

Radiologisk utredning:

**DIABETISK FOT
OG
OSTEOMYELITT**

Eivind Strøm

- Røntgen
- CT
- MR
- Ultralyd
- Scintigrafi

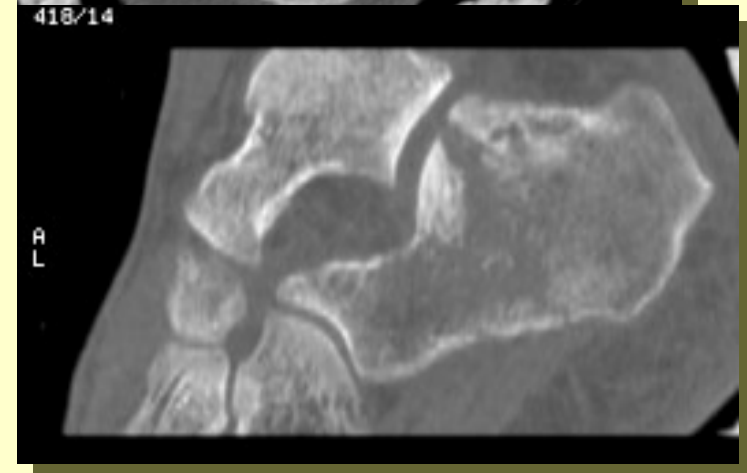
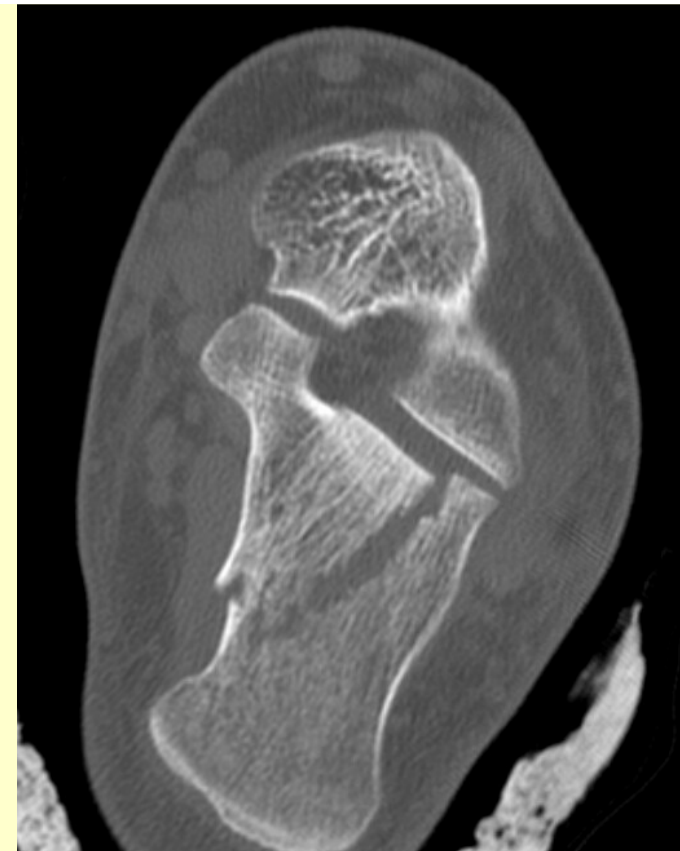
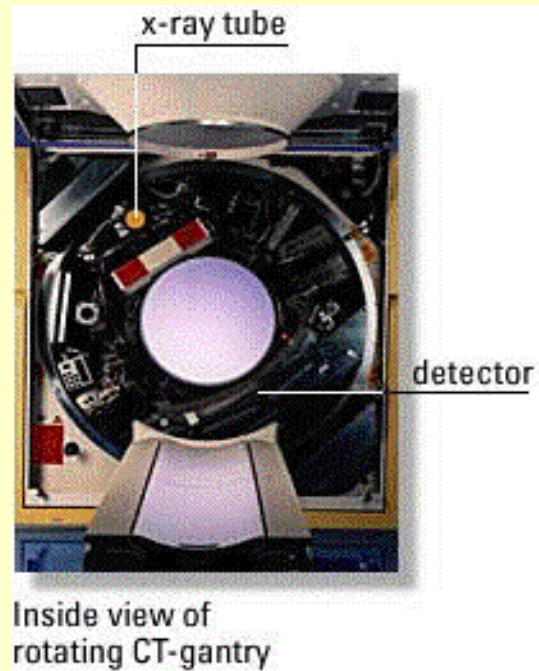
- Røntgen

