

CLINICAL IMAGE

Unilateral Central-Ray Symbrachydactyly

Peerzada Umar Farooq Baba, Sana Ansari, Umesh K, Altaf Rasool

Department of Plastic Surgery, SKIMS

A 14-year-old left-hand-dominant female, born to first-degree cousin parents, presents with congenital unilateral hypoplasia of the right index and middle fingers and absence of the distal interphalangeal joint in the right ring finger. She attained menarche at age 12 and reports no family history of similar malformations. She is independent in daily activities and can grasp small objects with the affected hand, though she has mild difficulty with heavy bimanual grip.

Clinical examination of the right hand reveals a morphologically and functionally normal thumb and little finger with full active and passive range of motion across all joints. The index finger is hypoplastic, demonstrating preserved flexion at the proximal interphalangeal joint but complete absence of the distal interphalangeal joint. The middle finger exhibits severe hypoplasia, consisting of a single short phalanx that articulates proximally with the metacarpal and terminates distally in a soft-tissue nubbin without osseous continuation or interphalangeal joint formation. The ring finger is monodactylous in configuration, containing only two phalanges connected by a single functional hinge joint that permits both flexion and extension, with no distal interphalangeal joint identified. Left hand normal.

Radiographs of the right hand show a normal thumb with two phalanges and intact joints. The little finger is unremarkable, with three well-formed phalanges and normal joints. The index finger is hypoplastic, with two phalanges; the distal phalanx is short and radially angulated, consistent with brachymesophalangy and mild

clinodactyly. The middle finger is profoundly hypoplastic, with only a single small phalanx and no distal bone or joint structures. The ring finger has two phalanges connected by a single hinge joint, with no distal interphalangeal joint. No other skeletal anomalies are seen in the carpus or metacarpals.



Access this article online



Website:
www.jmsskims.org

DOI:
<https://doi.org/10.33883/jms.v28i4.1471>

Correspondence:

Dr. Peerzada Umar Farooq Baba, MS
Additional professor, Department of Plastic Surgery, SKIMS
Email: drumar397@gmail.com

How to cite this article: Baba PUF, Ansari S, K U, Rasool A. Unilateral Central-Ray Symbrachydactyly. JMS 2025; 28(4)47

Received: 2025-12-02 Accepted: 2025-12-09



This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY 4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.