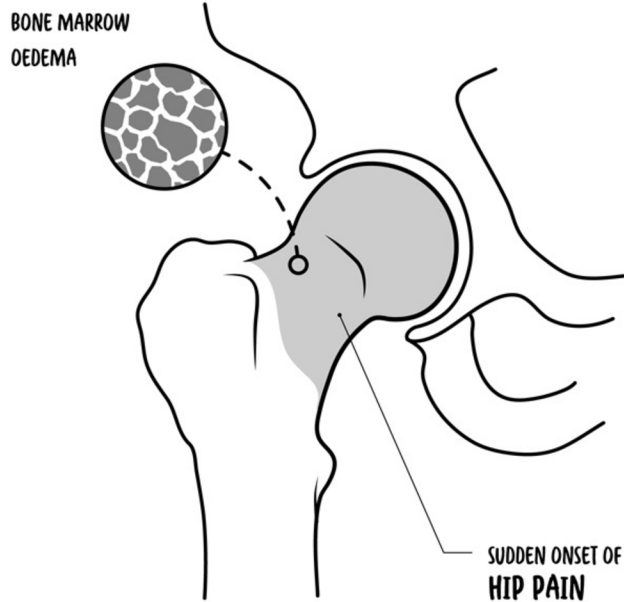
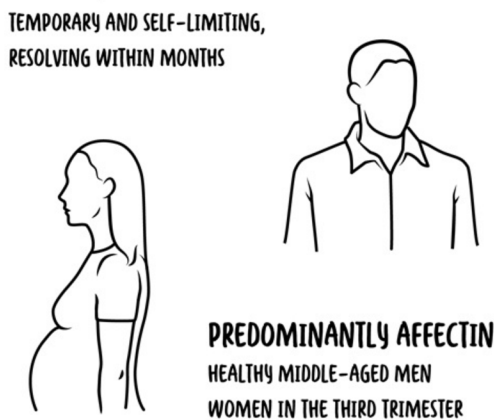


TRANSIENT OSTEOPOROSIS

TEMPORARY AND SELF-LIMITING,  
RESOLVING WITHIN MONTHS

BONE POROUS / LESS DENSE  
REDUCED BONE STRENGTH



THEORIES  
PATHOPHYSIOLOGY

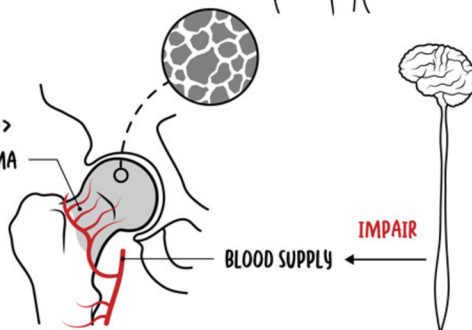
TRANSIENT DISTURBANCE  
IN BONE VASCULARITY

MICROVASCULAR SPASM  
VENOUS OUTFLOW OBSTRUCTION  
↑ INTRAOSSEOUS PRESSURE

REGIONAL ISCHEMIA ->  
BONE MARROW OEDEMA

HORMONAL INFLUENCE

IN PREGNANCY  
↑ BONE TURNOVER, SUSCEPTIBILITY  
TO DEMINERALISATION



NEUROGENIC FACTORS

ALTERED  
SYMPATHETIC NERVE  
ACTIVITY

TRANSIENT OSTEOPOROSIS

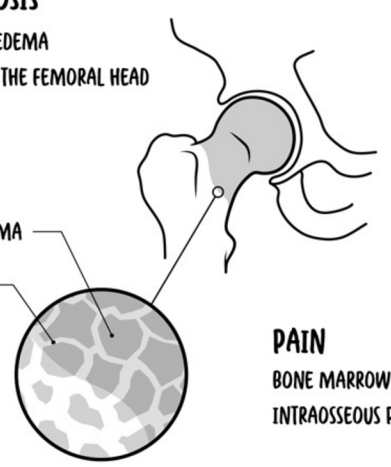
REVERSIBLE BONE MARROW OEDEMA  
NO STRUCTURAL COLLAPSE OF THE FEMORAL HEAD

DIFFUSE BONE MARROW OEDEMA  
TRABECULAR THINNING

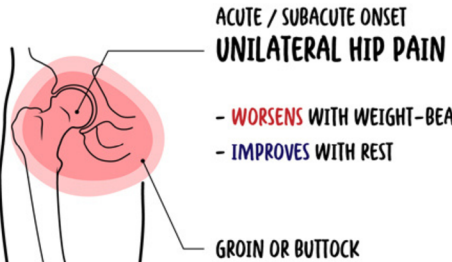
↑ OSTEOCLASTIC ACTIVITY  
NO NECROSIS / FIBROSIS

