HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use
REGRANEX® gel safely and effectively. See full prescribing information for
REGRANEX gel.

REGRANEX (becaplermin) gel, for topical use.
Initial U.S. Approval: 1997

RECENT MAJOR CHANGES
Boxed Warning, increased rate of cancer mortality Removed 11/2018
Warnings and Precautions, cancer mortality Removed 11/2018

INDICATIONS AND USAGE
REGRANEX is a human platelet-derived growth factor indicated for the
treatment of lower extremity diabetic neuropathic ulcers that extend into
the subcutaneous tissue or beyond and have an adequate blood supply.
REGRANEX gel is indicated as an adjunct to, and not a substitute for, good
ulcer care practices. (1)

Limitations of Use:
• The efficacy of REGRANEX gel has not been established for the treatment of
  pressure ulcers and venous stasis ulcers. (1)
• The effects of REGRANEX gel on exposed joints, tendons, ligaments, andone have not been established in humans. (1)
• REGRANEX gel is a non-sterile, low bioburden preserved product. Therefore,
it should not be used in wounds that close by primary intention. (1)

DOSAGE AND ADMINISTRATION
• For topical use; not for oral, ophthalmic or intravaginal use. (2)
• To calculate the length of REGRANEX gel to apply, measure the greatest
  length of ulcer by greatest width of ulcer in either inches or centimeters. (2)

CONTRAINDICATIONS
Known neoplasm(s) at the site(s) of application (4)

WARNINGS AND PRECAUTIONS
Malignancies distant from the site of application have been reported in both a
clinical study and in postmarketing use.
The benefits and risks of REGRANEX gel treatment should be carefully evaluated
before prescribing in patients with known malignancy. (5.1)

ADVERSE REACTIONS
Erythematous rashes occurred in 2% of patients treated with REGRANEX gel (6.1)
To report SUSPECTED ADVERSE REACTIONS contact FDA at 1-800-FDA-1088
or www.fda.gov/medwatch, or Smith & Nephew, Inc. at 1-800-441-8227.
See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.
Revised: 11/2018

FULL PRESCRIBING INFORMATION: CONTENTS*
1 INDICATIONS AND USAGE
2 DOSAGE AND ADMINISTRATION
3 DOSAGE FORMS AND STRENGTHS
4 CONTRAINDICATIONS
5 WARNINGS AND PRECAUTIONS
  5.1 Risk of Cancer
  5.2 Application Site Reactions
6 ADVERSE REACTIONS
  6.1 Clinical Trials Experience
  6.2 Postmarketing Experience
7 DRUG INTERACTIONS
8 USE IN SPECIFIC POPULATIONS
  8.1 Pregnancy
  8.2 Lactation
  8.4 Pediatric Use
  8.5 Geriatric Use
10 OVERDOSAGE
11 DESCRIPTION
12 CLINICAL PHARMACOLOGY
  12.1 Mechanism of Action
  12.2 Pharmacodynamics
  12.3 Pharmacokinetics
13 NONCLINICAL TOXICOLOGY
  13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
  13.2 Animal Toxicology and/or Pharmacology
14 CLINICAL STUDIES
  14.1 Efficacy in Diabetic Lower Extremity Ulcers
  14.2 Lack of Efficacy in Pressure Ulcers and Venous Stasis Ulcers
16 HOW SUPPLIED/STORAGE AND HANDLING
17 PATIENT COUNSELING INFORMATION

*Disease states for which treatment has not been studied are in italics.

*Sections or subsections omitted from the Full Prescribing Information are not listed.

FULL PRESCRIBING INFORMATION
1 INDICATIONS AND USAGE
REGRANEX gel is indicated for the treatment of lower extremity diabetic
neuropathic ulcers that extend into the subcutaneous tissue or beyond
and have an adequate blood supply, when used as an adjunct to, and not a sub-
stitute for, good ulcer care practices including initial sharp debridement, pressure
relief and infection control.

Limitations of Use:
The efficacy of REGRANEX gel has not been established for the treatment of
pressure ulcers and venous stasis ulcers [see Clinical Studies (14.2)] and has not
been evaluated for the treatment of diabetic neuropathic ulcers that do not
extend through the dermis into subcutaneous tissue [Stage I or II, International
Association of Enterostomal Therapy (IAET) staging classification] or ischemic
diabetic ulcers.
The effects of becaplermin on exposed joints, tendons, ligaments, and bone
have not been established in humans [see Nonclinical Toxicology (13.2)].
REGRANEX gel is a non-sterile, low bioburden preserved product. Therefore, it
should not be used in wounds that close by primary intention.