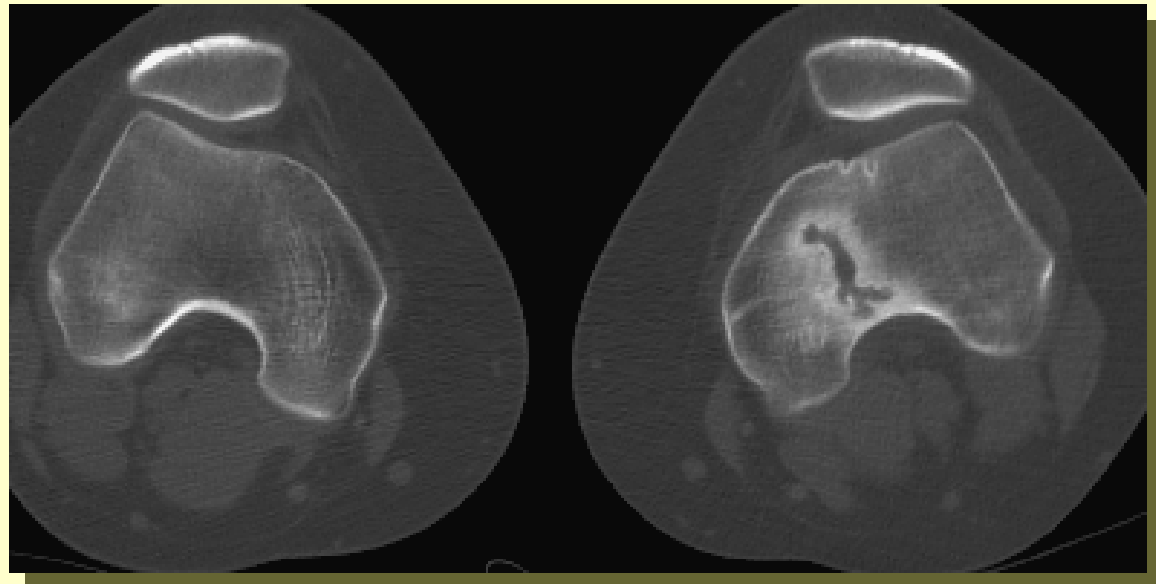


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- CT



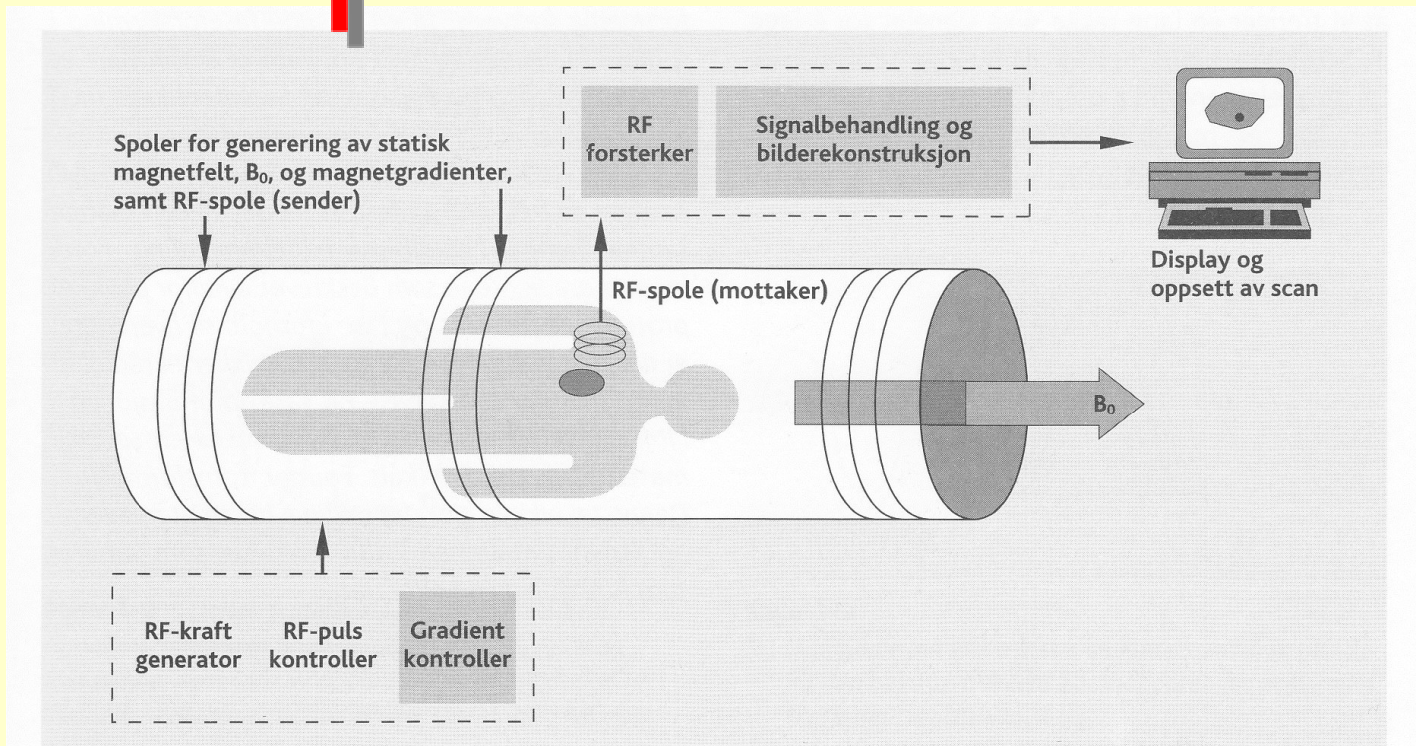
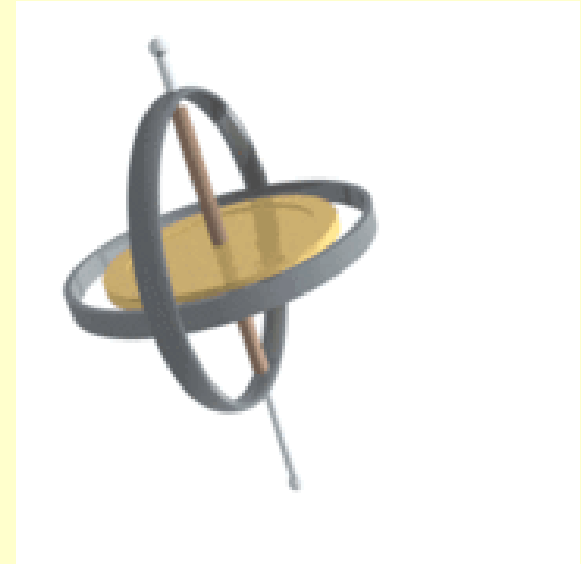
