

# Study Spotlight

## Astigmatism Management

### Saving time with the ZEISS Cataract Workflow



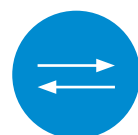
Seeing beyond

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.**



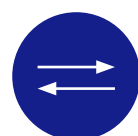
#### Results

**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 time**<sup>1</sup>



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

#### 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