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

Imiquimod cream, 3.75%, for topical use

Initial U.S. Approval: 1997

INDICATIONS AND USAGE

• Imiquimod Cream 3.75%, is indicated for the topical treatment of clinically typical, visible or palpable actinic keratoses (AK) of the full face or balding scalp in immunocompetent adults. (1.1)
• Imiquimod Cream, 3.75% is also indicated for the topical treatment of external genital and perianal warts/condyloma acuminata (EGW) in patients 12 years or older. (1.2)
• Limitations of Use: Efficacy of imiquimod cream was not demonstrated for molluscum contagiosum in children 2 to 12 years of age. (1.3, 8.4)

DOSAGE AND ADMINISTRATION

• For topical use only; not for oral, ophthalmic, intra-anal or intravaginal use. (2)
• Actinic Keratosis: Once daily to the skin of the affected area (either the entire face or balding scalp) for two 2-week treatment cycles separated by a 2-week no-treatment period. (2.1)
• External Genital Warts: Once daily to the external genital/perianal warts until total clearance or up to 8 weeks. (2.2)

DOSAGE FORMS AND STRENGTHS

• Cream: 3.75% pump. (3)

CONTRAINDICATIONS

• None. (4)

WARNINGS AND PRECAUTIONS

• Intense local inflammatory reactions can occur (e.g., skin weeping, erosion). Dosing interruption may be required. (2, 5.1, 6)
• Severe local inflammatory reactions of the female external genitalia can lead to severe vulvar swelling. Severe vulvar swelling can lead to urinary retention; dosing should be interrupted or discontinued. (5.1)
• Flu-like systemic signs and symptoms including fatigue, nausea, fever, myalgias, arthralgias, and chills can occur. Dosing interruption may be required. (2.1, 2.2, 5.2, 6)
• Avoid concomitant use of Imiquimod Cream and any other imiquimod cream because of increased risk for adverse reactions. (5.4)

ADVERSE REACTIONS

Most common adverse reactions (>4%) are local skin reactions (erythema, edema, erosion/ulceration, exudate, scabbing/crusting), headache, application site pain, application site irritation, application site pruritus, fatigue, influenza-like illness, and nausea. (6.1, 6.2)

To report SUSPECTED ADVERSE REACTIONS, contact Valeant Pharmaceuticals North America LLC at 1-800-321-4576 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
See 17 for PATIENT COUNSELING INFORMATION.

Revised: 5/2018
1 INDICATIONS AND USAGE

1.1 Actinic Keratosis
Imiquimod Cream, 3.75% is indicated for the topical treatment of clinically typical visible or palpable, actinic keratoses (AK) of the full face or balding scalp in immunocompetent adults.
1.2 External Genital Warts
Imiquimod Cream, 3.75% is indicated for the treatment of external genital and perianal warts (EGW)/condyloma acuminata in patients 12 years or older.

1.3 Limitations of Use
Imiquimod cream has been evaluated in children ages 2 to 12 years with molluscum contagiosum and these studies failed to demonstrate efficacy [see Use in Specific Populations (8.4)].

Treatment with Imiquimod Cream has not been studied for prevention or transmission of human papillomavirus (HPV).

1.4 Unevaluated Populations
The safety and efficacy of Imiquimod Cream have not been established in the treatment of:

- urethral, intravaginal, cervical, rectal, or intra-anal human papilloma viral disease.
- actinic keratosis when treated with more than one 2-cycle treatment course in the same area.
- patients with xeroderma pigmentosum.
- superficial basal cell carcinoma.
- immunosuppressed patients.

2 DOSAGE AND ADMINISTRATION
For topical use only; Imiquimod Cream is not for oral, ophthalmic, intra-anal or intravaginal use.

2.1 Actinic Keratosis
Imiquimod Cream should be applied once daily before bedtime to the skin of the affected area (either entire face or balding scalp) for two 2-week treatment cycles separated by a 2-week no-treatment period. Imiquimod Cream should be applied as a thin film to the entire treatment area and rubbed in until the cream is no longer visible. Up to 0.5 grams (two full actuations of the pump) of Imiquimod Cream may be applied to the treatment area at each application. Imiquimod Cream should be left on the skin for approximately 8 hours, after which time the cream should be removed by washing the area with mild soap and water. The prescriber should demonstrate the proper application technique to maximize the benefit of Imiquimod Cream therapy.

Patients should wash their hands before and after applying Imiquimod Cream.

Avoid use in or on the lips and nostrils. Do not use in or near the eyes.

Local skin reactions in the treatment area are common [see Adverse Reactions (6.1)]. A rest period of several days may be taken if required by the patient's discomfort or severity of the local skin reaction. However, neither 2-week treatment cycle should be extended due to missed doses or rest periods. A transient increase in lesion counts may be observed during treatment. Response to treatment cannot be adequately assessed until resolution of local skin reactions. The patient should continue dosing as prescribed. Treatment should continue for the full treatment course even if all actinic keratoses appear to be gone. Lesions that do not respond to treatment should be carefully re-evaluated and management reconsidered.

Prescribe no more than two 7.5 g pumps for the total 2-cycle treatment course.

