<https://www.omim.org/entry/609162>

<https://ghr.nlm.nih.gov/condition/czech-dysplasia#sourcesforpage>

**INHERITANCE**

- Autosomal dominant

**GROWTH**

Height

- Normal stature

**SKELETAL**

Spine

- Mild platyspondyly  
- Irregular vertebral endplates  
- Narrow intervertebral disc spaces  
- Rectangular lumbar spinal canal  
- Accentuated thoracic kyphosis  
- Scoliosis  
- Elongated vertebrae

Pelvis

- Coxa vara  
- Irregular, sclerotic acetabulae  
- Flattened capital femoral epiphyses  
- Narrow iliac wings  
- Narrow, short femoral neck  
- Prominent trochanter  
- Flexion contractures (hip)

Limbs

- Arthralgia  
- Flexion contractures (knee)  
- Osteochondromatosis (knee)

Hands

- Short metacarpals (4th-5th)

Feet

- Hypoplastic or dysplastic toes (3rd, 4th, and 5th)  
- Hypoplastic metatarsals (3rd and 4th)

**MISCELLANEOUS**

- Onset of joint pain in childhood  
- Waddling gait  
- Hip replacement in early adulthood

**MOLECULAR BASIS**

- Caused by mutation in the collagen II, alpha-1 polypeptide gene (COL2A1, [120140.0018](https://www.omim.org/entry/120140#0018))