HIGHLIGHTS OF PRESCRIBING INFORMATION

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

Renagel (sevelamer hydrochloride) Tablet for Oral use Initial U.S. Approval: 2000

-----INDICATIONS AND USAGE-----

Renagel® is a phosphate binder indicated for the control of serum phosphorus in patients with chronic kidney disease on dialysis. (1)

-----DOSAGE AND ADMINISTRATION-----

- Starting dose is one or two 800 mg or two to four 400 mg tablets three times per day with meals. (2)
- Adjust by one tablet per meal in two week intervals as needed to obtain serum phosphorus target (3.5 to 5.5 mg/dL). (2)

-----DOSAGE FORMS AND STRENGTHS-----

Tablets: 800 mg and 400 mg (3)

-----CONTRAINDICATIONS-----

In patients with bowel obstruction. (4)

------WARNINGS AND PRECAUTIONS-----

Serious cases of dysphagia, bowel obstruction, and perforation have been associated with sevelamer use, some requiring hospitalization and surgery. (5.1)

-----ADVERSE REACTIONS-----

- The most common reasons for discontinuing treatment were gastrointestinal adverse reactions. (6.1)
- In a parallel design study, of 12 weeks duration, treatment emergent adverse reactions to Renagel Tablets in peritoneal dialysis patients included dyspepsia (12%), peritonitis (8%), diarrhea (5%), nausea (5%), constipation (4%), pruritus (4%), abdominal distension (3%), vomiting (3%), fatigue (3%), anorexia (3%), and arthralgia (3%). (6.1)
- Similar reactions at similar rates occurred in hemodialysis and peritoneal dialysis patients. (6.1)
- Cases of fecal impaction and, less commonly, ileus, bowel obstruction, and bowel perforation have been reported. (6.2)

To report SUSPECTED ADVERSE REACTIONS, contact Genzyme Corporation at 1-800-847-0069 and or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

-----DRUG INTERACTIONS-----

- Decreases the bioavailability of ciprofloxacin by approximately 50%.
- In normal volunteer studies, sevelamer hydrochloride did not alter the pharmacokinetics of a single dose of digoxin, warfarin, enalapril, metoprolol, and iron. (7)
- When administering an oral medication where a reduction in the bioavailability of that medication would have a clinically significant effect on its safety or efficacy, the drug should be administered at least one hour before or three hours after Renagel, or the physician should consider monitoring blood levels of the drug. (7.7)

See 17 for PATIENT COUNSELING INFORMATION

Revised: 05/2011

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- 3 DOSAGE FORMS AND STRENGTHS
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- WARNINGS AND PRECAUTIONS
 - 5.1 Gastrointestinal Adverse Events
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PROPOSED TEXT OF THE LABELING OF THE DRUG

1. INDICATIONS AND USAGE

- 2 RENAGEL^{®1} (sevelamer hydrochloride) is indicated for the control of serum phosphorus
- 3 in patients with chronic kidney disease (CKD) on dialysis. The safety and efficacy of
- 4 Renagel in CKD patients who are not on dialysis have not been studied.

5 2. DOSAGE AND ADMINISTRATION

- 6 Patients Not Taking a Phosphate Binder. The recommended starting dose of Renagel is
- 7 800 to 1600 mg, which can be administered as one or two 800 mg Renagel® Tablets or
- 8 two to four 400 mg Renagel® Tablets, with meals based on serum phosphorus level.
- 9 Table 1 provides recommended starting doses of Renagel for patients not taking a
- 10 phosphate binder.

