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5 **6** Current concepts on osteonecrosis of the femoral head6
7 Joaquin Moya-Angeler, Arianna L Gianakos, Jordan Villa, Amelia Ni, Joseph M Lane

8

9 Abstract

10 It is estimated **2** that 20,000 to 30,000 new patients are diagnosed with ON annually11 accounting **16** for approximately 10% of the 250,000 total hip arthroplasties (THA) done

12 annually in the United States. The lack of level 1 evidence in the literature makes it

13 difficult **2** to identify optimal treatment protocols to manage patients with pre-collapse14 AVN of the **15** femoral head, and early intervention prior to collapse is critical to

15 successful outcomes in joint preserving procedures. There have been a variety of

16 traumatic and atraumatic factors **25** that have been identified as risk factors for17 osteonecrosis, but **the** etiology and pathogenesis still remains unclear. Current18 osteonecrosis diagnosis is dependent upon plain **58** AP and frog-leg lateral radiographs of

19 the hip, followed by MRI. Generally, the first radiographic changes seen by radiograph

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