Formula to Calculate Length of Gel to Be Applied Daily
Tube Size Formula
15g Tube Inches: ulcer length × ulcer width × 0.6
15g Tube Centimeters: ulcer length × ulcer width ÷ 4

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

13 NONCLINICAL TOXICOLOGY

14 CLINICAL STUDIES

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

Revised: 11/2018
2 DOSAGE AND ADMINISTRATION

REGRANEX gel is for topical use; it is not for oral, ophthalmic or intravaginal use.

The amount of REGRANEX gel to be applied depends upon the size of the ulcer area. To calculate the length of gel to apply to the ulcer, measure the greatest length of the ulcer by the greatest width of the ulcer in either inches or centimeters. To calculate the length of gel in inches, use the formula shown below in Table 1, and to calculate the length of gel in centimeters, use the formula shown below in Table 2.

Using the calculation, each square inch of ulcer surface will require approximately 2/3 inch length of gel squeezed from a 15g tube. For example, if the ulcer measures 1 inch by 2 inches, then a 1 1/4 inch length of gel should be used for 15g tubes (1 × 2 × 0.6 = 1 1/4).

Using the calculations for ulcer size in centimeters, each square centimeter of ulcer surface will require approximately a 0.25 centimeter length of gel squeezed from a 15g tube. For example, if the ulcer measures 4 cm by 2 cm, then a 2 centimeter length of gel should be used for a 15g tube (4 × 2 ÷ 4 = 2).

The amount of REGRANEX gel to be applied should be recalculated by the physician or wound caregiver at weekly or biweekly intervals depending on the rate of change in ulcer area. The weight of REGRANEX gel from 15g tubes is 0.65g per inch length and 0.25g per centimeter length.

To apply REGRANEX gel, the calculated length of gel should be squeezed on to a clean measuring surface, e.g., wax paper. The measured REGRANEX gel is transferred from the clean measuring surface using an application aid and then spread over the entire ulcer area to yield a thin continuous layer of approximately 1/16 of an inch thickness. The site(s) of application should then be covered by a saline moistened dressing and left in place for approximately 12 hours. The dressing should then be removed and the ulcer rinsed with saline or water to remove residual gel and covered again with a second moist dressing (without REGRANEX gel) for the remainder of the day. REGRANEX gel should be applied once daily to the ulcer until complete healing has occurred. If the ulcer does not decrease in size by approximately 30% after 10 weeks of treatment or complete healing has not occurred in 20 weeks, continued treatment with REGRANEX gel should be reassessed. The step-by-step instructions for applying REGRANEX gel for home administration are described under “Patient Counseling Information” (see Patient Counseling Information (17)).

3 DOSAGE FORMS AND STRENGTHS

Gel: 0.1%; clear, colorless to straw-colored gel

4 CONTRAINDICATIONS

REGRANEX gel is contraindicated in patients with known neoplasm(s) at the site(s) of application.

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Cancer

Malignancies distant from the site of application have occurred in REGRANEX gel users in a clinical study and in postmarketing use (see Adverse Reactions (6.1) and Clinical Studies (14.3)). REGRANEX gel contains becaplermin, a recombinant human platelet-derived growth factor, which promotes cellular proliferation and angiogenesis (see Clinical Pharmacology (12.1)).

The benefits and risks of REGRANEX gel treatment should be carefully evaluated before prescribing in patients with known malignancy.

5.2 Application Site Reactions

If application site reactions occur, the possibility of sensitization or irritation caused by parabens or m-cresol should be considered. Consider interruption or discontinuation and further evaluation (e.g. patch testing) as dictated by clinical circumstances.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

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

- In clinical trials, erythematous rashes occurred in 2% of subjects treated with REGRANEX gel (and good ulcer care) or placebo (and good ulcer care), and none in subjects receiving good ulcer care alone. Subjects treated with REGRANEX gel did not develop neutralizing antibodies against becaplermin.

- In a retrospective follow-up study of 491 of 651 subjects (75%) from two randomized, controlled trials of another formulation of becaplermin gel 0.01%, the subjects were followed for a median of approximately 20 months to evaluate safety and recurrence of healed diabetic lower extremity ulcers. Eight of 291 subjects (2.7%) from the becaplermin gel group and two of 200 subjects (1%) from the vehicle/standard of care group were diagnosed with cancers during the follow-up period, a relative risk of 2.7 (95% confidence interval [CI], 0.6-12.8). The types of cancers varied and all were remote from the treatment site (see Warnings and Precautions (5.1)).

