

Congenital Hip Disease

G. Hartofilakidis

Terminology

~~Congenital Dislocation (CDH)~~

~~Developmental Dysplasia (DDH)~~

Congenital Hip Disease (CHD)

Congenital Hip Disease

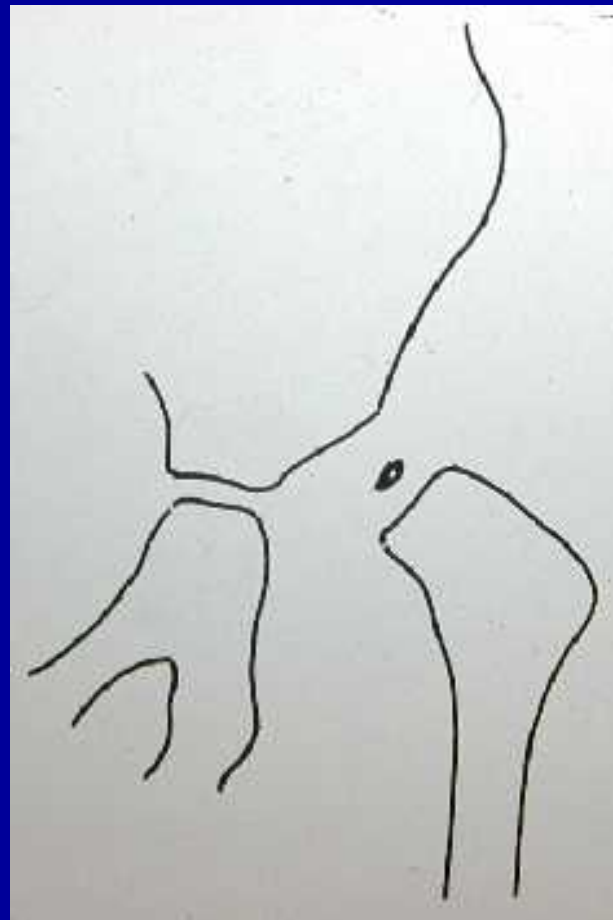
- Stanisavligenic and Mitelet JBJS-Am 1963
- Arnold et al JBJS-Am 1964
- Robin et al Am.J. Publ. Health 1965
- Harris and Stulberg JBJS-Am 1973
- Wedge and Wasylenko Clin Orth. 1978
- Walker JBJS-Am. 1980
- Thomas et al JBJS-Am 1982
- Hartofilakidis et al JBJS-Am 1996

CHD in the infant

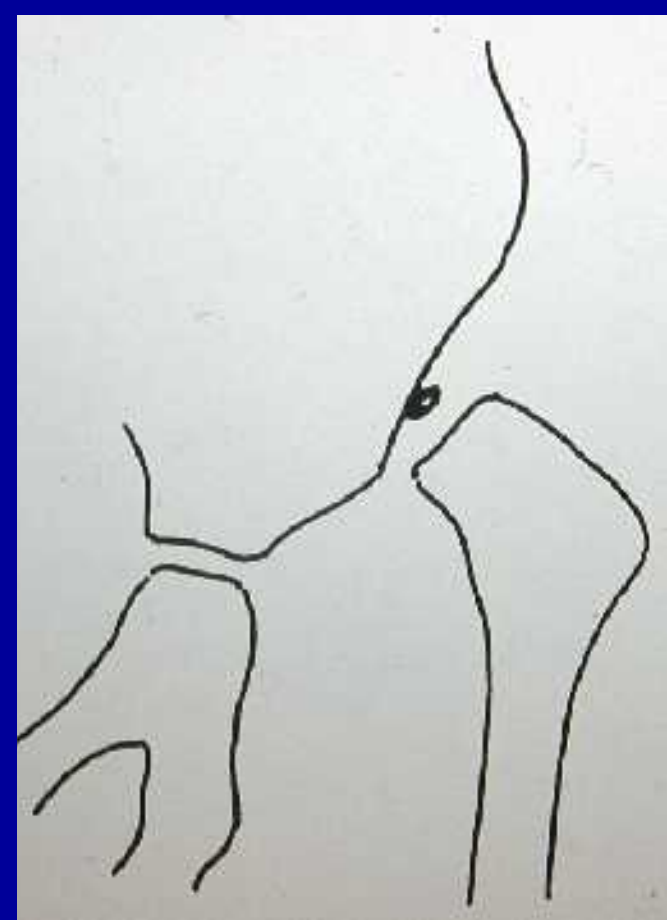
Dysplasia



Subluxation



Dislocation





Dysplasia



Subluxation



Dislocation

Classification of Congenital Hip Disease in Adults

- **Better communication**
- **Planing of treatment**
- **Evaluation of results**

