

Letter to the Editor: Spina Ventosa Involving Bilateral Proximal Phalanx in a 6-year-old Girl: A Multifocal Tuberculosis

Nadeem Akhtar Qureshi¹

Dear Editor-in-Chief,

Having read the article “Tuberculous Dactylitis (Bilateral Spina Ventosa) of Proximal Phalanx in a 6-Year-Old Girl: A Case Report” by Tonk et al. published in Journal of Orthopaedic Case Reports 2025 December, 15(12):168-171 with keen interest, I want to congratulate the authors for diagnosing tubercular dactylitis in a 6-year-old girl with complaints of painful swelling in her right middle finger and left ring finger for 8 months, and managing successfully with anti-tubercular therapy for 12 months [1]. I wish to present some additional information regarding this case that I believe is worth mentioning and useful for the readers.

The tuberculous (TB) dactylitis of the proximal phalanx of the middle finger of one hand and the ring finger of another hand, as in this case report, represents the rare pattern and manifestation of multifocal tuberculosis, with only a few case reports and series reported [2,3,4,5]. This bilateral involvement represents the multifocal genre of tuberculosis, which is defined as “the involvement of two or more non-contiguous extrapulmonary sites, with or without associated pulmonary TB” [6]. It accounts for 5–10% of all osteoarticular cases [7].

Tubercular dactylitis in children becomes uncommon after 5 years and scarce after 10 years of age, with 85% of cases in children younger than 6 years [3]. The incidence of tubercular

dactylitis among children has been reported to be 0.65% by Hardy and Hartmann [2] and 6.9% by Herzfeld and Tod, respectively [8].

The bones of the hands are more frequently affected than those of the feet [2]. The proximal phalanx of the index and middle fingers is the most common site of the tubercular dactylitis [2]. Based on the clinicopathological presentation and radiological appearances, the left hand is supposed to be at stage 2 and the right hand at stage 3, according to the three-stage classification for tubercular dactylitis proposed by Agarwal et al. [5]. A few differential diagnoses, which need to be added to the list, include syphilitic dactylitis and enchondroma [3,5].

At last, the statement “**Feilchenfeld in 1896 described TB dactylitis roentgen-graphically in children**” mentioning the reference to Pearlman et al. is worth noting to draw serious attention here [1]. Pearlman and Warren were the first to mention Feilchenfeld in their article and quoted “**It is of historic interest that Feilchenfeld [3], in May of 1896, described tuberculous dactylitis roentgenographically, the first lesion in children identified by x-ray films. Tuberculous dactylitis was first identified by histologic technique by Renken [3] in 1886**” [9], and gave the reference of Steindler A. Reconstruction Surgery of the Upper Extremity, p. 197. New York, 1923 New York; London: D. Appleton and Co [10]. However, after reading thoroughly the primary source i.e

Author's Photo Gallery



Dr. Nadeem Akhtar Qureshi

Access this article online

Website:
www.jocr.co.in

DOI:
<https://doi.org/10.13107/jocr.2026.v16.i02.6862>

¹Department of Orthopedics, Futela Hospital, Rudrapur, Uttarakhand, India.

Address of Correspondence:

Dr. Nadeem Akhtar Qureshi,
Department of Orthopedics, Futela Hospital, Rudrapur - 263153, Uttarakhand, India.
E-mail: drnaq1308@gmail.com

Submitted: 01/11/2025; Review: 13/12/2025; Accepted: January 2026; Published: February 2026

DOI: <https://doi.org/10.13107/jocr.2026.v16.i02.6862>

© The Author(s). 2026 Open Access. This article is distributed under the terms of the Creative Commons Attribution 4.0 International License (<https://creativecommons.org/licenses/by-nc/4.0/>), which permits unrestricted use, distribution, and non-commercial reproduction in any medium, provided you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The Creative Commons Public Domain Dedication waiver (<http://creativecommons.org/publicdomain/zero/1.0/>) applies to the data made available in this article, unless otherwise stated.



“Reconstruction Surgery of the Upper Extremity” by Arthur Steindler [10], with my best effort, I could not be able to find the mentioning of Feilchenfeld on the given page number 197 under section of ‘Tuberculous Dactylitis (Spina Ventosa)’, nor in the whole book, although Renken was mentioned on the same page 197 as “The disease has been known for many years and was identified as tuberculosis by Renken in 1886 [10].” Ever since its first inception by Pearlman et al., Feilchenfeld has been quoted subsequently by many authors in their articles, some mentioning Pearlman et al. and others mentioning some

other secondary sources. I believe this needs to be addressed here to highlight the importance of cross-checking all the references and going back to the original primary sources.

To sum-up, this case report represents the rare manifestation of the multifocal genre of tuberculosis with an uncommon pattern. The clinical presentation, age, site, and characteristics of infection in the present index case corresponded with the available literature.

References

1. Tonk G, Agarwal S, Gupta R. Tuberculous dactylitis (bilateral spina ventosa) of proximal phalanx in a 6-year-old girl: A case report. *J Orthop Case Rep* 2025;15:168-71.
2. Hardy JB, Hartmann JR. Tuberculous dactylitis in childhood; A prognosis. *J Pediatr* 1947;30:146-56.
3. Salimpour R, Salimpour P. Picture of the month. Tuberculous dactylitis. *Arch Paediatr Adolesc Med* 1997;151:851-2.
4. Gebrehana AW, Munye G, Mekonen AK, Mengistu SB, Geletaw T, Answar IO. Bilateral tuberculous dactylitis of both hand and feet in a female toddler: A case report on a rare presentation of skeletal tuberculosis in children. *BMC Infect Dis* 2024;24:950.
5. Agarwal A, Qureshi NA, Kumar P, Khan S. Tubercular osteomyelitis of metacarpals and phalanges in children. *Hand Surg* 2011;16:19-27.
6. Imillou B, El Moudni N, Barakat L, Echchilali K, Moudatir M, El Kabli H. Multifocal tuberculosis revealed by cutaneous abscesses in an immunocompetent patient. *Asian J Case Rep Med Health* 2025;8:89-92.
7. Agarwal A, Khan SA, Qureshi NA. Multifocal osteoarticular tuberculosis in children. *J Orthop Surg (Hong Kong)* 2011;19:336-40.
8. Herzfeld G, Tod MC. Tuberculous dactylitis in Infancy. *Arch Dis Child* 1926;1:295-301.
9. Pearlman HS, Warren RF. Tuberculous dactylitis. *Am J Surg* 1961;101:769-71.
10. Steindler A. *Reconstruction Surgery of the Upper Extremity*. New York, London: D. Appleton and Co.; 1923. p. 197. Available from: <https://resource.nlm.nih.gov/36720770r> [Last accessed on 29 Dec 2025].

Conflict of Interest: Nil
Source of Support: Nil

How to Cite this Article

Qureshi NA. Letter to the Editor: Spina Ventosa Involving Bilateral Proximal Phalanx in a 6-year-old Girl: A Multifocal Tuberculosis. *Journal of Orthopaedic Case Reports* 2026 February;16(02):397-398.