Pharmacode Position shall be changed depending upon the Printer's Machine suitability.



Calcitriol Capsules

Rx only

DESCRIPTION DESCRIPTION Calcitriol is a synthetic vitamin D analog which is active in the regulation of the absorption of calcium from the gastrointestinal tract and its utilization in the body. Calcitriol is available as capsules containing 0.25 mcg or 0.5 mcg calcitriol All dosage forms contain butylated hydroxyanisole (BHA) and butylated hydroxytoluene (BHT) as antioxidants. The capsules contain medium chain triglycerides. Gelatin capsule shells contain glycerin, sorbiol, with the following dye systems: 0.25 mcg FD&C Yellow No. 6, FD&C red No.3 and titanium dioxide: 0.5 mcg FD&C Yellow No. 6, FD&C red No.3 and titanium dioxide. The imprinting ink contains propylene divccl. shellae. black iron oxide. isooroy alcohol. N-butyl alcohol and glycol, shellac, black iron oxide, isopropyl alcohol, N-butyl alcohol and monium hydroxide

Calcitriol is a white, crystalline compound which occurs naturally in humans. It has a calculated molecular weight of 416.65 and is soluble in organic solvents but relatively insoluble in water. Chemically, calcitriol is 9, 10-seco(5Z,7E)-5,7,10(19) cholestatriene-10, 39, 25-triol and has the following structural formula



The other names frequently used for calcitriol are $\rm I\alpha,25\text{-}dihydroxy-cholecalciferol, 1, 25\text{-}dihydroxyvitamin <math display="inline">D_3,$ 1,25-DHCC, 1,25(OH)_2D_3 and 1.25-diOHC.

1,25-diOHC. CLINICAL PHARMACOLOGY Maris natural supply of vitamin D depends mainly on exposure to the ultraviolet rays of the sun for conversion of 7-dehydrocholesterol in the skin to vitamin D₄ (cholecalciferol). Vitamin D₅ must be metabolically activated in the liver and the kidney before it is fully active as a regulator of calcium and phosphorus metabolism at target tissues. The initial transformation of vitamin D₃ is catalyzed by a vitamin D₅-25-hydroxylase enzyme (25-OHase) present in the liver, and the product of this reaction is 25-hydroxyvitamin D₃ (25-(OH) D₁). Hydroxylation of 25-hydroxyvitamin D₃-1 alpha-hydroxylase (alpha-OHase), to produce 1,25-(OH),D₅ (calcitriol), the active form of vitamin D₃. Endogenous synthesis and catabolism of calcitriol, as well as physiological control mechanisms affecting these processes, play a critical role regulating the serum level of calcitriol. Physiological daily production is normally 0.5 to 1.0 mcg and is somewhat higher during periods of increased bone synthesis (eg, growth or pregnancy).

Pharmacodynamics

The two known sites of action of calcitriol are intestine and bone. The two known areas of adults of adults are intestine and bolic A calcitriol receptor-binding protein appears to exist in the mucosa of human intestine. Additional evidence suggests that calcitriol may also act on the kidney and the parathyroid glands. Calcitriol is the most active known form of vitamin D₂ in stimulating intestinal calcium transport. In acutely uremic rats calcitriol has been shown to stimulate intestinal calcium preserving. calcium absorption

The kidneys of uremic patients cannot adequately synthesize calcitriol, the active hormone formed from precursor vitamin D. Resultant hypocalcemia and secondary hyperparathyroidism are a major cause of the metabolic bone disease of renal failure. However, other bone-toxic substances which accumulate in uremia (eg, aluminum) may also contributed contribute.

The beneficial effect of calcitriol in renal osteodystrophy appears to result from correction of hypocalcemia and secondary hyperparathyroidism. It is uncertain whether calcitriol produces other independent beneficial effects. Calcitriol treatment is not associated with an accelerated rate of renal function deterioration. No radiographic evidence of extraskeletal calcification has been found in predialysis patients following treatment. The duration of pharmacologic activity of a single dose of calcitriol is about 3 to 5 days.