Hartofilakidis et al Classification

- **Dysplasia**
- **Low dislocation**
- **High dislocation**

Eftecar 1978

Crowe et al 1979

Hartofilakidis et al 1988

The system of Hartofilakidis et al classification of CHD

- **JBJS 70-B, 1988**
- **JBJS 78-A, 1996**
- **JBJS 80-A, 1998**
- **Orthopaedics 23, 2000**
- **Surgical Techniques in Orthopaedics
and Traumatology, 2000**
- **JBJS 86-A, 2004**

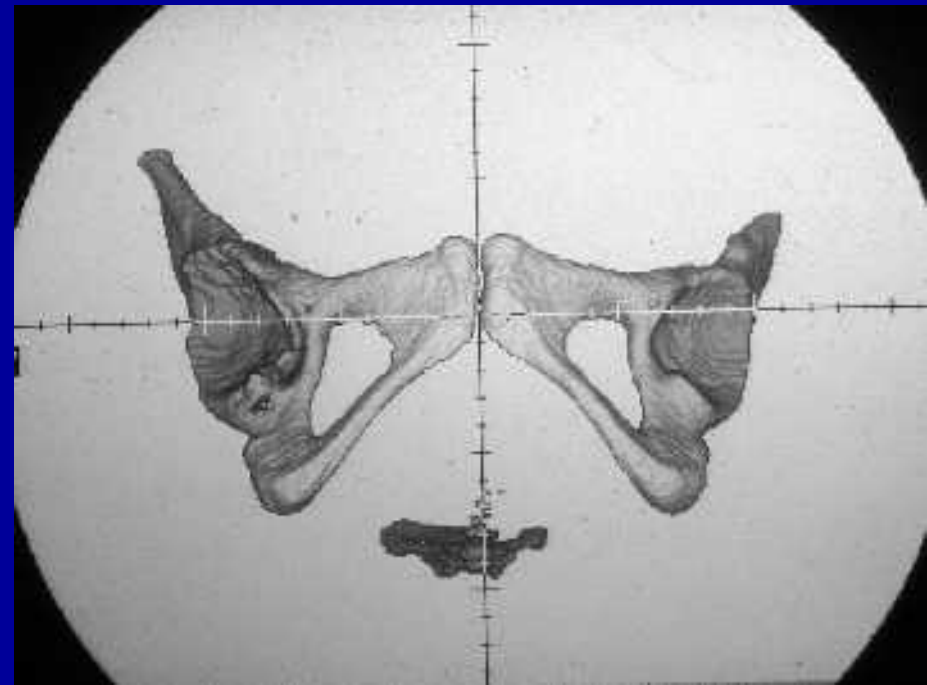
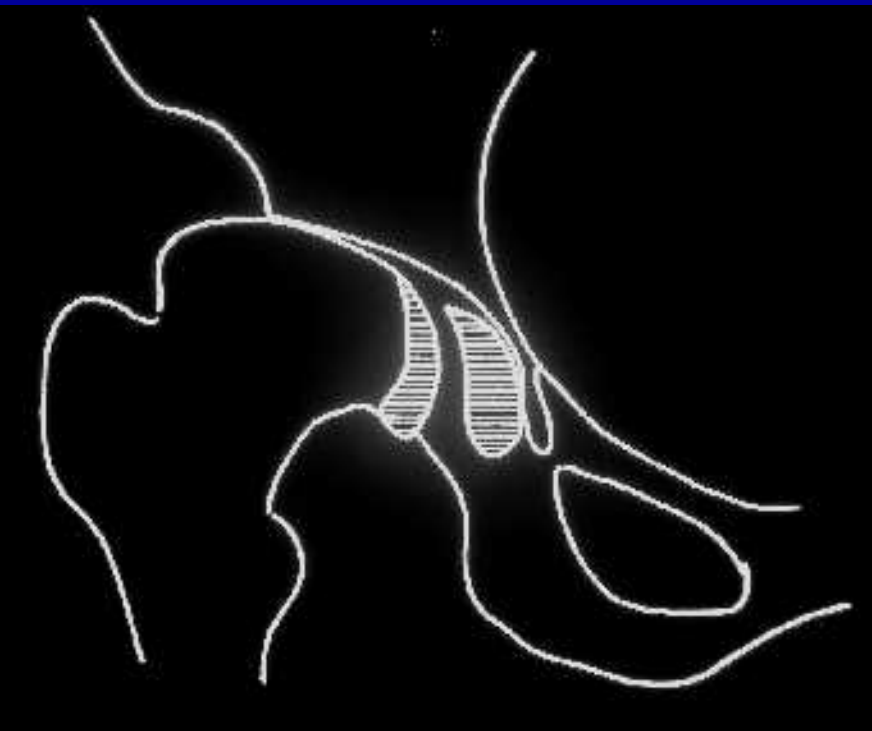
Congenital Hip Disease