11 Table 1. Starting Dose for Dialysis Patients Not Taking a Phosphate Binder

Serum Phosphorus	Renagel [®] 800 mg	Renagel [®] 400 mg
> 5.5 and < 7.5 mg/dL	1 tablet three times daily	2 tablets three times daily
	with meals	with meals
\geq 7.5 and $<$ 9.0 mg/dL	2 tablets three times daily	3 tablets three times daily
	with meals	with meals
\geq 9.0 mg/dL	2 tablets three times daily	4 tablets three times daily
	with meals	with meals

- 12 Patients Switching From Calcium Acetate. In a study in 84 CKD patients on
- hemodialysis, a similar reduction in serum phosphorus was seen with equivalent doses
- 14 (approximately mg for mg) of Renagel and calcium acetate. Table 2 gives recommended
- starting doses of Renagel based on a patient's current calcium acetate dose.

16 Table 2. Starting Dose for Dialysis Patients Switching From Calcium Acetate to

17 Renagel

Calcium Acetate 667 mg (Tablets per meal)	Renagel [®] 800 mg (Tablets per meal)	Renagel [®] 400 mg (Tablets per meal)
1 tablet	1 tablet	2 tablets
2 tablets	2 tablets	3 tablets
3 tablets	3 tablets	5 tablets

- 18 Dose Titration for All Patients Taking Renagel. Dosage should be adjusted based on the
- serum phosphorus concentration with a goal of lowering serum phosphorus to 5.5 mg/dL
- or less. The dose may be increased or decreased by one tablet per meal at two week
- 21 intervals as necessary. Table 3 gives a dose titration guideline. The average dose in a
- 22 Phase 3 trial designed to lower serum phosphorus to 5.0 mg/dL or less was approximately
- three Renagel 800 mg tablets per meal. The maximum average daily Renagel dose
- studied was 13 grams.

25 **Table 3. Dose Titration Guideline**

Serum Phosphorus	Renagel® Dose	
>5.5 mg/dL	Increase 1 tablet per meal at 2 week intervals	
3.5 - 5.5 mg/dL	Maintain current dose	
<3.5 mg/dL	Decrease 1 tablet per meal	

26 3. DOSAGE FORMS AND STRENGTHS

27 800 mg and 400 mg Tablets.

28 4. CONTRAINDICATIONS

29 Renagel is contraindicated in patients with bowel obstruction.

30 5. WARNINGS AND PRECAUTIONS

31 **5.1 Gastrointestinal Adverse Events**

- Cases of dysphagia and esophageal tablet retention have been reported in association with
- use of the tablet formulation of sevelamer, some requiring hospitalization and
- intervention. Consider using sevelamer suspension in patients with a history of
- 35 swallowing disorders.
- Cases of bowel obstruction and perforation have been reported with sevelamer use.

- Patients with dysphagia, swallowing disorders, severe gastrointestinal (GI) motility
- disorders including severe constipation, or major GI tract surgery were not included in
- 39 the Renagel clinical studies.

40 **5.2 Monitor Serum Chemistries**

- 41 Bicarbonate and chloride levels should be monitored.
- 42 5.3 Monitor for Reduced Vitamins D, E, K (clotting factors) and Folic Acid
- 43 Levels
- In preclinical studies in rats and dogs, sevelamer hydrochloride reduced vitamins D, E,
- and K (coagulation parameters) and folic acid levels at doses of 6-10 times the
- 46 recommended human dose. In short-term clinical trials, there was no evidence of
- 47 reduction in serum levels of vitamins. However, in a one-year clinical trial, 25-
- 48 hydroxyvitamin D (normal range 10 to 55 ng/mL) fell from 39 ± 22 ng/mL to
- 49 $34 \pm 22 \text{ ng/mL}$ (p<0.01) with sevelamer hydrochloride treatment. Most (approximately
- 50 75%) patients in sevelamer hydrochloride clinical trials received vitamin supplements,
- which is typical of patients on dialysis.