6.2 Postmarketing Experience

Because post-approval adverse reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to the drug. The following adverse reactions have been identified during postapproval use of REGRANEX gel.

- Increased rate of death from systemic malignancies in patients dispensed 3 or more tubes of REGRANEX gel, observed in one of three retrospective postmarketing studies (see Clinical Studies (14.3)).

- Burning sensation at the site of application and erythema.

7 DRUG INTERACTIONS

It is not known if REGRANEX gel interacts with other topical medications applied to the ulcer site. The use of REGRANEX gel with other topical drugs has not been studied.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on REGRANEX gel use in pregnant women to inform the drug associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. Animal reproduction studies have not been conducted with REGRANEX gel.

The background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

8.2 Lactation

There are no data on the presence of becaplermin in human milk, the effects on the breastfed infant, or the effects on milk production after topical application of REGRANEX gel to lactating women. The developmental and health benefits of breastfeeding should be considered along with the lactating woman’s clinical need for REGRANEX gel and any potential adverse effects on the breastfed child from becaplermin.

8.4 Pediatric Use

Safety and effectiveness of REGRANEX gel in pediatric patients below the age of 16 years have not been established.

8.5 Geriatric Use

Among patients receiving any dose of REGRANEX gel in clinical studies of diabetic lower extremity ulcers, 150 patients were 65 years of age and older. No overall differences in safety or effectiveness were observed between
patients < 65 years of age and patients ≥ 65 years of age. The number of patients aged 75 and older were insufficient (n=34) to determine whether they respond differently from younger patients.

10 OVERDOSAGE
There are no data on the effects of REGRANEX gel overdose.

11 DESCRIPTION
REGRANEX gel contains becaplermin, a recombinant human platelet-derived growth factor, for topical administration. Bicaplermin is produced by recombinant DNA technology by insertion of the gene for the B chain of platelet-derived growth factor (PDGF) into the yeast, Saccharomyces cerevisiae.

Bicaplermin has a molecular weight of approximately 25 KD and is a homodimer composed of two identical polypeptide chains that are bound together by disulfide bonds. REGRANEX Gel is a non-sterile, low bioburden, preserved, sodium carbomethylcellulose-based (CMC) topical gel, containing the active ingredient becaplermin and the following inactive ingredients: carboxymethylcellulose sodium, glacial acetic acid, l-lysine hydrochloride, m-cresol, methylparaben, propylparaben, sodium acetate trihydrate, sodium chloride, and water for injection. Each gram of REGRANEX gel contains 100 mcg of becaplermin.

12 CLINICAL PHARMACOLOGY
12.1 Mechanism of Action
REGRANEX gel has biological activity similar to that of endogenous platelet-derived growth factor, which includes promoting the chemotactic recruitment and proliferation of cells involved in wound repair and enhancing the formation of granulation tissue.

12.2 Pharmacodynamics
Clinical pharmacodynamic studies have not been conducted.

12.3 Pharmacokinetics
Ten patients with Stage III or IV (as defined in the International Association of Enterostomal Therapy [IAET] guide to chronic wound staging] lower extremity diabetic ulcers received topical applications of becaplermin gel 0.01% at a dose range of 0.32–2.95 µg/kg (7µg/cm²) daily for 14 days. Six patients had non-quantifiable PDGF levels at baseline and throughout the study, two patients had PDGF levels at baseline which did not increase substantially, and two patients had PDGF levels that increased sporadically above their baseline values during the 14-day study period.

13 NONCLINICAL TOXICOLOGY
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Bicaplermin was not genotoxic in a battery of in vitro assays (including those for bacterial and mammalian cell point mutation, chromosomal aberration, and DNA damage/repair). Bicaplermin was also not mutagenic in an in vivo assay for the induction of micronuclei in mouse bone marrow cells.

Carcinogenesis and reproductive toxicity studies have not been conducted with REGRANEX gel.

13.2 Animal Toxicology and/or Pharmacology
In nonclinical studies, rats injected at the metatarsals with 3 or 10 mcg/site (approximately 60 or 200 mcg/kg) of becaplermin every other day for 13 days displayed histological changes indicative of accelerated bone remodeling consisting of periosteal hyperplasia and subperiosteal bone resorption and exostosis. The soft tissue adjacent to the injection site had fibroplasia with accompanying mononuclear cell infiltration reflective of the ability of PDGF to stimulate connective tissue growth.