2.2 External Genital Warts
Patients should apply a thin layer of Imiquimod Cream once a day to the external genital/perianal warts until total clearance or for up to 8 weeks. Patients should use up to 0.25 grams (one full actuation of the pump) at each application, which is a sufficient amount of cream to cover the wart area. Imiquimod
Cream should be applied prior to normal sleeping hours and left on the skin for approximately 8 hours, then removed by washing the area with mild soap and water. The prescriber should demonstrate the proper application technique to maximize the benefit of Imiquimod Cream therapy.

Patients should wash their hands before and after applying Imiquimod Cream.

Local skin reactions at the treatment site are common [see Adverse Reactions (6.2)], and may necessitate a rest period of several days; resume treatment once the reaction subsides. Non-occlusive dressings, such as cotton gauze or cotton underwear, may be used in the management of skin reactions.

Prescribe up to two 7.5 g pumps for the total treatment course. Use of excessive amounts of cream should be avoided.

2.3 Pump Administration

Imiquimod Cream pumps should be primed before using for the first time by repeatedly depressing the actuator until cream is dispensed. It is not necessary to repeat this priming process during treatment.

3 DOSAGE FORMS AND STRENGTHS

Imiquimod Cream, 3.75% is a white to faintly yellow cream available in pump bottles. Each pump bottle, when actuated after priming, delivers 0.235 grams of cream.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Local Skin Reactions

Intense local skin reactions including skin weeping or erosion can occur after a few applications of Imiquimod Cream and may require an interruption of dosing [see Dosage and Administration (2) and Adverse Reactions (6)]. Imiquimod Cream has the potential to exacerbate inflammatory conditions of the skin, including chronic graft versus host disease.

Severe local inflammatory reactions of the female external genitalia can lead to severe vulvar swelling. Severe vulvar swelling can lead to urinary retention. Dosing should be interrupted or discontinued for severe vulvar swelling.

Administration of Imiquimod Cream is not recommended until the skin is healed from any previous drug or surgical treatment.

5.2 Systemic Reactions

Flu-like signs and symptoms may accompany, or even precede, local skin reactions and may include fatigue, nausea, fever, myalgias, arthralgias, malaise, and chills. An interruption of dosing and an assessment of the patient should be considered [see Adverse Reactions (6)].

Lymphadenopathy occurred in 2% of subjects with actinic keratosis treated with Imiquimod Cream, 3.75% and in 3% of subjects treated with Imiquimod Cream, 2.5% [see Adverse Reactions (6)]. This reaction resolved in all subjects by 4 weeks after completion of treatment.

5.3 Ultraviolet Light Exposure Risks

Exposure to sunlight (including sunlamps) should be avoided or minimized during use of Imiquimod Cream. Patients should be warned to use protective clothing (e.g., a hat) when using Imiquimod Cream. Patients with sunburn should be advised not to use Imiquimod Cream until fully recovered. Patients who
may have considerable sun exposure (e.g., due to their occupation) and those patients with inherent sensitivity to sunlight should exercise caution when using Imiquimod Cream.

In an animal photocarcinogenicity study, imiquimod cream shortened the time to skin tumor formation [see Nonclinical Toxicology (13.1)]. The enhancement of ultraviolet carcinogenicity is not necessarily dependent on phototoxic mechanisms. Therefore, patients should minimize or avoid natural or artificial sunlight exposure.

5.4 Increased Risk of Adverse Reactions with Concomitant Imiquimod Use

Concomitant use of Imiquimod Cream and any other imiquimod products, in the same treatment area, should be avoided since they contain the same active ingredient (imiquimod) and may increase the risk for and severity of local skin reactions.

The safety of concomitant use of Imiquimod Cream and any other imiquimod products has not been established and should be avoided since they contain the same active ingredient (imiquimod) and may increase the risk for and severity of systemic reactions.

5.5 Immune Cell Activation in Autoimmune Disease

Imiquimod Cream should be used with caution in patients with pre-existing autoimmune conditions because imiquimod activates immune cells [see Clinical Pharmacology (12.2)].

6 ADVERSE REACTIONS

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.

6.1 Clinical Trials Experience: Actinic Keratosis

The data described below reflect exposure to Imiquimod Cream or vehicle in 479 subjects enrolled in two double-blind, vehicle-controlled trials. Subjects applied up to two packets of Imiquimod Cream or vehicle daily to the skin of the affected area (either entire face or balding scalp) for two 2-week treatment cycles separated by a 2-week no-treatment period.

