

1.3.1 SUMMARY PRODUCT CHARACTERISTICS (SmPC)

1	Name of the Finished Medicinal Product:					
1.1	Product Name: Colecalciferol Injection BP 600000 IU/ml					
1.2	Strength :	Strength : 600000 IU/ml				
1.3	Pharmaceu	Pharmaceutical Form: Injection				
2	Qualitative	Qualitative and Quantitative Compositions:				
	Qualitative Declaration:Active componentINN Name: Colecalciferol BPQuantitative Declaration:Each ml contains:Colecalciferol BP					
	Sr. No.	Content Name	Quality Standard	Qty mg/ ml		
	1	Colecalciferol	BP	15.00		
	2	Butylated Hydroxy Toluene	BP	0.30		
	3	Butylated Hydroxy Anisole	BP	0.30		
	4	Vitamin E Acetate (Tocopheryl Acetate)	BP	1.00		
	5	Diethylene Glycol Monoethyl Ether (Transcutol H.P.)	BP	q.s. to 1.00ml		
	Note : 40000 IU Colecalciferol BP equivalent to 1mg Colecalciferol BP. BP: British Pharmacopoeia.					
3	Pharmaceutical Form: Injection					
	Almost clear colourless transparent liquid.					
4	Clinical Particulars:					
4.1	Therapeut	ic Indications:				
	Colecalcife Vitamin D	Colecalciferol Injection BP 600000 IU/ml is indicated in prevention and treatment of Vitamin D deficiency states				
4.2	Posology a	nd Method of Administration				
	The dosage	is determined by the desired Vitamin D	levels. Colecalciferol	Injection BP		
	600000 IU/	ml can be given once or as directed by th	ne physician by intram	uscular injection.		
12	Method of Control ind	administration: Intramuscular	amin D. hyporcalcomi	ia abnormal		
4.5	sensitivity t	o the toxic effects of vitamin D hypervit	taminosis D	ia, aunormai		
4.4	Special wa	rning and precautions for use:				
	Excessive intake may lead to development of hyperphosphataemia or hypercalcaemia. Infants, renal impairment or calculi, heart disease. Monitor plasma phosphate and calcium level.					



4.5	Interaction with other drugs, other forms of interactions:			
	Mineral Oil, Cholestyramine, Colestipol: Intestinal absorption of Vitamin D may be			
	impaired when co-administered.			
	Thiazides Diuretics: Concurrent administration of thiazide diuretics and Vitamin D to			
	hypoparathyroid patients may cause hypercalcemia which may be transient or may require			
	discontinuation of vitamin D.			
	Antiepileptic (e.g. carbamazepine, phenobarbitone, phenytoin and primidone): may increase			
	Vitamin D requirements.			
	Rifampicin and Isoniazid : May reduce efficacy of Vitamin D. Corticosteroids : May			
	counteract the effect of Vitamin D.			
4.6	Usage in pregnancy & Lactation			
	Pregnancy			
	The use of Vitamin D in excess of the recommended dietary allowance during normal			
	pregnancy should be avoided unless, in the judgment of the physician, potential benefits in a			
	specific case outweigh the significant hazardous involved.			
	Lactation			
	Vitamin D is distributed into breast milk and concentration appears to correlate with the			
	amount of Vitamin D in the serum of exclusively breast-fed infants hence its use should be			
	weighted against the risks involved.			
4.7	Effects on ability to drive and operate machine: It is unlikely to cause any effect on			
	driving or on operate machinery. No impairment of mental ability has been reported.			
4.8	Undesirable effects:			
	Vitamin D analogs are well tolerated in normal daily doses. Chronic excessive dosing can			
	lead to toxicity and hypervitaminosis D.			
4.9	Overdose :			
	Symptoms:			
	Acute intoxication with vitamin D analogues may cause hypervitaminosis D (See Warning			
	and precautions).			
	Treatment:			
	Treatment of acute chronic intoxication includes withdrawal of the vitamin D analogues and			
	any calcium supplements, administration of oral or IV fluids and possibly corticosteroids or			
	calciuric diuretics such as furosemide and ethacrynic acid. Peritoneal or hemodialysis with			
	calcium free dialysate will help remove calcium.			
	It acute ingestion is recent, gastric lavage or emesis may minimize further absorption. If the			
	drug has already passed through the stomach, administration of mineral oil may promote			
	raecal elimination.			
	repeal or cording failure or even death may recult			
	Tenar of calculac failure of even deauti may fesuit.			
5	Pharmacological Properties:			
5.1	Pharmacodynamics Properties:			
	Clinical Pharmacology			
	Colecalciferol, also called as Vitamin D3, is produced naturally by ultraviolet irradiation of			
	the provitamin, 7-dehydrochlolesterol (a precursor of Vitamin D) in the skin. Absorbed			
	Colecalciferol requires metabolic activation. The circulating vitamin undergoes			
	hydroxylation in the liver with the help of the enzyme, Vitamin D 25-hydroxylase to form			
	25-hydroxy Colecalciferol (calcidiol), which is the predominant circulating metabolite.			



