# 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

**VS.**

**Digital markerless alignment (n=29)**

- ZEISS IOLMaster 700
- ZEISS CALLISTO eye for markerless alignment

### 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

**VS.**

**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

### 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**[1]

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

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