

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use RAYALDEE safely and effectively. See full prescribing information for RAYALDEE.

**RAYALDEE (calcifediol) extended-release capsules, for oral use**  
**Initial U.S. Approval: 2016**

**INDICATIONS AND USAGE**

RAYALDEE is a vitamin D<sub>3</sub> analog indicated for the treatment of secondary hyperparathyroidism in adults with stage 3 or 4 chronic kidney disease and serum total 25-hydroxyvitamin D levels less than 30 ng/mL. (1)

**Limitations of Use:**

RAYALDEE is not indicated in patients with stage 5 chronic kidney disease or end-stage renal disease on dialysis. (1)

**DOSAGE AND ADMINISTRATION**

- The initial dose of RAYALDEE is 30 mcg administered orally once daily at bedtime. Serum calcium should be below 9.8 mg/dL before initiating treatment. (2)
- Monitor serum calcium, phosphorus, 25-hydroxyvitamin D and intact parathyroid hormone (PTH) 3 months after starting therapy or changing dose. (2.2, 5.3)
- Increase the dose to 60 mcg once daily after 3 months if intact PTH is above the treatment goal. Ensure serum calcium is below 9.8 mg/dL, phosphorus is below 5.5 mg/dL and 25-hydroxyvitamin D is below 100 ng/mL before increasing the dose. (2.2)
- Suspend dosing if intact PTH is persistently abnormally low, serum calcium is consistently above the normal range or serum 25-hydroxyvitamin D is consistently above 100 ng/mL. (2.2)

**DOSAGE FORMS AND STRENGTHS**

Extended-release 30 mcg capsules (3)

**CONTRAINDICATIONS**

None (4)

**WARNINGS AND PRECAUTIONS**

- **Hypercalcemia:** Excessive administration of vitamin D compounds, including RAYALDEE, can cause hypercalcemia and hypercalciuria. Severe hypercalcemia due to substantial overdosage of vitamin D and its metabolites may require emergency attention. Patients should be informed about the symptoms of elevated calcium. (5.1)
- **Digitalis toxicity:** Potentiated by hypercalcemia of any cause. Monitor serum calcium and signs and symptoms of digitalis toxicity more frequently when initiating or adjusting the dose of RAYALDEE. (5.2)
- **Adynamic Bone Disease:** Monitor for abnormally low levels of intact PTH levels when using RAYALDEE, and adjust dose if needed. (2.2, 5.3)

**ADVERSE REACTIONS**

The most common adverse reactions (≥3% and more frequent than placebo) were anemia, nasopharyngitis, increased blood creatinine, dyspnea, congestive heart failure and constipation. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact OPKO Pharmaceuticals, LLC at 1-844-729-2539 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)**

**DRUG INTERACTIONS**

- Co-administration of cytochrome P450 inhibitors, such as ketoconazole, may alter serum levels of calcifediol. (7.1)
- Co-administration of thiazides may cause hypercalcemia. (7.2)
- Cholestyramine may impair the absorption of calcifediol. (7.3)
- The half-life of calcifediol is reduced by drugs stimulating microsomal hydroxylation, such as phenobarbital or other anticonvulsants. (7.4)

**USE IN SPECIFIC POPULATIONS**

The safety and efficacy of RAYALDEE have not been established in pediatric patients. (8.4)

See 17 for PATIENT COUNSELING INFORMATION

Revised: 03/2016

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\*Sections or subsections omitted from the full prescribing information are not listed

## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

RAYALDEE is a vitamin D<sub>3</sub> analog indicated for the treatment of secondary hyperparathyroidism in adult patients with stage 3 or 4 chronic kidney disease and serum total 25-hydroxyvitamin D levels less than 30 ng/mL.

#### Limitations of Use

RAYALDEE is not indicated for the treatment of secondary hyperparathyroidism in patients with stage 5 chronic kidney disease or in patients with end-stage renal disease on dialysis.

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Important Dosage and Administration Information

- Ensure serum calcium is below 9.8 mg/dL before initiating treatment [*see Warnings and Precautions (5.1)*].
- Instruct patients to swallow RAYALDEE capsules whole.
- Instruct patients to skip a missed dose and to resume taking the medicine at the next regularly scheduled time. Do not administer an extra dose.

