



Neurology Publish Ahead of Print DOI: 10.1212/WNL.0000000000207172

Teaching NeuroImage: Presence of a Human Tail in an Infant With Spinal Dysraphism and Congenital Clubfeet

Amanda Fernandes Vieira Mendes Silva, MD¹; Luziany Carvalho Araújo, MD¹

Corresponding Author:

Amanda Fernandes Vieira Mendes Silva, amandafvieiramendes@gmail.com

1. Department of Radiologyy, Hospital das Clínicas de Pernambuco, Recife, Brazil – Empresa Brasileira de Serviços Hospitalares, Federal University of Pernambuco;

Equal Author Contribution:

Contributions:

Amanda Fernandes Vieira Mendes Silva: Drafting/revision of the manuscript for content, including medical writing for content; Major role in the acquisition of data; Analysis or interpretation of data

Luziany Carvalho Araújo: Drafting/revision of the manuscript for content, including medical writing for content; Major role in the acquisition of data; Analysis or interpretation of data

Figure Count: 3

Table Count: 0

Search Terms:
[120] MRI, Human tail, Intradural lipoma, Spinal cord tethering, Spinal dysraphism
Acknowledgment
Acknowledgment:
Special thanks to Suzana Serra for the surgery image courtesy.
Study Funding:
The authors report no targeted funding
The duthors report no targeted running
Disclosures:
The authors report no relevant disclosures.
Preprint DOI:
Received Date:
2022-09-07

Handling Editor Statement:

Accepted Date: 2023-01-25

Submitted and externally peer reviewed. The handling editor was Resident and Fellow Deputy Editor Ariel Lyons-Warren, MD, PhD.

A newborn who was diagnosed with congenital clubfeet in utero using ultrasound was born with a human tail (Figure 1A). Clinical examination revealed a pigmented stain and a pilonidal dimple above the tail (Figure 1B). No neurological dysfunction was noted, and the reflexes were intact. In view of the presence of tail/dimple, MRI of the spine was performed which showed occult spinal dysraphism, a tethered cord caused by an intradural lipoma and a hydrosyringomyelic cavity (Figure 2). The patient underwent surgery (Figure 3), to excise the intradural lipoma and human tail.

Patients with cutaneous stigmata such as a dimple, pigmented stain, skin appendage or asymmetric gluteal cleft should be investigated radiographically with ultrasound or MRI for underlying spinal cord abnormalities like spinal dysraphism and spinal cord tethering¹, even in cases without neurological symptoms. While tail position tends to correlate with underlying etiology, the cause may vary dramatically².



Demonstrating (A) 11 cm human tail located in the right paramedian sacral region and club feet as well as (B) hyperchromic stain and pilonidal dimple (arrow).



Figure 2: MRI of the lumbar spine.

Sagital T1-weighted (A) and T2-weighted with fat-sat (B) images show a terminal intraspinal lipoma (arrow) attached to the conus medullaris (arrow head). The cord is tethered at L5-S1 level. There is also a central cystic dilatation in the spinal cord (asterisk) consistent with a hydrosyringomyelic cavity. Axial T2-weighted images at S2/S3 level (C) demonstrating defect of fusion of posterior arches (arrow) and Co2/Co3 level (D) showing tubular appendage composed of subcutaneous fat tissue and covered by skin, emerging in the paramedian sacrococcygeal region, compatible with the tail (arrow).

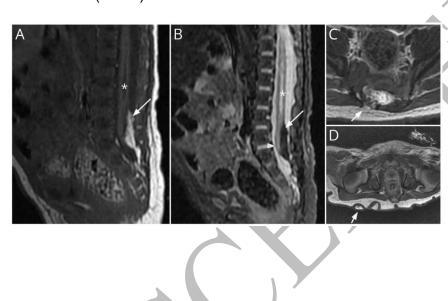
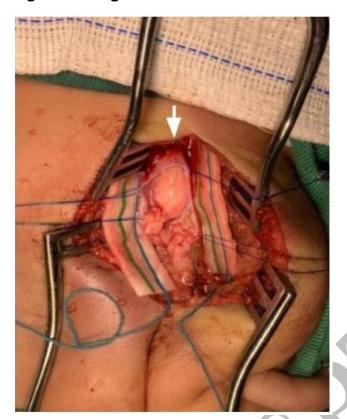


Figure 3: Surgical excision confirms intradural lipoma (arrow).



http://links.lww.com/WNL/C671

REFERENCES:

- Wilkinson CC, Boylan AJ. (2017) Proposed caudal appendage classification system; spinal cord tethering associated with sacrococcygeal eversion. Childs Nerv Syst.33(1):69–89. doi: 10.1007/s00381-016-3208-x. PMID: 27497702.
- Tojima S, Yamada S. (2020) Classification of the "human tail": Correlation between position, associated anomalies, and causes. Clin Anat. 33(6):929-942. doi: 10.1002/ca.23609. PMID: 32319695.



Teaching NeuroImage: Presence of a Human Tail in an Infant With Spinal Dysraphism and Congenital Clubfeet

Amanda Fernandes Vieira Mendes Silva and Luziany Carvalho Araújo Neurology published online March 6, 2023 DOI 10.1212/WNL.000000000207172

This information is current as of March 6, 2023

Updated Information & including high resolution figures, can be found at:

Services http://n.neurology.org/content/early/2023/03/06/WNL.0000000000207

172.citation.full

Subspecialty Collections This article, along with others on similar topics, appears in the

following collection(s):

MRI

http://n.neurology.org/cgi/collection/mri

Permissions & Licensing Information about reproducing this article in parts (figures, tables) or in

its entirety can be found online at:

http://www.neurology.org/about/about_the_journal#permissions

Reprints Information about ordering reprints can be found online:

http://n.neurology.org/subscribers/advertise

Neurology ® is the official journal of the American Academy of Neurology. Published continuously since 1951, it is now a weekly with 48 issues per year. Copyright © 2023 American Academy of Neurology. All rights reserved. Print ISSN: 0028-3878. Online ISSN: 1526-632X.

