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## **Evaluation of Sensory Complications in ACL Reconstrictive Sugery Using Hamestring Graft in Vertical and Obliqe Incisions**

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## **Abstract**

**Background and Objectives:** In order to evaluated whether oblique or vertical incision has less neurological complications in hamstring ACL reconstruction. The following study was done.

**Materials and Methods:** In a prospective randomized study 70 patients who were candidate for hamstring ACL reconstruction and divided in two groups. In First group vertical incision was done and in other group oblique incision was performed. Patients were followed every 2 month and a question which was designed for study was answered by patients. Topography and distribution of sensory deficit was also scrutinized.

**Results:** 71% of patients with oblique incision had neurological deficit and 89% with vertical incision group had neurological deficit. Patient with oblique incision, 26.5% were in stage 0, 20.5% stage 1, 41.3% stage 2 and 29.4% were in stage 3. In vertical incision group 0, 51% of patients were in stage 1, 22.9% stage 2, and 11.4% stage 3 (normal).

**Conclusion:** Oblique incision has lower neurologic complication than vertical incision. Sensory impairment was detected in mild incision group in supralateral and inferomedial of calf in 40% and 14% succedingly. Above complication was detected in 0.66 and 0.8.3 perent in ofermentioned region in vertical incision group.

Keywords: Anterior cruciate ligament, Incision, Reconstruction

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