

Paley's 3 Fibular Hemimelia in a 2 Month Old Infant

Sharat Agarwal*

Department of Orthopaedics and Trauma, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong, India

Corresponding author:

Sharat Agarwal, Department of Orthopaedics and Trauma, North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong, India; E-mail: drsharat88@yahoo.com

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Case Description

Fibular Hemimelia (FH) is a congenital deficiency where part or all of the fibular bone is hypoplastic, dysplastic or aplastic associated with dysplasia of tibia and parts of the foot [1]. The Paley classification is the first classification of FH to be designed with reconstructive surgery options in mind. In type 3, there is a fixed deformity of equino-valgus. Here, we present a case who was 2 months old. On examination there was anteromedial bowing of tibia with absent fibula and lateral 2 toes and syndactyly of 2nd and 3rd toes. There was shortening of 2 cm, with projected shortening of tibia of 11 cm at maturity based on Paley's multiplier method (Figures 1-4). Reconstructive surgery is planned in follow up as:

- Surgery#1, at age 18 months, SUPER ankle (Systematic Utilitarian Procedure For Extremity Reconstruction) procedure combined with lengthening of 5.0 cm combined with hemiepiphyodesis of distal femur for valgus knee correction.
- Surgery #2, at age 8 years, lengthening 6.0 cm of tibia.



Figure 1. Clinical picture showing Fibular Hemimelia of right lower limb with bowing and shortening with classical dimple at the apex of the deformity.



Figure 2. Clinical picture showing absent lateral 2 toes with syndactyly of 2nd and 3rd toes.

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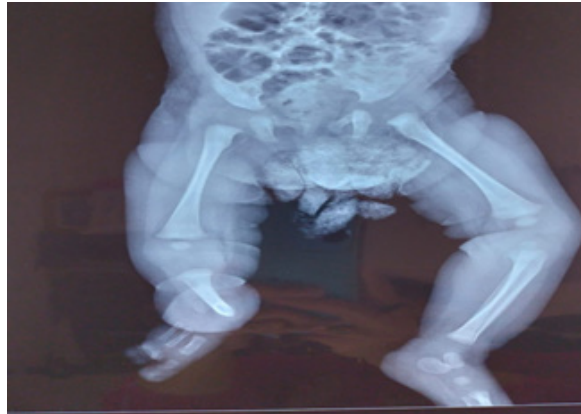


Figure 3. Radiograph showing complete aplasia of fibula on the right side with normal hip and knee and absent lateral 2 toes.



Figure 4. Radiograph showing fibular aplasia on the right side with tibial bowing, shortening and equinovagis ankle and foot.

References

1. Paley D. Surgical reconstruction for fibular hemimelia. *J Child Orthop.* 2016;10:557-583.