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InnerView®

CASE STUDY

Early Detection of Implant Instability in a 75 year old patient

Quantitative Data Reveals Hidden Implant Risks Before Symptoms Appear

perimetrics InnerView®

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.

Identifying Implant Complications Before Failure

Case Study Snapshot

PATIENT:
75 year old male

HISTORY:
Loose crown on #13; InnerView revealed hidden instability at implant #14i

VISIT TYPE:
Routine hygiene exam

TECHNOLOGY USED:
InnerView, radiographs, clinical exam

FINDINGS:
Loose crown on #13; InnerView revealed hidden instability at implant #14i

OUTCOME:
Abutment screw re-torqued (#14i), NFE reduced from 162 → normal range; implant stability restored, preventing failure

*Note: NFE (Normalized Functional Energy) is a proprietary metric used by InnerView to quantify micromobility in teeth and implants — one of the earliest indicators of potential structural risk.

Identifying Implant Complications Before Failure

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

Routine Recall Reveals Subtle Risk

A 75-year-old male presented for a routine hygiene visit. Though asymptomatic, a loose crown on #13 raised concerns. Radiographs and visual exam confirmed mobility but did not explain the underlying issue threatening implant stability.

With InnerView, Dr. Howard Golan detected an early-stage implant complication that was otherwise undetectable. This case demonstrates how InnerView's quantitative percussion diagnostic technology can reveal implant instability before catastrophic failure occurs.

Initial Clinical Findings

Patient Condition:

✓ Loose #13 with no symptoms
✓ Poorly adapted crown on #13
✓ Generalized perio inflammation & bone loss tooth #14
✓ Slight bone defect with calculus on #14

Initial Treatment Plan:

✓ Splinted PFM crowns on #12 and #13 to stabilize mobility
✓ Implant maintenance for #14

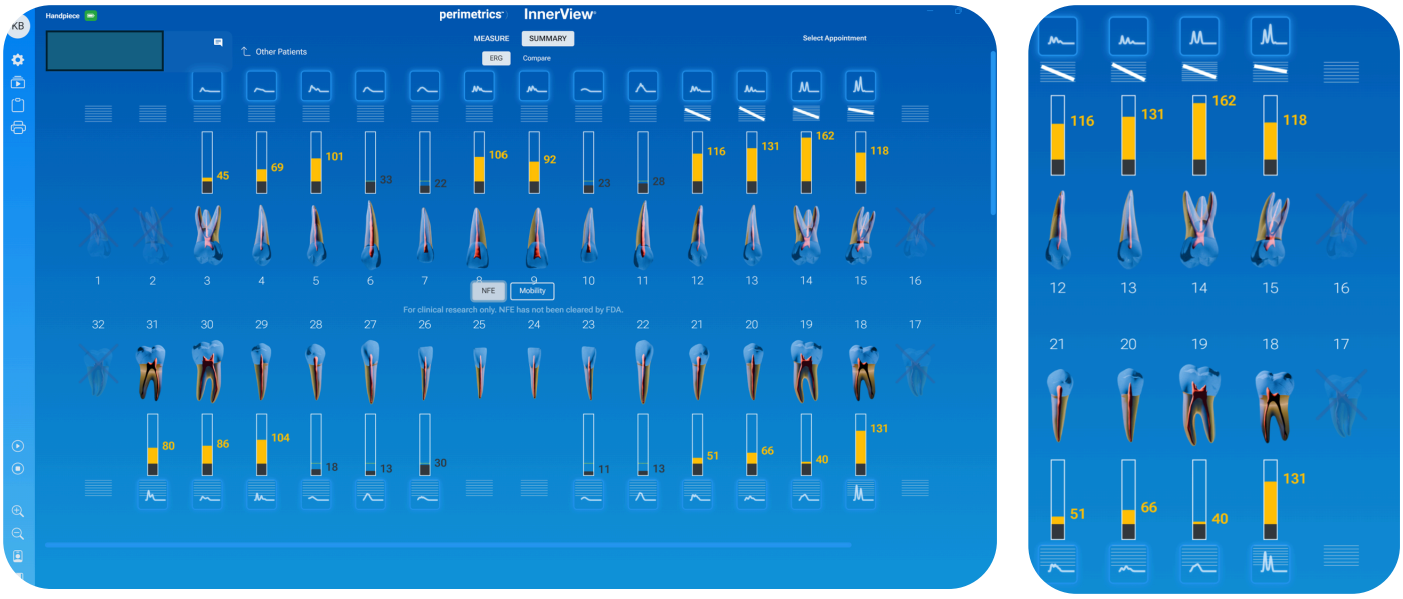
InnerView Detects Hidden Instability at #14i

During the evaluation, InnerView measurements confirmed the expected mobility of #13 but also uncovered an unexpected finding—implant instability at #14i.

