

**Algorithm**

Boxes 12 and 13 were removed.

**Annotations**

- 3) Added the following literature to the annotation section regarding transplantation bone loss: Ebeling, 2007; Hamdy, 2007; Fleischer, 2008; Stein, 2007; Tauchmanova, 2007.
- \*4) The sections on Calcium and Vitamin D were updated. New articles were added to support the revision: Ross, 2000; Tang, 2007; Reid, 2002; Bolland, 2008; Dawson-Hughes, 2005; Holick, 2008.

In the section on Prevention of Falls, verbiage was added regarding Tai Chi. The article from Lee, 2008 was added in support.

- 5) Risk factors for osteoporosis and osteoporotic fractures were updated from the 2007 International Society of Clinical Densitometry (ISCD) position statement and from the article by Baim, 2008
- 8) Bariatric Surgery was added as another potential cause of an individual's high risk of bone loss and future fracture.
- \*9) The 2008 National Osteoporosis Foundation recommendations for bone density testing in certain individuals were added.

A paragraph describing peripheral and central DXA, quantitative computed tomography and quantitative ultrasound densitometry was added.

The updates from the 2007 ISCD position statement were added to the annotation describing vertebral fracture assessment (VFA).

- \*11) The Fracture Risk Assessment Tool (FRAX™) developed by the World Health Organization was introduced in this annotation. An article from Kanis, 2008 was also added in support of the assessment tool.

The verbiage from previous annotations 12 and 13 were combined into this annotation.

- \*13) Verbiage was added regarding the use of Zoledronate and Teriparatides as treatment options for Osteoporosis. A discussion of bisphosphonates and atrial

fibrillation, and osteonecrosis of the jaw associated with bisphosphonates was added. Articles by Black, 2007; Khosla, 2007; Cummings, 2007; Heckbert, 2008; Sorenson, 2008 and Lyles, 2007 were added.

The treatment and prevention of glucocorticoid-induced osteoporosis was revised. Articles by Hodsman, 2005; Sambrook, 2007 and Saag, 2007 were added.

New literature was added to the section on treatment to prevent bone loss after transplantation: Yao, 2008; Torregrosa, 2007; Trabulus, 2008 and Yong, 2007.

A section on adherence (compliance + persistence) to medications was added. The following articles were added: Cramer, 2005; Siris, 2006; Cramer, 2006; Cooper, 2006; Emkey, 2005 and Recker, 2005.

### **Priority Aims & Suggested Measures**

A priority aim was added: Improve the treatment of patients diagnosed with osteoporosis. Corresponding measures were also added.

*\*An asterisk indicates any changes in clinical practice recommendations*