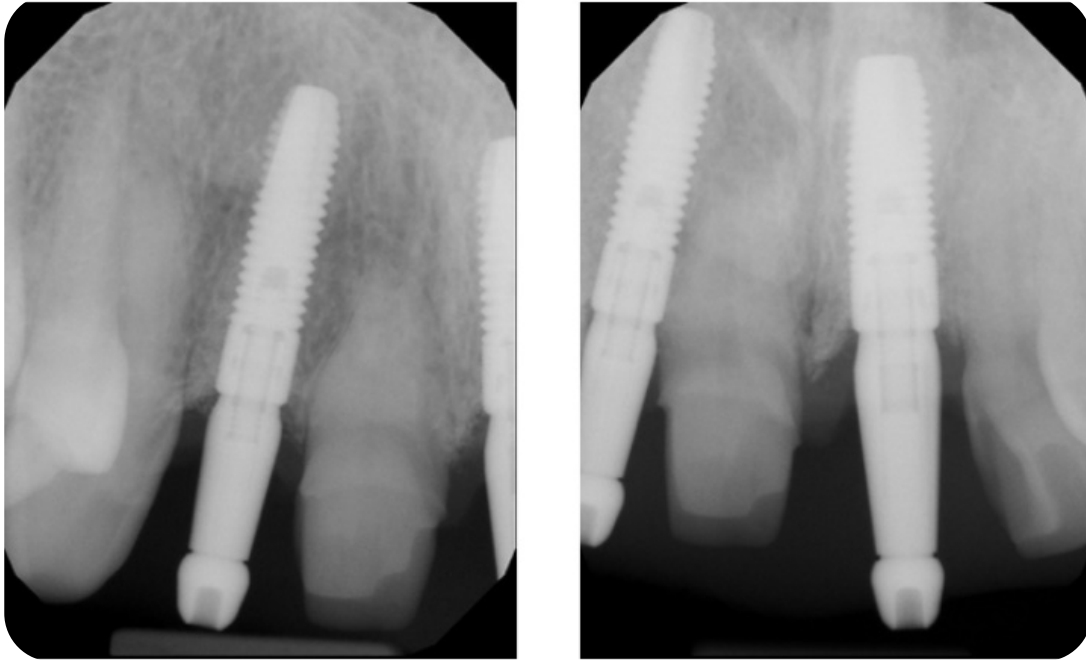
Both implants now tested at a 73 mobility showing poor osseointegration.

Assessing Implant Stability with InnerView

The InnerView System was used to quantify implant mobility before final restorations. InnerView provides two key metrics:

- Mobility Score (FDA Cleared in 2023) – Measures overall implant movement which helps in evaluation of osseointegration.
- Normal Fit Error (NFE) – Measures localized mobility within an implant complex (not yet FDA cleared).

Standard periapical radiographs showed well-placed implants with adequate bone support. However, these conventional imaging techniques provide only a static assessment and do not measure functional stability.



While X-rays confirm bone presence, they do not measure functional osseointegration or detect micro-mobility. InnerView provided a quantifiable assessment that revealed hidden stability concerns—offering objective data that traditional diagnostics could not.



