OMPOSITION
ach film coated tablet contains
Calcium Carbonate BP
Eq. to Elemental
litamin D3 BP
Excipients
xlour: Titanium Dioxide BP
ESCRIPTION:
IANCAL 500 is a White, elongated, biconvex, film coated tablet having score line on one side and plain on the other side
calcium Carbonate \& Vitamin D 3 Tablets are indicated in Prevention and treatment of calcium and vitamin D 3 deficiency in the elderly.
PHARMACODYNAMICS:
Pharmacotherapeutic group: Calcium, combinations with other drugs.
Vitamin D3 increases the intestinal absorption of calcium.
Administration of calcium and vitamin D3 counteracts the increase of parathyroid hormone (PTH) which is caused by calcium deficiency and which cause increased bone resorption

## HARMACOKINETICS:

Calcium
Absorption: The amount of calcium absorbed through the gastrointestinal tract is approximately $30 \%$ of the swall owed dose
istribution and metabolism: $99 \%$ of the calcium in the body is concentrated in the hard structure of bones and teeth. The remaining $1 \%$ is present
 alcium can be slightly to iccrease, phosphate or other anions, the remaining $40 \%$ being bound to proteins, principally albumin. The bioavailability of Elimination. Calcium is eliminated through fant intake of food
eabsorption.
Absorption: Vitamin D3 is easily absorbed in the small intestine
Distribution and metabolism: Cholecalciferol and its metabolites circulate in the blood bound to a specific globulin. Cholecalaiferol is converted in 1,25 -dihydroxycholecalciferol is the metabolite responsible for increasing calcium absorption. Vitamin D3 which is not metabolised is stored in adipose and muscle tissues.
Elimination:Vitamin D 3 is excreted in faeces and urine.
alcium Carbonate \& Vitamin D3 Tablets are indicated in Prevention and treatment of Calcium and Vitamin D3 deficiency in the elderly. Vitamin 3 and Calcium Carbonate supplement in addition to specific osteoporosis treatmentof patients who are at risk of Vitamin D3, Zinc and Calcium deficiency.

OSAGEANDADMINISTRATION
tablet twice daily, preferably 1 tablet in the morning and 1 tablet in the evening or as directed by the physician. It is best taken with or just after main meals with a full glass of water

Hypercalciuria and hypercalcaemia and diseases and/or conditions, which lead to hypercalcaemia and/or hypercalciuria (e.g. myeloma, bone metastases, primary hyperparathyroidism)
Nephrolithiasis.
iNephrocalcinosis
Hypervitaminosis $D$.
Severe renal impairment and renal failure.
Severe renal impairment and renal ailure.
Hypersensitivity to calcium carbonate, colecalciferol
Hypersensitivity to any of the excipients.
SPECIAL WARNING AND PRECAUTION FOR USE:
IANCAL 500 film-coated tablets should be prescribed with caution to patients suffering from sarcoidosis due to risk of increased metabolism of vitamin D3 into its active form. These patients should be monitored with regard to the calcium content in serum and urine
uring long-term treatment, serum calcium levels should be foilowed and rana function shoud e. Monitoring is especially important in elderly patients on concomitant treatment with cardiac glycosides or diuretics and in patients with dose should be reduced or the treatment discontinued.
Vitamin D3 sho reduced or the treatment discontinued. viamin D3 should be used with caution in patients with impairment of renal function and the effect on calcium and phosphate levels should be cholecalciferol is not metabolised normally and other forms of vitamin D3 should be used.
ANCAL 500 film-coated tablets should be used cautiously in immobilised patients with osteoporosis due to increased risk of hypercalcaemia. he content of vitamin D3 ( 800 IU ) in CIANCAL 500 film-coated tablets should be considered when prescribing other medicinal products ontaining vitamin D3. Additional doses of calcium or vitamin D3 should be taken under close medical supervision. In such cases it is necessary to

