

Table 5. Causes of secondary osteoporosis or that have adverse effect on bone health (15, 20-27)

Drugs	Endocrine disorders	Gastrointestinal & Nutritional disorders
Glucocorticoid steroids Aromatase inhibitors Anticonvulsants (particularly phenytoin, phenobarbital) GnRH agonists and antagonists Androgen-deprivation agents Cancer chemotherapy Immunosuppressants (eg. cyclosporine)	Hyperparathyroidism Hyperthyroidism Hypercortisolism/Cushing's syndrome Diabetes mellitus (Type 1 & Type 2) Prolonged premature hypogonadism Acromegaly	Inflammatory bowel disease Celiac disease Bariatric surgery Pancreatic insufficiency Other malabsorptive syndromes Primary biliary cholangitis Chronic liver disease Eating disorder Malnutrition Parenteral nutrition Vitamin D and/or calcium deficiency
Rheumatologic disorders	Genetic disorders	Other disorders
Rheumatoid arthritis Other inflammatory arthritis disorders Systemic lupus erythematosus	Osteogenesis imperfecta Hypophosphatasia Other genetic causes of osteomalacia	Multiple myeloma Other marrow-related disorders Idiopathic hypercalciuria Chronic kidney disease/renal failure Chronic obstructive pulmonary disease Organ transplantation Multiple sclerosis Parkinson's disease Other neuromuscular disorders Prolonged immobilization Paget's disease Acquired causes of osteomalacia