6 y/o F who presents for follow up bilateral hand evaluation

Atul Kumar, MD, MS Michael Baldwin, MD





Right Hand Radiograph





Left 5th Digit Radiograph



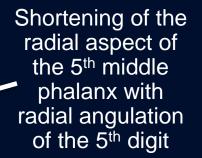
RADIOLOGY





Clinodactyly





5TH

Right Hand Radiograph



Shortening of the radial aspect of the 5th middle phalanx with radial angulation of the 5th digit



Left 5th Digit Radiograph



Clinodactyly

- Radial deviation of the 5th digit at the distal interphalangeal joint
- Often times, the middle phalanx is foreshortened along the radial aspect, trapezoidal or delta shaped
- Typically bilateral
- Congenital or Acquired
- Can be normal variant in up to 4% of the population
- Associated with numerous genetic conditions such as Down Syndrome, Apert Syndrome, and Rubinstein-Taybi Syndrome
- Often detected in utero via obstetric ultrasonography



References

- Tse, R., & Ljungquist, K. (2014). Camptodactyly and Clinodactyly. Congenital Anomalies of the Upper Extremity, 209-217. doi:10.1007/978-1-4899-7504-1_16
- Poznanski, A. K., Pratt, G. B., Manson, G., & Weiss, L. (1969). Clinodactyly, Camptodactyly, Kirners Deformity, and Other Crooked Fingers. Radiology, 93(3), 573-582. doi:10.1148/93.3.573
- David, A., Vincent, M., Quéré, M., Lefrançois, T., Frampas, E., & David, A. (2015). Isolated and syndromic brachydactylies: Diagnostic value of hand X-rays. Diagnostic and Interventional Imaging, 96(5), 443-448. doi:10.1016/j.diii.2014.12.007

