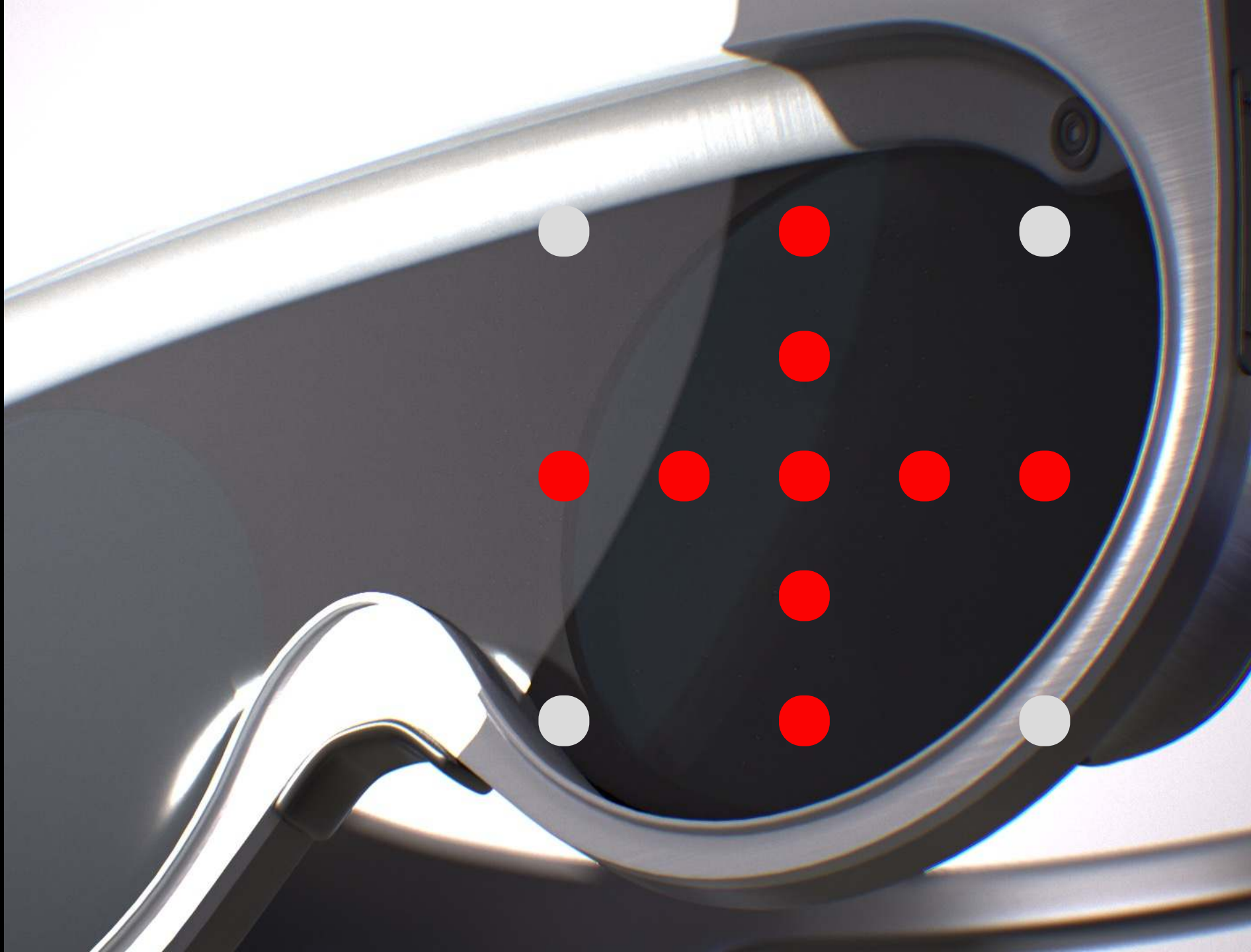




NYU Langone Health

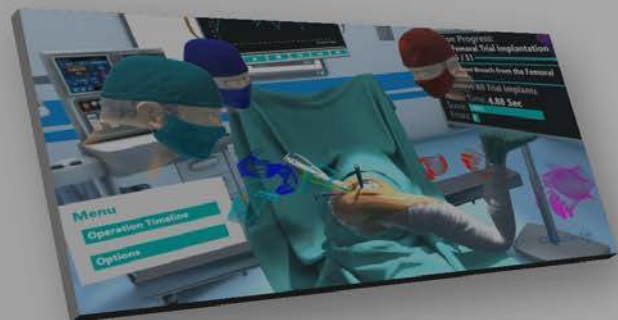
NYU Langone Health: One of the largest Healthcare systems in the Northeast

ACCELERATING THE WORLD'S
TRANSITION TO MEDICAL XR TRAINING.





