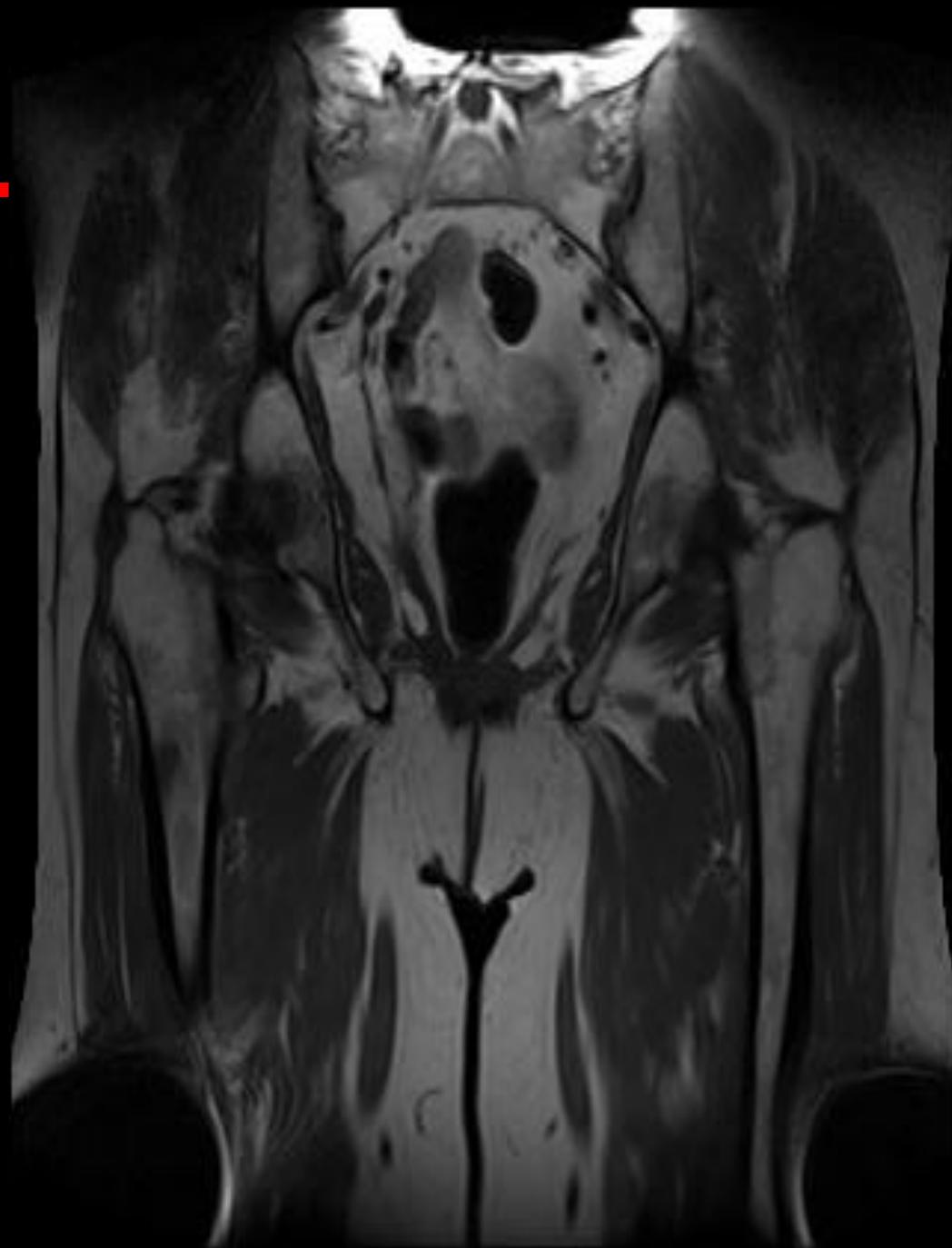


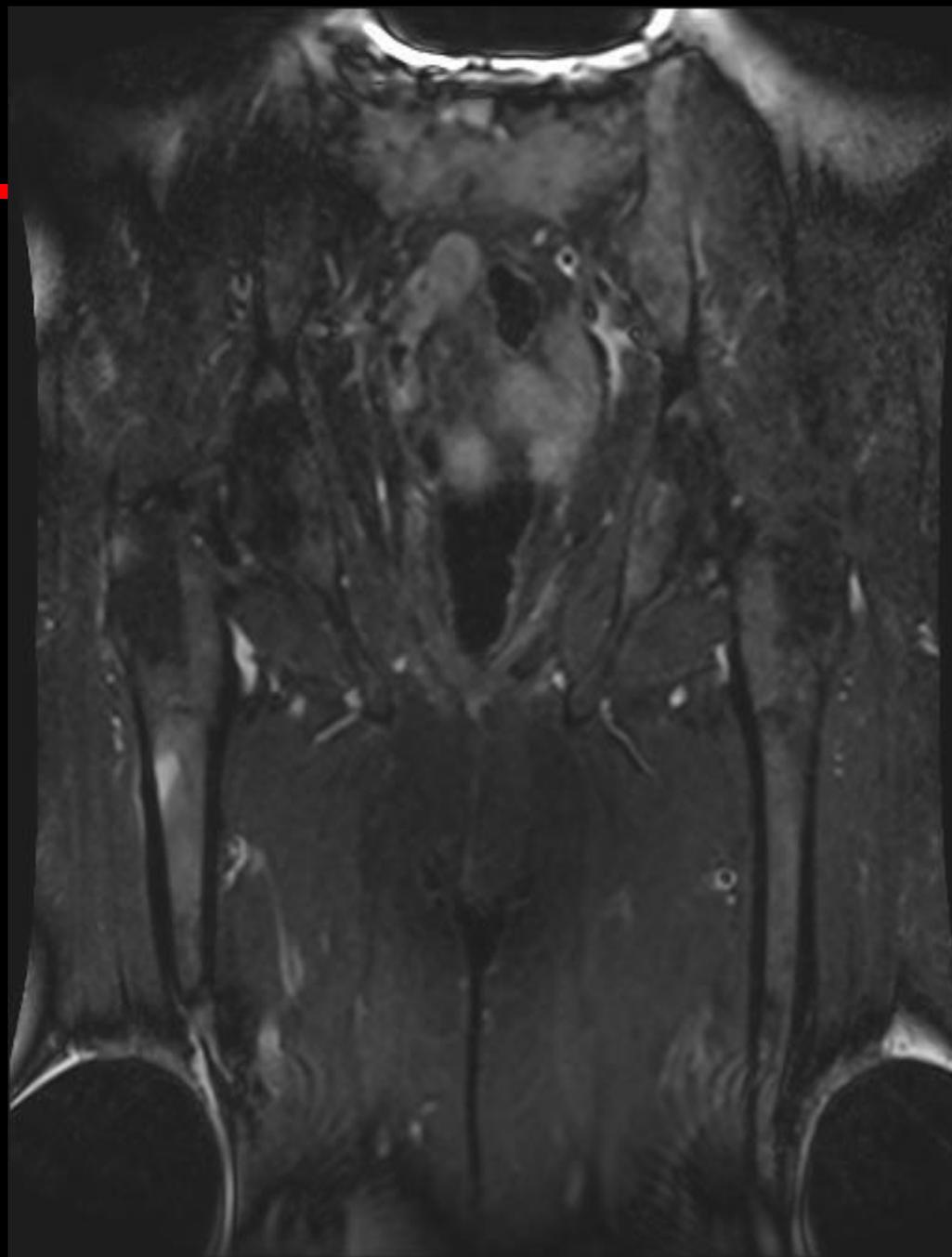
# 85 year-old female

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Presented with increasing bilateral hip pain, right worse than left, questionable calcific spicules on radiographs.







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- A bisphosphonate that involves inducing osteoclast apoptosis reducing bone resorption.
  - Increased prevalence of low-energy subtrochanteric femoral fractures.
  - May relate to osteoclast inhibition resulting in suppression of bone turnover and bone remodeling, leading to atypical skeletal fragility.
  - Paradoxical association after long-term (> 4 years) use.