#### 2.2 Starting Dose and Dose Titration

- The initial dose of RAYALDEE is 30 mcg administered orally once daily at bedtime.
- The maintenance dose of RAYALDEE should target serum total 25-hydroxyvitamin D levels between 30 and 100 ng/mL, intact parathyroid hormone (PTH) levels within the desired therapeutic range, serum calcium (corrected for low albumin) within the normal range and serum phosphorus below 5.5 mg/dL.
- Monitor serum calcium, serum phosphorus, serum total 25-hydroxyvitamin D and intact PTH levels at a minimum of 3 months after initiation of therapy or dose adjustment, and subsequently at least every 6 to 12 months.
- Increase the dose to 60 mcg orally once daily at bedtime after approximately 3 months, if intact PTH remains above the desired therapeutic range. Prior to raising the dose, ensure serum calcium is below 9.8 mg/dL, serum phosphorus is below 5.5 mg/dL and serum total 25-hydroxyvitamin D is below 100 ng/mL.
- Suspend dosing if intact PTH is persistently and abnormally low to reduce the risk of adynamic bone disease [*see Warnings and Precautions (5.3)*], if serum calcium is consistently above the normal range to reduce the risk of hypercalcemia [*see Warnings*

*and Precautions (5.1)*], or if serum total 25-hydroxyvitamin D is consistently above 100 ng/mL. Restart at a reduced dose after these laboratory values have normalized.

### **3 DOSAGE FORMS AND STRENGTHS**

RAYALDEE 30 mcg extended-release capsules are blue oval soft capsules labeled with “O” in white ink.

### **4 CONTRAINDICATIONS**

None.

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Hypercalcemia**

Hypercalcemia may occur during RAYALDEE treatment [*see Adverse Reactions (6.1)*]. Acute hypercalcemia may increase the risk of cardiac arrhythmias and seizures and may potentiate the effect of digitalis on the heart [*see Warnings and Precautions (5.2)*]. Chronic hypercalcemia can lead to generalized vascular calcification and other soft-tissue calcification. Severe hypercalcemia may require emergency attention.

Hypercalcemia may be exacerbated by concomitant administration of high doses of calcium containing preparations, thiazide diuretics, or other vitamin D compounds. In addition, high intake of calcium and phosphate concomitantly with vitamin D compounds may lead to hypercalciuria and hyperphosphatemia. In these circumstances, frequent serum calcium monitoring and RAYALDEE dose adjustments may be required. Patients with a history of hypercalcemia prior to initiating therapy with RAYALDEE should be monitored more frequently for possible hypercalcemia during therapy.

Patients should be informed about the symptoms of elevated serum calcium, which include feeling tired, difficulty thinking clearly, loss of appetite, nausea, vomiting, constipation, increased thirst, increased urination, and weight loss.

#### **5.2 Digitalis Toxicity**

Hypercalcemia of any cause, including RAYALDEE [*See Warnings and Precautions (5.1)*], increases the risk of digitalis toxicity. In patients using RAYALDEE concomitantly with digitalis compounds, monitor both serum calcium and patients for signs and symptoms of digitalis toxicity and increase the frequency of monitoring when initiating or adjusting the dose of RAYALDEE [*see Dosage and Administration (2)*].

#### **5.3 Adynamic Bone Disease**

Adynamic bone disease with subsequent increased risk of fractures may develop if intact PTH levels are suppressed by RAYALDEE to abnormally low levels. Monitor intact PTH levels and adjust RAYALDEE dose, if needed [*see Dosage and Administration (2.2)*].

## 6 ADVERSE REACTIONS

The following important adverse reactions are discussed in greater detail in other sections of the label:

- Hypercalcemia [*see Warnings and Precautions (5.1)*]
- Adynamic Bone Disease [*see Warnings and Precautions (5.3)*]

### 6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed cannot be directly compared to rates in other trials and may not reflect the rates observed in clinical practice.