52 **6. ADVERSE REACTIONS**

53 **6.1 Clinical Trials Experience**

- 54 Because clinical trials are conducted under widely varying conditions, adverse reaction
- rates observed in the clinical trials of a drug can not be directly compared to rates in the
- 56 clinical trials of another drug and may not reflect the rates observed in practice.
- 57 In a parallel design study of sevelamer hydrochloride with treatment duration of
- 58 52 weeks, adverse reactions reported for sevelamer hydrochloride (n=99) were similar to
- 59 those reported for the active-control group (n=101). Overall adverse reactions among
- those treated with sevelamer hydrochloride occurring in > 5% of patients included:
- on ting (22%), nausea (20%), diarrhea (19%), dyspepsia (16%), abdominal pain (9%),
- flatulence (8%) and constipation (8%). A total of 27 patients treated with sevelamer and
- 63 10 patients treated with comparator withdrew from the study due to adverse reactions.
- Based on studies of 8-52 weeks, the most common reason for withdrawal from Renagel
- was gastrointestinal adverse reactions (3-16%).

- In one hundred and forty-three peritoneal dialysis patients studied for 12 weeks most
- adverse reactions were similar to adverse reactions observed in hemodialysis patients.
- 68 The most frequently occurring treatment emergent serious adverse reaction was
- 69 peritonitis (8 reactions in 8 patients [8%] in the sevelamer group and 2 reactions in 2
- patients [4%] on active-control). Thirteen patients (14%) in the sevelamer group and 9
- patients (20%) in the active-control group discontinued, mostly for gastrointestinal
- adverse reactions. Patients on peritoneal dialysis should be closely monitored to ensure
- the reliable use of appropriate aseptic technique with the prompt recognition and
- management of any signs and symptoms associated with peritonitis.

75 **6.2 Postmarketing Experience**

- 76 The following adverse reactions have been identified during post-approval use of
- sevelamer hydrochloride (Renagel®): pruritus, rash, abdominal pain, fecal impaction and
- value of ileus, intestinal obstruction, and intestinal perforation. Appropriate
- medical management should be given to patients who develop constipation or have
- 80 worsening of existing constipation to avoid severe complications.
- Because these reactions are reported voluntarily from a population of uncertain size, it is
- not always possible to estimate their frequency or to establish a causal relationship to
- 83 drug exposure.

84 7. DRUG INTERACTIONS

- 85 Renagel has been studied in human drug-drug interaction studies with ciprofloxacin,
- 86 digoxin, warfarin, enalapril, metoprolol and iron.

87 **7.1 Ciprofloxacin**

- In a study of 15 healthy subjects, a co-administered single dose of 7 Renagel capsules
- 89 (approximately 2.8 g) decreased the bioavailability of ciprofloxacin by approximately
- 90 50%.

91 **7.2 Digoxin**

- In 19 healthy subjects receiving 6 Renagel capsules three times a day with meals for 2
- days, Renagel did not alter the pharmacokinetics of a single dose of digoxin.

94 **7.3 Warfarin**

- In 14 healthy subjects receiving 6 Renagel capsules three times a day with meals for 2
- days, Renagel did not alter the pharmacokinetics of a single dose of warfarin.

97 **7.4 Enalapril**

- In 28 healthy subjects a single dose of 6 Renagel capsules did not alter the
- 99 pharmacokinetics of a single dose of enalapril.

7.5 Metoprolol

- In 31 healthy subjects a single dose of 6 Renagel capsules did not alter the
- pharmacokinetics of a single dose of metoprolol.
- 103 **7.6 Iron**
- In 23 healthy subjects, a single dose of 7 Renagel capsules did not alter the absorption of
- a single oral dose of iron as 200 mg exsiccated ferrous sulfate tablet.

106 7.7 Other Concomitant Drug Therapy

- There are no empirical data on avoiding drug interactions between Renagel® and most
- concomitant drugs. During postmarketing experience, very rare cases of increased
- thyroid stimulating hormone (TSH) levels have been reported in patients co-administered
- sevelamer hydrochloride and levothyroxine. Closer monitoring of TSH levels is
- therefore recommended in patients receiving both medications.
- When administering an oral medication where a reduction in the bioavailability of that
- medication would have a clinically significant effect on its safety or efficacy, the drug
- should be administered at least one hour before or three hours after Renagel, or the
- physician should consider monitoring blood levels of the drug. Patients taking anti-
- arrhythmic medications for the control of arrhythmias and anti-seizure medications for
- the control of seizure disorders were excluded from the clinical trials. Special
- precautions should be taken when prescribing Renagel to patients also taking these
- medications.