(n. 356)

Type	N. of Hips
Dysplasia	170 (47,7%)
Low Disloc	85 (23,9%)
High Disloc	101 (28,4%)

Type A Dysplasia

The femoral head is contained within the original acetabulum



Dysplasia

Onset of Symptoms

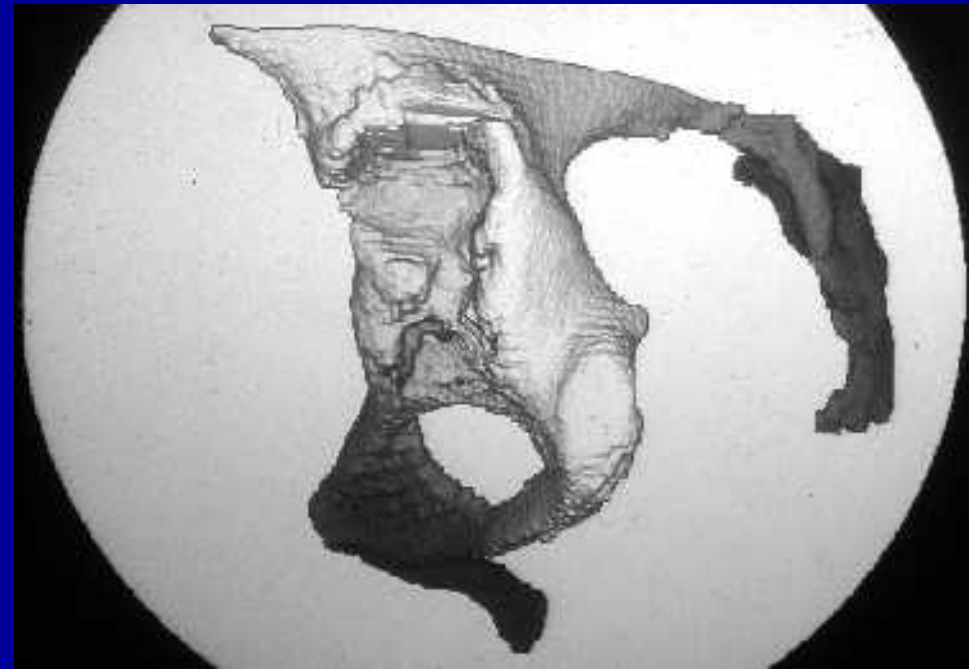
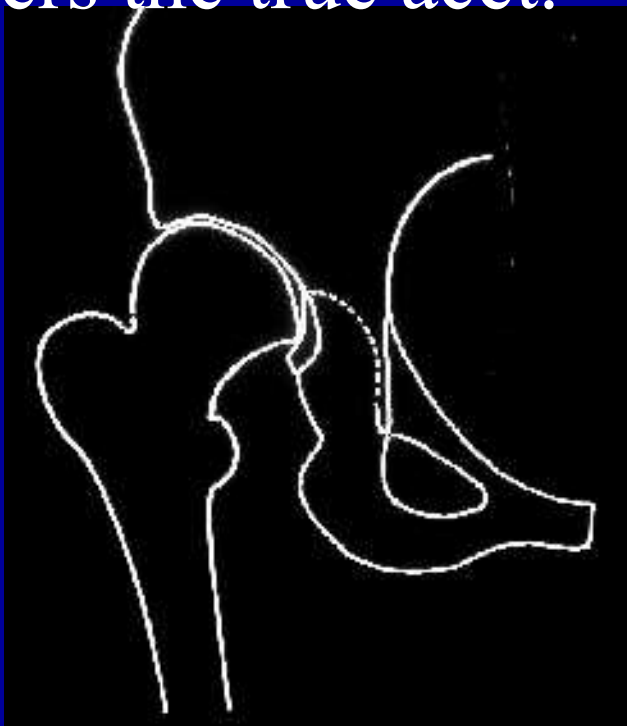
Average age 34y

(range 18-48)



Type B Low dislocation

The femoral head articulates with a false acetabulum that partially covers the true acet.



