

## عنوان مقاله:

Outcomes of Temporary Hemi-Epiphysiodesis Using a New Device for The Treatment of Pediatric Valgus Knee Deformity: A Preliminary Report

## محل انتشار:

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## خلاصه مقاله:

**Background:** This study aimed to evaluate the efficacy of hemi-epiphysiodesis using a new device (X-plate) for the correction of genu valgum. **Methods:** In total, ۲۲ children with a total of ۳۴ pathologic knee valgus deformities underwent the procedure and were followed up ۲۵.۳ months on average. **Results:** The mean time to clinical correction of genu valgum was  $۱۰.۹ \pm ۲.۲$  months. Furthermore, the mean preoperative anatomic Lateral Distal Femoral Angle (aLDFA) and mechanical Tibia Femoral angle (mTFA) were obtained at  $۷۵.۱ \pm ۳.۸$  and  $۶ \pm ۲.۸$  degrees, respectively. When clinical correction of the deformity was achieved, the mean of aLDFA and mTFA corrections were determined at  $۸.۹ \pm ۵.۳$  and  $۶.۵ \pm ۳.۲$  degrees, respectively. The mean speed of aLDFA and mTFA corrections were estimated at  $۰.۸ \pm ۰.۴۵$  and  $۰.۶ \pm ۰.۳$  degrees per month, respectively. The postoperative aLDFA and mTFA were measured at  $۸۴ \pm ۴.۲$  and  $-۰.۸ \pm ۲.۹$  on average. With a mean of  $۲۵.۳ \pm ۱۴.۵$  months at final follow-up, there were ۶ (۱۷.۶%) mild valgus knees, ۲۶ (۷۵.۵%) normal alignment knees, and only ۲ (۵.۹%) mild varus knee within an acceptable clinical limit. **Conclusion:** Hemi-epiphysiodesis using X-plate at the distal physis of the femur is an effective and safe method for the treatment of valgus knee deformity in children. Level of evidence: IV

## کلمات کلیدی:

complication, Deformity, Genu valgum, temporary hemiepiphysiodesis

## لینک ثابت مقاله در پایگاه سیویلیکا:

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