Table 1: Selected Adverse Reactions Occurring in ≥2% of Imiquimod-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (AK)

<table>
<thead>
<tr>
<th>Adverse Reactions</th>
<th>Imiquimod Cream, 3.75% (N=160)</th>
<th>Imiquimod Cream, 2.5% (N=160)</th>
<th>Vehicle (N=159)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headache</td>
<td>10 (6%)</td>
<td>3 (2%)</td>
<td>5 (3%)</td>
</tr>
<tr>
<td>Application site pruritus</td>
<td>7 (4%)</td>
<td>6 (4%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Fatigue</td>
<td>7 (4%)</td>
<td>2 (1%)</td>
<td>0</td>
</tr>
<tr>
<td>Nausea</td>
<td>6 (4%)</td>
<td>1 (1%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Influenza-like illness</td>
<td>1 (&lt;1%)</td>
<td>6 (4%)</td>
<td>0</td>
</tr>
<tr>
<td>Application site irritation</td>
<td>5 (3%)</td>
<td>4 (3%)</td>
<td>0</td>
</tr>
<tr>
<td>Pyrexia</td>
<td>5 (3%)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Anorexia</td>
<td>4 (3%)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dizziness</td>
<td>4 (3%)</td>
<td>1 (&lt;1%)</td>
<td>0</td>
</tr>
<tr>
<td>Herpes simplex</td>
<td>4 (3%)</td>
<td>0</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Application site pain</td>
<td>5 (3%)</td>
<td>2 (1%)</td>
<td>0</td>
</tr>
<tr>
<td>Lymphadenopathy</td>
<td>3 (2%)</td>
<td>4 (3%)</td>
<td>0</td>
</tr>
<tr>
<td>Oral herpes</td>
<td>0</td>
<td>4 (3%)</td>
<td>0</td>
</tr>
</tbody>
</table>
Local skin reactions were recorded as adverse reactions only if they extended beyond the treatment area, if they required any medical intervention, or they resulted in patient discontinuation from the study. The incidence and severity of selected local skin reactions are shown in Table 2.

**Table 2: Local Skin Reactions in the Treatment Area in Imiquimod-Treated Subjects as Assessed by the Investigator (AK)**

<table>
<thead>
<tr>
<th>All Grades* (%)</th>
<th>Imiquimod Cream, 3.75% (N=160)</th>
<th>Imiquimod Cream, 2.5% (N=160)</th>
<th>Vehicle (N=159)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe (%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erythema*</td>
<td>96%</td>
<td>96%</td>
<td>78%</td>
</tr>
<tr>
<td></td>
<td>Severe erythema</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scabbing/Crusting*</td>
<td>93%</td>
<td>84%</td>
<td>45%</td>
</tr>
<tr>
<td></td>
<td>Severe scabbing/crusting</td>
<td>14%</td>
<td>9%</td>
</tr>
<tr>
<td>Edema*</td>
<td>75%</td>
<td>63%</td>
<td>19%</td>
</tr>
<tr>
<td></td>
<td>Severe edema</td>
<td>6%</td>
<td>4%</td>
</tr>
<tr>
<td>Erosion/Ulceration*</td>
<td>62%</td>
<td>52%</td>
<td>9%</td>
</tr>
<tr>
<td></td>
<td>Severe erosion/ulceration</td>
<td>11%</td>
<td>9%</td>
</tr>
<tr>
<td>Exudate*</td>
<td>51%</td>
<td>39%</td>
<td>4%</td>
</tr>
<tr>
<td></td>
<td>Severe exudate</td>
<td>6%</td>
<td>1%</td>
</tr>
<tr>
<td>Flaking/Scaling/Dryness*</td>
<td>91%</td>
<td>88%</td>
<td>77%</td>
</tr>
<tr>
<td></td>
<td>Severe flaking/scaling/dryness</td>
<td>8%</td>
<td>4%</td>
</tr>
</tbody>
</table>

* Mild, moderate, or severe

Overall, in the clinical trials, 11% (17/160) of subjects in the Imiquimod Cream, 3.75% arm, 7% (11/160) of subjects in the Imiquimod Cream, 2.5% arm, and 0% in the vehicle cream arm required rest periods due to adverse local skin reactions.

Other adverse reactions observed in subjects treated with Imiquimod Cream include: application site bleeding, application site swelling, chills, dermatitis, herpes zoster, insomnia, lethargy, myalgia, pancytopenia, pruritus, squamous cell carcinoma, and vomiting.

### 6.2 Clinical Trials Experience: External Genital Warts

In two double-blind, placebo-controlled studies, 602 subjects applied up to one packet of Imiquimod Cream or vehicle daily for up to 8 weeks.

The most frequently reported adverse reactions were application site reactions and local skin reactions. Selected adverse reactions are listed in Table 3.

**Table 3: Selected Adverse Reactions Occurring in ≥2% of Imiquimod-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Trials (EGW)**

<table>
<thead>
<tr>
<th>Preferred Term</th>
<th>Imiquimod Cream, 3.75% (N=400)</th>
<th>Vehicle Cream (N=202)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application site pain</td>
<td>28 (7%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Application site irritation</td>
<td>24 (6%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Application site pruritus</td>
<td>11 (3%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Vaginitis bacterial*</td>
<td>6 (3%)</td>
<td>2 (2%)</td>
</tr>
</tbody>
</table>
Local skin reactions were recorded as adverse reactions only if they extended beyond the treatment area, if they required any medical intervention, or if they resulted in patient discontinuation from the study. The incidence and severity of selected local skin reactions are shown in Table 4.