Low dislocation

Onset of symptoms
(pain)

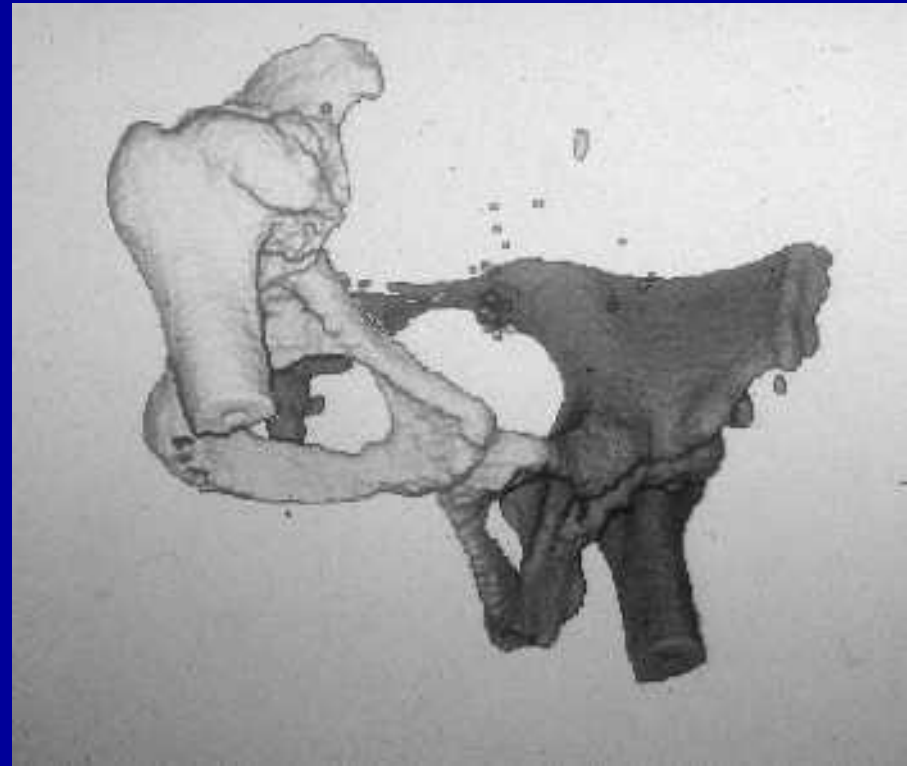
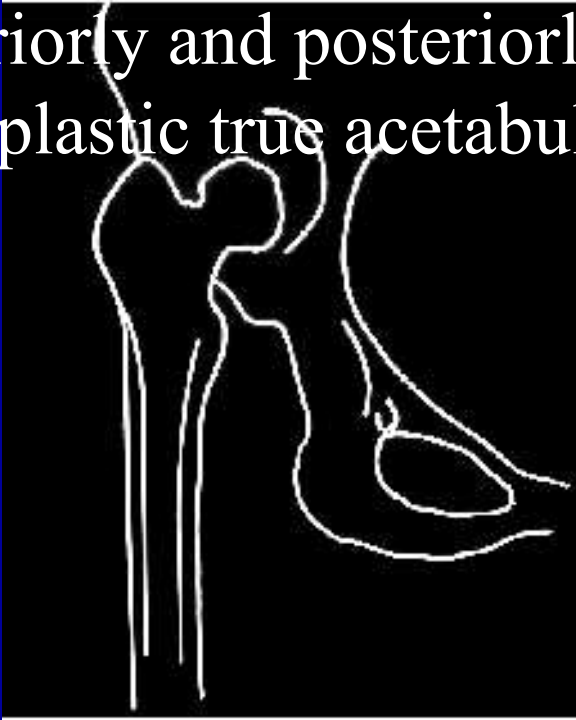
Average age 33y
(range 17-50)