The data in [Table 1](#) are derived from two pivotal studies described below [*See Clinical Studies (14)*]. These data reflect exposure of 285 subjects to RAYALDEE 30 or 60 mcg daily for up to 6 months (mean 24 weeks, range 1 to 31 weeks). The mean age of the study population was 66 years old (range 25-85 years). Half of the subjects were male, 65% were White, and 32% were African-American or Black. At baseline, subjects had secondary hyperparathyroidism, stage 3 (52%) or 4 (48%) chronic kidney disease without macroalbuminuria and serum total 25-hydroxyvitamin D levels less than 30 ng/mL. The most common causes of chronic kidney disease were diabetes and hypertension and the mean estimated GFR at baseline was 31 mL/min/1.73m<sup>2</sup>. At baseline, mean plasma intact PTH was 148 pg/mL, mean serum calcium was 9.2 mg/dL, mean serum phosphorus was 3.7 mg/dL and mean serum 25-hydroxyvitamin D was 20 ng/mL.

[Table 1](#) shows common adverse reactions associated with the use of RAYALDEE in the pooled placebo-controlled trials. These adverse reactions were not present at baseline, occurred more commonly on RAYALDEE than on placebo, and occurred in at least 1.4% of patients treated with RAYALDEE.

**Table 1. Common Adverse Reactions in Placebo-controlled Trials Reported in ≥1.4% of RAYALDEE-Treated Subjects**

Adverse Reaction	Placebo	RAYALDEE
	N=144	N=285
	%	%
Anemia	3.5	4.9
Nasopharyngitis	2.8	4.9
Blood creatinine increased	1.4	4.9
Dyspnea	2.8	4.2
Cough	2.1	3.5
Cardiac failure congestive	0.7	3.5
Constipation	2.8	3.2

<b>Adverse Reaction</b>	<b>Placebo N=144</b>	<b>RAYALDEE N=285</b>
Bronchitis	0.7	2.8
Hyperkalemia	0.7	2.5
Osteoarthritis	0.7	2.1
Hyperuricemia	0.7	1.8
Contusion	0.0	1.8
Pneumonia	0.7	1.4
Chronic obstructive pulmonary disease	0.0	1.4

### *Increase in Serum Calcium*

Patients randomized to RAYALDEE experienced a greater mean (SE) increase in serum calcium ( $P < 0.001$ ) than patients randomized to placebo [i.e., 0.2 (0.02) mg/dL on RAYALDEE versus 0.1 (0.03) mg/dL on placebo from baseline to trial end]. Six subjects (2%) in the RAYALDEE treatment group and no subjects (0%) in the placebo group required dose reductions for protocol-defined hypercalcemia (two consecutive serum calcium values greater than 10.3 mg/dL). A total of 4.2% of RAYALDEE treated subjects and 2.1% of placebo treated subjects experienced at least 1 elevation in serum calcium above the upper limit of normal (10.5 mg/dL).

### *Increase in Serum Phosphorus*

Patients randomized to RAYALDEE experienced a greater mean (SE) increase in serum phosphorus than patients randomized to placebo [i.e., 0.2 (0.03) mg/dL on RAYALDEE versus 0.1 (0.04) mg/dL on placebo from baseline to trial end]. One subject (0.4%) in the RAYALDEE treatment group met protocol-defined hyperphosphatemia (two consecutive serum phosphorus values  $> 5.5$  mg/dL deemed to be study drug related) compared to no subjects in the placebo group. A total of 45% of RAYALDEE treated subjects and 44% of placebo treated subjects experienced at least one elevation in serum phosphorus above the upper limit of normal (4.5 mg/dL).

## **7 DRUG INTERACTIONS**

### **7.1 CYP3A Inhibitors**

Cytochrome P450 inhibitors, such as ketoconazole, atazanavir, clarithromycin, indinavir, itraconazole, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin or voriconazole, may inhibit enzymes involved in vitamin D metabolism (CYP24A1 and CYP27B1), and may alter serum levels of calcifediol. Dose adjustment of RAYALDEE may be required, and serum 25-hydroxyvitamin D, intact PTH and serum calcium concentrations should be closely monitored if a patient initiates or discontinues therapy with a strong CYP3A4 inhibitor.

### **7.2 Thiazides**

Thiazides are known to induce hypercalcemia by reducing excretion of calcium in the urine.