Table 4: Selected Local Skin Reactions in the Treatment Area Assessed by the Investigator (EGW)

<table>
<thead>
<tr>
<th></th>
<th>Imiquimod Cream, 3.75% (N=400)</th>
<th>Vehicle Cream (N=202)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Erythema</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severe (9%)</td>
<td>70%</td>
<td>27%</td>
</tr>
<tr>
<td>Severe erythema</td>
<td>9%</td>
<td>&lt;1%</td>
</tr>
<tr>
<td><strong>Edema</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severe edema</td>
<td>41%</td>
<td>8%</td>
</tr>
<tr>
<td><strong>Erosion/ulceration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severe erosion/ulceration</td>
<td>36%</td>
<td>4%</td>
</tr>
<tr>
<td><strong>Exudate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severe exudate</td>
<td>34%</td>
<td>2%</td>
</tr>
</tbody>
</table>

* Mild, moderate, or severe

The frequency and severity of local skin reactions were similar in both genders, with the following exceptions: a) flaking/scaling occurred in 40% of men and in 26% of women and b) scabbing/crusting occurred in 34% of men and in 18% of women.

In the clinical trials, 32% (126/400) of subjects who used Imiquimod Cream and 2% (4/202) of subjects who used vehicle cream discontinued treatment temporarily (required rest periods) due to adverse local skin reactions, and 1% (3/400) of subjects who used Imiquimod Cream discontinued treatment permanently due to local skin/application site reactions.

Other adverse reactions reported in subjects treated with Imiquimod Cream include: rash, back pain, application site rash, application site cellulitis, application site excoriation, application site bleeding, scrotal pain, scrotal erythema, scrotal ulcer, scrotal edema, sinusitis, nausea, pyrexia, and influenza-like symptoms.

6.3 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of imiquimod. Because these 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 drug exposure.

**Application Site Disorders**: tingling at the application site

**Body as a Whole**: angioedema

**Cardiovascular**: capillary leak syndrome, cardiac failure, cardiomyopathy, pulmonary edema, arrhythmias (tachycardia, supraventricular tachycardia, atrial fibrillation, palpitations), chest pain, ischemia, myocardial infarction, syncope

**Endocrine**: thyroiditis

**Gastrointestinal System Disorders**: abdominal pain

**Hematological**: decreases in red cell, white cell and platelet counts (including idiopathic thrombocytopenic purpura), lymphoma
**Hepatic:** abnormal liver function

**Infections and Infestations:** herpes simplex

**Musculoskeletal System Disorders:** arthralgia

**Neuropsychiatric:** agitation, cerebrovascular accident, convulsions (including febrile convulsions), depression, insomnia, multiple sclerosis aggravation, paresis, suicide

**Respiratory:** dyspnea

**Urinary System Disorders:** proteinuria, urinary retention, dysuria

**Skin and Appendages:** exfoliative dermatitis, erythema multiforme, hyperpigmentation, hypertrophic scar, hypopigmentation

**Vascular:** Henoch-Schonlein purpura syndrome

### 8 USE IN SPECIFIC POPULATIONS

#### 8.1 Pregnancy

**Pregnancy Category C:**

There are no adequate and well-controlled studies in pregnant women. Imiquimod Cream should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

The animal multiples of human exposure calculations were based on daily dose comparisons for the reproductive toxicology studies described in this section and in Section 13.1. The animal multiples of human exposure were based on weekly dose comparisons for the carcinogenicity studies described in Section 13.1. For the animal multiple of human exposure ratios presented in this section and Section 13.1, the Maximum Recommended Human Dose (MRHD) was set at two packets (500 mg cream) per treatment of actinic keratosis with Imiquimod Cream (imiquimod 3.75%, 18.75 mg imiquimod) for BSA comparison. The maximum human AUC value obtained in the treatment of external genital and perianal warts was higher than that obtained in the treatment of actinic keratosis and was used in the calculation of animal multiples of MRHD that were based on AUC comparison.

Systemic embryofetal development studies were conducted in rats and rabbits. Oral doses of 1, 5, and 20 mg/kg/day imiquimod were administered during the period of organogenesis (gestational days 6–15) to pregnant female rats. In the presence of maternal toxicity, fetal effects noted at 20 mg/kg/day (163X MRHD based on AUC comparisons) included increased resorptions, decreased fetal body weights, delays in skeletal ossification, bent limb bones, and two fetuses in one litter (2 of 1567 fetuses) demonstrated exencephaly, protruding tongues, and low-set ears. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 5 mg/kg/day (28X MRHD based on AUC comparisons).

Intravenous doses of 0.5, 1, and 2 mg/kg/day imiquimod were administered during the period of organogenesis (gestational days 6–18) to pregnant female rabbits. No treatment related effects on embryofetal toxicity or teratogenicity were noted at 2 mg/kg/day (2.1X MRHD based on BSA comparisons), the highest dose evaluated in this study, or 1 mg/kg/day (115X MRHD based on AUC comparisons).

A combined fertility and peri- and postnatal development study was conducted in rats. Oral doses of 1, 1.5, 3, and 6 mg/kg/day imiquimod were administered to male rats from 70 days prior to mating through the mating period and to female rats from 14 days prior to mating through parturition and lactation. No effects on growth, fertility, reproduction or postnatal development were noted at doses up to 6 mg/kg/day (25X MRHD based on AUC comparisons), the highest dose evaluated in this study. In the absence of maternal toxicity, bent limb bones were noted in the F1 fetuses at a dose of 6 mg/kg/day (25X MRHD based on AUC comparisons). This fetal effect was also noted in the oral rat embryofoetal development study conducted with imiquimod. No treatment related effects on teratogenicity were noted.
at 3 mg/kg/day (12X MRHD based on AUC comparisons).

