

Kraakbeenletsels van de enkel.

Ben Molenaers Orthopedisch Trauma Chirurg Voet-/enkel Chirurg

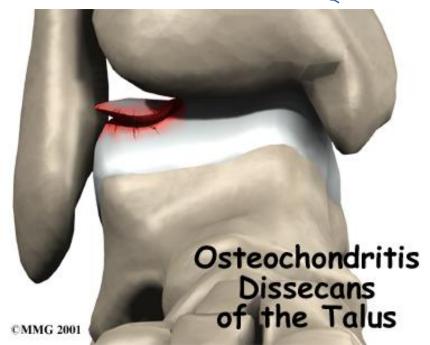
Introduction

- Definition
 - ▶ OCD: any defect both involving the articular and subchondral bone of the talus or tibia.
- Epidemiology
 - No good data
 - ▶ 1,5 greater risk Females
 - ► 4.2/100.000 (0-19 Y)
 - ► 12-19 Y (6.8/100.000)
 - ► Consensus: 20-40 Y most common age group (no studies!!)
- Pathophysiology
 - Genetic predisposition
 - Joint malalignement
 - AVN

- Endocrine/metabolic abnormalities
- Peripheral vascular disease
- TRAUMA



ORTHOPAEDIC SURGERY AND TRAUMATOLOGY



- ► Frequent sportsmen
 - Soccer > football > basketball
- Ankle injury last year
 - **>** 75%
- Non-specific (deep) ankle pain
 - ▶ May or may not correspond to the location
- Swelling
- Instability sensation
- Clicking and/or locking (not often)

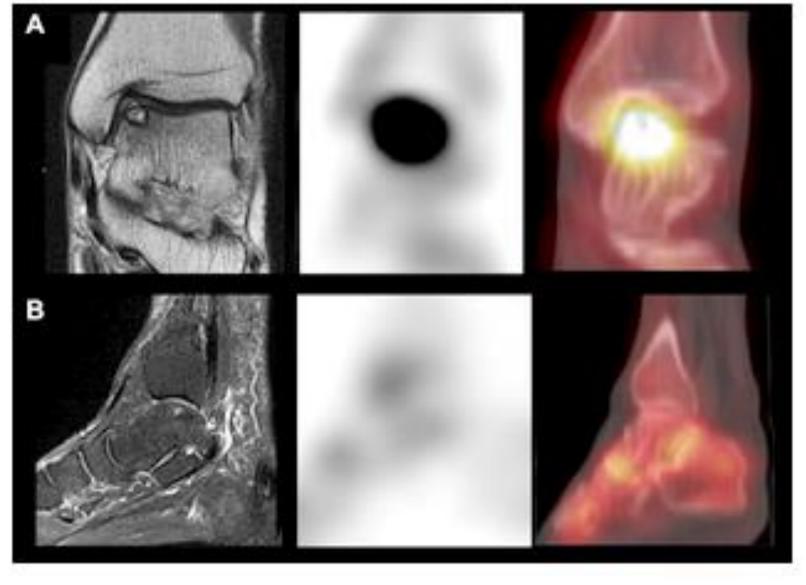
- Clinical examination
 - Often subtle cha
 - Different walkin
 - ► ROM
 - Stability testing
 - Palpation joint s
 - ► Foot in planta
- X-rays
 - Acute setting: 0
 - !! Weight Beari
 - ► Face/Lateral an

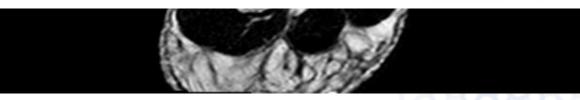
!!! → 50% of OCD'





- Evaluation be
- MRI
 - Chronic lesio
 - ► Early stage l
 - Bone bruises
 - Correlates w
- ► SPECT-CT
 - Asymptomatic lesions
 - Multiple lesions on MI





Classification

- ► Lateral talar dome
 - ▶ 98% due to trauma
 - ► Shallower but higher grade (higher risk displacement)
 - More anterior
- ► Medial talar dome (4x more often)
 - ▶ Less traumatic origin (70 % after trauma)
 - Lager and deeper
 - More posterior

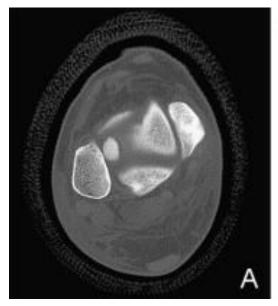
Treatment

- Conservative
 - ▶ 4-6 weeks PWB cast
 - Pediatric > adult outcomes
 - ► 40-50% succesfull
 - Non displaced
 - Infiltration ankle (chronic):
 - Depo-Medrol
 - ▶ Hyaluronic acid
- Operative
 - ► Chronic painfull OCD
 - Acute displaced OCD