Pharmacokinetics

Absorption Calcitriol is rapidly absorbed from the intestine. Peak serum concentrations Calcitrol is rapidly assorbed from the intestine. Peak serum concentrations (above basal values) were reached within 3 to 6 hours following oral administration of single doses of 0.25 to 1.0 mcg of Calcitrol. Following a single oral dose of 0.5 mcg, mean serum concentrations of calcitrol dose from a baseline value of 40.0±4.4 (SD) pg/mL to 60.0± 4.4 pg/mL at 2 hours, and declined to 53.0±6.8 at 4 hours, 50±7.0 at 8 hours, 44±4.6 at 12 hours, and 41.5±5.1 at 24 hours.

Following multiple-dose administration, serum calcitriol levels reached steady-state within 7 days.

Distribution

Calcitriol is approximately 99.9% bound in blood. Calcitriol and other vitamin D mabolites are transported in blood, by an alpha-globulin vitamin D mabolites are transported in blood, by an alpha-globulin vitamin D binding protein. There is evidence that maternal calcitriol may enter the fetal circulation. Calcitriol is transferred into human breast milk

and cyclization to yield ultimately Ia, $25R(OH)_2$ -26, 23S-lactone D₃. The lactone appears to be the major metabolite circulating in humans, with mean serum concentrations of 131±17 pg/mL. In addition, several other metabolites of calcitriol have been identified: $I\alpha$, 25(OH)₂-24-oxo-D₂;

Excretion

Excretion Enterohepatic recycling and biliary excretion of calcitriol occur. The metabolites of calcitriol are excreted primarily in feces. Following intravenous administration of radioalabeled calcitriol in normal subjects, approximately 27% and 7% of the radioactivity appeared in the feces and urine, respectively, within 24 hours. When a 1-mcg oral dose of radiolabeled calcitriol was administered to normal subjects, approximately 10% of the total radioactivity appeared in urine within 24 hours. Cumulative excretion of radioactivity on the sixth day following intravenous administration of radiolabeled calcitriol averaged 16% in urine and 49% in feces. The elimination half-life of calcitriol in serum after single oral doses is about 5 to 8 hours in normal subjects.

Special Populations

Special Populations Pediatric Pharmacokinetics The steady-state pharmacokinetics of oral calcitriol were determined in a small group of pediatric patients (age range: 1.8 to 16 years) undergoing peritoneal dialysis. Calcitriol capsule was administered for 2 months at an average dose of 10.2 ng/kg (SD 5.5 ng/kg). In this pediatric population mean Cmax was 116 pmol/L, mean serum half-life was 27.4 hours, and mean clearance was 15.3 mL/hr/kg¹.

Geriatric No studies have examined the pharmacokinetics of calcitriol in geriatric patients.

Gende Controlled studies examining the influence of gender on calcitriol have not been conducted.

Hepatic Insufficiency

Controlled studies examining the influence of hepatic disease on calcitriol have not been conducted

Renal Insufficiency

Lower predose and peak calcitriol levels in serum were observed in Lower precises and peak calcitrol levels in serum were observed in patients with nephrotic syndrome and in patients undergoing hemodialysis compared with healthy subjects. The elimination half-life of calcitriol increased by at least twofold in chronic renal failure and hemodialysis patients compared with healthy subjects. Peak serum levels in patients with nephrotic syndrome were reached in 4 hours. For patients requiring hemodialysis peak serum levels were reached in 8 to 12 hours; heat fill be an enterplate the def 0 are did to bene are written. half-lives were estimated to be 16.2 and 21.9 hours, respectively.

INDICATIONS AND USAGE

Predialysis Patients Calcitriol capsule is indicated in the management of secondary hyperparathyroidism and resultant metabolic bone disease in patients with moderate to severe chronic renal failure (Ccr 15 to 55 mL/min) not yet on dialysis. In children, the creatinine clearance value must be corrected for a surface area of 1.73 square meters. A serum iPTH level of ≥ 100 pg/mL is strongly suggestive of secondary hyperparathyroidism.

Dialysis Patients

Calcitriol capsule is indicated in the management of hypocalcemia and Galumon topoar habitato management in the management of hypothesian and the resultant metabolic bone disease in patients undergoing chronic renal dialysis. In these patients, calcitriol administration enhances calcium absorption, reduces serum alkaline phosphatase levels, and may reduce elevated parathyroid hormone levels and the histological manifestations of osteitis fibrosa cystica and defective mineralization.