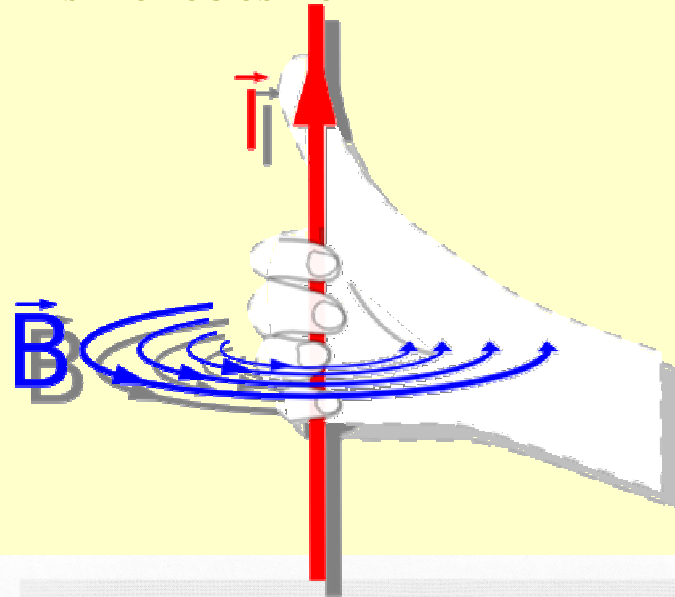


Kvinne (21): Langvarige knesmerter

MRI



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Figur 1-6 Skjematisk (og forenklet) fremstilling av en magnettomograf.