8.3 Nursing Mothers

It is not known whether imiquimod is excreted in human milk following use of Imiquimod Cream. Because many drugs are excreted in human milk, caution should be exercised when Imiquimod Cream is administered to nursing women.

8.4 Pediatric Use

AK is a condition not generally seen within the pediatric population. The safety and effectiveness of Imiquimod Cream for AK in patients less than 18 years of age have not been established.

Safety and effectiveness in patients with external genital/perianal warts below the age of 12 years have not been established.

Imiquimod 5% cream was evaluated in two randomized, vehicle-controlled, double-blind trials involving 702 pediatric subjects with molluscum contagiosum (MC) (470 exposed to imiquimod; median age 5 years, range 2-12 years). Subjects applied imiquimod cream or vehicle 3 times weekly for up to 16 weeks. Complete clearance (no MC lesions) was assessed at Week 18. In Study 1, the complete clearance rate was 24% (52/217) in the imiquimod cream group compared with 26% (28/106) in the vehicle group. In Study 2, the clearance rates were 24% (60/253) in the imiquimod cream group compared with 28% (35/126) in the vehicle group. These studies failed to demonstrate efficacy.

Similar to the studies conducted in adults, the most frequently reported adverse reaction from two studies in children with molluscum contagiosum was application site reaction. Adverse events which occurred more frequently in imiquimod-treated subjects compared with vehicle-treated subjects generally resembled those seen in studies in indications approved for adults and also included otitis media (5% imiquimod vs. 3% vehicle) and conjunctivitis (3% imiquimod vs. 2% vehicle).

Erythema was the most frequently reported local skin reaction. Severe local skin reactions reported by imiquimod-treated subjects in the pediatric studies included erythema (28%), edema (8%), scabbing/crusting (5%), flaking/scaling (5%), erosion (2%) and weeping/exudate (2%).

Systemic absorption of imiquimod across the affected skin of 22 subjects aged 2 to 12 years with extensive MC involving at least 10% of the total body surface area was observed after single and multiple doses at a dosing frequency of three applications per week for 4 weeks. The investigator determined the dose applied, either 1, 2 or 3 packets per dose, based on the size of the treatment area and the subject’s weight. The overall median peak serum drug concentrations at the end of Week 4 was between 0.26 and 1.06 ng/mL except in a 2-year-old female who was administered 2 packets of study drug per dose, had a C_max of 9.66 ng/mL after multiple dosing. Children aged 2-5 years received doses of 12.5 mg (one packet) or 25 mg (two packets) of imiquimod and had median multiple-dose peak serum drug levels of approximately 0.2 or 0.5 ng/mL, respectively. Children aged 6-12 years received doses of 12.5 mg, 25 mg, or 37.5 mg (three packets) and had median multiple dose serum drug levels of approximately 0.1, 0.15, or 0.3 ng/mL, respectively. Among the 20 subjects with evaluable laboratory assessments, the median WBC count decreased by 1.4*10^9/L and the median absolute neutrophil count decreased by 1.42*10^9/L.

8.5 Geriatric Use

Of the 320 subjects treated with Imiquimod Cream in the AK clinical studies, 150 subjects (47%) were 65 years or older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects.

Clinical studies of Imiquimod Cream for EGW did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Of the 400 subjects treated with Imiquimod Cream, 3.75% in the EGW clinical studies, 5 subjects (1%) were 65 years or older.
10 OVERDOSAGE
Topical overdosing of Imiquimod Cream could result in an increased incidence of severe local skin reactions and may increase the risk for systemic reactions.

Hypotension was reported in a clinical trial following multiple oral imiquimod doses of >200 mg (equivalent to ingestion of the imiquimod content of more than 21 packets or pump actuations of Imiquimod Cream, 3.75% or more than 32 pump actuations of Imiquimod Cream, 2.5%). The hypotension resolved following oral or intravenous fluid administration.

11 DESCRIPTION
Imiquimod Cream, 3.75% is intended for topical administration. Each gram contains 37.5 mg of imiquimod, respectively, in a white to faintly yellow oil-in-water cream base consisting of benzyl alcohol, cetyl alcohol, glycerin, isostearic acid, methylparaben, polysorbate 60, propylparaben, purified water, sorbitan monostearate, stearyl alcohol, white petrolatum, and xanthan gum.

Chemically, imiquimod is C_{14}H_{16}N_{4} and a molecular weight of 240.3. Its structural formula is:

\[
\begin{align*}
\text{Imiquimod} & \quad \text{Chemical structure} \\
\end{align*}
\]

Imiquimod Cream, 3.75% comes in pumps which dispense 8.8 mg of imiquimod in 0.235 g of cream per full actuation of the pump after priming.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
The mechanism of action of Imiquimod Cream in treating AK and EGW lesions is unknown.