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8. USE IN SPECIFIC POPULATIONS

121 **8.1 Pregnancy**

- Pregnancy Category C: The effect of Renagel on the absorption of vitamins and other
- nutrients has not been studied in pregnant women. Requirements for vitamins and other
- nutrients are increased in pregnancy. In pregnant rats given doses of Renagel during
- organogenesis, reduced or irregular ossification of fetal bones, probably due to a reduced
- absorption of fat-soluble vitamin D, occurred. In pregnant rabbits given oral doses of

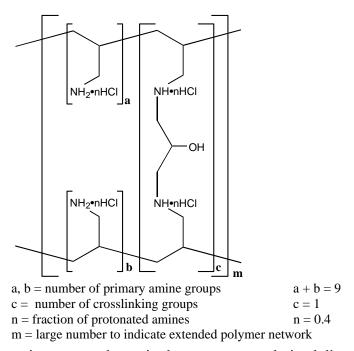
- Renagel by gavage during organogenesis, an increase of early resorptions occurred. [See
- 128 NONCLINICAL TOXICOLOGY (13.1)]
- 129 **8.2 Labor and Delivery**
- No Renagel treatment-related effects on labor and delivery were seen in animal studies.
- The effects of Renagel on labor and delivery in humans are not known. [See
- 132 NONCLINICAL TOXICOLOGY (13.1)]
- 133 **8.4 Pediatric Use**
- The safety and efficacy of Renagel has not been established in pediatric patients.
- 135 **8.5** Geriatric Use
- 136 Clinical studies of Renagel did not include sufficient numbers of subjects aged 65 and
- over to determine whether they respond differently from younger subjects. Other
- reported clinical experience has not identified differences in responses between the
- elderly and younger patients. In general, dose selection for an elderly patient should be
- cautious, usually starting at the low end of the dosing range.
- 141 **10. OVERDOSAGE**
- Renagel has been given to normal healthy volunteers in doses of up to 14 grams per day
- for eight days with no adverse effects. Renagel has been given in average doses up to
- 144 13 grams per day to hemodialysis patients. There are no reports of overdosage with
- 145 Renagel in patients. Since Renagel is not absorbed, the risk of systemic toxicity is low.

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11. DESCRIPTION

The active ingredient in Renagel Tablets is sevelamer hydrochloride, a polymeric amine that binds phosphate and is meant for oral administration. Sevelamer hydrochloride is poly(allylamine hydrochloride) crosslinked with epichlorohydrin in which forty percent of the amines are protonated. It is known chemically as poly(allylamine-co-N,N'-diallyl-1,3-diamino-2-hydroxypropane) hydrochloride. Sevelamer hydrochloride is hydrophilic, but insoluble in water. The structure is represented in Figure 1.

Figure 1. Chemical Structure of Sevelamer Hydrochloride



- The primary amine groups shown in the structure are derived directly from
- poly(allylamine hydrochloride). The crosslinking groups consist of two secondary amine
- groups derived from poly(allylamine hydrochloride) and one molecule of
- 157 epichlorohydrin.
- Renagel® Tablets: Each film-coated tablet of Renagel contains either 800 mg or 400 mg
- of sevelamer hydrochloride on an anhydrous basis. The inactive ingredients are
- hypromellose, diacetylated monoglyceride, colloidal silicon dioxide, and stearic acid.
- 161 The tablet imprint contains iron oxide black ink.