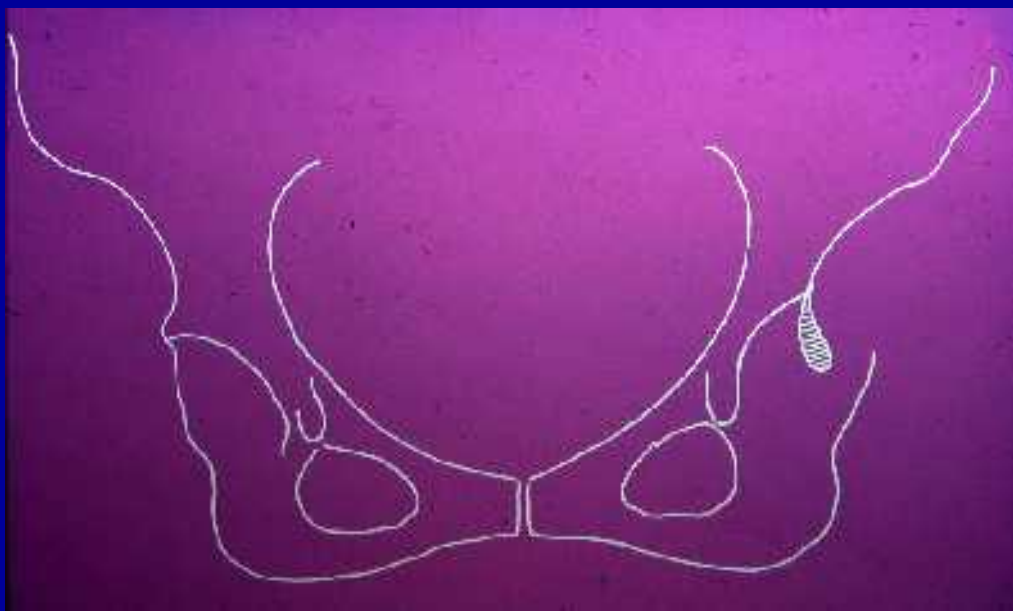
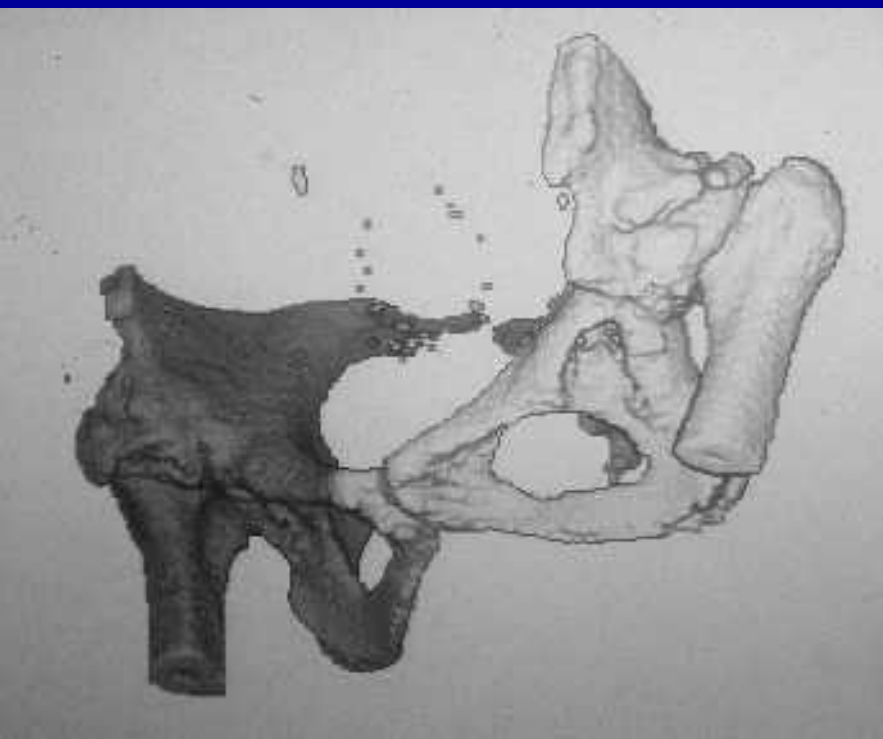


Type C

High dislocation

The femoral head is migrated superiorly and posteriorly to the hypoplastic true acetabulum