12.2 Pharmacodynamics
The pharmacodynamics of Imiquimod Cream are unknown.

Imiquimod is a Toll-like receptor 7 agonist that activates immune cells. Topical application to skin is associated with increases in markers for cytokines and immune cells.

Actinic Keratosis
In a study of 18 subjects with AK comparing imiquimod cream, 5% to vehicle, increases from baseline in Week 2 biomarker levels were reported for CD3, CD4, CD8, CD11c, and CD68 for imiquimod cream, 5% treated subjects; however, the clinical relevance of these findings is unknown.

External Genital Warts
Imiquimod has no direct antiviral activity in cell culture.
12.3 Pharmacokinetics

Following dosing with 2 packets of Imiquimod Cream, 3.75% once daily (18.75 mg imiquimod/day) for up to 3 weeks, systemic absorption of imiquimod was observed in all subjects when Imiquimod Cream was applied to the face and/or scalp in 17 subjects with at least 10 AK lesions. The mean peak serum imiquimod concentration at the end of the trial was approximately 0.323 ng/mL. The median time to maximal concentrations ($T_{\text{max}}$) occurred at 9 hours after dosing. Based on the plasma half-life of imiquimod observed at the end of the study, 29.3±17.0 hours, steady-state concentrations can be anticipated to occur by Day 7 with once-daily dosing.

Systemic absorption of imiquimod (up to 9.4 mg [one packet]) across the affected skin of 18 subjects with EGW was observed with once daily dosing for 3 weeks in all subjects. The subjects had either a minimum of 8 warts (range 8-93) or a surface area involvement of greater than 100 mm$^2$ (range 15-620 mm$^2$) at study entry. The mean peak serum imiquimod concentration at Day 21 was 0.488 +/- 0.368 ng/mL. The median time to maximal concentrations ($T_{\text{max}}$) occurred 12 hours after dosing. Based on the plasma half-life of imiquimod observed at the end of the study, 24.1 +/- 12.4 hours, steady-state concentrations can be anticipated to occur by day 7 with once daily dosing. Because of the small number of subjects present (13 males, 5 females) it was not possible to select out or do an analysis of absorption based on gender/site of application.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In an oral (gavage) rat carcinogenicity study, imiquimod was administered to Wistar rats on a 2X/week (up to 6 mg/kg/day) or daily (3 mg/kg/day) dosing schedule for 24 months. No treatment-related tumors were noted in the oral rat carcinogenicity study up to the highest doses tested in this study of 6 mg/kg administered 2X/week in female rats (7.1X MRHD based on weekly AUC comparisons), 4 mg/kg administered 2X/week in male rats (6.1X MRHD based on weekly AUC comparisons) or 3 mg/kg administered 7X/week to male and female rats (12X MRHD based on weekly AUC comparisons).

In a dermal mouse carcinogenicity study, imiquimod cream (up to 5 mg/kg/application imiquimod or 0.3% imiquimod cream) was applied to the backs of mice 3X/week for 24 months. A statistically significant increase in the incidence of liver adenomas and carcinomas was noted in high-dose male mice compared to control male mice (21X MRHD based on weekly AUC comparisons). An increased number of skin papillomas was observed in vehicle cream control group animals at the treated site only.

In a 52-week dermal photocarcinogenicity study, the median time to onset of skin tumor formation was decreased in hairless mice following chronic topical dosing (3X/week; 40 weeks of treatment followed by 12 weeks of observation) with concurrent exposure to UV radiation (5 days per week) with vehicle alone. No additional effect on tumor development beyond the vehicle effect was noted with the addition of the active ingredient, imiquimod, to the vehicle cream.

Imiquimod revealed no evidence of mutagenic or clastogenic potential based on the results of five in vitro genotoxicity tests (Ames assay, mouse lymphoma L5178Y assay, Chinese hamster ovary cell chromosome aberration assay, human lymphocyte chromosome aberration assay and SHE cell transformation assay) and three in vivo genotoxicity tests (rat and hamster bone marrow cytogenetics assay and a mouse dominant lethal test).

Daily oral administration of imiquimod to rats, throughout mating, gestation, parturition and lactation, demonstrated no effects on growth, fertility or reproduction, at doses up to 25X MRHD based on AUC comparisons.

14 CLINICAL STUDIES

14.1 Actinic Keratosis
In two double-blind, randomized, vehicle-controlled clinical studies, 479 subjects with AK were treated with Imiquimod Cream, 3.75%, Imiquimod Cream, 2.5%, or vehicle cream. Studies enrolled subjects 18 years of age or older with 5 to 20 typical visible or palpable AK lesions of the face or scalp. Study cream was applied to either the entire face (excluding ears) or balding scalp once daily for two 2-week treatment cycles separated by a 2-week no-treatment period. Subjects then continued in the study for an 8-week follow-up period during which they returned for clinical observations and safety monitoring. Study subjects ranged from 36 to 90 years of age and 54% had Fitzpatrick skin type I or II. All Imiquimod Cream-treated subjects were Caucasians.

On a scheduled dosing day, up to two packets of the study cream were applied to the entire treatment area prior to normal sleeping hours and left on for approximately 8 hours. Efficacy was assessed by AK lesion counts at the 8-week post-treatment visit. All AKs in the treatment area were counted, including baseline lesions as well as lesions which appeared during therapy.