HISTOLOGICAL

RESOLVE SPONTANEOUSLY OVER TIME



CLINICAL PRESENTATION



LIMPING

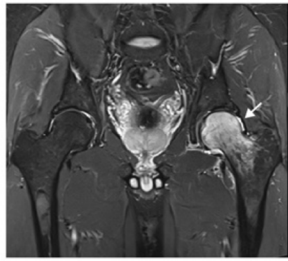
↓ RANGE OF MOTION



NO PRECEDING TRAUMA  
NO SYSTEMIC SIGNS OF INFLAMMATION

LABORATORY INVESTIGATIONS  
(CRP, ESR, INFLAMMATORY MARKERS)  
WITHIN NORMAL LIMITS

DIAGNOSIS | IMAGING



MRI  
DIFFUSE BONE MARROW OEDEMA  
WITHOUT SUBCHONDRAL FRACTURES  
OR COLLAPSE

TINNELL J, TRANSIENT OSTEOPOROSIS OF THE HIP  
CASE STUDY, RADIOPAEDIA.ORG



X-RAY  
MAY BE NORMAL  
DIFFUSE OSTEOPENIA

TINNELL J, TRANSIENT OSTEOPOROSIS OF THE HIP  
CASE STUDY, RADIOPAEDIA.ORG



CT  
MAY SHOW DECREASED DENSITY

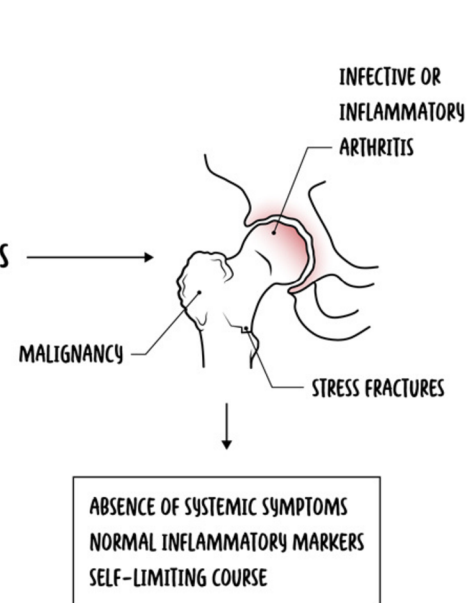
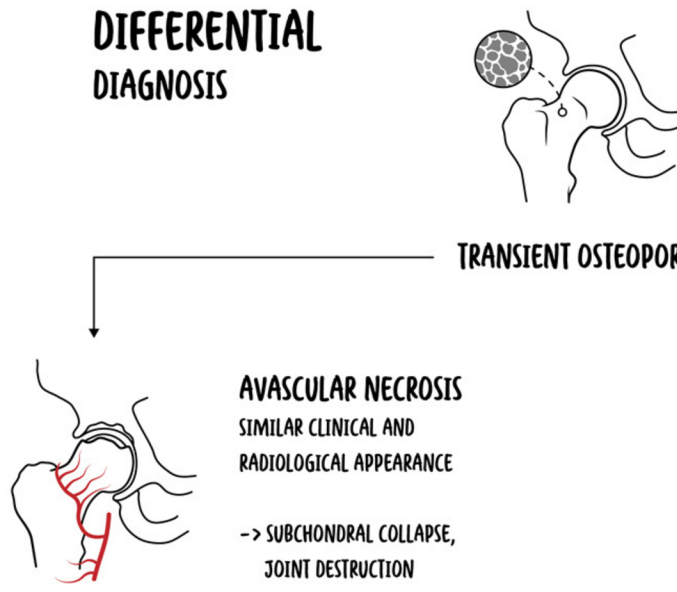
SOFIANE Z, TRANSIENT OSTEOPOROSIS OF THE HIP  
CASE STUDY, RADIOPAEDIA.ORG



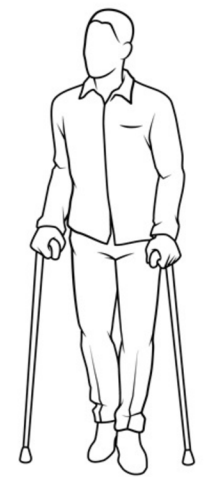
BONE SCAN  
INCREASED UPTAKE IN THE AFFECTED HIP

RADSWIKI T, TRANSIENT OSTEOPOROSIS OF THE HIP  
CASE STUDY, RADIOPAEDIA.ORG

DIFFERENTIAL  
DIAGNOSIS



MANAGEMENT & PROGNOSIS

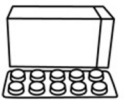


PROTECTED WEIGHT-BEARING  
ANALGESIA, AND PHYSIOTHERAPY

COMPLETE SYMPTOM RESOLUTION  
WITHIN 6-12 MONTHS



IMAGING  
REVERSAL OF BONE MARROW OEDEMA  
RESTORATION OF NORMAL BONE DENSITY



RECURRENCE IS UNCOMMON  
OCCASIONALLY - CONTRALATERAL HIP

Armando H. Faigl