



## COMPARATIVE PROSPECTIVE STUDY OF DEEP SCLERECTOMY ASSOCIATED WITH SKGEL® or T-FLUX® IMPLANTS

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**Purpose:** The purpose of this study was to compare the intraocular pressure (IOP) success and the complications following placement of the SKGEL® (CORNEAL®) implant to the T-FLUX® implant ( IOLTECH®).

**Design:** Prospective randomized trial

**Participants:** 20 eyes (18 patients) ( mean age: 74 years) with primary open angle glaucoma and without previous surgical filtering procedures.

**Intervention:** Deep sclerectomy with either SKGEL® ( 10 eyes) or T-FLUX® (10 eyes).

**Main Outcome Measures:** IOP control and complications

**Results:** Mean follow up was 7.2 months (  $p > 0.05$  between the 2 groups). The 2 groups were well-matched regarding risk factors for surgical failure, ( $p > 0.05$ ). The mean IOP significantly decreased from  $27.3 \pm 6.0$  mm Hg to  $14.6 \pm 2.5$  mm Hg at the last follow up and was not statistically significantly different between the 2 groups. 8/10 eyes and 10/10 eyes were respectively complete and qualified successes in the SKGEL® group (final individual target IOP reached without or with medication and/or YAG laser goniopuncture) compared to 6/10 and 8/10 eyes in the T-FLUX® group. Postoperative use of antimetabolites was not different between the 2 groups ( $p > 0.05$ ). YAG laser goniopunctures were performed in 2 eyes in T-FLUX® group. Minor complications were observed in 70% with 2 iris incarcerations in T-FLUX® group.

**Conclusions:** Considering our small sample size, our results were comparable between the two different implants. However SKGEL® implant appeared to be associated with an easier placement, a slightly higher percentage of IOP successes and lower incidence of postoperative complications.

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