Hypoparathyroidism Patients

Application of the advised of the ad thyroidism.

CONTRAINDICATIONS

calcitriol should not be given to patients with hypercalcemia or evidence of vitamin D toxicity. Use of Calcitriol in patients with known hyper-sensitivity to Calcitrol (or drugs of the same class) or any of the inactive ingredients is contraindicated.

WARNINGS

Varkinkos Overdosage of any form of vitamin D is dangerous (see OVERDOSAGE). Progressive hypercalcemia due to overdosage of vitamin D and its metabolites may be so severe as to require emergency attention. Chronic hypercalcemia can lead to generalized vascular calcification, nephrocalcinosis and other soft-tissue calcification. The serum calcium Times phosphate (Ca x P) product should not be allowed to exceed 70 mg²/dL². Radiographic evaluation of suspect anatomical regions may be useful in the early detection of this condition.

Calcitriol is the most potent metabolite of vitamin D available The administration of calcitriol to patients in excess of their daily requirements can cause hypercalcemia, hypercalciuria, and hyperphosphatemia. Therefore, pharmacologic doses of vitamin D and its derivatives should be withheld during calcitriol treatment to avoid withheld during calcitriol treatment to avoid the during of the statement possible additive effects and hypercalcemia. If treatment is switched from ergocalciferol (vitamin D,) to calcitriol, it may take several months

Magnesium-containing preparations (eg, antacids) and calcitriol should not be used concomitantly in patients on chronic renal dialysis because such use may lead to the development of hypermagnesemia.

Studies in dogs and rats given calcitriol for up to 26 weeks have shown that small increases of calcitriol above endogenous levels can lead to abnormalities of calcium metabolism with the potential for calcification of anomality is the bed. many tissues in the body.

PRECAUTIONS General

General Excessive dosage of calcitriol induces hypercalcemia and in some instances hypercalciuria; therefore, early in treatment during dosage adjustment, serum calcium should be determined twice weekly. In dialysis patients, a fall in serum alkaline phosphatase levels usually antedates the appearance of hypercalcemia and may be an indication of impending hypercalcemia. An abrupt increase in calcium intake as a result of changes in diet (eg, increased consumption of dairy products) or uncontrolled intake of calcium preparations may trigger hypercalcemia.

Should hypercalcemia develop, treatment with calcitriol should be Should hypercalcentia develop, treatment with calculus should be stopped immediately. During periods of hypercalcemain, serum calcium and phosphate levels must be determined daily. When normal levels have been attained, treatment with calcitriol can be continued, at a daily dose 0.25 mg lower than that previously used. An estimate of daily dietary calcium intake should be made and the intake adjusted when indicated. Calcitriol should be given cautiously to patients on digitalis, because hypercalcemia in such patients may precipitate cardiac arrhythmias.

Immobilized patients, eg, those who have undergone surgery, are particularly exposed to the risk of hypercalcemia.

In patients with normal renal function, chronic hypercalcemia may be associated with an increase in serum creatinine. While this is usually associated with an increase in such patients to pay careful attention to those factors which may lead to hypercalcemia. Calcitriol therapy should always be started at the lowest possible dose and should not be increased without careful monitoring of the serum calcium. An estimate of daily dietary calcium intake should be made and the intake adjusted when indicated

Patients with normal renal function taking calcitriol should avoid dehydration. Adequate fluid intake should be maintained.

Information for Patients

The patient and his or her caregivers should be informed about compliance with dosage instructions, adherence to instructions about diet and calcium supplementation, and avoidance of the use of unapproved nonprescription drugs. Patients and their caregivers should also be carefully informed about the symptoms of hypercalcemia (see ADVERSE REACTIONS).

The effectiveness of calcitriol therapy is predicated on the assumption that each patient is receiving an adequate daily intake of calcium. Patients are advised to have a dietary intake of calcium at a minimum of 600 mg daily. The U.S. RDA for calcium in adults is 800 mg to 1200 mg.