Concomitant administration of thiazides with RAYALDEE may cause hypercalcemia. Patients may require more frequent serum calcium monitoring in this setting [*see Warnings and Precautions (5.1)*].

### 7.3 Cholestyramine

Cholestyramine has been reported to reduce intestinal absorption of fat-soluble vitamins and may impair the absorption of calcifediol, the active ingredient in RAYALDEE. Dose adjustment of RAYALDEE may be required, and serum total 25-hydroxyvitamin D, intact PTH and serum calcium concentrations should be closely monitored if a patient initiates or discontinues therapy with cholestyramine.

### 7.4 Other Agents

Phenobarbital or other anticonvulsants or other compounds that stimulate microsomal hydroxylation reduce the half-life of calcifediol, the active ingredient in RAYALDEE. Dose adjustment of RAYALDEE may be required, and serum total 25-hydroxyvitamin D, intact PTH and serum calcium concentrations should be closely monitored if a patient initiates or discontinues therapy with phenobarbital or other anticonvulsants.

## 8 USE IN SPECIFIC POPULATIONS

**Teratogenic Effects - Pregnancy Category C:** Calcifediol has been shown to be teratogenic in rabbits when given in doses of 8 to 16 times the human dose of 60 mcg/day, based on body surface area. There are no adequate and well-controlled studies in pregnant women. RAYALDEE should be used during pregnancy only if the potential benefit justifies potential risk to the fetus.

When calcifediol was given orally to bred rabbits on the 6th through the 18th day of gestation, gross visceral and skeletal examination of pups indicated that the compound was teratogenic at doses of 25 and 50 mcg/kg/day. A dose of 5 mcg/kg/day was not teratogenic. In a similar study in rats, calcifediol was not teratogenic at doses up to and including 60 mcg/kg/day.

**Labor and Delivery:** The effect of this drug on the mother and fetus during labor and delivery is not known.

### 8.3 Nursing Mothers

Limited available evidence indicates that calcifediol is poorly excreted in human milk. Caution should be exercised when RAYALDEE is administered to a nursing woman.

### 8.4 Pediatric Use

The safety and efficacy of RAYALDEE have not been established in pediatric patients.

### 8.5 Geriatric Use

Of the total number of subjects in phase 3 placebo-controlled clinical studies of RAYALDEE, 63% were  $\geq 65$  years of age and 22% were  $\geq 75$  years of age. No overall differences in the safety or efficacy of RAYALDEE were observed between subjects older than 65 years and younger subjects.

## 8.6 Renal Impairment

No difference in efficacy was observed between patients with stage 3 chronic kidney disease or those with stage 4 disease in subgroup analysis. Safety outcomes were similar in these subgroups. The safety and efficacy of RAYALDEE in the treatment of secondary hyperparathyroidism in patients with stage 2 or stage 5 chronic kidney disease and patients with end-stage renal disease on dialysis have not been established [see *Indications and Usage (1)*].

## 10 OVERDOSAGE

Excessive administration of RAYALDEE can cause hypercalciuria, hypercalcemia, hyperphosphatemia, or oversuppression of intact PTH. Common symptoms of vitamin D overdosage may include constipation, decreased appetite, dehydration, fatigue, irritability, muscle weakness, or vomiting.

Treatment of acute accidental overdosage with RAYALDEE should consist of general supportive measures. If the overdosage is discovered within a short time, induce emesis or perform gastric lavage to prevent further absorption. Obtain serial serum and urine calcium measurements, and assess any electrocardiographic abnormalities due to hypercalcemia. Discontinue supplemental calcium. Treat with standard medical care if persistent and markedly elevated serum calcium levels occur.

Calcifediol is not significantly removed by dialysis.

## 11 DESCRIPTION

Calcifediol, USP, the active ingredient in RAYALDEE, is synthetically manufactured as calcifediol monohydrate. Calcifediol is also known as calcidiol, 25-hydroxycholecalciferol or 25-hydroxyvitamin D<sub>3</sub>.

