

Vitamin D Analogues

100% Active

Paricalcitol & Calcipotriene

- Both causes less hypercalcaemia than Calcitriole
- Suppress parathyroid hormone, causes less hypercalcaemia
- ⊗ for patients with 2° hyperparathyroidism in patient with CKD

50% Active

Dehydrocalciferol

- 1) for patient with chronic kidney disease (CKD)
- 2) 2° hyperparathyroidism

Cholecalciferol

Vitamin D supplement

Drugs for Bone Mineral Homeostasis

Non-hormonal Bisphosphonates

very irritant

Alendronate

- ⊗ Treatment of Osteoporosis
- ⊗ Management of hypercalcaemia

Calcitonin

⊖ Osteoclast

- ⊗ Treatment of Osteoporosis

↓ Ca^{++} ↓ Phosphate

⇒ Salmon Calcitonin → ↑ PTH ↑ Potency

PTH Analogue

Teriparatide

- ⊗ Treatment of Osteoporosis

Glucocorticoids

Cortisone & Prednisolone

!! Cause Osteoporosis !!

↓ Ca^{++} by ↑ renal Ca^{++} excretion

⊗ might be useful in hypercalcaemia

Non-hormonal Calcimimetics

Cinacalcet

mimics calcium

↓ serum Calcium
activates Calcium-sensing receptors

- ⊗ for 2° hyperparathyroidism
- ⊗ for parathyroid carcinoma

Estrogen & SERMs

Causes Breast/Endometrial cancers

Raloxifene

No cancers

- ⊗ Both prevent/delay bone loss in PMW