The Effectiveness of VR Surgical Training



NEW YORK UNIVERSITY

“Very nice experience and it will be very fruitful for young surgeons. It’s a great tool and helpful for the training!”

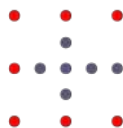
Lazaros A. Poultsides, MD, MSc, PhD,
NYU Medical Associate



THE CHALLENGE

Enhance surgical training for orthopaedic residency.

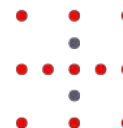
- Clinically validate **VR surgical training** for **psychomotor** skills.
- **Improve** PGY-1 orthopaedic resident **training** using **immersive VR**.
- Improve **surgical skills** and knowledge in **Total Hip Arthroplasty**.



THE SOLUTION

Cutting-edge Total Hip Arthroplasty simulation with **MAGES SDK**.

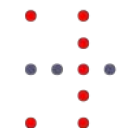
- **Innovative** Total Hip Arthroplasty VR Simulation with **MAGES SDK**.
- **Cutting-edge** collaborative training for **enhanced learning** experience.
- Real-time **analytics** and **error detection** for optimal **assessment**.



THE INNOVATION

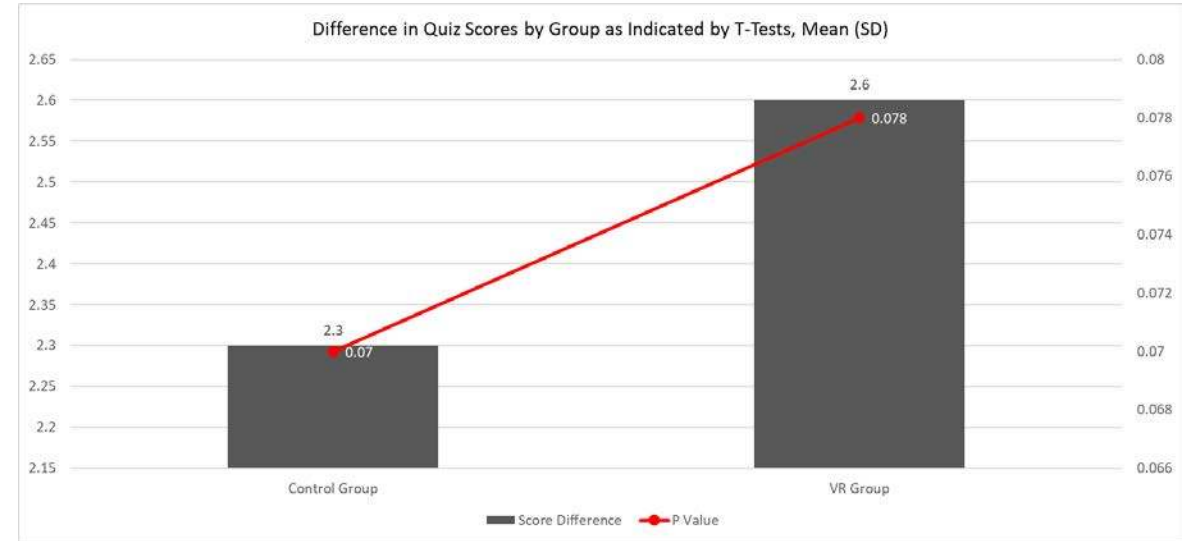
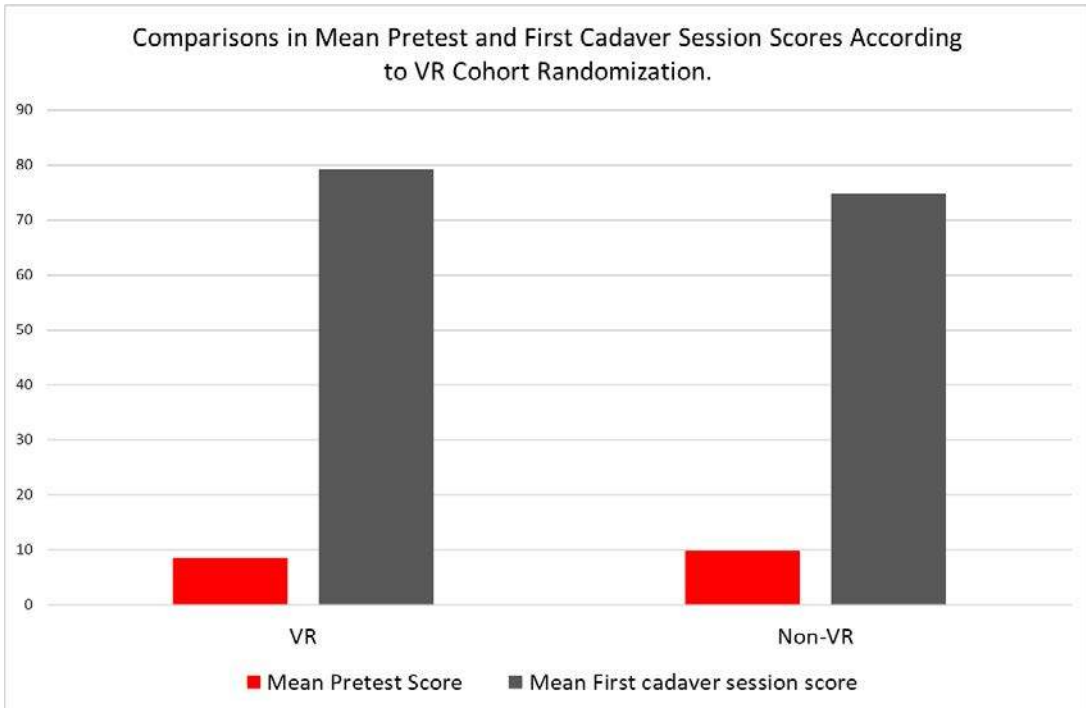
Revolutionary VR Clinical Trial: **8% Improvement in PGY-1 Surgical Skills**.