Laboratory Tests

Laboratory Tests For dialysis patients, serum calcium, phosphorus, magnesium, and alkaline phosphatase should be determined periodically. For hypoparathyroid patients, serum calcium, phosphorus, and 24-hour urinary calcium should be determined periodically. For predialysis patients, serum calcium, phosphorus, alkaline phosphatase, creatinne, and intact PTH (iPTH) should be determined initially. Thereafter, serum calcium, phosphorus, alkaline phosphatase, and creatinine should be determined monthly for a 6- month period and then determined periodically. Intact PTH (iPTH) should be determined periodically every 3 to 4 months at the time of visits. During the titration period of treatment with calcitriol, serum calcium levels should be checked at least twice weekly (see serum calcium levels should be checked at least twice weekly (see DOSAGE AND ADMINISTRATION)

Drug Interactions

Cholestyramine Cholestyramine has been reported to reduce intestinal absorption of fat-soluble vitamins; as such it may impair intestinal absorption of calcitriol (see WARNINGS and PRECAUTIONS: General).

enytoin/Phenobarbital

The coadministration of phenytoin or phenobarbital will not affect plasma concentrations of calcitriol, but may reduce endogenous plasma pasha concernations of calculation, during vice and concernations plasma levels of 25(OH)D, by accelerating metabolism. Since blood level of calcitriol will be reduced, higher doses of calcitriol may be necessary if these drugs are administered simultaneously.

Thiazides

Thiazides are known to induce hypercalcemia by the reduction of calcium excretion in urine. Some reports have shown that the concomitant administration of thiazides with calcitriol causes hypercalcemia. Therefore, precaution should be taken when coadministration is necessary.

Digitalis

Calcitriol dosage must be determined with care in patients undergoing treatment with digitalis, as hypercalcemia in such patients may precipitate cardiac arrhythmias (see PRECAUTIONS: General).

Ketoconazole

Ketoconazole may inhibit both synthetic and catabolic enzymes of

at low levels (ie, 2.2±0.1 pg/mL).	for the ergocalciferol level in the blood to return to the baseline value (see OVERDOSAGE).	calcitriol. Reductions in serum endogenous calcitriol concentrations have been observed following the administration of 300 mg/day to
Metabolism In vivo and in vitro studies indicate the presence of two pathways of metabolism for calcitriol. The first pathway involves the 24-hydroxylase	Calcitriol increases inorganic phosphate levels in serum. While this is desirable in patients with hypophosphatemia, caution is called for in	1200 mg/day ketoconazole for a week to healthy men. However, in vivo drug interaction studies of ketoconazole with calcitriol have not been investigated.
as the first step in catabolism of calcitriol. There is definite evidence of 24-hydroxylase activity in the kidney; this enzyme is also present in many target tissues which possess the vitamin D receptor such as the intestine. The end product of this pathway is a side chain shortened metabolite, calcitricic acid. The second pathway involves the conversion of calcitriol via the stepwise hydroxylation of carbon-26 and carbon-27.	patients with renal failure because of the danger of ectopic calcification. A non-aluminum phosphate-binding compound and a low-phosphate diet should be used to control serum phosphorus levels in patients undergoing dialysis.	Corticosteroids A relationship of functional antagonism exists between vitamin D analogues, which promote calcium absorption, and corticosteroids, which inhibit calcium absorption.

200 x 300mn

FRONT SIDE



ARTWORK DETAIL LABEL

Product	Calcitriol Capsules					
Buyer/Country	STRIDES PHARMA INC -US	Component	Outsert (Bulk Pack Insert)			
Dimension	200 x 300 mm		- -	Pack		
New Item Code	1035745	Old Item Code	1030999			
Colour Shades	BLACK		No. of Colours	1		
Change Control No.	Io. PC-0DF/2017/784 Record Number: 138057			Artwork Version	5.0	
Design/Style	Front & Back Printing. To be supplied in FOLDED BOOKLET form with pasting & folded size: 29 x 30mm.					
Substrate	40/45 GSM Paper.					
Special Instructions PRINTING CLARITY TO BE CLEAR AND SHARP.						
Autocartonator Requirements	NA					
Caution to the printer: Before processing, please ensure that the ARTWORK received for printing is exactly in line with APPROVED ARTWORK provided to you. In case of any FONTS/DESIGN are Mis-matching with the APPROVED ARTWORK, please inform PDC for further action. DO NOT MAKE ANY CHANGE TO THE ARTWORK WITHOUT WRITTEN INSTRUCTIONS FROM PDC.						

