

**TABLE 1.** Classification of osteoporosis in men

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**I. PRIMARY**

- Age-related
- Idiopathic

**II. SECONDARY due to:**

**A. Endocrine disorders**

- Hypercortisolaemia (e.g. Cushing's syndrome)
- Hypogonadism
- Hyperparathyroidism
- Hyperthyroidism
- Diabetes mellitus (type 1 and 2)

**B. Gastrointestinal disorders**

- Malabsorption syndromes
- Inflammatory bowel disease (Crohn's disease, ulcerative colitis, celiac disease)
- Primary biliary cirrhosis
- Liver failure
- Gastrectomy

**C. Medication**

- Glucocorticosteroids
- GnRH-analogues
- Thyroid hormones
- Anticonvulsants
- Chemotherapy
- Anticoagulants
- Antidiabetics

**D. Systemic diseases**

- Rheumatoid arthritis
- Ankylosing spondylitis
- Systemic mastocytosis
- Neoplasms (e.g. multiple myeloma)

**E. Genetic diseases**

- Osteogenesis imperfecta
- Cystic fibrosis
- Homozygous  $\beta$ -thalassaemia
- Sickle cell anaemia
- Homocystinuria

**F. Various conditions**

- Renal failure
  - Idiopathic hypercalciuria
  - Chronic obstructive pulmonary disease
  - Transplantation
  - Neuromuscular diseases
  - Immobilization
  - Alcoholism
  - Smoking
  - Malnutrition
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