Bilateral radial nerve palsy in a newborn

A boy was born at 42 weeks’ gestation following 4 days of labor. Epidural anesthesia was used. Bilateral wrist drop was noted immediately after delivery (figure 1). Induration with localized erythema was seen symmetrically on the dorsal aspect of both upper limbs (figure 2). Examination was in keeping with isolated bilateral radial nerve palsies.

An ultrasound scan of the upper arms revealed symmetric thickening of the radial nerves distal to the radial groove at the posterolateral humerus. Electrophysiology tests suggested no evidence of acute denervation. Following physiotherapy and occupational therapy, improvement in the infant’s wrist position was seen within 2 weeks of birth. Postulated mechanisms for these injuries include reduced fetal activity for reasons including reduced amniotic fluid volume.1,2

Claire T. Lundy, MRCPCH, Sushma Goyal, MRCPCH, Silke Lee, FRCPCH, Tammy Hedderly, MRCPCH, London, UK

Disclosure: The authors report no disclosures.

Address correspondence and reprint requests to Dr. Claire Lundy, Department of Paediatric Neurology, Evelina Children’s Hospital, St Thomas’ Hospital, Lambeth Palace road, London, SE1 7EH, UK; clairelundy@btopenworld.com

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Claire T. Lundy, Sushma Goyal, Silke Lee, et al.

Neurology 2009;72;576
DOI 10.1212/01.wnl.0000342126.70570.33

This information is current as of February 9, 2009

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