Sekvenser

T1 SE

Fett: **Høyt signal**

Ben/lig./sener: **Lavt signal**

Musk.: **Intermed. signal**

God anatomisk fremstilling

God signal/støy ratio



Sekvenser

FS T2 / STIR (Short TI inversion recovery) SEKVENNS

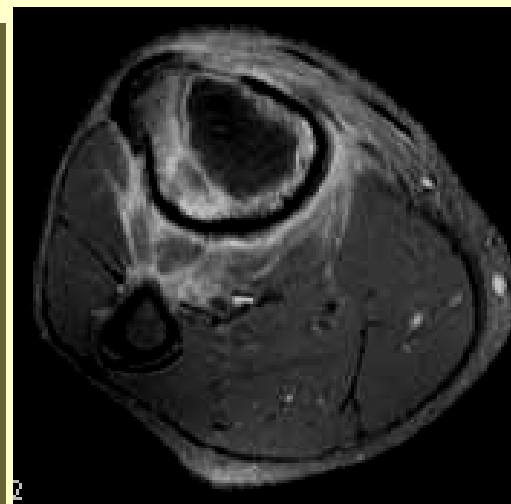
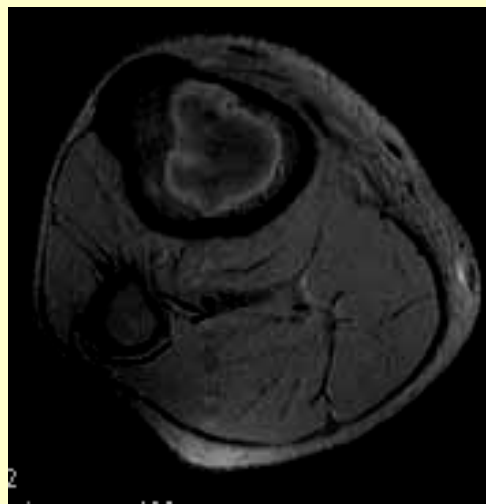
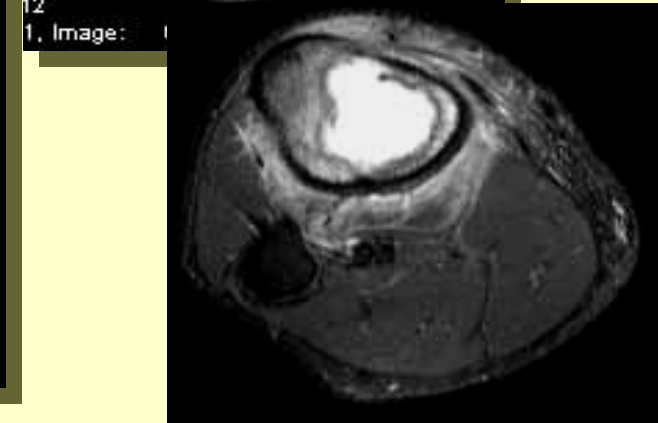
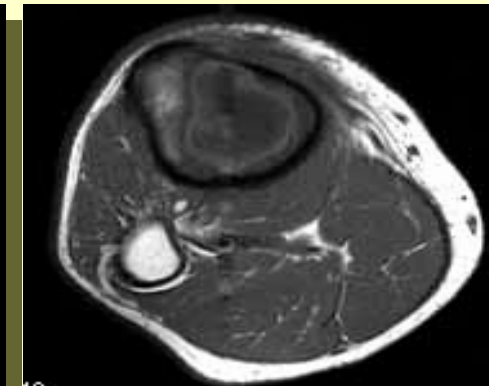
Væske: **Høyt signal**

Alt annet: Lavt signal

Visualiserer pat. prosesser

i fett (eks. benmarg)