14 CLINICAL STUDIES
14.1 Efficacy in Diabetic Lower Extremity Ulcers
The effects of REGRANEX gel on the incidence of and time to complete healing in lower extremity diabetic neuropathic ulcers were assessed in four randomized controlled studies (Studies 1-4). Of 922 subjects studied, 478 received either REGRANEX gel 0.003% or 0.01%. All study participants had lower extremity diabetic neuropathic ulcers that extended into the subcutaneous tissue or beyond (Stages III and IV of the International Association of Enterostomal Therapy [IAET] guide to chronic wound staging). Ninety-three percent of the subjects enrolled in these four trials had foot ulcers. The remaining 7% of the subjects had ankle or leg ulcers. The diabetic ulcers were of at least 8 weeks duration and had an adequate blood supply (defined as TpO₂ > 30 mm Hg). In the four trials, 95% of the ulcers measured in area up to 10 cm², and the median ulcer size at baseline ranged from 1.4 cm² to 3.5 cm². All treatment groups received a program of good ulcer care consisting of initial complete sharp debridement, a non-weight-bearing regimen, systemic treatment for wound-related infection, and additional debridement as necessary. REGRANEX gel 0.003% or 0.01% or placebo gel was applied once a day and covered with a saline moistened dressing. After approximately 12 hours, the gel was gently rinsed off and a saline moistened dressing was then applied for the remainder of the day. Patients were treated until complete healing, or for a period of up to 20 weeks. Subjects were considered a treatment failure if their ulcer did not show an approximately 30% reduction in initial ulcer area after eight to ten weeks of therapy.

The results of the primary endpoint, incidence of complete ulcer closure within 20 weeks, for all treatment arms is shown in Figure 1. In each study, REGRANEX gel in conjunction with good ulcer care was compared to placebo gel plus good ulcer care or good ulcer care alone.

In Study 1, a multicenter, double-blind, placebo-controlled trial of 118 subjects, the incidence of complete ulcer closure for REGRANEX gel 0.003% (n=61) was 48% versus 25% for placebo gel (n=57; p=0.02, logistic regression analysis). In Study 2, a multicenter, double-blind, placebo-controlled trial of 382 subjects, the incidence of complete ulcer closure for REGRANEX gel 0.01% (n=123) was 50% versus 36% for REGRANEX gel 0.003% (n=152) and 35% for placebo gel (n=127). Only REGRANEX gel 0.01% was significantly different from placebo gel (p<0.01, logistic regression analysis).

The primary goal of Study 3, a multicenter controlled trial of 172 subjects, was to assess the safety of vehicle gel (placebo; n=70) compared to good ulcer care alone (n=68). The study included a small (n=34) REGRANEX gel 0.01% arm. Incidences of complete ulcer closure were 44% for REGRANEX gel, 36% for placebo gel and 22% for good ulcer care alone.

In Study 4, a multicenter, evaluator-blind, controlled trial of 250 subjects, the incidences of complete ulcer closure in the REGRANEX gel 0.01% arm (n=128) (36%) and good ulcer care alone (n=122) (32%) were not statistically different.

In general, where REGRANEX Gel was associated with higher incidences of complete ulcer closure, differences in the incidence first became apparent after approximately 10 weeks and increased with continued treatment (Table 3).
In a 3-month follow-up period where no standardized regimen of preventative care was utilized, the incidence of ulcer recurrence was approximately 30% in all treatment groups, demonstrating that the durability of ulcer closure was comparable in all treatment groups.

14.2 Lack of Efficacy in Pressure Ulcers and Venous Stasis Ulcers

In a randomized, double-blind study of REGRANEX gel (100 mcg/g once daily for 16 weeks) in subjects with Stage III or IV pressure ulcers, the incidence of complete ulcer closure was 15% (28/189) in the REGRANEX gel group and 12% (22/190) in the vehicle control group. This difference was not statistically significant.

In two small, randomized, double-blinded studies of REGRANEX gel (100 mcg/g once daily for 16 weeks) in subjects with venous stasis ulcers, the combined incidence of complete ulcer closure was 46% (30/65) in the REGRANEX gel group and 39% (26/67) in the vehicle control group. This difference was not statistically significant.

14.3 Observational Studies to Evaluate Cancer Development and Mortality

The observational studies described below do not involve random allocation of treatments. They are susceptible to bias and confounding.