## NTERACTION WITH OTHER MEDICINE AND CONCOMITANT USE:

hiazide diuretics reduce the urinary excretion of calcium. Due to increased risk of hypercalcaemia, serum calcium should be regularly monitored during concomitantuse of hiazide diureics.
Systemic corticosteroids reduce calcium absorption reduce the effect of vitamin D3 since the metabolism increases
Hypercalcaemia may increase the toxicity of cardiac glycosides during treatment with calcium and vitamin D3. Patients should be monitored with iogram (ECG) and serum calcium levels.
calcium and levothyroxine should be separated by at least fourhours of calcium, due to decreased levothyroxine absorption. Administration of If a bisphosphonate is used concomitantly, this preparation should be administered at least one hour before the intake of CIANCAL 500 since

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dironsals and such thre hours before
Simultaneous treatment with ion exchange resins such as cholestyramine or laxatives such as paraffin oil may reduce the gastrointestina absorption of vitamin D3
Calcium carbonate may interfere with the absorption of concomitantly administered tetracycline preparations. For this reason, tetracycline The absorption of quinolone antibiotics
calium. Quinolone antibiotics should be taken two Oxalic acid (found in spinach and rhubarb) and phytic acid (found in whole cereals) may inhibit calcium absorption through formation of insoluble compounds with calcium . The patient should not take calcium products within two hours of eating foods high in oxalic acid and phytic acid.

Pregnancy
During pregnancy the daily intake should not exceed 1500 mg Calcium and 600 IU Vitamin D. CIANCAL 500 is not recommended during pregnancy. Studies in animals have shown reproductive toxicity of high doses of Vitamin D. In pregnant women, overdoses of Calcium and
Vitamin D should be avoided as permanent hypercalcaemia has been related to adverse effects on the developing foetus. CIANCAL 500 can be used during pregnancy, in case of a Calcium and Vitamin D deficiency.
Breast-feeding
CIANCAL 500 can be used during breast-feeding. Calcium and Vitamin D3 pass into breast milk. This should be considered when giving Fertility
Normal endogenous levels of Calcium and Vitamin D3 are not expected to have any adverse effects on fertility.

## EFFECTS ONABILITYTO DRIVEAND USE MACHINES

## Not available.

## UNDESIRABLE EFFECTS

Adverse reactions frequencies are defined as: uncommon ( $\geqslant 1 / 1,000<1 / 100$ ) rare ( $>1 / 10,000,<1 / 1,000$ ) or not known (cannot be estimate Immune system disorders
Not known: Hypersensitivity reactions such as angioedema or laryngeal oedema
Metabolism and nutrition disorders
Uncommon: Hypercalcaemia and hypercalciuria

## Rare: Constipation, flatulence

Skin and subcutaneous disorders
overdose:
Overdose can lead to hypervitaminosis and hypercalcaemia. Symptoms of hypercalcaemia may include anorexia, thirst, nausea, vomiting constipation, abdominal pain, muscle weakness, fatigue, mental disturbances, polydipsia, polyuria, bone pain, nephrocalcinosis, renal calcu and in severe cases, cardiac arrhythmias. Extreme hypercalcaemia may result in coma and irreversible renal damage and soft tissue calcification.
Vitamin A, Vitamin D3 and Cardiac glycosides must also and Vitamin D3 must be discontinued. Treatment with Thiazide diuretics, Lithium treatment with loop diuretics, bisphosphonates, calcitonin and corticosteroids. Serum, and, according to severity, isolated or combined treatment with loop diuretics, bisphosphonates, calcitonin

SHELFLIFE:
3 years
PACKAGING:
10 tablets are packed in the Alu-Alu Blister Pack. Such 3 blisters are packed in printed carton along with pack insert.
STORAGE CONDITION

2 ${ }^{\text {Marketed by: }}$
Slim Pharmaceuticals (PVt) L
No: 98/10, Namal Mawatha,
Kahanthota Road, Malabe,Sri Lanka
Manufactured by:
Iso 001.20158 WHO PMP Certited $c_{0}$

Roorkee, Haridwar,
QRegd. Trademak