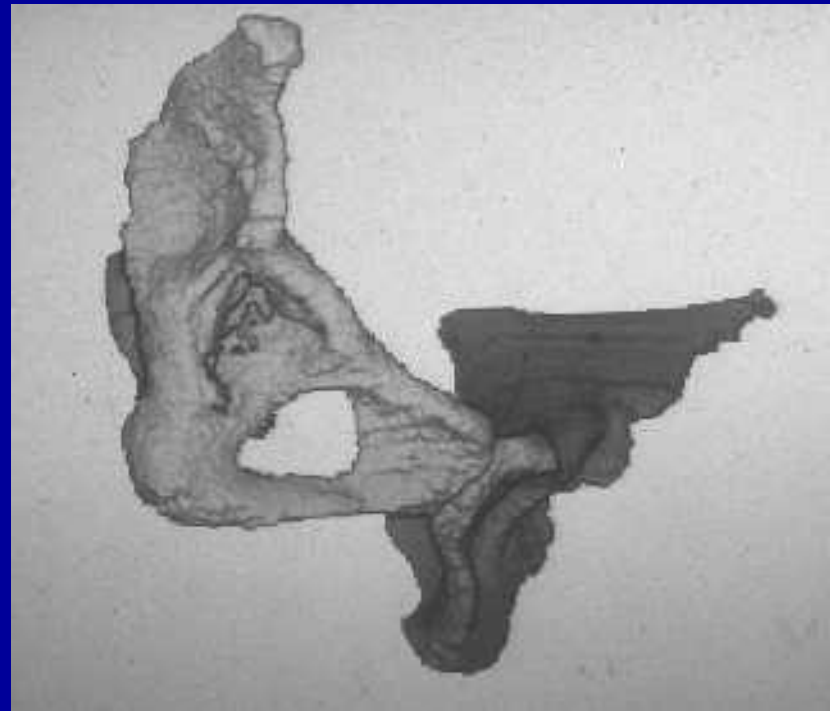
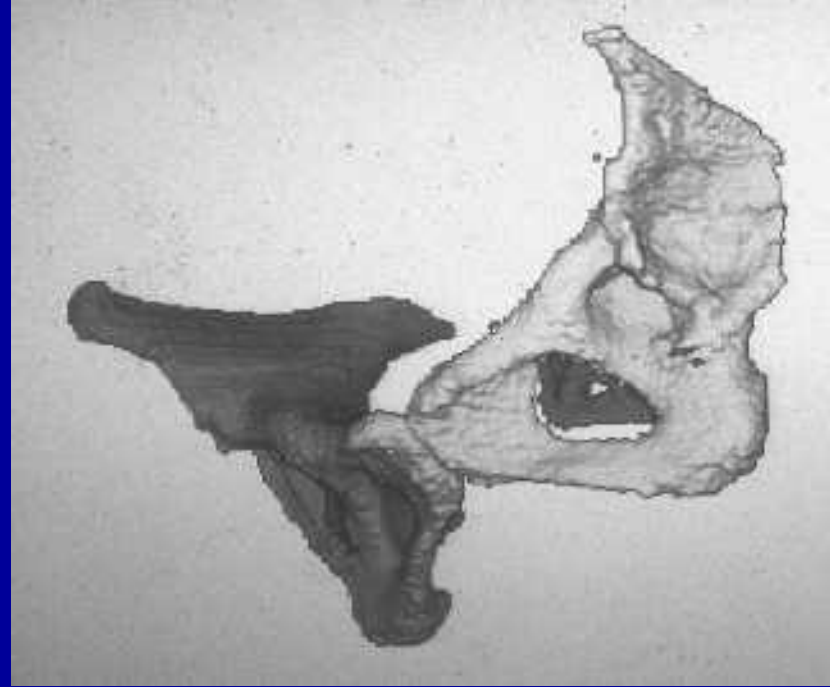


High dislocation

Onset of symptoms (Pain)

With false acet. 31y (18-40)

Without 46y (30-65)

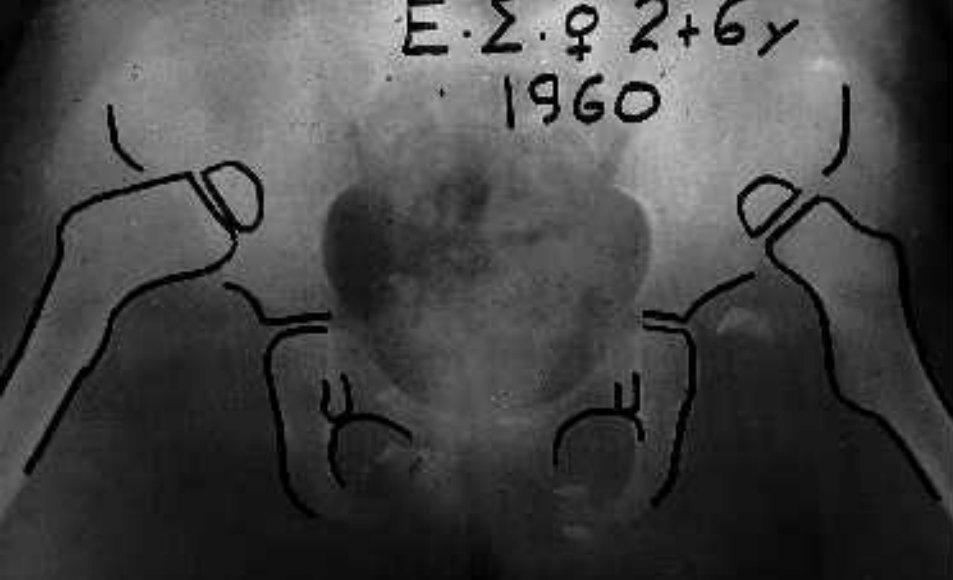


Cong. Hip Disease

Infancy

Adult Life

- | | | |
|---------------|---|------------------|
| • Dysplasia | - | Dysplasia |
| • Subluxation | - | Low dislocation |
| • Dislocation | - | High dislocation |





6 m.



7 y.