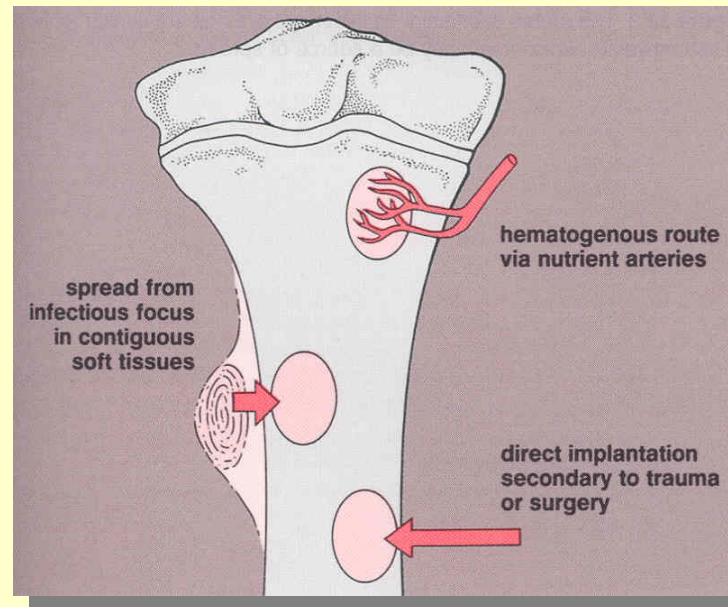




Ung mann: Knesmerter

- < 1 år: Meta-/Epifyse
- Barn: Metafyse
- Voksne: Epifyse

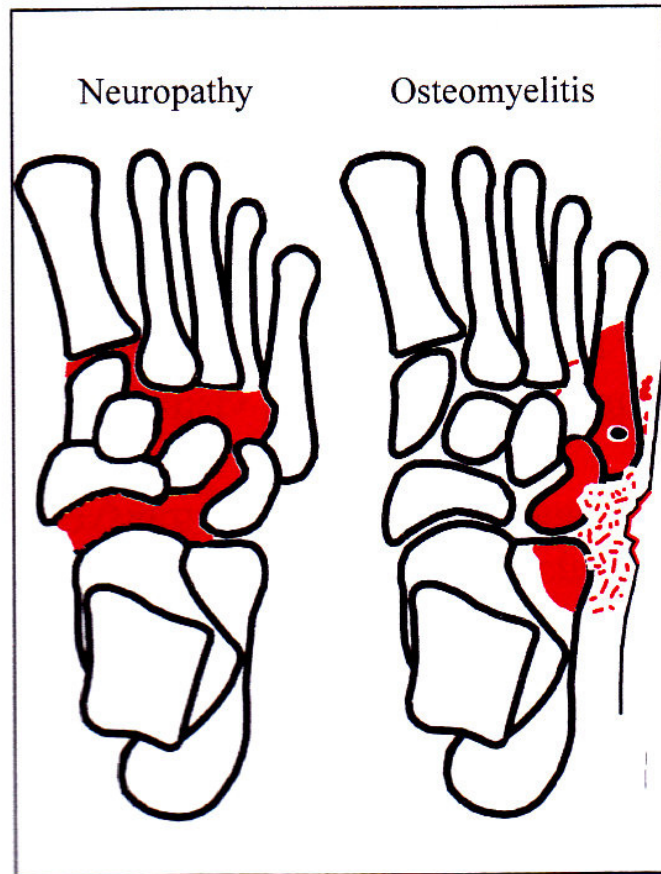
- Infeksjon i bløtvev
- ↓
- Periostitt
- ↓
- Osteitt (corticalis)
- ↓
- Osteomyelitt (marg)



- Spisst traume
- Bitt
- Åpen fraktur
- Kirurgi

MR – funn i diabetisk fot:

- Ødem
- Vevsfortykkelse / infiltrat
- Lokaliserte væskeansamlinger
- Øket mengde væske i seneskjeder
- Øket mengde leddvæske
- Sår
- Osteomyelitt
- Neuroartropati



