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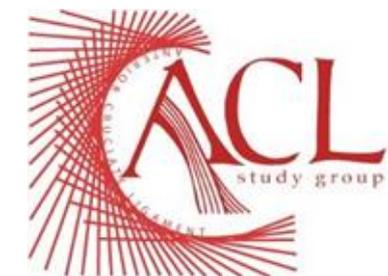


MEDICAL COMMITTEE
PRESIDENT



Moisés Cohen, MD., PhD

Full Professor of Orthopedic and Sports Medicine
Department of the Federal University of São Paulo



President 2024- 2026



How AI Transformed My Medical Practice

- A short journey from playful curiosity to evidence-based transformation in my practice.
- Discover practical tools that enhanced patient care, clinical documentation, and scientific rigor
- Always keeping the human touch at the center.

THE BEGINNING

It All Started as a Game

- Every transformative journey begins with a simple moment of curiosity.
- Pure entertainment opened an unexpected door.
- The same creativity that brought joy to my family could revolutionize how we communicate medicine.



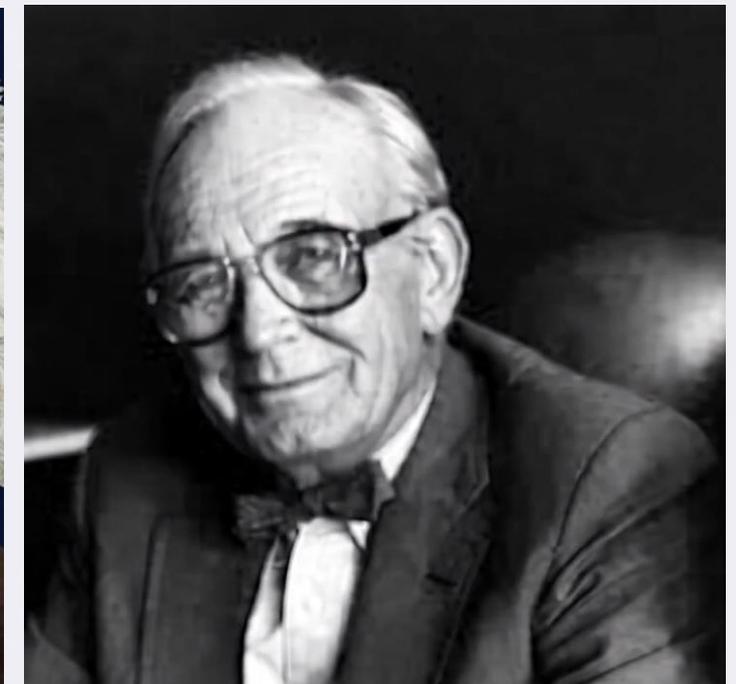
From Entertainment to Educational Storytelling

Bringing History to Life

Using AI to recreate voices and presence of pioneers for educational tributes and historical context

Emotional Connection

Stories that honor the past while teaching the present—colleagues began requesting similar content for their own teaching



The Power of Narrative

Medical education transformed when we combine evidence with compelling storytelling that resonates emotionally



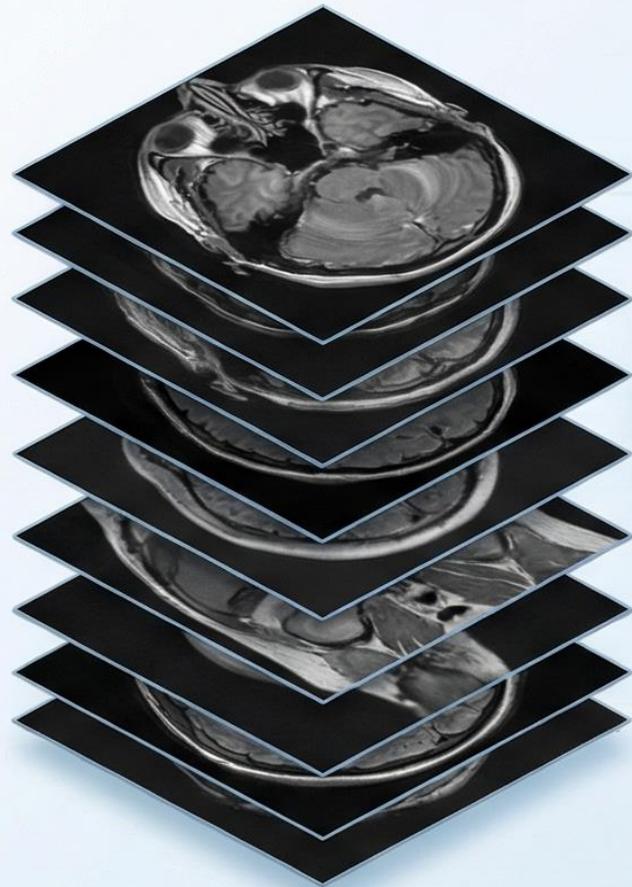
Hollywood-Level Production Meets Medical Education

- The image quality in medicine is very important to engage drives learning
- High-quality visual is strategy to engage the audience
- **The medium amplifies the message.**
- Professional production removes barriers to learning.