A retrospective study using medical claims database to assess cancer incidence with up to 6 years of follow-up observed development of 28 cancers and 8 cancer deaths in the REGRANEX gel-exposed cohort (n = 1,622) and 43 cancers and 8 cancer deaths in the matched comparator cohort not exposed to REGRANEX gel (n = 2,809). The rate ratio for incident cancer comparing the REGRANEX gel-exposed cohort to the unexposed comparator cohort was 1.2 (95% CI, 0.7 -1.9). The rate ratio for cancer mortality comparing the REGRANEX gel-exposed cohort to the unexposed comparator cohort was 1.0 (95% CI, 0.7 -1.5). The rate ratio comparing patients exposed to three or more tubes of REGRANEX gel to those not exposed was 1.1 (95% CI, 0.8 -1.4). [See Adverse Reactions (6.2)].

A retrospective study using medical claims from the Veteran Affairs health care database with up to 11 years of follow-up among patients without prior cancer observed 197 cancer deaths in the REGRANEX gel-exposed cohort (n = 6,429) and 206 cancer deaths in the matched comparator cohort not exposed to REGRANEX gel (n = 6,429), resulting in a hazard ratio of 0.9 (95% CI, 0.8-1.2). The hazard ratio for cancer mortality comparing patients exposed to three or more tubes of REGRANEX gel to those not exposed was 1.0 (95% CI, 0.7 -1.5). The hazard ratio for incident cancer in a smaller cohort (1,507 REGRANEX gel-exposed and 1,507 unexposed patients) comparing patients exposed to REGRANEX gel to those not exposed was 1.1 (95% CI, 0.8-1.4). A second retrospective study using medical claims from the Veteran Affairs health care database with up to 11 years of follow-up among patients with prior cancer observed 87 cancer deaths in the REGRANEX gel-exposed cohort (n = 477) and 340 cancer deaths in the matched comparator cohort not exposed to REGRANEX gel (n = 1,756), resulting in a hazard ratio of 0.9 (95% CI, 0.7 -1.2). The hazard ratio for cancer mortality comparing patients exposed to three or more tubes of REGRANEX gel to those not exposed was 0.9 (95% CI, 0.6 -1.2).

In a randomized, double-blind study of REGRANEX gel (100 mcg/g once daily for 16 weeks) in subjects with Stage III or IV pressure ulcers, the incidence of complete ulcer closure was 30% (46/156) in the REGRANEX gel group and 21% (34/165) in the vehicle control group. This difference was not statistically significant.

The rate ratio comparing patients exposed to three or more tubes of REGRANEX gel to those not exposed was 5.2 (95% CI, 1.6 -17.6) [See Adverse Reactions (6.2)].

Step-by-step instructions for application of REGRANEX gel are as follows:

- Squeeze the calculated length of gel onto a clean, firm, nonabsorbable surface, e.g., wax paper.
- With a clean cotton swab, tongue depressor, or similar application aid, spread the measured REGRANEX gel over the ulcer surface to obtain an even layer.
- Cover with a saline moistened gauze dressing.
  - after approximately 12 hours, the ulcer should be gently rinsed with saline or water to remove residual gel and covered with a saline-moistened gauze dressing (without REGRANEX gel);
  - it is important to use REGRANEX gel together with a good ulcer care program, including a strict non-weight-bearing program;
  - excess application of REGRANEX gel has not been shown to be beneficial;
  - REGRANEX gel should be stored in the refrigerator. Do not freeze REGRANEX gel;
  - REGRANEX gel should not be used after the expiration date on the bottom, crimped end of the tube.

Manufactured by: Smith & Nephew, Inc., Fort Worth, TX 76109
U.S. Gov't License # 2004

Marketed by: Smith & Nephew, Inc., Fort Worth, TX 76109
REGRANEX™ is a registered trademark of Smith & Nephew, Inc.

Part No. 141054-1118

MEDICATION GUIDE
REGRANEX™ (RE–GRAN’–IX) (becaplermin) gel

Read this Medication Guide before you start using REGRANEX and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or your treatment.

What is the most important information I should know about REGRANEX?
If you already have cancer, you and your healthcare provider
should carefully consider whether you will use REGRANEX. If you decide to use REGRANEX, your healthcare provider will tell you how to use REGRANEX. See the section “How should I use REGRANEX?” below.

What is REGRANEX?
REGRANEX is a protein medicine made in yeast that is used with other ulcer care practices (such as good wound care) to treat diabetic sores (ulcers) of your legs or feet that are deeper than just your skin, in people who have good blood supply to the legs.

It is not known if REGRANEX is effective for the treatment of pressure ulcers or ulcers that are due to poor blood flow (circulation).

