

# Calpo – D

## Calcium + Vitamin-D

### COMPOSITION:

**Calpo–D Tablet:** Each tablet contains Calcium Carbonate BP 1250 mg equivalent to 500 mg elemental Calcium, Vitamin-D USP 200 I.U.as Cholecalciferol BP.

### PHARMACOLOGY:

Calcium is used as a pharmacological agent in humans almost entirely to remedy deficiency. Adequate calcium in the blood is so vital to a wide variety of bodily functions that our internal biochemistry will not tolerate a deficiency even for short periods. Clinical evidence suggests that calcium is useful for the Prevention and treatment of osteoporosis and associated fractures. Vitamin-D is also essential for healthy Bones as it aids in calcium absorption from the GI tract. In addition to this it stimulates bone formation. Clinical studies show that calcium and vitamin-D has synergistic effects on bone growth as well as in Osteoporosis and fracture prevention.

### INDICATION:

Calcium and Vitamin-D is used for the treatment of osteoporosis, osteomalacia, rickets, tetany, and Parathyroid disease. Also used in raised calcium requirement for children and adolescents at times of rapid growth, inadequate intake of calcium in the diet due to malnutrition, prevention and treatment of osteoporosis, disorders of osteogenesis and tooth formation (in addition to specific treatment),latent tetany and during pregnancy and lactation. It is also used as routine supplement and phosphate binder in chronic renal failure.

### DOSAGE & ADMINISTRATION:

**Adults and Elderly and children above 12 years of age:** 2 tablets per day, preferably one tablet each morning and evening.

**Children:** Not recommended for children under 12 years.

### CONTRAINDICATION:

- Hypercalcemia and hyperparathyroidism
- Hypercalciuria and nephrolithiasis
- Hypersensitivity to the component of this preparation
- Severe renal insufficiency
- Concomitant digoxin therapy(requires careful monitoring of serum calcium level)

### WARNING & PRECAUTION:

When hypercalcemia occurs, discontinuation of the drug is usually sufficient to return serum calcium Concentrations to normal. Calcium salts should be used cautiously in patients with sarcoidosis, renalor Cardiac disease, and in patients receiving cardiac glycosides. Patients with a history of stone formation should also be recommended to increase their fluid intake.

### USE IN PREGNANCY AND LACTATION:

During pregnancy and lactation treatment should always be under the direction of a physician. During pregnancy and lactation, requirements for calcium and vitamin D are increased but in deciding on the required supplementation allowances should be made for availability of these agents from other sources. If calcium iron supplements are both required to be administered to the patient, they should be taken at different times. Overdoses of vitamin D have shown teratogenic effects in pregnant animals. In humans, long term hypercalcaemia can lead to physical and mental retardation, aortic stenosis and retinopathy in a new born child. Vitamin D and its metabolites pass into the breast milk.

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### **SIDE EFFECT:**

Orally administered Calcium Carbonate may be irritating to the GI tract .It may also cause constipation. Hypercalcemia is rarely produced by administration of calcium alone, but may occur when large doses are given to patients with chronic renal failure. Also there may be allergic reactions, irregular heartbeats, nausea, vomiting, decreased appetite dry mouth and drowsiness. Following administration of vitamin-D supplements occasion skin rash has been reported.

### **DRUG INTERACTION:**

It has possible interaction with digoxin, antacids containing calcium, aluminum or magnesium, other calcium supplements, calcitriol or other vitamin-D supplements ;tetracycline, Doxycycline, aminocycline or oxytetracycline etc.So before taking any of these drugs consultations of the physicians are needed

### **OVERDOSE:**

Symptoms of overdose may include nausea and vomiting, severe drowsiness, dry mouth, loss of appetite, metallic taste, stomach cramps, unconsciousness, diarrhea, weakness, headache, constipation, dizziness or irritability.

### **STORAGE:**

Store in a cool and dry place (below 30°C), protected from light and moisture. Keep out of reach of children.

### **PACKING:**

**Calpo-D** Tablet: Each HDPE container contains 15 tablets.

**Calpo-D** Tablet: Each HDPE container contains 30 tablets.

### **Manufactured by**



MEDICON Pharmaceuticals Ltd.  
Mirpur, Dhaka, Bangladesh.