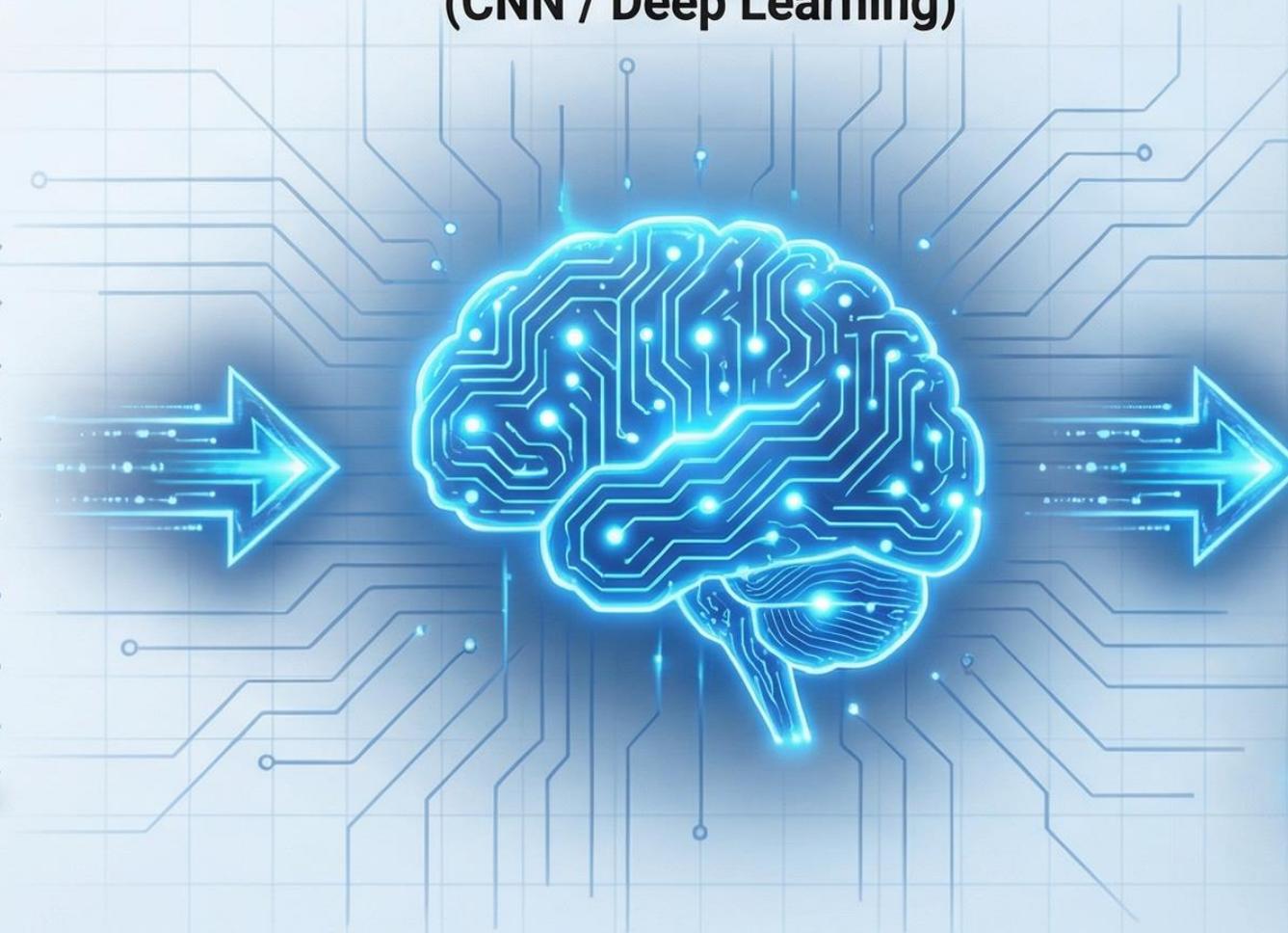
From 2D Scans to 3D Insights: The AI Reconstruction Pipeline

**INPUT: STANDARD
2D MRI SLICES**



Standard clinical DICOM files, which are stacks of 2D images.