0.1	Butylated Hydroxyl Toluene BP Butylated Hydroxyl Anisole BP Vitamin E Acetate (Tocopheryl Acetate) BP
0.1	
61	List of Excipients:
6	Pharmaceuticals Particulars:
	Hypercalcaemia has been reported in high doses. At doses equivalent to those used therapeutically, Colecalciferol has no teratogenic activity. Colecalciferol has no potential mutagenic or carcinogenic activity.
5.3	Pre-clinical Safety Data: Pre-clinical studies conducted in various animal species have demonstrated that toxic effects occur in animals at doses much higher than those required for therapeutic use in humans. In toxicity studies at repeated doses, the effects most commonly reported were increased enlarge and decreased phoenhaturies and proteinuries.
	Elimination : Vitamin D compounds and their metabolites are excreted mainly in the bile and faeces with only small amounts appearing in urine.
	Colecalciferol is converted in the liver by hydroxylation to the active form 25-hydroxy Colecalciferol. It is then further converted in the kidneys to 1, 25-dihydroxy Colecalciferol. 25-dihydroxyl Colecalciferol is the metabolite responsible for increasing calcium absorption. Vitamin D that is not metabolized is stored in adipose and muscle tissues.
	Distribution : Vitamin D and its metabolites circulate in the blood, bound to a specific alphaglobulin. Vitamin D can be stored in adipose and muscle tissue for long periods of time. It is slowly released from such storage sites and from the skin where it is formed in the presence of sunlight or ultraviolet light. Colecalciferol has a slow onset and a long duration of action.
5.2	Pharmacokinetic Properties:Absorption :Vitamin D is well absorbed from the GI tract. Presence of bile is essential for adequate intestinal absorption. After intramuscular administration it gets rapidly absorbed into the systemic circulation.
	Further hydroxylation in the kidneys (in response to the need for phosphorus and calcium) forms 1, 25-dihydroxy Colecalciferol (calcitriol) with the help of 1 alpha –hydroxylase. Calcidiol possesses some intrinsic activity, but calcitriol is the most active Vitamin D metabolite with respect to initiating intestinal transport of calcium and phosphate and mobilizing calcium from bone. Calcitriol may prevent phosphaturia by inhibiting parathyroid hormone secretion. Conversion to calcitriol, as well as decreases in serum inorganic phosphate levels is stimulated by the parathyroid hormone. Reduced renal conversion of calcidiol to calcitriol contributes to altered calcium haemostasis and osteodystrophy in uraemia.



6.4	Special Precaution for Storage:				
6.5	Nature and Contents of Container:				
	Colecalciferol Injection BP 600000IU/ml is packed in 1ml USP Type I amber ampoule with				
	yellow ring.				
	5 such ampoules are available in a PVC tray packed in a carton along with pack insert.				
6.6	Special Precautions for Disposal: Not applicable				
7	Registrant:				
	Marketing Authorization Holder:				
	M/s PHILLIPS PHARMACEUTICALS (NIGERIA) LTD.				
	Address	: Afprint Industrial Estate, Plot 122-132,			
		Apapa Oshodi Expressway Lagos			
	Country	: Nigeria.			
	Telephone	: +234 806761764			
	Fax	:			
	E-mail	:			
	Manufacturing Site Address:				
	M/s THEMIS MEDICARE LIMITED				
	Sector 6A, Plot No. 16, 17 & 18, IIE, SIDCUL,				
	Haridwar – 249 403, Uttarakhand, INDIA.				
	Telephone: 91-1334-239321/22				
	Fax: 91-334-	239217			
	E-mail: <u>hwd</u>	gmtech@themismedicare.com			
8	Date of Revi	ision of the Text: Not Applicable			
9	Dosimetry (if applicable): Not Applicable			
10	Instruction	for preparations of Radiopharmaceutical (if applicable): Not Applicable			