

ARTIFICIALIRIS - SIZING

A SIMPLER APPROACH

When implanting the ARTIFICIALIRIS in the ciliary sulcus, there are various possibilities to determine the diameter of the sulcus, e.g. ultrasound biomicroscopy (UBM), optical coherence tomography (OCT), direct intraoperative measurement or white-to-white caliper measurement.

Rule of thumb:

For horizontal white-to-white measurement, **+ 0.5 mm are added** (H-R. Koch). The resulting number is **rounded down to next ½ mm step** to obtain the suggested trephine diameter.

Example:

1. w-t-w: 11.7 mm + 0.5 mm = 12.2 mm
2. round down: 12.0 mm

→ suggested trephine diameter: 12.0 mm

Some surgeons prefer the vertical white-to-white measurement and add +0.5 mm whereas some obtain best results with +/- 0 mm.

Others (e.g. P. Szurman) suggest undersizing the implant. This approach is advisable if decentration and dislocation can be prevented by suture fixation.

NOTE: Proper pupil centration of the ARTIFICIALIRIS in the sulcus should be tested by horizontal movements with forceps before finalizing surgery.

Routine trephine sizes for implantation in:

Ciliary sulcus: 12.0 mm, 11.5 mm, 11.0 mm

Capsular bag: 10.0 mm, 9.5 mm, 9.0 mm

If no trephines are available, the implant can also be trimmed with well sharpened scissors.