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PROPOSED TEXT OF THE LABELING OF THE DRUG

12. CLINICAL PHARMACOLOGY

- Patients with chronic kidney disease (CKD) on dialysis retain phosphorus and can
- develop hyperphosphatemia. High serum phosphorus can precipitate serum calcium
- resulting in ectopic calcification. When the product of serum calcium and phosphorus
- concentrations (Ca x P) exceeds 55 mg²/dL², there is an increased risk that ectopic
- calcification will occur. Hyperphosphatemia plays a role in the development of
- secondary hyperparathyroidism in renal insufficiency.
- 169 Treatment of hyperphosphatemia includes reduction in dietary intake of phosphate,
- inhibition of intestinal phosphate absorption with phosphate binders, and removal of
- phosphate with dialysis. Renagel taken with meals has been shown to decrease serum
- phosphorus concentrations in patients with CKD who are on dialysis.

12.1 Mechanism of Action

- Renagel contains sevelamer hydrochloride, a non-absorbed binding crosslinked polymer.
- 175 It contains multiple amines separated by one carbon from the polymer backbone. These
- amines exist in a protonated form in the intestine and interact with phosphate molecules
- through ionic and hydrogen bonding. By binding phosphate in the dietary tract and
- decreasing absorption, sevelamer hydrochloride lowers the phosphate concentration in
- the serum.

180 **12.2 Pharmacodynamics**

- In addition to effects on serum phosphate levels, sevelamer hydrochloride has been
- shown to bind bile acids *in vitro* and *in vivo* in experimental animal models. Bile acid
- binding by ion exchange resins is a well-established method of lowering blood
- cholesterol. Because sevelamer binds bile acids, it may interfere with normal fat
- absorption and thus may reduce absorption of fat-soluble vitamins such as A, D and K.
- In clinical trials of sevelamer hydrochloride, both the mean total and LDL cholesterol
- declined by 15-31%. This effect is observed after 2 weeks. Triglycerides, HDL
- cholesterol and albumin did not change.

189 **12.3 Pharmacokinetics**

- A mass balance study using ¹⁴C-sevelamer hydrochloride in 16 healthy male and female
- volunteers showed that sevelamer hydrochloride is not systemically absorbed. No
- absorption studies have been performed in patients with renal disease.

193	13. NONCLINICAL TOXICOLOGY
194	13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
195	Standard lifetime carcinogenicity bioassays were conducted in mice and rats. Rats were
196	given sevelamer hydrochloride by diet at 0.3, 1, or 3 g/kg/day. There was an increased
197	incidence of urinary bladder transitional cell papilloma in male rats of the high dose
198	group (human equivalent dose twice the maximum clinical trial dose of 13 g). Mice
199	received dietary administration of sevelamer hydrochloride at doses of up to 9 g/kg/day
200	(human equivalent dose 3 times the maximum clinical trial dose). There was no
201	increased incidence of tumors observed in mice.
202	In an in vitro mammalian cytogenetic test with metabolic activation, sevelamer
203	hydrochloride caused a statistically significant increase in the number of structural
204	chromosome aberrations. Sevelamer hydrochloride was not mutagenic in the Ames
205	bacterial mutation assay.
206	Sevelamer hydrochloride did not impair the fertility of male or female rats in a dietary
207	administration study in which the females were treated from 14 days prior to mating
208	through gestation and the males were treated for 28 days prior to mating. The highest
209	dose in this study was $4.5~g/kg/day$ (human equivalent dose 3 times the maximum clinical
210	trial dose of 13 g).
211	In pregnant rats given dietary doses of 0.5, 1.5 or 4.5 g/kg/day of sevelamer
212	hydrochloride during organogenesis, reduced or irregular ossification of fetal bones,
213	probably due to a reduced absorption of fat-soluble vitamin D, occurred in mid- and high-
214	dose groups (human equivalent doses less than the maximum clinical trial dose of 13 g).
215	In pregnant rabbits given oral doses of 100, 500 or 1000 mg/kg/day of sevelamer
216	hydrochloride by gavage during organogenesis, an increase of early resorptions occurred
217	in the high-dose group (human equivalent dose twice the maximum clinical trial dose).

