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Percutaneous fixation of neonatal humeral physeal fractures: A case report and review of literature

Wei Tan, Fu-Hua Wang, Jing-Hui Yao, Wei-Ping Wu, Yi-Bin Li, Yue-Lun Ji, Yue-Peng Qian

Abstract

BACKGROUND

Neonatal distal humeral physeal fractures are rare and difficult to diagnose. Thus, missed diagnoses and delayed healing are possible. Few studies have reported surgical treatment, because a callus may develop at the fracture site 5 d after the fracture, resulting in difficult reduction, and reduction of the limb may cause further physeal injury. Other surgical challenges include the provision of adequate anesthesia and complexity of the operation. However, without appropriate reduction and fixation, a varus elbow deformity may develop. Manual reduction and percutaneous pin fixation are ideal treatment options.

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magnetic **resonance imaging (MRI)**, and arthrography. Opened reduction with percutaneous **Kirschner wire fixation** is one of the treatments of choice for these injuries. In this article, we report a rare injury of distal humeral epiphyseal separation in a newborn during a caesarean section. Keywords: Physeal separation, epiphysis, distal humerus, newborn

Distal femoral physeal fractures after neonatal osteomyelitis

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May 03, 2019 · **Distal femoral physeal fractures** after neonatal osteomyelitis requires immediate and reliable decision for management. We point out the important role of the application of sonography, which is helpful to make an early diagnosis and guide reduction and percutaneous pinning of distal femoral physeal fractures.

Author: Xing Wu, Jingdong Xia, Jun Li, Jie S... **Publish Year:** 2019

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Feb 01, 2019 · **Transphyseal fracture of the distal humerus (TFDH)**, also known as fracture-separation **of the distal humeral epiphysis or epiphysiolysis** of the distal humerus, is an uncommon injury that is most frequently seen in children younger than three years of age. 1 Overall, it is the least common of all physeal injuries of the distal humerus. 2 As such, this fracture can be ...

Cited by: 2 **Author:** W. Zhou, F. Canavese, L. Zhang, L. Li

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We **report** a case of traumatic proximal **humeral physeal** separation with glenohumeral dislocation, treated by closed reduction and Kirschner wire **fixation**. **Case Report** A three year old boy sustained a road traffic accident and presented to emergency department with pain, swelling of left shoulder and functional inability to use the left upper ...

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Author: Rajul Gupta, Amardeep Singh, Kunwa... **Publish Year:** 2013

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Cited by: 13 **Author:** Henry H Mangurten, Bhagya Puppala, Al...

Publish Year: 2005

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