

## COMPOSITE GRAFT REPAIR FOR TRAUMATIC TOTAL AMPUTATION OF DISTAL FINGERTIP : A CASE REPORT

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**Introduction:** Traumatic amputation of fingertip injury is a common orthopaedic encountered case and can be devastating for paediatric patients. Goal of treatment is to preserve as much as possible in terms of structure and function in view of younger age group. We present a case of total traumatic amputation of fingertip injury in a child repaired with composite graft.

**Discussion:** Total amputation of fingertip injury can be difficult to manage, especially in pediatric patients, due to total loss of micro-vascular supply and continuity of structural length. Various methods and efforts have been implemented to repair and re-attachment of distal fingertip, including single volar V-Y plasty, or bilateral V-Y plasty. We approach our pediatric patient with similar injury and repaired by using composite graft technique and it has shown a good outcome. Although minimal complications arise such as finger shortening, nail curving and psychological impacts for the parents, the overall end result is satisfactory. Factors contributed to this successful composite graft technique include early intervention, compliance to dressing, and parents' understanding. Comparatively, this technique is more time effective and cost effective. Besides, it also has high rate of success and a good recovery of function.

**Conclusion:** Composite graft technique for total amputation of distal fingertip is proven to be effective and has high survival rate in younger age group. With early repair and interventions, patient satisfaction is high and functional outcome is good.