**AI PROCESSING
(CNN / Deep Learning)**



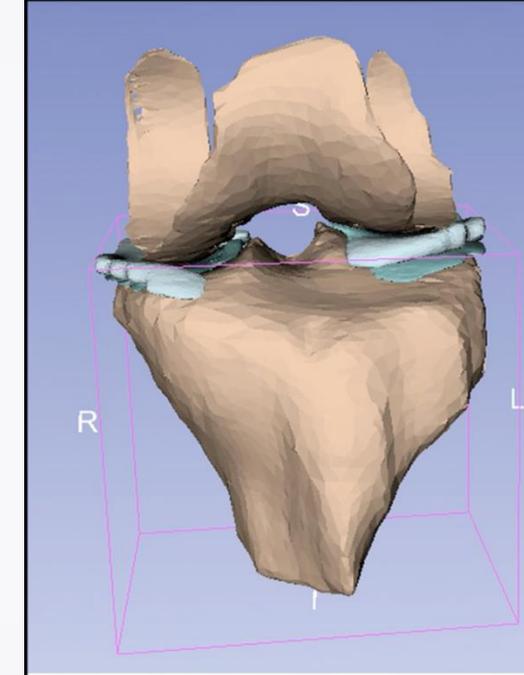
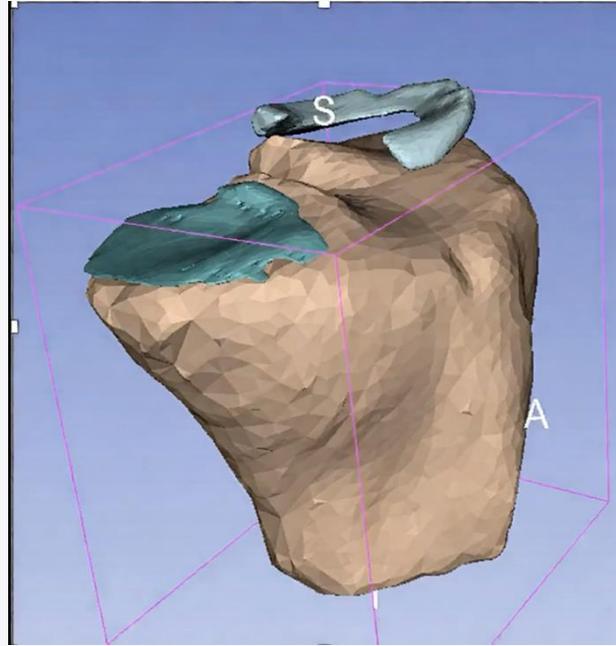
A Convolutional Neural Network (CNN) analyzes each slice to automatically identify and segment anatomical structures.

**OUTPUT: 3D VOLUMETRIC
ANATOMICAL MODEL**

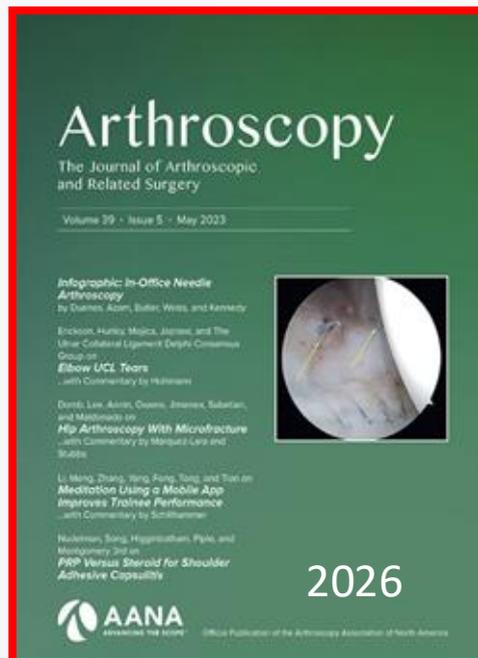


The segmented slices are compiled to create a precise, interactive 3D model of the joint.

SCIENCE, LEARNING AND RESEARCH



3D models – Prediction of ACL Lesion



Distinct 3D Anatomic Patterns Including Flatter Surfaces and Greater Sagittal Inclinations of Intra-Articular Structures Are Reliably Identified Through an Artificial Intelligence-Based Pipeline in ACL Injured Knees.

