

Study Spotlight

Astigmatism Management

Saving time with the ZEISS Cataract Workflow



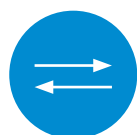
Seeing beyond

The following is a summary of two studies that evaluated the efficiency gain using different ZEISS equipment for toric IOL implantation.

Surgical time savings for the intraoperative phase



Publication
Mayer et al.
[Journal of Cataract & Refractive Surgery](#)
43(10):p 1281-1286, October 2017.



Methodology/device set-up

Manual marking (n=28)

- ZEISS IOLMaster 700
- Bubble marker
- Horizontal 0° marking
- Manual toric axis control with IOL realignment after manual axis control

Digital markerless alignment (n=29)

- ZEISS IOLMaster 700
- ZEISS CALLISTO eye for markerless alignment

VS.



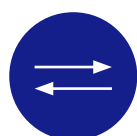
Results

6.38 min or 34.4% time saving intraoperatively

Additional time saving using ZEISS CALLISTO eye together with ZEISS EQ Workplace vs. only ZEISS CALLISTO eye



Publication
Brunner et al.
[J. Clin. Med. 2022, 11\(10\), 2907](#)



Methodology/device set-up

Digital markerless alignment (n=24)

- ZEISS IOLMaster 700
- ZEISS FORUM for digital data transfer
- ZEISS CALLISTO eye for marker less alignment

Digital markerless alignment + ZEISS EQ Workplace for surgical planning (n=29)

- ZEISS IOLMaster 700
- ZEISS EQ Workplace based on ZEISS FORUM for surgical planning and digital data transfer
- ZEISS CALLISTO eye for markerless alignment

VS.



Results

3.97 min or 17.5% additional time saving across the full workflow

Conclusion



Using ZEISS CALLISTO eye results in faster intraoperative IOL alignment and **34,4% shorter overall surgical time¹**



Adding ZEISS EQ Workplace to toric intraocular lens implantation results in **further time savings of 17.5%²**

References

- ¹ Mayer WJ et al. J Cataract Refract Surg 2017; 43:1281–86
- ² Brunner BS et al. J Clin Med. 2022 May; 11(10): 2907