

**Literature Search**  
**ACR Appropriateness Criteria®**  
**Osteoporosis and Bone Mineral Density**

Literature Search Performed on: 3/4/2016  
Beginning date: January 2015  
End date: February 2016

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 fracture.tw. (132541)
  - 2 exp Absorptiometry, Photon/ (19242)
  - 3 1 and 2 (3144)
  - 4 limit 3 to yr="1995 -Current " (2916)

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Literature Search Performed on: 5/8/2015  
Beginning date: January 1995  
End date: April 2015

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily, Ovid MEDLINE(R) and Ovid OLDMEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 bone density/ (45395)
  - 2 bone.tw. (571274)
  - 3 1 and 2 (40759)
  - 4 aged.mp. (4524691)
  - 5 3 and 4 (21178)
  - 6 limit 5 to (abstracts and english language and humans) (18751)
  - 7 limit 6 to case reports (249)
  - 8 6 not 7 (18502)
  - 9 limit 8 to yr="1995 -Current " (16769)

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Literature Search Performed on: 9/4/2013  
Beginning date: January 2011  
End date: August 2013

Database: Ovid MEDLINE(R), Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid OLDMEDLINE(R) <1946 to Present>

Search Strategy:

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- 1 exp Diagnostic Imaging/ (1730442)
  - 2 \*Bone Density/ (19842)
  - 3 \*Osteoporosis/ (24330)
  - 4 \*Osteoporosis, Postmenopausal/ (7753)
  - 5 Osteoporosis/ and Premenopause/ (308)
  - 6 \*Osteoporosis/ and \*Spinal Fractures/ (1088)
  - 7 3 or 4 or 5 or 6 (31892)
  - 8 2 and 7 (5278)
  - 9 1 and 8 (2168)
  - 10 limit 9 to (guideline or meta analysis or practice guideline) (17)
  - 11 limit 9 to "all adult (19 plus years)" (1697)

- 12 10 or 11 (1705)
- 13 limit 12 to (abstracts and english language and humans and yr="2011 -Current") (214)
- 14 limit 13 to case reports (1)
- 15 13 not 14 (213)
- 16 remove duplicates from 15 (176)

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### **Literature Search Summary**

Of the 89 citations in the original bibliography, 6 were retained in the final document.

A literature search was conducted in September 2013, May 2015 and March 2016 to identify evidence published since the *ACR Appropriateness Criteria® Osteoporosis and Bone Mineral Density* topic was finalized. Using the search strategy described above, 19,861 articles were found. Sixty-eight articles were added to the bibliography. The remaining articles were not used due to either poor study design, the articles were not relevant or generalizable to the topic, the results were unclear or biased, or the articles were already cited in the original bibliography.

The author added 13 citations from bibliographies, websites, or books that were not found in the literature search.

Two citations are supporting documents that were added by staff.