- Easily **modify** and **extend** simulations with the **MAGES SDK**.
- **8%** improvement in PGY-1 in **just 2 sessions** ([Journal of Arthroplasty](#)).
- NYU and ORamaVR receive prestigious [AAHKS Fare Grant Award](#).
- **First-ever collaborative VR surgical training**, connecting 4 reputable Medical schools.



Impact of VR Training on Cadaver Session Scores: A Comparative Analysis

The study found no baseline differences in knowledge or surgical skills between cohorts. However, **VR training significantly improved participants' performance during cadaver sessions by 18 points, leading to better skill development .**



Assessing the Effectiveness of VR Training on Quiz Scores: A Group Comparison

VR training showed positive trend in written quiz performance, suggesting theoretical knowledge acquisition potential. **Further research with larger sample sizes may be needed to establish a significant correlation.**

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| | ORamaVR | Competition |
|---------------------------------------|---|---|
| Distribution & Licensing | ORamaVR Launcher | Competition's Distribution Hub |
| Admin Overview | ORamaVR Portal | Competition's Dashboard |
| Analytics | Errors, Critical Errors, Warnings, Score per action, Total score, Time per action/module | Pass/Fail Results, Elapsed time per step/module, Total number of steps passed |
| Multiplayer | ✓ | ✓ |
| Hardware Agnostic | PC (Windows, MacOS), iOS, Android, Universal XR (Quest, Vive, Pico), Magic Leap, Hololens, Apple Vision Pro Collaborate seamlessly across diverse devices in a shared XR environment | PC, Quest, Focus 3 |
| XR App Client Ownership | ✓ | ✗ |
| Extend/Modify/Update the Final XR App | Free Includes 1-year MAGES SDK for professionals subscription | ✗ |
| Marketplace | MAGES APP Free listing with shared revenue agreement | ✗ |



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