

# Comparison of visual outcomes following cataract surgery between two multifocal intraocular lenses: Seelens MF and Acrisoft SN6AD1

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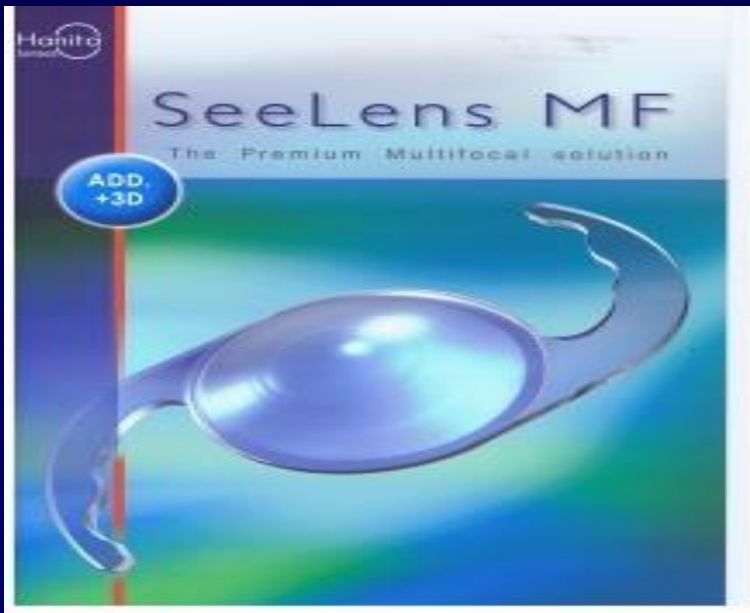
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# PURPOSE

- To evaluate the postoperative visual outcomes following cataract surgery between two multifocal intraocular lenses: Seelens MF and Acrisoft SN6AD1

## SEELENS MF



## ACRISOFT SN6AD1



# METHODS

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- Cross-sectional study: **52 eyes (13 patients)**.
  - 26 eyes → **Seelens** (*Hanita Lenses, Hanita, Israel*)
  - 26 eyes → **Acrisoft SN6AD1** (*Alcon Laboratories, Fort Worth, Texas, USA*)
- Standardized **Phacoemulsification** technique:
  - topical anesthesia with lidocaine 4%
  - 1.75 mm clear cornea incision
  - continuous curvilinear capsulorhexis (5.5 mm)
  - in-the-bag implantation of the IOL.
  - incision closure without application of corneal suture
- Visual Acuity:
  - Monocular **UCDVA** (*at 5 m*) with Snellen table
  - Monocular **UCIVA** (*at 80 cm*) with a Snellen chart
  - Monocular **UCNVA** (*at 40 cm*) with a Jaeger chart

# INCLUSION CRITERIA

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- Absence of ocular pathologies
- Bilateral cataract (bilateral Seelens MF implantation and bilateral Acrisoft SN6AD1 implantation)
- Astigmatism  $< 1$  D
- Biometry with IOL Master (Carl Zeiss AG, Feldbach, Switzerland) or A-scan biometry (immersion technique)
- Power evaluation using SRK-T

# RESULTS

	Seelens	Acrisoft SN6AD1
Mean <b>UCDVA</b> :	Pre = 0.52 ( $\pm$ 0.14) Post = 0.92 ( $\pm$ 0.07) [ $p < 0.001$ ] 30.0% achieved 1.0	Pre = 0.46 ( $\pm$ 0.06) Post = 0.89 ( $\pm$ 0.09)
Mean <b>UCIVA</b>	0.93 ( $\pm$ 0.19)	1.01 ( $\pm$ 0.12) 46.2% achieved 1.25
Mean <b>UCNVA</b>	2.10 ( $\pm$ 0.60) Jaeger 26.9% achieved J1 38.0% achieved J2	2.38 ( $\pm$ 0.90) Jaeger 19.2% achieved J1 34.6% achieved J2

Mean **Follow-Up** period: 95.05 ( $\pm$  22.4) days

# CONCLUSIONS

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- UCDVA improved significantly after surgery in all patients.
- The **Seelens MF** allowed a better UCNVA with 26.9% of the eyes achieving J1.
- The **Acrisoft SN6AD1** provided a mildly better UCIVA, with 46.2% of the eyes achieving 1.25.