It is not known if REGRANEX is safe and effective in children under 16 years of age.

Who should not use REGRANEX?
Do not use REGRANEX if you have a skin tumor at the area where you apply REGRANEX.

What should I tell my healthcare provider before using REGRANEX?
Before you use REGRANEX tell your healthcare provider if you:

• have cancer
• have poor blood flow to your lower legs and feet
• have allergies to any of the ingredients in REGRANEX. See the end of this Medication Guide for a complete list of ingredients in REGRANEX.
• have any other medical conditions
• are pregnant or plan to become pregnant. It is not known if REGRANEX will harm your unborn baby.
• are breast-feeding or plan to breast-feed. It is not known if the active ingredient of REGRANEX passes into your breast milk.

Tell your healthcare provider about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Especially tell your healthcare provider if you apply other medicines to diabetic ulcers of your legs or feet.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I use REGRANEX?

• Use REGRANEX together with good ulcer care, as prescribed by your healthcare provider. This includes following your healthcare provider’s instructions about not putting weight on the affected leg and foot (non-weight bearing).
• Use REGRANEX exactly as your healthcare provider tells you to use it.
• REGRANEX is for use on skin ulcers only. Do not use REGRANEX in your mouth, eyes, or vagina.
• REGRANEX comes as a gel. Your healthcare provider should tell you how often to use REGRANEX and how much REGRANEX to use.
• Your healthcare provider should check the size of your ulcer every 1 to 2 weeks.
• Your healthcare provider may change the amount of REGRANEX to be applied to your ulcer as the size of your ulcer changes. So, the amount of REGRANEX to be squeezed from the tube may change as the size of your ulcer changes.
• Close your REGRANEX tube tightly after each use.
• Put the REGRANEX tube back in the refrigerator after each use.
• Use a cotton swab, tongue depressor, or other application aid when you apply your REGRANEX. Do not let the tip of your REGRANEX tube touch the ulcer or any other surface.
• Apply REGRANEX one time each day.

Apply REGRANEX as follows:

○ Wash your hands well before you apply REGRANEX.
○ Carefully measure the amount of REGRANEX that your healthcare provider tells you to use.
○ Squeeze the amount of REGRANEX needed for your ulcer on to a clean, firm, non-absorbable surface, such as wax paper.
○ Use a clean cotton swab, tongue depressor, or similar application aid, to spread the REGRANEX gel in a thin even layer over the surface of the ulcer on your foot or leg.
○ Cover the area with a saline-moistened gauze dressing.
○ After about 12 hours, gently rinse the ulcer with saline or water to remove the rest of the REGRANEX. Cover the ulcer with a new saline-moistened gauze dressing. Do not apply any more REGRANEX.

What are the possible side effects of REGRANEX?
REGRANEX may cause serious side effects.

• See the section, “What is the most important information I should know about REGRANEX?”
• Common side effects of REGRANEX include:
  ○ Red skin rash
  ○ Burning at the application site

Tell your doctor if you have any side effect that bothers you or that does not go away:
These are not all the possible side effects of REGRANEX gel. For more information, ask your doctor or pharmacist. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088. You may also report side effects to Smith & Nephew, Inc. at 1-800-441-8227.

How should I store REGRANEX?

• Store REGRANEX in the refrigerator at 36°F to 46°F (2°C to 8°C).
• Do not freeze REGRANEX.
• Do not use REGRANEX after the expiration date on the bottom (sealed end) of the tube.
• Throw away your REGRANEX that is out of date or no longer needed for your treatment.

Keep REGRANEX and all medicines out of the reach of children.

General information about REGRANEX
Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use REGRANEX for a condition for which it was not prescribed. Do not give REGRANEX to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about REGRANEX. If you would like more information about REGRANEX, talk to your healthcare provider. You can ask your healthcare provider or pharmacist for information about REGRANEX that is written for health professionals.
What are the ingredients in REGRANEX?

**Active ingredient:** becaplermin

**Inactive ingredients:** carboxymethylcellulose sodium, glacial acetic acid, L-lysine hydrochloride, m-cresol, methylparaben, propylparaben, sodium acetate trihydrate, sodium chloride, and water for injection.

Manufactured by: Smith & Nephew, Inc., Fort Worth, TX 76109

U.S. Gov't License # 2004

Marketed by: Smith & Nephew, Inc., Fort Worth, TX 76109


Part No. 141054-1118

Revised: November 2018

This Medication Guide has been approved by the U.S. Food and Drug Administration.