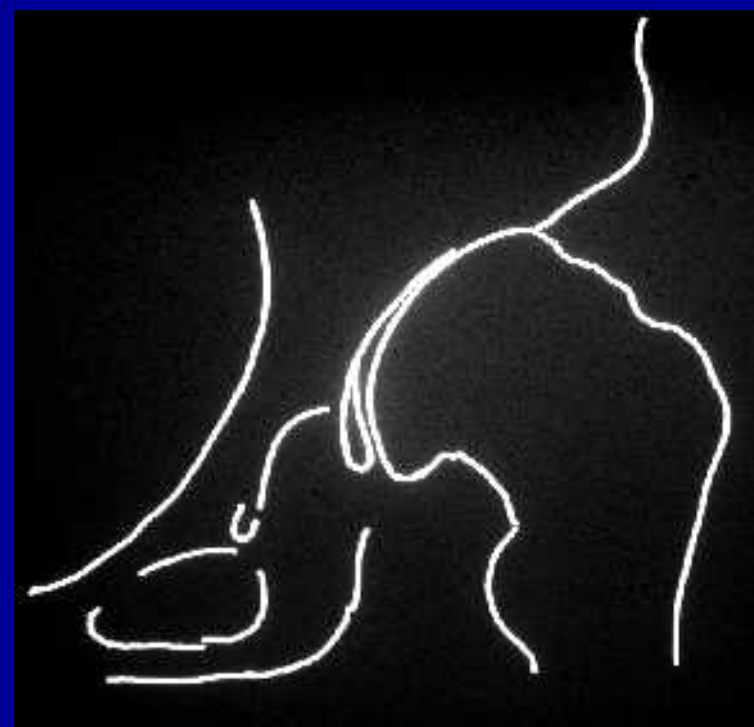
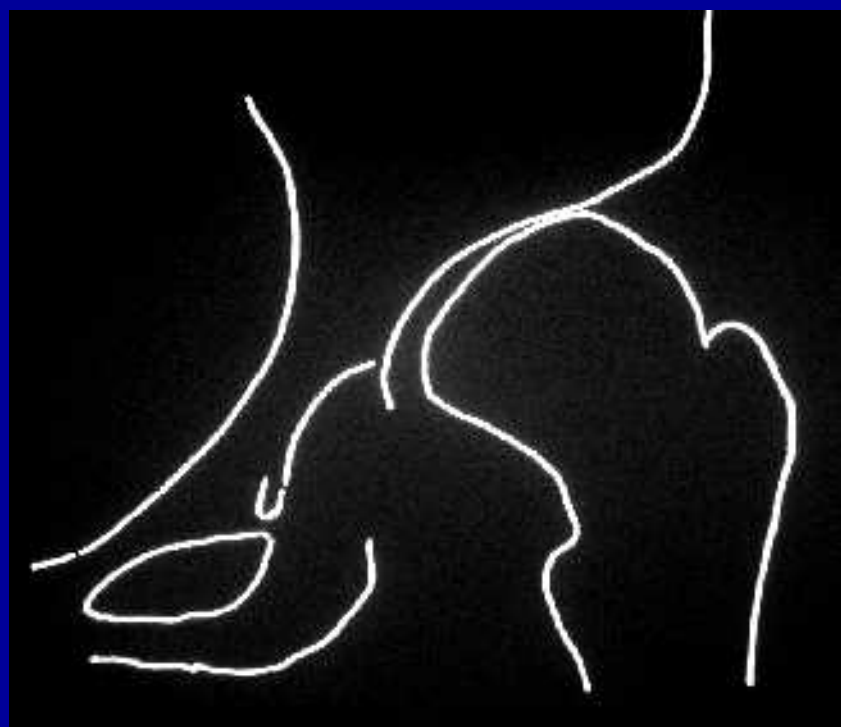


