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FEMORAL LENGTHENING IN CHILDREN USING ILIZAROV EXTERNAL FIXATOR Free Access

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Introduction

The objective of this study is to report the first cases of femoral lengthening in children using Ilizarov fixator.

Materials and Methods

We carried out a retrospective study about the cases of femoral lengthening done in 2010 to 2020 in our BARI-ILIZAROV Orthopaedic centre Dhaka.

Results

48 lengthening were done during this period using Ilizarov fixator. The procedure was done incongenital bone diseases in 20 cases and after a distal femoral epiphysiodesis in 10 cases. The mean age at surgery was 12.8 years. Lengthening was required in all patients and an axis correction was required in 16 of 26 cases. The mean lengthening was 5.9 cm. The healing index was 45.5 day/cm (25.5–62). We noticed 8 knee stiffness and 5 broken wires. Knee Stiffness were corrected by Judet's quadricepsplasty and 6 broken wires were replaced by new wires. The goal of lengthening was reached in all cases. The goal of axis correction was reached in 98.5% of cases.

Conclusions

Ilizarov technique allows to do accurate lengthening and axis correction and it is a unique reliable external fixator for femoral lengthening in children.

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