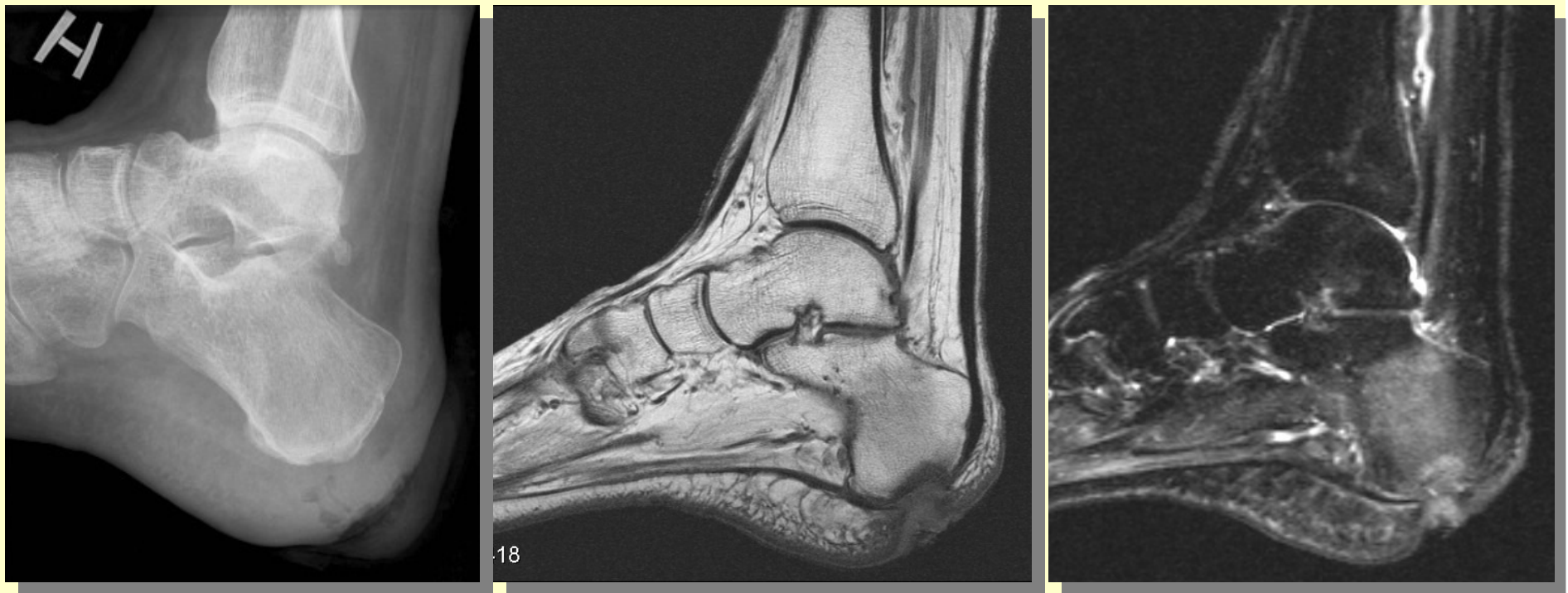
The distinction between osteomyelitis and neuropathic changes in the diabetic foot is often difficult.

Signs for **neuropathy** are:

- fragmentation and disintegration of joints
- little or no bone marrow edema (normal bone marrow in T1 definitively excludes osteomyelitis! If significant edema is present, it does not help in differentiation.)
- localization in the midfoot
- polyarticular manifestation.

Signs for **osteomyelitis** are:

- lack of joint involvement
- localization adjacent to typical pressure sites (metatarsal heads, plantar aspect of the toes, malleoli, calcaneal tuberosity)
- localization adjacent to superficial ulcers
- cortical destruction (but an intact cortex does NOT exclude osteomyelitis)
- abscess formation.



