

Increased efficiency for subretinal injections

Comparative assessment of the DORC EVA INICIO* microinjection system and conventional manual injection systems

Seeing beyond

SOURCE



Title

The Final Millimeter: A Single-Center Retrospective Analysis of an Integrated Pneumatic Microinjection System for Subretinal Gene Therapy



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Publication

[The Final Millimeter: A Single-Center Retrospective Analysis](#)
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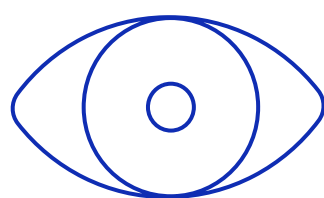
METHODOLOGY & SETUP

Setting



Single-center, single-surgeon retrospective analysis

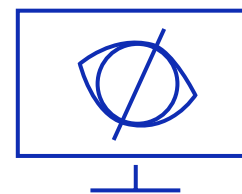
Sample size



19 consecutive cases of subretinal vector-based therapy with DORC EVA INICIO

18 historical manual cases, subretinal injection via a standard tuberculin syringe connected to a subretinal cannula

Setup



- DORC EVA INICIO
- DORC EVA NEXUS surgical system

Methodology

- Standard surgical steps were performed identically in both cohorts.
- **DORC EVA INICIO:** surgeon-initiated foot-pedal-controlled pneumatic injection without a second operator (DORC EVA INICIO connected to DORC EVA NEXUS)
- **Manual:** assistant manually depressed the syringe plunger under verbal coordination from the surgeon

RESULTS

Key results

Significant ($p < 0.0001$) reduction in total case time by

37%
with DORC EVA INICIO

High procedural reliability with successful subretinal bleb formation on first attempt

94.7%
(in 18 of 19 cases)

Demonstrated a safety profile similar to manual injection systems

Conclusion

DORC EVA INICIO may improve procedural reliability and broaden access to gene therapy beyond ultra-specialized centers.

*DORC's subretinal injection devices are medical devices intended to inject gases and aqueous fluids (such as air and/or BSS) into the subretinal space. Consult the prescription of the fluid to be injected for compatibility with the subretinal injection devices.