- InnerView NFE Score for #14i: 162 (Extremely high, indicating structural instability in the implant complex)
- Multiple peaks in the diagnostic readout suggested an underlying issue before clinical symptoms appeared

Overall mobility scores were in the normal ranges.

Initial Mobility Test Result



Initial NFE Test Result

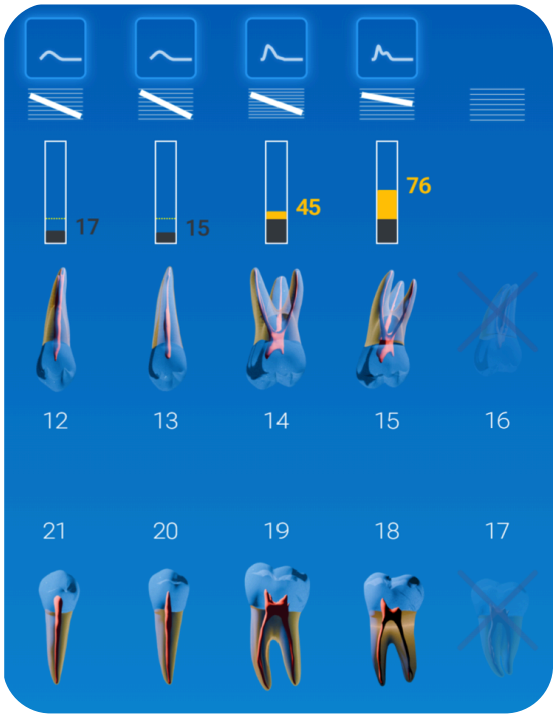
The NFE score for #14i was very high.

Intervention Guided by InnerView

Dr. Golan removed the screw channel composite and re-torqued the abutment screw on #14i to 32NCM. Following this minor adjustment, a second InnerView measurement revealed:

- Significant reduction in NFE scores
- Restoration of implant stability
- Prevention of potential implant failure

This result strongly suggests that the abutment screw was in the early stages of loosening, and had it gone undetected, the patient could have faced costly implant failure and irreversible bone loss.



NFE Test Results Post Adjustment

Key Takeaways

- InnerView identified hidden implant instability not visible clinically or radiographically
- NFE data guided a simple, minimally invasive correction
- Objective metrics validated restored implant stability
- Routine InnerView monitoring supports proactive implant maintenance

InnerView is changing the standard of care, giving dentists the ability to track implant integrity in real time - before it's too late.

Want to see InnerView in action? Book a 5 minute demo today!

ABOUT THE AUTHOR

Howard Golan, DDS

Dr. Howard Golan has been practicing at Golan Family Dentistry since 1998, when he joined his father in their family-owned practice.

He earned his dental degree from the University of Michigan School of Dentistry and completed a general practice residency at North Shore University Hospital (NSUH) in New York. He went on to complete a two-year Implant Surgery and Advanced Prosthetic Fellowship at NSUH.

A Mastership-certified member of the World Clinical Laser Institute since 2004, Dr. Golan incorporates laser technology into his procedures whenever possible and lectures on laser-assisted dentistry across the U.S. and Canada.

He is the co-founder of the Center for Laser Education and a faculty member with the World Clinical Laser Institute. He also leads the Laser Assisted Dentistry program at NSUH, where he supervises clinical training for dental residents.

Dr. Golan is a graduate of the Alleman-Deliperi Center for Biomimetic Dentistry and is passionate about delivering tooth-conserving care. He also holds a law degree from Concord Law School and is a member of the California Bar.

The Future of Dental Diagnostics

This case demonstrates how InnerView provided real-time clarity when traditional diagnostics showed no clear issue—helping the clinician rule out implant complications, avoid unnecessary intervention, and reinforce patient trust.

With InnerView, clinicians can:
✓ Detect early-stage instability before symptoms appear
✓ Make more informed, data-driven treatment decisions
✓ Monitor trends in tooth and implant stability over time

Want to learn more about how InnerView can transform your practice? Book a 5 minute demo today!

BOOK A DEMO

See InnerView in action—scan to book a demo!!