Calcifediol monohydrate is a white crystalline powder, has a calculated molecular weight of 418.65 and is soluble in alcohol and fatty oils but practically insoluble in water. Chemically, calcifediol monohydrate is (3 $\beta$ ,5Z,7E)-9,10-secocholesta-5,7,10(19)-triene-3,25-diol monohydrate and its structural formula is:



Exposure to calcifediol increased proportionally over the dose range of 30 to 90 mcg following repeated daily administration of RAYALDEE at bedtime to subjects with secondary hyperparathyroidism, chronic kidney disease and vitamin D insufficiency. Steady-state levels of serum total 25-hydroxyvitamin D are reached after approximately 3 months [see *Clinical Studies (14)*].

### ***Distribution***

Calcifediol is extensively bound to plasma proteins (>98%). The mean apparent volume of distribution is 8.8 L in healthy subjects following a single oral dose of RAYALDEE, and 30.1 L in subjects with stage 3 or 4 chronic kidney disease following repeated dosing.

### ***Elimination***

The mean elimination half-life of calcifediol is approximately 11 days in healthy individuals following a single dose of RAYALDEE, and approximately 25 days in patients with stage 3 or stage 4 chronic kidney disease following repeated once daily dosing.

### ***Metabolism***

Production of calcitriol from calcifediol is catalyzed by the 1-alpha-hydroxylase enzyme, CYP27B1, located in the kidney and other tissues. CYP24A1, located in all vitamin D-responsive tissues, catabolizes both calcifediol and calcitriol to inactive metabolites.

### ***Excretion***

Excretion of calcifediol occurs primarily through the biliary fecal route.

### ***Specific Populations***

#### ***Age, Gender and Race***

Based on a population pharmacokinetic analysis, age, gender and race had no meaningful impact on steady-state concentrations of calcifediol following RAYALDEE administration.

#### ***Hepatic Impairment***

The pharmacokinetics of RAYALDEE have not been investigated in patients with hepatic impairment.

#### ***Renal Impairment***

Based on the population pharmacokinetics analysis, there was no meaningful difference in calcifediol steady-state concentrations following repeated RAYALDEE administration in patients with stage 3 or stage 4 chronic kidney disease.

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

No neoplastic changes attributable to calcifediol were observed at subcutaneous doses of 3, 10 and 33 mcg/kg/day in a 26-week rasH2 transgenic mouse study.

In vitro or in vivo mutagenicity studies have not been performed with RAYALDEE. No genotoxic or mutagenic effects have been reported with calcifediol.

Calcifediol has not been shown to have significant effects on fertility in rats.

## 14 CLINICAL STUDIES

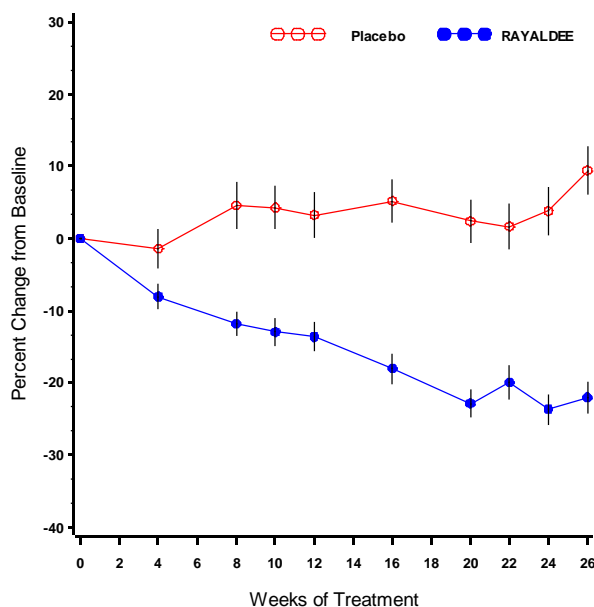
The efficacy and safety of RAYALDEE were evaluated in two identical multicenter, randomized, placebo-controlled, double-blind trials in patients with secondary hyperparathyroidism, stage 3 or 4 chronic kidney disease and serum total 25-hydroxyvitamin D levels between 10 and 30 ng/mL. Subjects were stratified by chronic kidney disease stage and randomized in a 2:1 ratio to receive RAYALDEE or a matching placebo at bedtime over 26 weeks. The dose of RAYALDEE was 30 mcg once daily for the first 12 weeks and either 30 or 60 mcg once daily for the last 14 weeks. The dose was increased to 60 mcg at the start of week 13 if the plasma intact PTH level was greater than 70 pg/mL, the serum 25-hydroxyvitamin D level was less than 65 ng/mL and the serum calcium level was less than 9.8 mg/dL.