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PROPOSED TEXT OF THE LABELING OF THE DRUG

14. CLINICAL STUDIES

219 The ability of Renagel to lower serum phosphorus in CKD patients on dialysis was 220 demonstrated in six clinical trials: one double-blind placebo controlled 2-week study (Renagel N=24); two open-label uncontrolled 8-week studies (Renagel N=220) and three 221 active-controlled open-label studies with treatment durations of 8 to 52 weeks (Renagel 222 N=256). Three of the active-controlled studies are described here. One is a crossover 223 study with two 8-week periods comparing Renagel to an active-control. The second is a 224 225 52-week parallel study comparing Renagel with active-control. The third is a 12-week 226 parallel study comparing Renagel and active-control in peritoneal dialysis patients.

14.1 Active-Control, Cross-Over Study in Hemodialysis Patients

Eighty-four CKD patients on hemodialysis who were hyperphosphatemic (serum phosphorus > 6.0 mg/dL) following a two-week phosphate binder washout period received Renagel and active-control for eight weeks each in random order. Treatment periods were separated by a two-week phosphate binder washout period. Patients started on treatment three times per day with meals. Over each eight-week treatment period, at three separate time points the dose of Renagel could be titrated up 1 capsule or tablet per meal (3 per day) to control serum phosphorus, the dose of active-control could also be altered to attain phosphate control. Both treatments significantly decreased mean serum phosphorus by about 2 mg/dL (Table 4).

Table 4. Mean Serum Phosphorus (mg/dL) at Baseline and Endpoint

	Renagel [®] (N=81)	Active-Control (N=83)
Baseline at End of Washout	8.4	8.0
Endpoint	6.4	5.9
Change from Baseline at Endpoint (95% Confidence Interval)	-2.0* (-2.5, -1.5)	-2.1* (-2.6, -1.7)

*p<0.0001, within treatment group comparison

The distribution of responses is shown in Figure 2. The distributions are similar for sevelamer hydrochloride and active control. The median response is a reduction of about 2 mg/dL in both groups. About 50% of subjects have reductions between 1 and 3 mg/dL..

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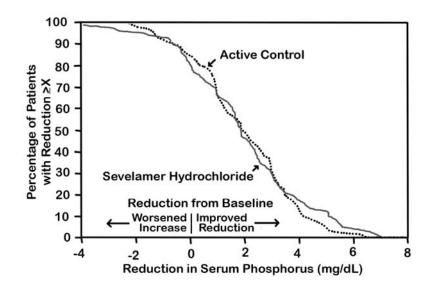
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Figure 2. Percentage of patients (Y-axis) attaining a phosphorus reduction from baseline (mg/dL) at least as great as the value of the X-axis.



Average daily Renagel dose at the end of treatment was 4.9 g (range of 0.0 to 12.6 g).

14.2 Active-Control, Parallel Study in Hemodialysis Patients

Two hundred CKD patients on hemodialysis who were hyperphosphatemic (serum phosphorus >5.5 mg/dL) following a two-week phosphate binder washout period were randomized to receive Renagel 800 mg tablets (N=99) or an active-control (N=101). The two treatments produced similar decreases in serum phosphorus. At week 52, using last-observation-carried-forward, Renagel and active-control both significantly decreased mean serum phosphorus (Table 5).

Table 5.