Dysplasia

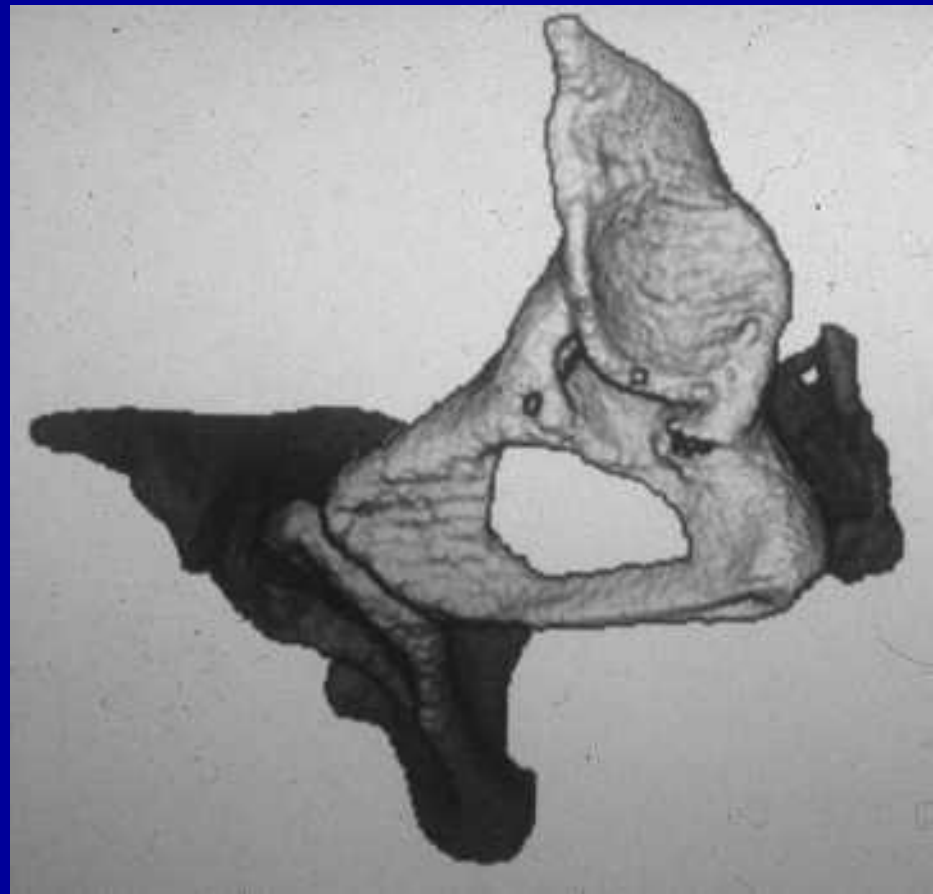
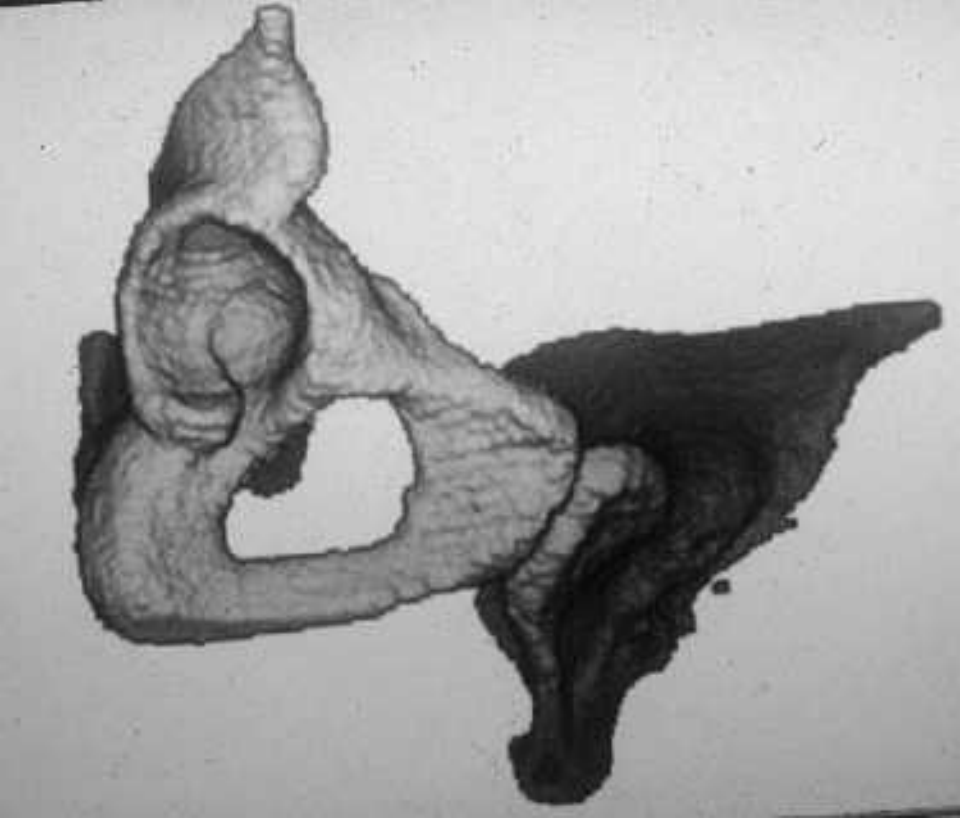
Subluxation

M.I. ♀
2 yss









Conclusions 1

For better communication, treatment planning & evaluation of results, a common terminology is needed to express the total spectrum of the congenital malformations of the hip.

Conclusions 2

We propose the use of the general term **Congenital Hip disease** & the classification of it to **dysplasia, low dislocation** and **high dislocation**.

Thank you