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Phosphate-Binding Agents Since calcitriol also has an effect on phosphate transport in the intestine, kidneys and bones, the dosage of phosphate-binding agents must be adjusted in accordance with the serum phosphate conc ration

Since calcitriol is the most potent active metabolite of vitamin $D_{\rm gv}$ pharmacological doses of vitamin D and its derivatives should be withheld during treatment with calcitriol to avoid possible additive effects and hypercalcemia (see WARNINGS).

Uncontrolled intake of additional calcium-containing preparations should be avoided (see **PRECAUTIONS: General**).

Magnesium

Magnesium-containing preparations (eg, antacids) may cause hyper-magnesemia and should therefore not be taken during therapy with calcitriol by patients on chronic renal dialysis.

Carcinogenesis, Mutagenesis and Impairment of Fertility Long-term studies in animals have not been conducted to evaluate the carcinogenic potential of calcitriol. Calcitriol is not mutagenic in vitro in the Ames Test, nor is it genotoxic in vivo in the Mouse Micronucleus Test. No significant effects of calcitriol on fertility and/or general enceducible and encoder users devaced in a Comparish to truth in reproductive performances were observed in a Segment I study in rats at doses of up to 0.3 mcg/kg (approximately 3 times the maximum recommended dose based on body surface area)

Pregnancy Teratogenic Effects

Pregnancy Category C. calcitriol has been found to be teratogenic in Programs Category C. calcutor has been hold to be etailogenic in rabbits when given at does of 0.08 and 0.3 mcg/kg (approximately 2 and 6 times the maximum recommended dose based on mg/m²). All 15 fetuses in 3 litters at these doses showed external and skeletal abnormalities. However, none of the other 23 litters (156 fetuses) showed external and skeletal abnormalities compared with controls.

Teratogenicity studies in rats at doses up to 0.45 mcg/kg (approximately to tagginary sources in rats a close of the or larging (oppositing) 5 times maximum recommended dose based on mg/m²) showed no evidence of teratogenic potential. There are no adequate and well-controlled studies in pregnant women. Calcitrioi should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

Nonteratogenic Effects

In the rabbit, dosages of 0.3 mcg/kg/day (approximately 6 times maximum recommended dose based on surface area) administered on days 7 to 18 of gestation resulted in 19% maternal mortality, a decrease in mean fetal body weight and a reduced number of newborr surviving to 24 hours. A study of perinatal and postnatal development in rats resulted in hypercalcemia in the offspring of dams given calcitriol at doses of 0.08 or 0.3 mcg/kg/day (approximately 1 and 3 times the maximum recommended dose based on mg/m²), hypercalcemia and hypophosphatemia in dams given calcitriol at a dose of 0.08 or 0.3 mcg/kg/day, and increased serum urea nitrogen in dams given c.3 micg/kg/day, and niceased setum the micgen m 17 to 36 times the maximum recommended dose), during pregnancy manifested mild hypercalcemia in the first 2 days of life which returned to normal at day 3

Nursing Mothers

Calcitriol from ingested calcitriol may be excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions from calcitriol in nursing infants, a mother should not nurse while taking calcitriol

Pediatric Use Safety and effectiveness of calcitriol in pediatric patients undergoing dialysis have not been established. The safety and effectiveness of calcitriol in pediatric predialvsis patients is based on evidence from adequate and well-controlled studies of calcitriol in adults with predialvsis adequate and weil-controlled studies of calcitrol in adults with predialysis chronic renal failure and additional supportive data from non-placebo controlled studies in pediatric patients under 1 year of age with hypoparathyroidism of for pediatric patients less than 6 years of age with pseudohypoparathyroidism (see DOSAGE AND ADMINISTRATION: Hypoparathyroidism)