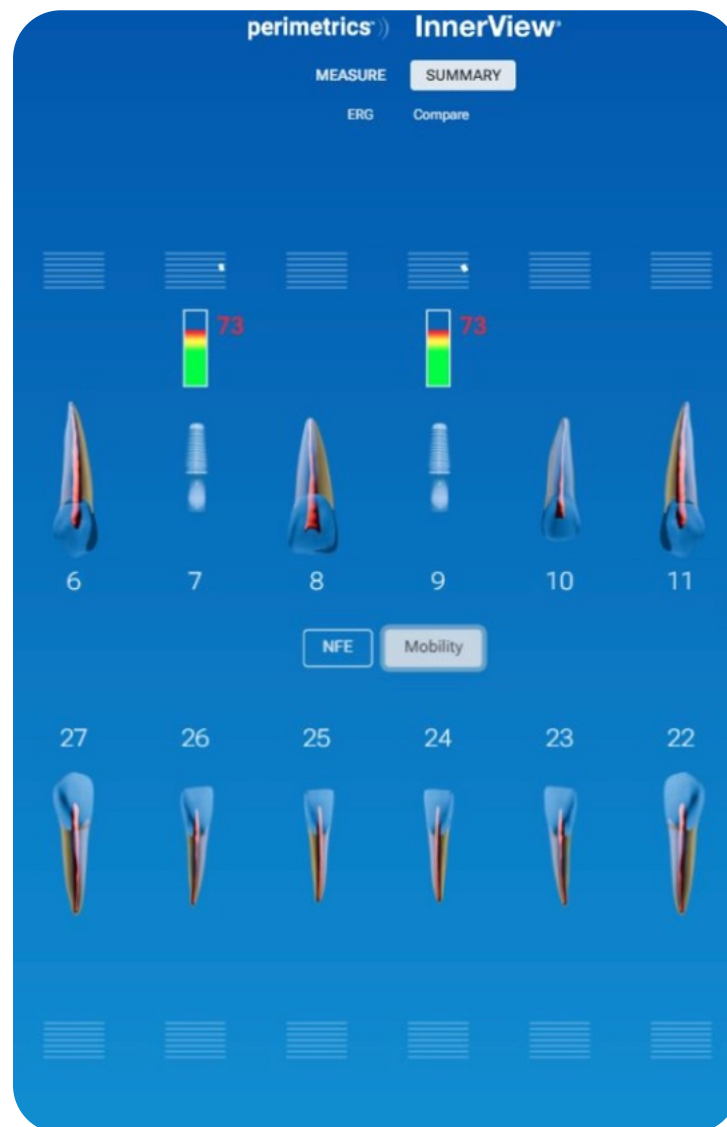
InnerView Results: What Did It Show?

InnerView testing revealed higher-than-expected Mobility Scores, suggesting weaker osseointegration than anticipated. InnerView Mobility Scores (based on internal data):

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- ✓ Ideal Stability: Below 51
- ✓ Moderate Stability: 52-57
- ✓ Weak Stability: Above 57

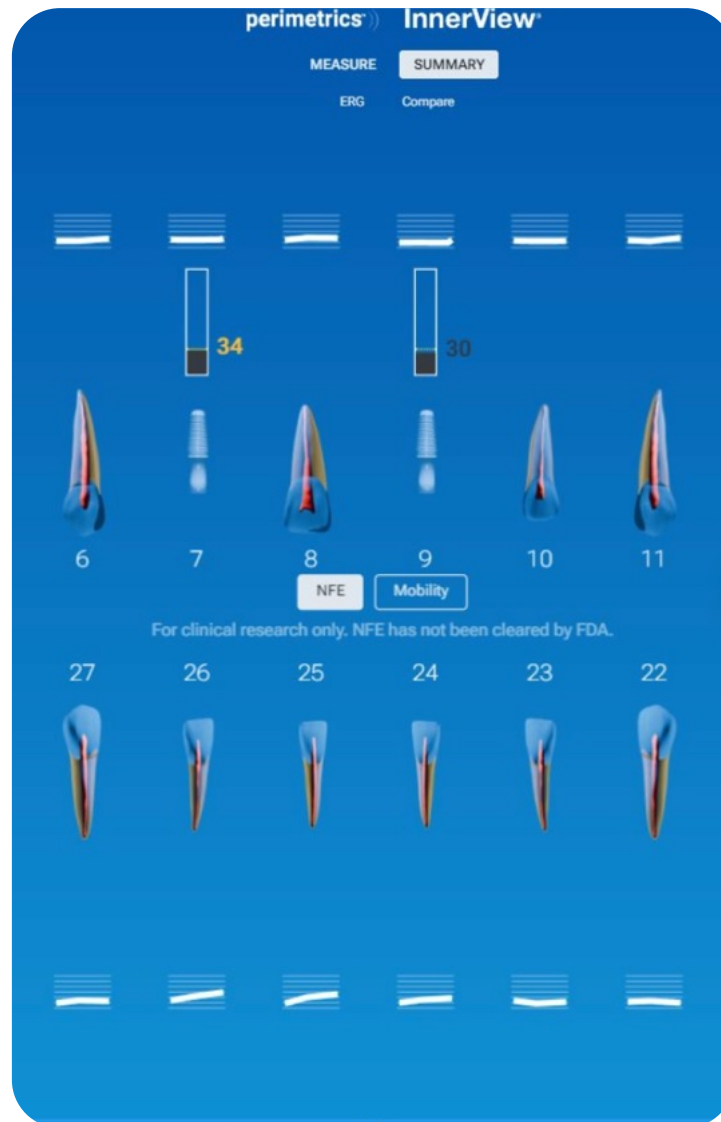
Both implants measured 73, indicating weaker osseointegration than expected, despite appearing stable on radiographs.