Complete clearance required absence of any lesions including those that appeared during therapy in the treatment area. Complete and partial clearance rates are shown in the tables below. Partial clearance rate was defined as the percentage of subjects in whom the number of baseline AKs was reduced by 75% or more. The partial clearance rate was measured relative to the numbers of AK lesions at baseline.

### Table 5: Rate of Subjects with Complete Clearance at 8 Weeks Post-Treatment

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<thead>
<tr>
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<th>Imiquimod Cream, 3.75%</th>
<th>Imiquimod Cream, 2.5%</th>
<th>Vehicle Cream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study AK1</td>
<td>26% (21/81)</td>
<td>23% (19/81)</td>
<td>3% (2/80)</td>
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<tr>
<td>Study AK2</td>
<td>46% (36/79)</td>
<td>38% (30/79)</td>
<td>10% (8/79)</td>
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### Table 6: Rate of Subjects with Partial Clearance (≥75%) at 8 Weeks Post-Treatment

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<thead>
<tr>
<th></th>
<th>Imiquimod Cream, 3.75%</th>
<th>Imiquimod Cream, 2.5%</th>
<th>Vehicle Cream</th>
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<tbody>
<tr>
<td>Study AK1</td>
<td>46% (37/81)</td>
<td>42% (34/81)</td>
<td>19% (15/80)</td>
</tr>
<tr>
<td>Study AK2</td>
<td>73% (58/79)</td>
<td>54% (43/79)</td>
<td>27% (21/79)</td>
</tr>
</tbody>
</table>

During the course of treatment, 86% (138/160) of Imiquimod Cream, 3.75% subjects and 84% (135/160) of Imiquimod Cream, 2.5% subjects experienced a transient increase in lesions evaluated as actinic keratoses relative to the number present at baseline within the treatment area.

### 14.2 External Genital Warts

In two double-blind, randomized, placebo-controlled clinical studies, 601 subjects with EGW were treated with 3.75% imiquimod cream, or a matching placebo cream. Studies enrolled subjects aged from 15 to 81 years. The baseline wart area ranged from 6 to 5579 mm$^2$ (median 60 mm$^2$) and the baseline wart count ranged from 2 to 48 warts. Most subjects had two or more treated anatomic areas at baseline. Anatomic areas included: inguinal, perineal, and perianal areas (both genders); the glans penis, penis shaft, scrotum, and foreskin (in men); and the vulva (in women). Up to one packet of study cream was applied once daily. The study cream was applied to all warts prior to normal sleeping hours and left on for approximately 8 hours. Subjects continued applying the study cream for up to 8 weeks, stopping if they achieved complete clearance of all (baseline and new) warts in all anatomic areas. Subjects who achieved complete clearance of all warts at any time up to the Week 16 visit entered a 12-week follow-up period to assess recurrence.

Complete clearance was defined as clearance of all warts (baseline and new) in all anatomic areas within 16 weeks from baseline. The complete clearance rates are shown in Table 7. The proportions of subjects who achieved complete clearance at or before a given week (cumulative proportion) for the combined studies are shown in Figure 1. Complete clearance rates by gender for the combined studies
are shown in Table 8.

### Table 7: Percent of Subjects with Complete Clearance of External Genital Warts Within 16 Weeks from Baseline

<table>
<thead>
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<th></th>
<th>Imiquimod Cream, 3.75%</th>
<th>Vehicle Cream</th>
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<tr>
<td>Study EGW1</td>
<td>53/195 (27%)</td>
<td>10/97 (10%)</td>
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<tr>
<td>Study EGW2</td>
<td>60/204 (29%)</td>
<td>9/105 (9%)</td>
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</table>

Figure 1: Cumulative Proportion of Subjects Achieving Complete Clearance of External Genital Warts by a Given Week (Combined Studies)

![Cumulative Proportion Graph]

### Table 8: Percent of Subjects with Complete Clearance of External Genital Warts within 16 Weeks from Baseline by Gender (Combined Studies)

<table>
<thead>
<tr>
<th>Gender</th>
<th>Imiquimod Cream, 3.75%</th>
<th>Vehicle Cream</th>
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<tbody>
<tr>
<td>Females</td>
<td>79/216 (37%)</td>
<td>15/106 (14%)</td>
</tr>
<tr>
<td>Males</td>
<td>34/183 (19%)</td>
<td>4/96 (4%)</td>
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</table>

Of the 113 Imiquimod Cream, 3.75%-treated subjects who achieved complete clearance in the two studies, 17 (15%) subjects had a recurrence within 12 weeks.

No studies were conducted directly comparing the 3.75% and 5% concentrations of imiquimod cream in the treatment of external genital warts.

### 16 HOW SUPPLIED/STORAGE AND HANDLING

Imiquimod Cream, 3.75% is white to faintly yellow in color and supplied as white plastic 30 mL pump bottles, equipped with a white cap. The 7.5g pump delivers no fewer than 28 full actuations.

