Dr Rob Will

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SECONDARY CONDITIONS LEADING TO BONE LOSS (OSTEOPOENIA OR OSTEOPOROSIS) OR MINIMAL TRAUMA FRACTURES

<u>DIAGNOSIS</u> <u>DIAGNOSTIC TESTS</u>

Hyperparathyroidism Total serum or ionised calcium and PTH

Hyperthyroidism Free T4 and TSH

Renal Impairment Creatinine

Chronic Liver disease LFT's

Osteomalacia Calcium, Alkaline Phosphatase,

25 Hydroxy Vitamin D3 level

Myeloma Full blood count, ESR, QEPP

Urine Bence Jones protein

Hypogondadism Male: Testosterone. SHBG.LH

Female (only pre-menopausal): Oestradiol, FSH, LH

Medicines leading to secondary osteoporosis include oral or inhaled corticosteroids, Methotrexate, Azathioprine, long-term Heparin, Cyclosporin and anti-androgens used for the treating of prostate cancer. Dilantin, Phenobarbitone and Carbamazepine produce impaired mineral metabolism and osteoporosis. Potent estrogen inhibitors may also lead to rapid bone loss.

Also consider Rheumatoid Arthritis, SLE, Ankylosing Spondylitis., Coeliac disease, Ulcerative Colitis and Crohn's disease.