

Reconstruction Of An Eight-Toed Foot

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INTRODUCTION:

Polydactyly, a congenital anomaly involving extra digits, is rare in the feet and poses surgical challenges. We report a rare case of right fibula bimelia with preaxial polydactyly (8 toes) that underwent successful correction.

REPORT:

This is a 4 years old girl who initially presented to us at the age 1 month old with a right clubfoot, a shorter right leg and extra digits over the right foot. She was born term, antenatally unremarkable and doesn't demonstrate any syndromic features. She was diagnosed with right clubfoot with fibula bimelia and right foot polydactyly. Her clubfoot failed serial Ponsetti casting and hence corrected with posteromedial release at 1 year old.

The parents are satisfied with the surgery outcome but they wish their child is able to put on shoes. Physical examination shows a right foot with 8 toes. There are 3 extra toes preaxially. The most medial extra toe is rudimentary, small and underdeveloped. Lateral to this, the next extra digit is pedunculated, attached to a well-formed digit. The next toe is well formed but shorter. The rest of the toes are normal.



Figure 1: Right Foot X-ray and photo



Figure 2: Right Foot X-ray and Photo Postoperatively

Intraoperatively, excision of medial 3 toes and ray amputation of the 2nd metatarsal were done followed by corticotomy of the 3rd ray, aiming for callus formation between the 2nd and 3rd ray. The abductor pollicis was tagged to the 2nd ray. Medial digital neurovascular bundle of 3rd toe was preserved intraoperatively

CONCLUSION:

Preaxial polydactyly and fibula bimelia is extremely rare. Surgical correction allows a shoe-able foot. However, the child still has a limb length discrepancy due to fibula bimelia that may requires limb lengthening surgery in the future.

REFERENCES:

1. Amida Kuah, Anthony Mollica, et al. Surgical treatment of bilateral preaxial polydactyly with syndactyly of the hallux in the foot in a 10 month old male: A pediatric case study. Foot & Ankle Surgery: Techniques, Reports & Cases 2 (2022) 100205.