Congenital hip disease in adults. Morphological variations of low and high dislocation

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We have previously described three types of CHD in adults: • dysplasia

low dislocation

high dislocation

The Hartofilakidis et al. CHD Classification system

JBJS 70-B, 1988
JBJS 78-A, 1996
JBJS 80-A, 1998
Orthopedics No 23, 2000
JBJS 86-A, 2004

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Comments on Our Classification System

• The Hartofilakidis et al. classification system eliminates the need to quantify the displacement

Angliss and Bourne, Current Opinions in Orthopaedics, 1996

• We are using the Hartofilakidis et al. classification system because is a simple and effective classification

Harris W, in: The Adult Hip, edited by J. Callaghan, A. Rosenberg and H. Rubash, 1998

Comments on Our Classification System

 At Wrightington Hospital we use the Hartofilakidis et al classification because it describes the acetabular pathology more precicely

Bobak, Wroblenski et al, JBJS Br, May 2000

 The classification that we find more practical is that of Hartofilakidis et al.
 Jaroszynski et al, JBJS-Am, Feb 2000
 An Instructional Course Lecture, AAOS

Comments on Our Classification System

 The most practical classification system for CHD is that of Hartofilakidis et al. For this reason we favor this classification system over others

Bulent Erdemli, J. of Ankara Medical School, Vol 25, 2003

• A classical article concerning the acetabular deficiencies in CHD was published by Hartofilakidis et al. in JBJS-Am in 1996

Eskelinen, JBJS-Am, March 2005

This is our first report on the morphological variations of low and high dislocation aiding the clinical use of our classification system



The femoral head articulates with a false acetabulum that partially covers the true acetabulum to a varying degree

Low Dislocation - Morphological Variations







High Dislocation

The femoral head migrates superiorly and posteriorly to the true acetabulum to a varying degree and either articulates with a false acetabulum or moves freely within the gluteal muscles High Dislocation

Morphological Variations

A. With false acetabulum

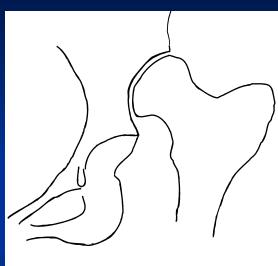
B. Without false acetabulum

High Dislocation - Morphological Variations

A. With false acetabulum

A1 False acetabulum in contact with true acetabulum

A2 No contact between false and true acetabulum

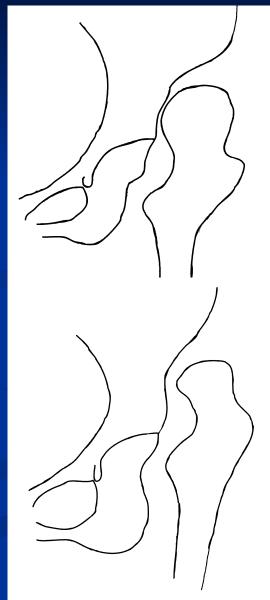




High Dislocation - Morphological Variations B. Without false acetabulum

B1 Small displacement of the femoral head

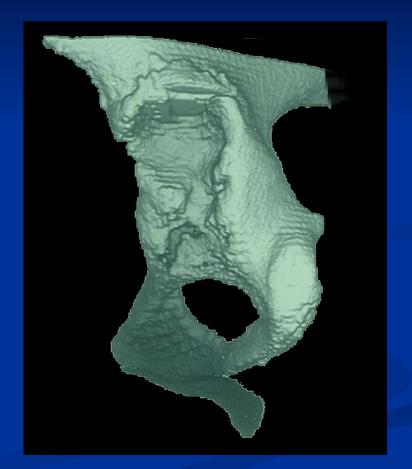
B2 Significant displacement of the femoral head The type with major deformited



Case Presentation

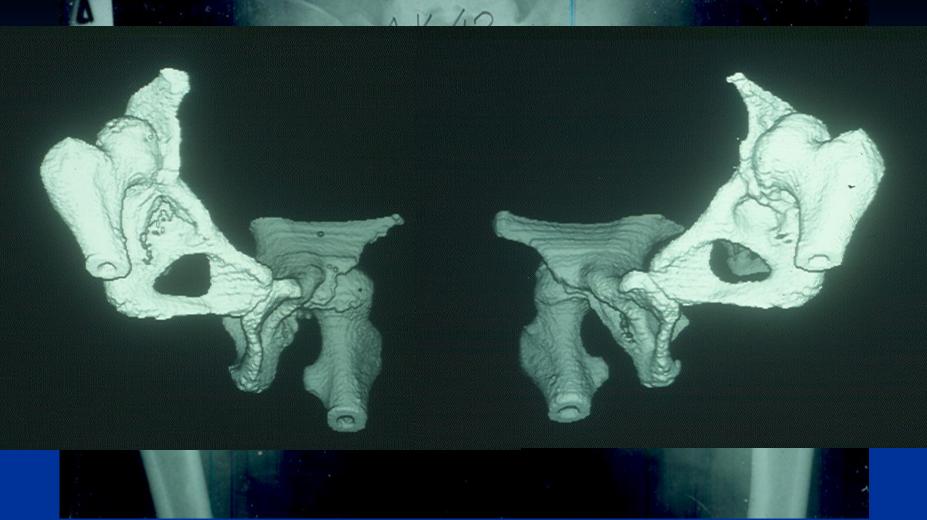
Low dislocation - Coverage 1/3





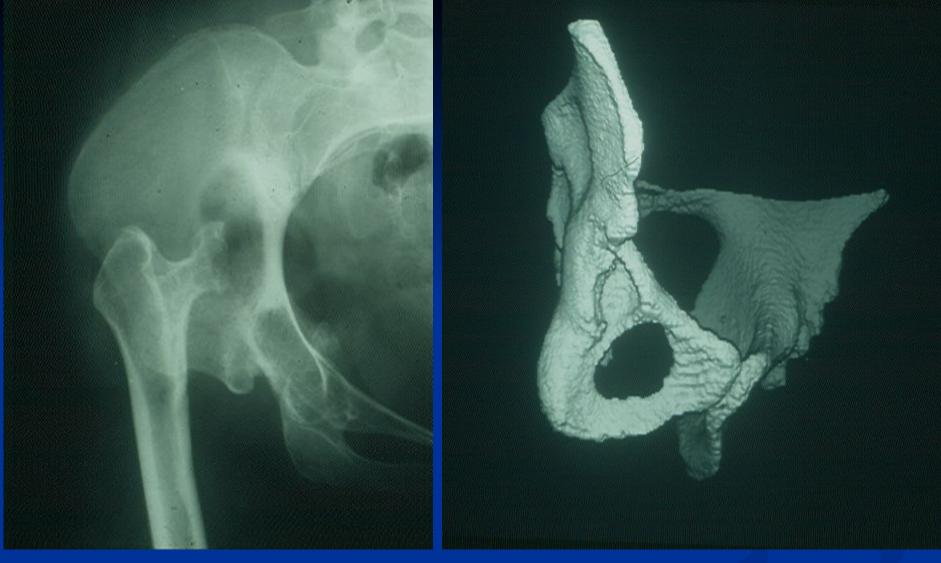
Low dislocation - Coverage 2/3





Right

High dislocation – A1 False acetabulum in contact with true acetabulum Left Low dislocation Coverage 2/3



High dislocation – B2

Significant displacement of the femoral head without a false acetabulum

Summary

 We presented the morphological variations of low and high dislocation in congenital hip disease in adults

 Identification of morphological variations facilitates the use of our classification system