Oral doses of calcitriol ranging from 10 to 55 ng/kg/day have been shown to improve calcium homeostasis and bone disease in pediatric patients with chronic renal failure for whom hemodialysis is not yet required (predialysis). Long-term calcitriol therapy is well tolerated by pediatric patients. The most common safety issues are mild, transient episodes of hypercalcemia, hyperphosphatemia, and increases in the serum calcium times phosphate (Ca x P) product which are managed effectively by dosage adjustment or temporary discontinuation of the vitamin D derivative

Geriatric Use

biological half-life of calcitriol, pharmacokinetic investigations have shown normalization of elevated serum calcium within a few days of treatment withdrawal, ie, much faster than in treatment with vitamin D. preparations

The early and late signs and symptoms of vitamin D intoxication associated with hypercalcemia include:

Early: weakness, headache, somnolence, nausea, vomiting, dry mouth, constipation, muscle pain, bone pain, metallic taste, and anorexia, abdominal pain or stomach ache.

Late: Polyuria, polydipsia, anorexia, weight loss, nocturia, conjunctivitis Lat. To typina, polyona, moral, and the second a disturbances, dehydration, apathy, arrested growth, urinary tract infections, and, rarely, overt psychosis.

In clinical studies on hypoparathyroidism and pseudohypopara thyroidism, hypercalcemia was noted on at least one occasion in about 1 in 3 patients and hypercalciuria in about 1 in 7 patients. Elevated serum creatinine levels were observed in about 1 in 6 patients (approximately one half of whom had normal levels at baseline).

In concurrent hypercalcemia and hyperphosphatemia, soft-tissue calcification may occur; this can be seen radiographically (see WARNINGS)

In patients with normal renal function, chronic hypercalcemia ma ed with an increase in serum creatinine (see PRECAUTIONS: General).

Hypersensitivity reactions (pruritus, rash, urticaria, and very rarely severe erythematous skin disorders) may occur in susceptible individuals. One case of erythema multiforme and one case of allergic eaction (swelling of lips and hives all over the body) were confirm by rechallenge.

Call your doctor for medical advice about side effects. You may report side effects to Strides Pharma Inc. at 1-877-244-9825 or go to www. stridesshasun.com

OVERDOSAGE:

Administration of calcitriol to patients in excess of their daily requirements can cause hypercalcemia, hypercalciuria, and hyperphosphatemia. Since calcitriol is a derivative of vitamin D, the signs and symptoms of overdose are the same as for an overdose of vitamin D (see ADVERSE REACTIONS). High intake of calcium and phosphate concomitant with calcifing may lead to similar abnormalities. The serum calcium times phosphate (Ca x P) product should not be allowed to exceed 70 mg/dL². High levels of calcium in the dialysate bath may contribute to the hypercalcemia (see **WARNINGS**).

Treatment of Hypercalcemia and Overdosage in Dialysis Patients and

Heatment of Hypercalcemia and Overdosage in Dialysis Patients and Hypoparathyroidism Patients General treatment of hypercalcemia (greater than 1 mg/dL above the upper limit of the normal range) consists of immediate discontinuation of calcitrio capsule therapy, institution of a low-calcium diet and withdrawal of calcium supplements. Serum calcium levels should be determined daily until normocalcemia ensues. Hyperatemias seruit elevits should be determined daily until normocalcemia ensues. Hyperatemia frequently resolves in 2 to 7 days. When serum calcium levels have returned to within normal limits, calcitriol capsule therapy may be reinstituted at a dose of 0.25 mcg/day less than prior therapy. Serum calcium levels should be obtained at least twice weekly after all dosage changes and subsequent dosage titration. In dialysis patients, persistent or markedly elevated serum calcium levels may be corrected by dialysis against a calcium-free dialysate