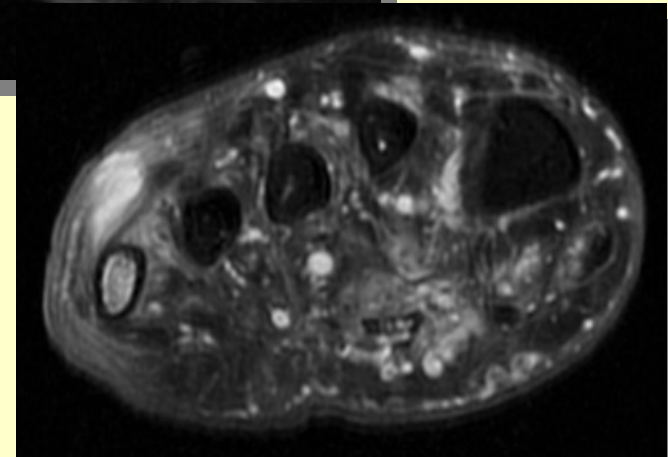
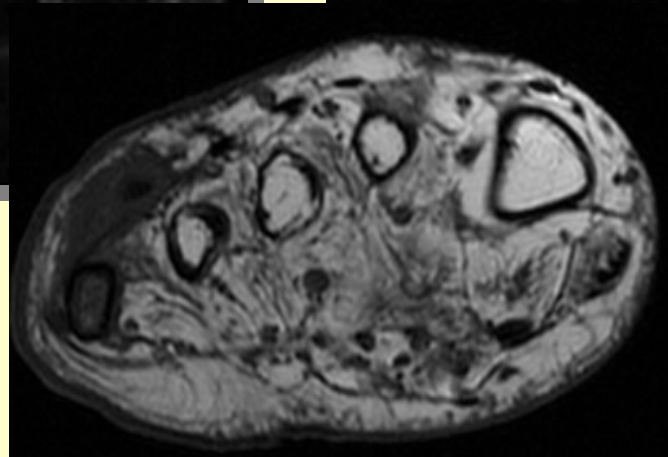
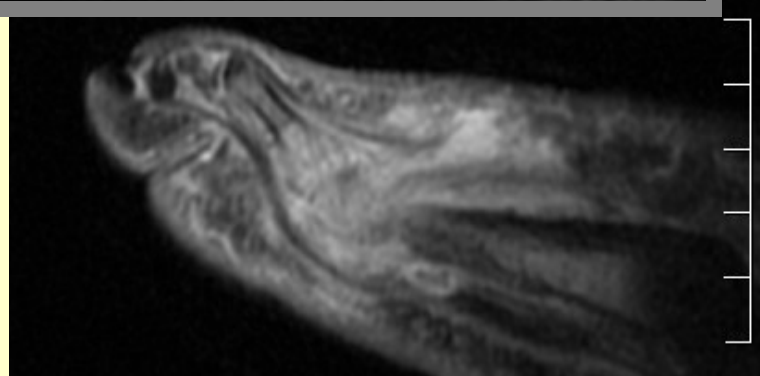
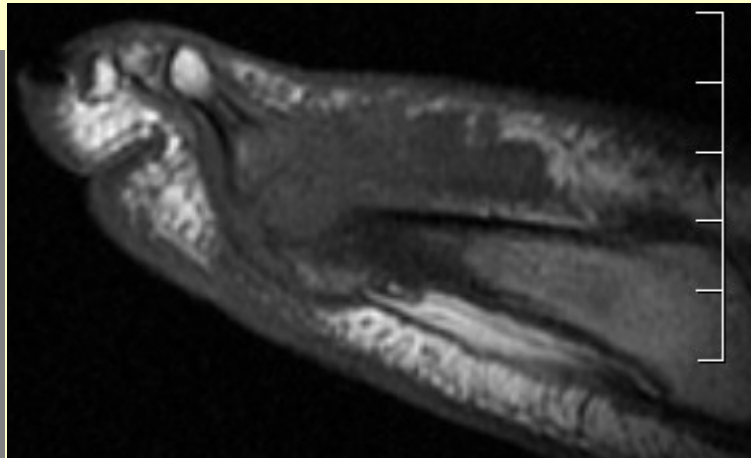
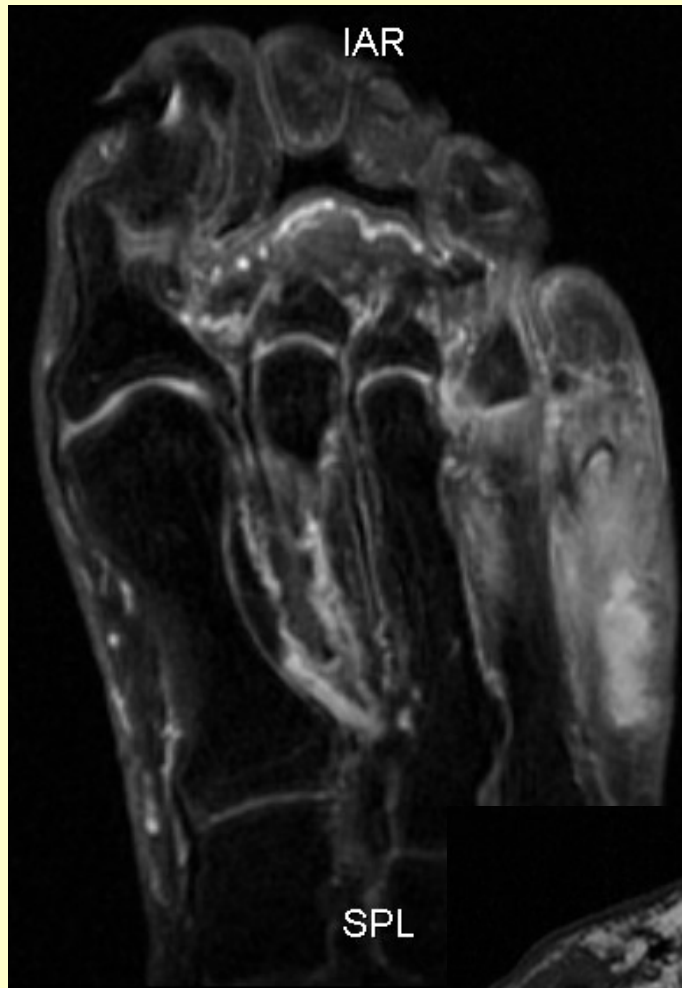
Mann 43: Hælsår