A total of 213 subjects were randomized in one trial (72 received placebo and 141 received RAYALDEE), and 216 subjects were randomized in the second trial (72 received placebo and 144 received RAYALDEE). The subjects' mean age was 66 years (range 25-85), 50% were male, 65% White, 32% African-American or Black and 3% Other. At baseline, subjects had secondary hyperparathyroidism, and stage 3 (52%) or stage 4 (48%) chronic kidney disease without macroalbuminuria. The most common causes of chronic kidney disease were diabetes and hypertension and the mean estimated GFR was 31 mL/min/1.73m<sup>2</sup>. Mean baseline intact PTH was 130 pg/mL for subjects with stage 3 disease (n=222) and 166 pg/mL for subjects with stage 4 disease (n=207). Mean serum calcium was 9.2 mg/dL, mean serum phosphorus was 3.7 mg/dL and mean serum 25-hydroxyvitamin D was 20 ng/mL. Of the 429 subjects randomized, 354 (83%) completed the studies.

The primary analysis compared the proportion of individuals who experienced an at least 30% reduction in plasma intact PTH from baseline to end of trial (average of weeks 20, 22, 24 and 26). A larger proportion of patients randomized to RAYALDEE experienced an at least 30% reduction in plasma intact PTH from baseline compared to placebo in both trials [33% versus 8% in the first trial (P<0.001) and 34% versus 7% in the second trial (P<0.001)].

A description of mean (SE) percent change in plasma intact PTH from baseline across study visits in the two trials combined is shown in [Figure 1](#). Serum total 25-hydroxyvitamin D levels increased to at least 30 ng/mL in 80% and 83% of subjects treated with RAYALDEE vs. 3% and 7% of subjects treated with placebo (P<0.001) in the two studies, respectively. Average steady-state 25-hydroxyvitamin D levels were 50 and 56 ng/mL for subjects receiving 30 mcg daily, and 69 and 67 ng/mL for subjects receiving 60 mcg daily, in the first and second studies, respectively.

### **Figure 1. Mean (±SE) Percent Change from Baseline in Plasma Intact PTH in the Per Protocol Populations (Pooled Data from Two Phase 3 Studies)**



The Per Protocol (PP) population consisted of all subjects with at least 2 intact PTH values in the calculated baseline and EAP values and who did not have a major protocol deviation during the treatment period of the study. The PP population comprised 83% of randomized subjects.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

RAYALDEE is supplied as 30 mcg calcifediol in blue, oval extended-release capsules, imprinted O:

Bottles of 30 [NDC 70301-1001-1]

Bottles of 60 [NDC 70301-1001-2]

Store at 20-25°C (68-77°F); excursions permitted to 15-30°C (59-86°F) [*see USP Controlled Room Temperature*].

## 17 PATIENT COUNSELING INFORMATION

- Tell patients to take RAYALDEE at bedtime and to swallow the capsules whole.
- Inform patients if they miss a dose, to take RAYALDEE at the next scheduled time. Do not take an extra dose to make up for the missed dose.
- Inform patients that they will need routine monitoring of laboratory parameters such as calcium, iPTH and total 25-hydroxyvitamin D while taking RAYALDEE.
- Advise patients to contact a health care provider if they develop symptoms of elevated calcium (e.g., feeling tired, having difficulty thinking clearly, loss of appetite, nausea, vomiting, constipation, increased thirst, increased urination or weight loss).

- Advise patients to inform their physician of all use of medications, including prescription and nonprescription drugs, supplements and herbal preparations, and of any changes in medical condition. Patients should also be advised to inform their physicians, when receiving a newly prescribed medication, that they are taking RAYALDEE.

RAYALDEE is a registered trademark of OPKO Ireland Global Holdings Ltd.

Patent: <http://www.opko.com/products/patents/>

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