References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.

**Literature Search**
**ACR Appropriateness Criteria®**
**Osteonecrosis**

**Literature Search Performed on:** 10/23/2020  
**Beginning Date:** January 2014  
**End Date:** September 2020  
**Database:** Ovid MEDLINE(R) ALL <1946 to October 22, 2020>

**Search Strategy**

1. (exp diagnostic imaging/ and osteonecrosis/) or osteonecrosis/di, dg (3213)  
2. 1 and (Femur Head/ or Humeral Head/ or Talus/ or Upper Extremity/ or Joints/ or Shoulder Joint/ or Humerus/) (501)  
3. 1 and (Prednisolone/ or Glucocorticoids/ or Diphosphonates/ or Pharmacogenetics/) (345)  
4. 1 and ("Sensitivity or Specificity"/ or Risk Factors/ or Predictive Value of Tests/) (262)  
5. 1 and (diffuse or systemic or multifocal or talus or drug induced or humer$2 or joint*).tw. (1011)  
6. 1 and (Follow-Up Studies/ or Comparative Study/ or Multicenter Study/ or Prospective Studies/ or Cohort Studies/ or Retrospective Studies/) (980)  
7. femur head necrosis/dg (1642)  
8. exp diagnostic imaging/ and Osteonecrosis/ci (351)  
9. (Shoulder Osteonecrosis and imaging).tw. (2)  
10. or/2-6 (2016)  
11. 7 or 8 or 9 or 10 (3676)  
12. limit 11 to (abstracts and english language and yr="2014 -Current") (572)  
13. (jaw or mandible).ti. and 12 (30)  
14. Mandibular Diseases/ and 12 (7)  
15. 13 or 14 (32)  
16. 12 not 15 (540)  
17. limit 16 to "humans only (removes records about animals)" (511)  
18. limit 17 to children - focussed (43)  
19. 17 not 18 (468)  
20. limit 19 to case reports (78)  
21. 19 not 20 (390)

**Summary**

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