

CALVIT TABLET/SUSPENSION

Generic name:	Calcium Phosphate and Cholecalciferol
Category:	Calcium supplementation
Composition:	Each film coated tablet contains 1250 mg of CaCO ₃ from Oyster shell; Elemental calcium 500mg; Cholecalciferol (Vit. D ₃) BP 250 IU Each 10ml contains Calcium Phosphate BP 400mg; Cholecalciferol (Vit. D ₃) BP 200 IU
Presentation:	Available as 30 tablets x10 blisters Available in 170ml amber colored glass bottle

MECHANISM OF ACTION

Calcium and Phosphorous are the two major components of bone. They are important in the metabolism of cells in the body and bone, therefore functions as a storage reservoir. Vitamin D is essential for promoting absorption & utilization of Calcium & Phosphate and for normal calcification of bone. It regulates serum Calcium concentration – a homeostatic mechanism. It stimulates Calcium & Phosphate absorption from small intestine and mobilize calcium from bone. Cholecalciferol is transferred to the liver & converted into Calcifediol (25 - Hydroxycholecalciferol) which then is transferred to kidneys & converted to Calcitriol (1, 25 – Dihydroxycholecalciferol). Calcitriol appears to act by: Increasing absorption of Calcium from the intestine; Regulates the transfer of Calcium ion from bone & re-absorption from distal renal tubule, Ionized Plasma Calcium level regulates the secretion of PTH. Therefore, Vit. D is included to increase Calcium absorption in Calcium Supplement for hypoparathyroidism.

INDICATION

- Hypocalcemia
- Osteomalacia
- Rickets
- Chronic renal failure
- Osteoporosis
- Hyperkalemia
- Hypoparathyroidism

PHARMACOKINETICS

Absorption: Readily absorbed from small intestine (proximal & distal) Cholecalciferol may be absorbed more readily.

- Half-life (*Calcitriol*): 3-6 hrs.
- Onset of action: 2-6 hrs.
- Duration of action: 3-5 days
- Elimination: Biliary/renal

DOSAGE

Calvit Suspension:

Adult: 2 Teaspoonful (10ml) 2-3 times daily
Children above one year: 1 teaspoonful (5ml) 2-3 times daily
Infants under one year: 1 teaspoonful (5ml) daily

Calvit Tablet:

1 tablet 2-3 times daily with meals or as directed by the Physician

PRECAUTIONS

- Pregnancy
- Chronic Vit. D Toxicity

Maternal Hypercalcemia may cause increase sensitivity suppression of Parathyroid Hormone (PTH) function and Mental retardation in infants.

CONTRAINDICATIONS

- Hypercalcemia patients
- Hypervitaminosis D
- Renal osteodystrophy with hyperphosphatemia
- Hypersensitivity effects of Vit. D
- Breast feeding women – can cause hypercalcemia in infants.

DRUGS INTERACTION

- Calcium – containing preparation in high doses
- Diuretics: Thiazide
- Mineral Oils (reduce intestinal absorption)
- Digitalis (arrhythmia, hypercalcemia may potentiate Digitalis)
- Ca-tetracycline complexes formation.

OVERDOSE

- Constipation in Children & Adolescence
- Loss of appetite
- Metallic taste
- Frequent urination
- Muscle Pain
- Bone Pain

For further information, please contact:

Market Planning Department



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