Oliver Meyer^{1,2}, MD; Joicemar Tarouco Amaro^{1,3}MD, PHD; Camila Kaleca^{1,3}MD, PHD; Pedro Debieux^{1,3}MD, PHD; Nilton Gomes Filho^{1,3}MD; Moises Cohen^{1,3}MD, PHD



THE PIVOT TO SCIENTIFIC RIGOR



More than beautiful videos, Medicine requires uncompromising scientific integrity.
This is where AI revealed its most valuable application.



AUTOMATED DETECTION

Detects inconsistencies, contradictions, & gaps in clinical reasoning BEFORE reaching patients.



PROPER ATTRIBUTION

Ensures research & educational content maintains academic standards.



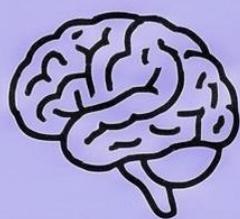
SYSTEMATIC MANAGEMENT

Manages literature across projects with instant retrieval & citation verification.



CLEAR DIFFERENTIATION

Differentiates between peer-reviewed evidence & expert opinion—transparency in knowledge hierarchy.



CRITICAL PRINCIPLE: AI does not replace clinical judgment.
Human verification and governance are mandatory.
Every output requires expert review.



CLINICAL IMPACT: The Daily Practice Transformation

Returning to Patient-Centered Care with AI

BEFORE AI IMPLEMENTATION



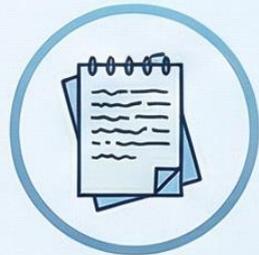
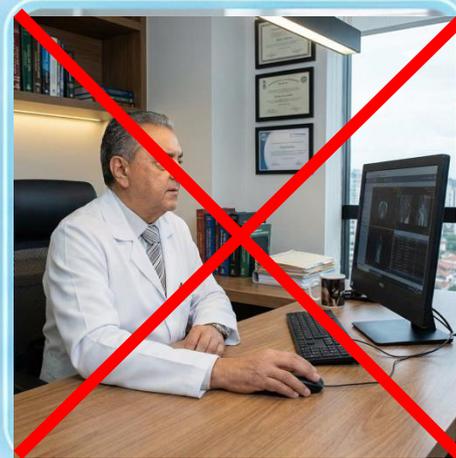
40% Time Typing,
Admin Burden



Eyes on Screen,
Not Patient



Delayed
Documentation,
Memory Gaps



Inconsistent
Note Structure



Mental Fatigue,
Burnout

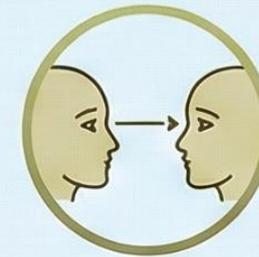


Reduced Patient
Education Time

AFTER AI IMPLEMENTATION



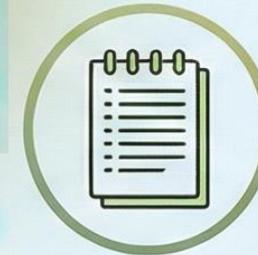
Natural
Conversation
Flows
Uninterrupted



Direct Eye
Contact,
Engaged Visit



Real-Time
Documentation
Capture



Specialty-Specific
Structured Notes



Energy Focused
on Clinical
Reasoning



More Time
Explaining Diagnosis
& Treatment



The difference isn't just efficiency—it's returning to why we became physicians.
To connect with patients, not computers.

THE AUTOMATED CLINICAL SYSTEM: STREAMLINING DOCUMENTATION

NATURAL CONVERSATION

- Physician & patient speak naturally; system records without intrusion.

INTELLIGENT TRANSCRIPTION

- Speech converted to specialty-specific structured format (ACL, trauma, arthroplasty templates).

MULTILINGUAL SUPPORT

- Automatic translation enables documentation in any language without workflow disruption.

SAFETY CHECKLIST

- System suggests differential diagnoses and relevant tests as verification prompts—never as mandates.



The entire consultation is patient-focused—examining the knee, discussing concerns, explaining options. The scribe captures everything. After the patient leaves, review the generated note, make clinical adjustments, and approve. What once took 15 minutes of post-visit typing now takes 2 minutes of review.