Pre-treatment InnerView assessment of #7 and #9, showing elevated Mobility Scores of 73, indicating weaker-than-expected osseointegration.

InnerView NFE Scores

✓ Low NFE scores indicated well-seated impression abutments with no localized structural issues. This confirmed that implant mobility was due to bone quality, not hardware internal mobility.



This InnerView screen shows that there was no significant mobility between the implant fixture and the impression copings during the testing.

Impact of InnerView Data On treatment Planning

With objective InnerView data, the clinician had new treatment insights:

Delay Final Restorations: Keep provisional restorations longer to allow additional osseointegration.

OR

Do Final Restorations:

- Create an occlusal scheme that does not overload the implants and lighten occlusal load to reduce stress.
- Protect with an Occlusal Splint. Provide a protective occlusal guard to mitigate bruxism-related forces.

Why This Matters

Traditional methods—such as manual tapping with a mirror handle or reverse torque testing—are subjective and risk compromising implant stability. InnerView delivers quantitative data using non-invasive technique, removing guesswork and guiding evidence-based treatment decisions.

InnerView is redefining implant care by providing real-time quantitative data—helping clinicians detect weaknesses before failure occurs.

Key Takeaways

- ✓ Early Detection Before Symptoms Appear – InnerView identified osseointegration weakness not visible on X-rays.
- ✓ Minimally Invasive Intervention – Prevented unnecessary risks associated with reverse torque testing.
- ✓ Proactive Implant Monitoring – InnerView supports long-term tracking for early intervention and better clinical outcomes.

A data-driven approach to implant assessment allows clinicians to track implant integrity in real time—enabling early intervention and reducing long-term complications. This methodology ensures more predictable outcomes by measuring the micromobility of the implant and supports long-term patient care.

ABOUT THE AUTHOR

Cherilyn Sheets, DDS

Dr. Cherilyn Sheets is an internationally recognized educator, clinician, author, and lecturer. She is Co-Executive Director of the Newport Coast Oral Facial Institute, Chief Clinical Officer for Perimetrics, former Clinical Professor of Restorative Dentistry at the USC School of Dentistry, and a Past President of the American Academy of Esthetic Dentistry and the American Association of Women Dentists.

A Fellow of multiple prestigious academies, Dr. Sheets has authored over 100 articles, co-authored textbook chapters, and received honors including the Gordon Christensen Award for Excellence in Lecturing and USC's Alumnus of the Year Award.

She co-leads research on dental implants and cracked teeth at UCI's School of Engineering and is the Founder of The Children's Dental Center and the National Children's Oral Health Foundation.



"InnerView will advance how we can diagnose mobility in teeth, helping clinicians improve patient outcomes."

- Cherilyn Sheets, DDS & Co-Founder, InnerView

The Future of Dental Diagnostics

This case demonstrates how InnerView provided insights not possible with traditional methods - thereby enabling earlier detection, better decision-making, and improved outcomes.

InnerView enables clinicians to:

- ✓ Identify areas of potential concern before clinical symptoms appear
- ✓ Make more informed, data-driven treatment decisions
- ✓ Monitor long-term implant stability

Want to learn more about how InnerView can transform your practice? [Book a 10 minute demo today!](#)



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See InnerView in action—scan to book a demo!