thb 110565



Mann: 33

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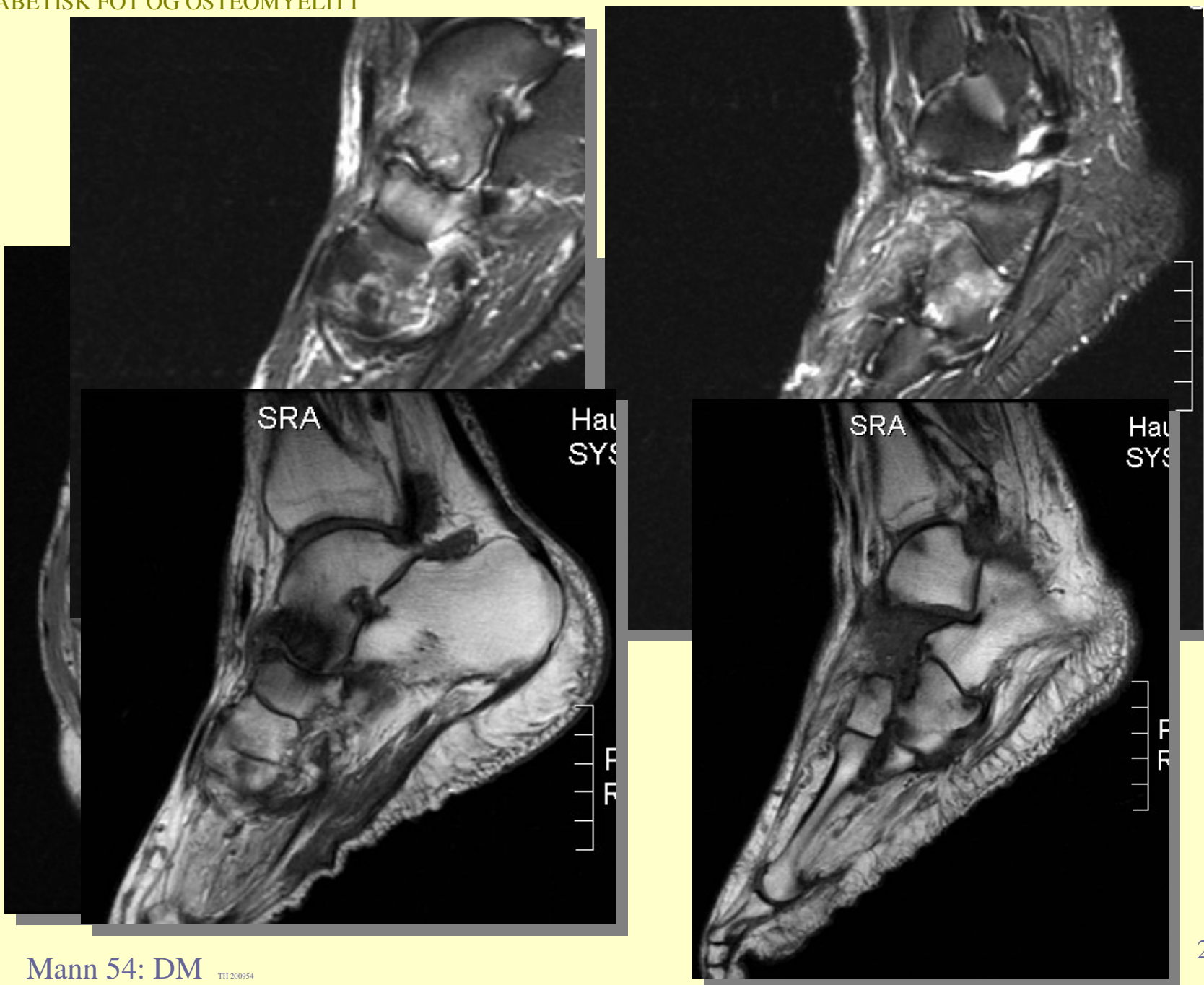
Mann: 39



Kvinne (90) : Osteomyelitt?



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DIABETISK FOT OG OSTEOMYELITT



SLUTT!