Treatment of Hypercalcemia and Overdosage in Predialysis Patients

hypercalcemia ensues (greater than 1 mg/dL above the upper limit of the normal range), adjust dosage to achieve normocalcemia by reducing calcitriol capsule therapy from 0.5 mcg to 0.25 mcg daily, discontinue calcitriol capsule until patient becomes normocalcemic. Calcium supplements should also be reduced or discontinued. Serum calcium supplements. If serum calcium levels have noticed to parce the calcided capsule that. If serum calcium levels have noticed to parce calcided capsule that is first and the part of the parce that the calcided calcided capsule that is first on calcium levels have noticed to parce calcided capsule therapy may calcium levels have returned to normal, calcitriol capsule therapy may calcum tevels have returned to hormal, calculation capsule therapy may be reinstituted at a dosage of 0.25 mcg/day if previous therapy was at a dosage of 0.5 mcg/day. If calcitriol capsule therapy was previously administered at a dosage of 0.25 mcg/day, calcitriol capsule therapy may be reinstituted at a dosage of 0.25 mcg/day, calcitriol capsule therapy may is persistent at the reduced dosage, serum PTH should be measured. If serum PTH is normal, discontinue calcitriol capsule therapy and monitor patient in 3 months' time.

Treatment of Hyperphosphatemia in Predialysis Patients If serum phosphorus levels exceed 5.0 mg/dL to 5.5 mg/dL, a calcium-containing phosphate-binding agent (ie, calcium carbonate or calcium carbonate of the terms and the patient of the patient acetate) should be taken with meals. Serum phosphorus levels should be determined as described earlier (see PRECAUTIONS: Laboratory Tests). Aluminum-containing gels should be used with caution as phosphate-binding agents because of the risk of slow aluminum accumulation

Treatment of Accidental Overdosage of calcitriol capsules

as well as measures to induce an appropriate forced diuresis. The use of peritoneal dialysis against a calcium-free dialysate has also been reported

DOSAGE AND ADMINISTRATION:

The optimal daily dose of calcitriol capsules must be carefully determined for each patient. Calcitriol capsules can be administered orally as a capsule (0.25 mcg or 0.50 mcg). Calcitriol capsule therapy should always be started at the lowest possible dose and should not be increased without careful monitoring of serum calcium

The effectiveness of calcitriol capsule therapy is predicated on the assumption that each patient is receiving an adequate but not excessive daily intake of calcium. Patients are advised to have a dietary intake of calcium at a minimum of 600 mg daily. The U.S. RDA for calcium in adults is 800 mg to 1200 mg. To ensure that each patient receives an adequate daily intake of calcium, the physician should either prescribe a calcium supplement or instruct the patient in prope dietary measures

Because of improved calcium absorption from the gastrointestinal tract, some patients on calcitrio capsule may be maintained on a lower calcium intake. Patients who tend to develop hypercalcemia may require only low doses of calcium or no supplementation at all.

During the titration period of treatment with calcitriol, serum calcium levels should be checked at least twice weekly. When the optimal dosage of calcitric has been determined, serum calcium levels should be checked every month (or as given below for individual indications). Samples for serum calcium estimation should be taken without a tourniquet.

Dialysis Patients

The recommended initial dose of calcitriol capsule is 0.25 mcg/day. If a satisfactory response in the biochemical parameters and clinical manifestations of the disease state is not observed, dosage may be increased by 0.25 mcg/day at 4 to 8 week intervals. During this titration period, serum calcium levels should be obtained at least twice weekly. and if hypercalcemia is noted, the drug should be immediately discontinued until normocalcemia ensues (see PRECAUTIONS General). Phosphorus, magnesium, and alkaline phosphatase should be determined periodically.

Patients with normal or only slightly reduced serum calcium levels may respond to calcitriol capsule doses of 0.25 mcg every other day. Most patients undergoing hemodialysis respond to doses between 0.5 and 1 mcg/day.

Oral calcitriol capsules may normalize plasma ionized calcium in some uremic patients, yet fail to suppress parathyroid hyperfunction. In these individuals with autonomous parathyroid hyperfunction, oral calcitriol may be useful to maintain normocalcemia, but has not been shown to be adequate treatment for hyperparathyroidism.

Hypoparathyroidism

The recommended initial dosage of calcitriol capsule is 0.25 mcg/day given in the morning. If a satisfactory response in the biochemical parameters and clinical manifestations of the disease is not observed, parameters and clinical manufactuons of the disease is not observed, the dose may be increased at 2- to 4-week intervals. During the dosage titration period, serum calcium levels should be obtained at least twice weekly and, if hypercalcernia is noted, calcitriol capsule should be immediately discontinued until normocalcernia ensues (see **PRECAUTIONS: General**). Careful consideration should also be given to lowering the dietary calcium intake. Serum calcium, phosphorus, and 24- hour urinary calcium should be determined periodically

Most adult patients and pediatric patients age 6 years and older have responded to dosages in the range of 0.5 mcg to 2 mcg daily. Pediatric patients in the 1 to 5 year age group with hypoparathyroidism have usually been given 0.25 mcg to 0.75 mcg daily. The number of treated patients with pseudohypoparathyroidism less than 6 years of age is too small to make dosage recommendations.