Mean Serum Phosphorus (mg/dL) and Ion Product at Baseline and Change from

Baseline to End of Treatment

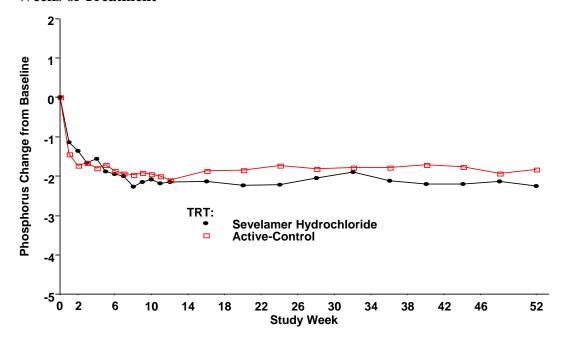
	Renagel [®]	Active-Control
	(N=94)	(N=98)
Phosphorus		
Baseline	7.5	7.3

Change from Baseline at Endpoint	-2.1	-1.8
Ca x Phosphorus Ion Product		
Baseline	70.5	68.4
Change from Baseline at Endpoint	-19.4	-14.2

Sixty-one percent of Renagel patients and 73% of the control patients completed the full 52 weeks of treatment.

Figure 3, a plot of the phosphorus change from baseline for the completers, illustrates the durability of response for patients who are able to remain on treatment.

Figure 3. Mean Phosphorus Change from Baseline for Patients who Completed 52
Weeks of Treatment



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Average daily Renagel dose at the end of treatment was 6.5 g (range of 0.8 to 13 g).

14.3 Active-Control, Parallel Study in Peritoneal Dialysis Patients

One hundred and forty-three patients on peritoneal dialysis who were hyperphosphatemic (serum phosphorus > 5.5 mg/dL) following a two-week phosphate binder washout period were randomized to receive Renagel[®] (N=97) or active-control (N=46) open label for 12 weeks. Average daily Renagel dose at the end of treatment was 5.9 g (range 0.8 to 14.3 g). There were statistically significant changes in serum phosphorus (p<0.001) for Renagel (-1.6 mg/dL from baseline of 7.5 mg/dL), similar to the active-control.

16. HOW SUPPLIED/STORAGE AND HANDLING

- Renagel[®] 800 mg Tablets are supplied as oval, film-coated, compressed tablets,
- imprinted with "RENAGEL 800" containing 800 mg of sevelamer hydrochloride on an
- anhydrous basis, hypromellose, diacetylated monoglyceride, colloidal silicon dioxide,
- and stearic acid. Renagel[®] 800 mg Tablets are packaged in bottles of 180 tablets.
- 292 Renagel[®] 400 mg Tablets are supplied as oval, film-coated, compressed tablets,
- imprinted with "RENAGEL 400" containing 400 mg of sevelamer hydrochloride on an
- anhydrous basis, hypromellose, diacetylated monoglyceride, colloidal silicon dioxide,
- and stearic acid. Renagel[®] 400 mg Tablets are packaged in bottles of 360 tablets.
- 296 1 Bottle of 30 ct 800 mg Tablets (NDC 58468-0021-3)
- 297 1 Bottle of 180 ct 800 mg Tablets (NDC 58468-0021-1)
- 298 1 Bottle of 360 ct 400 mg Tablets (NDC 58468-0020-1)
- 299 **Storage** Store at 25°C (77°F): excursions permitted to 15-30°C (59-86°F).
- 300 Do not use Renagel[®] after the expiration date on the bottle.
- 301 [See USP controlled room temperature]
- 302 Protect from moisture.
- 303 17 PATIENT COUNSELING INFORMATION
- 304 17.1 Dosing Recommendations
- The prescriber should inform patients to take Renagel with meals and adhere to their
- prescribed diets. Instructions should be given on concomitant medications that should be
- 307 dosed apart from Renagel.
- 308 17.2 Adverse Reactions
- Renagel may cause constipation that if left untreated, may lead to severe complications.
- Patients should be cautioned to report new onset or worsening of existing constipation
- 311 promptly to their physician.
- 312 Distributed by:
- 313 Genzyme Corporation
- 314 500 Kendall Street
- 315 Cambridge, MA 02142 USA

¹ Renagel is a Registered Trademark of Genzyme Corporation.