PRINCIPLE: The system suggests, but never decides. Every hypothesis and test recommendation requires physician verification.

Ethics, Privacy, Security, and Governance in AI Healthcare



Patient Privacy

Full HIPAA compliance, encrypted transmission, no cloud storage of identifiable data without explicit consent.



Informed Consent

Patients informed about AI use in documentation; opt-out always available without affecting care quality.



Data Security

Local processing options, audit trails, access controls, regular security assessments.



Bias Mitigation

Regular audits for algorithmic bias, diverse training datasets, transparency in system limitations.



Clinical Responsibility

Physician remains solely responsible for all clinical decisions; AI outputs are suggestions requiring verification.



Governance Framework

Institutional oversight, regular quality reviews, continuous improvement protocols, mandatory human verification.



Non-negotiable principle: AI augments clinical practice but never replaces the physician-patient relationship, clinical judgment, or professional responsibility. Every system output requires expert human review.

65%



Time Saved

Reduction in documentation time per patient encounter, returning time to direct patient care.

40%



Quality Improvement

Increase in note completeness and standardization across cases.

3X



Educational Output

Growth in teaching materials produced, from lectures to patient education resources.

92%



Patient Satisfaction

Positive feedback regarding physician attention and communication during visits.



Beyond Metrics: The Real Transformation



- Returning home with energy for family, having mental space for complex clinical reasoning.



- Rediscovering the joy of medicine. Looking patients in the eye instead of at a screen. Teaching residents without documentation fatigue.



My Learning Commitment

Since March, maintained formal AI training twice weekly (Tuesday & Thursday, 6-9 AM) with a dedicated instructor. This is systematic professional development ensuring responsible, informed implementation.

The Future of Medicine: Guiding AI & Reclaiming Humanity

The question isn't *if* AI will change medicine—it already has.
The challenge is guiding this change responsibly.



Using Technology to Reclaim Our Humanity:

- *Spend more time with patients.*
- *Think more deeply about complex cases.*
- *Teach the next generation.*
- *Return home with energy for our families.*



Empowering Medicine, Enhancing Life.



IA WhatsApp



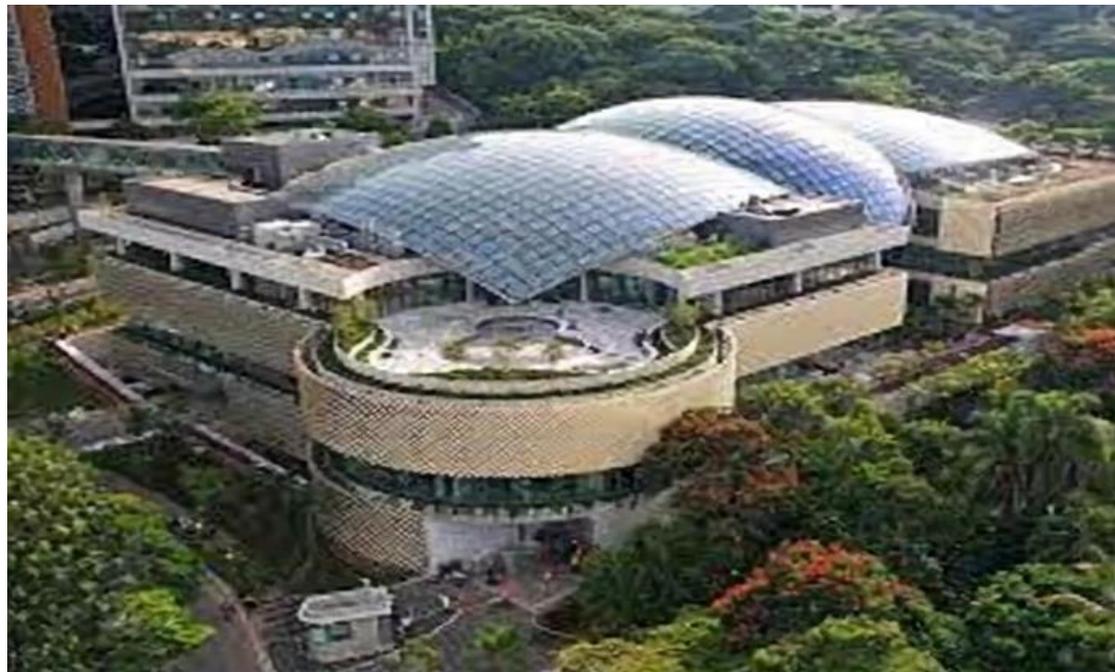
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Thank You