Malabsorption is occasionally noted in patients with hypoparathyroidism; hence, larger doses of calcitriol capsules may be needed. **Predialvsis Patients** The recommended initial dosage of calcitriol capsule is 0.25 mcg/day in adults and pediatric patients 3 years of age and older. This dosage may be increased if necessary to 0.5 mcg/day. For pediatric patients less than 3 years of age, the recommended initial

Capsules: 0.25 mcg calcitriol in soft gelatin, orange, oval capsules, imprinted with 673; bottles of 30 (NDC 64380-723-04), and bottles of 100 (NDC 64380-723-06).

Capsules: 0.5 mcg calcitriol in soft gelatin, orange, oblong capsules, imprinted with 674; bottles of 100 (NDC 64380-724-06).

Calcitriol Capsules should be protected from light.

dosage of calcitriol is 10 to 15 ng/kg/day.

- Store at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature] REFERENCE



200 x 300mm

ARTWORK DETAIL LABEL

Calcitriol Capsules				
STRIDES PHARMA INC -US	Component	Outsert (Bulk Pack Insert)		
200 x 300 mm		1	Pack	
1035745	Old Item Code	1030999		
BLACK	BLACK No.			1
PC-0DF/2017/784 Record Number: 138057			Artwork Version	5.0
Front & Back Printing. To be supplied in FOLDED BOOKLET form with pasting & folded size: 29 x 30mm.				
40/45 GSM Paper.				
PRINTING CLARITY TO BE CLEAR AND SHARP.				
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	STRIDES PHARMA INC -US 200 x 300 mm 1035745 BLACK PC-ODF/2017/784 Record Number: 138057 Front & Back Printing. To be supplied in FOLDED BOOKLE 40/45 GSM Paper. PRINTING CLARITY TO BE CLEAR AND SHARP. NA :: Before processing, please ensure that the ARTWC e of any FONTS/DESIGN are Mis-matching with the	STRIDES PHARMA INC -US Component 200 x 300 mm 0ld Item Code 1035745 Old Item Code BLACK PC-0DF/2017/784 Record Number: 138057 Front & Back Printing. To be supplied in FOLDED BOOKLET form with pasting & 40/45 GSM Paper. PRINTING CLARITY TO BE CLEAR AND SHARP. NA *: Before processing, please ensure that the ARTWORK received for prie of any FONTS/DESIGN are Mis-matching with the APPROVED ARTWORK received for prie of any FONTS/DESIGN are Mis-matching with the APPROVED ARTWORK received for prime of any FONTS/DESIGN are Mis-matching with the APPROVED ARTWORK	STRIDES PHARMA INC -US Component Outsert (Bulk Pack Ins 200 x 300 mm 1035745 Old Item Code 1030999 Image: BLACK BLACK PC-0DF/2017/784 Record Number: 138057 Front & Back Printing. To be supplied in FOLDED BOOKLET form with pasting & folded size: 29 x 30mm. 40/45 GSM Paper. PRINTING CLARITY TO BE CLEAR AND SHARP: NA *: Before processing, please ensure that the ARTWORK received for printing is exactly in line	STRIDES PHARMA INC -US Component Outsert (Bulk Pack Insert) 200 x 300 mm Pack 1035745 Old Item Code 1030999 Image: BLACK No. of Colours PC-0DF/2017/784 Record Number: 138057 Artwork Version Front & Back Printing. To be supplied in FOLDED BOOKLET form with pasting & folded size: 29 x 30mm. Artwork Version 40/45 GSM Paper. PRINTING CLARITY TO BE CLEAR AND SHARP. NA *: Before processing, please ensure that the ARTWORK received for printing is exactly in line with APPROVED ARTWORK, please inform PDC for further action

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