ORIF

- Completly detached subchondral lesion
- ► Size > 1.5 cm² (?)
- With/without osteotomy
- Mini-screws or bioabsorbable pins









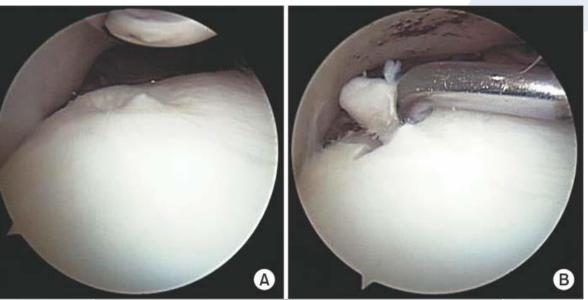








- Arthroscopic assisted
- ► Chondral and osteochondral lesions
 - Equal results (surprisingly)
- < 1,5 cm²
- → Good short-Midterm outcomes (5-8 years)
- → 80 % satisfaction rate
- Rehab:
 - ► No cast
 - ► Immidiate ROM
 - ► NWB 4-6 weeks







RAUMATOLOGY

- ► Larger defects (< 3 cm²)
- ► Failed ice-picking
- Most often ipsi-lateral knee lateral femoral condyle or intercondylar notch
- Acceptable outcomes (65% good outcome)
- Rehab:
 - ▶ 6 w NWB cast

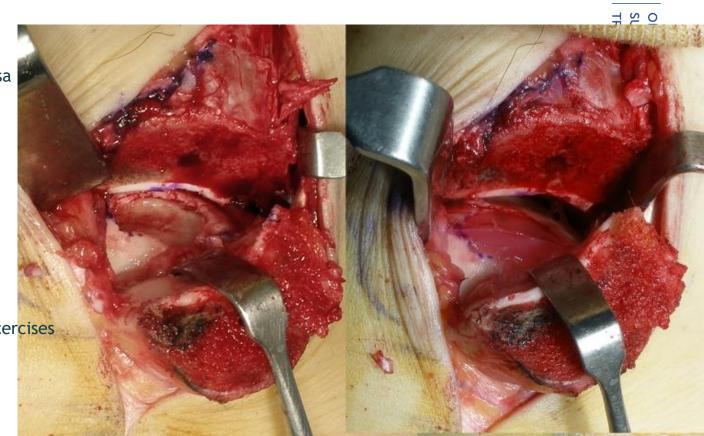
- joint mobilisation, strength and balance at 8 weeks
- ▶ 6 w PWB walking boot and fysio





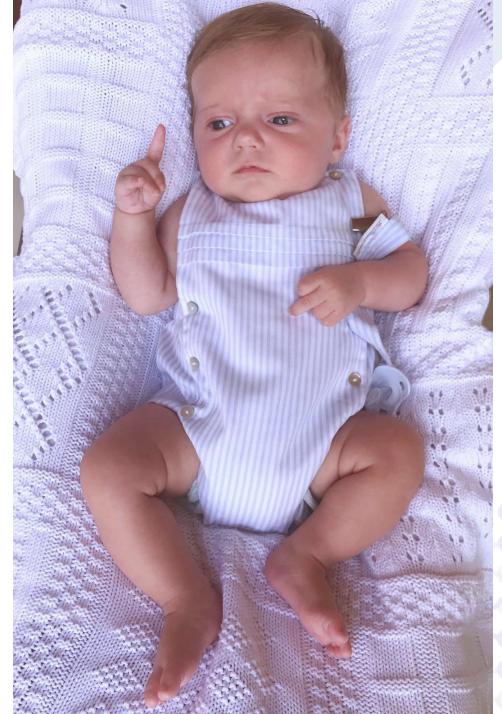


- Autologous matrix induced chondrogenesis
- 1-step procedure
 - Debridement
 - ▶ filling of the bone defect with autologous spongiosa
 - sealing of the graft with a collagen matrix
 - ► Larger defects, failed ice-pickings
 - ► Good results (90%) (at 1 year)
 - Expensive
 - Rehab:
 - ▶ 6 w PWB boot
 - After 6w start proprioception and stabilisation excercises
 - After 12w start cycling/swimming
 - ► After 5-6 months sports



Take Home message

- OCD ankle
 - Osteochondral injury
- Trauma
 - ▶ Pain etc > 6 weeks after ankle sprain
- Rx
 - OTTOWA ankle rules acute setting
- MRI
 - Chronic setting
- Treatment
 - Conservative
 - chronic injuries: infiltration
 - ► Acute non displaced: Cast
 - ► 50% succes
 - Surgery
 - ▶ Bone marrow stimulation (ice-picking) < 2 cm²
 - AMIC > 2cm² or revison





ORTHOPAEDIC SURGERY AND TRAUMATOLOGY