- 7.5 g of the 3.75% cream, NDC 68682-272-75.
17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Instructions for Administration

Imiquimod Cream should be used as directed by a physician. Imiquimod Cream is for external use only. Contact with the eyes, lips, nostrils, anus and vagina should be avoided [see Indications and Usage (1) and Dosage and Administration (2)].

The treatment area should not be bandaged or otherwise occluded. Pumps should be discarded after completion of a full treatment course. The prescriber should demonstrate the proper application technique to maximize the benefit of Imiquimod Cream therapy.

It is recommended that patients wash their hands before and after applying Imiquimod Cream.

Local Skin Reactions

Patients may experience local skin reactions during treatment with Imiquimod Cream. Potential local skin reactions include erythema, edema, erosions/ulcerations, weeping/exudate, flaking/scaling/dryness, and scabbing/crusting. These reactions can range from mild to severe in intensity and may extend beyond the application site onto the surrounding skin. Patients may also experience application site reactions such as itching, irritation or pain [see Adverse Reactions (6)].

Local skin reactions may be of such an intensity that patients may require rest periods from treatment. Treatment with Imiquimod Cream can be resumed after the skin reaction has subsided, as determined by the physician. However, for actinic keratosis, each treatment cycle should not be extended beyond 2 weeks due to missed doses or rest periods. For external genital warts, treatment should not be extended beyond 8 weeks due to missed doses or rest periods. Patients should contact their physician promptly if they experience any sign or symptom at the application site that restricts or prohibits their daily activity or makes continued application of the cream difficult.

Because of local skin reactions, during treatment and until healed, the treatment area is likely to appear noticeably different from normal skin. Localized hypopigmentation and hyperpigmentation have been reported following use of imiquimod cream. These skin color changes may be permanent in some patients.

Systemic Reactions

Patients may experience flu-like systemic signs and symptoms during treatment with Imiquimod Cream. Systemic signs and symptoms may include fatigue, nausea, fever, myalgia, malaise, arthralgia, and chills [see Adverse Reactions (6)]. An interruption of dosing and an assessment of the patient should be considered.

Patients Being Treated for Actinic Keratosis (AK)

Dosing is once daily before bedtime to the skin of the affected area (entire face or balding scalp) for two 2-week treatment cycles separated by a 2-week no-treatment period. However, the treatment period should not be extended beyond two 2-week treatment cycles due to missed doses or rest periods. Treatment should continue for the full treatment course even if all actinic keratoses appear to be gone [see Dosage and Administration (2.1)].

It is recommended that patients wash their hands before and after applying Imiquimod Cream. Before applying the cream, the patient should wash the treatment area with mild soap and water and allow the area to dry thoroughly.
It is recommended that the treatment area be washed with mild soap and water 8 hours following Imiquimod Cream application.

Most patients using Imiquimod Cream for the treatment of AK experience erythema, flaking/scaling/dryness, and scabbing/crusting at the application site with normal dosing [see Adverse Reactions (6.1)].

Use of sunscreen is encouraged, and patients should minimize or avoid exposure to natural or artificial sunlight (tanning beds or UVA/B treatment) while using Imiquimod Cream [see Warnings and Precautions (5.3)].

Additional lesions may become apparent in the treatment area during treatment [see Clinical Studies (14.1)].

Patients Being Treated for External Genital Warts (EGW)

Dosing is once daily before bedtime to the skin of the affected wart areas. Imiquimod Cream treatment should continue until there is total clearance of the genital/perianal warts or for up to 8 weeks.

It is recommended that the treatment area be washed with mild soap and water approximately 8 hours following Imiquimod Cream application.

It is common for patients to experience local skin reactions (i.e., erythema, erosion, exudate, flaking/scaling, scabbing/crusting and edema) at the site of application or surrounding areas.

Sexual (genital, anal, oral) contact should be avoided while Imiquimod Cream is on the skin. Application of Imiquimod Cream in the vagina is considered internal and should be avoided. Female patients should take special care if applying the cream at the opening of the vagina because local skin reactions on the delicate moist surfaces can result in pain or swelling, and may cause difficulty in passing urine.

Uncircumcised males treating warts under the foreskin should retract the foreskin and clean the area daily.

New warts may develop during therapy, as Imiquimod Cream is not a cure.

The effect of Imiquimod Cream on the transmission of genital/perianal warts is unknown.

Imiquimod Cream may weaken condoms and vaginal diaphragms, therefore concurrent use is not recommended.

Should severe local skin reactions occur, the cream should be removed by washing the treatment area with mild soap and water.

Manufactured for:
Oceanside Pharmaceuticals, a division of Valeant Pharmaceuticals North America LLC
Bridgewater, NJ 08807 USA

By:
3M Health Care Limited
Loughborough, Leicestershire, LE11 5SF, United Kingdom

U.S. Patent Numbers: 8,236,816; 8,299,109; 8,598,196; 8,642,616; 9,078,889 and 9,271,973 for Imiquimod Cream 3.75%
U.S. Patent Numbers: 8,222,270 and 9,370,509 for Imiquimod Cream 2.5%

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Revised: 05/2018
9643400

Patient Information
Imiquimod
Cream

Important: For use on the skin only (topical). Do not use Imiquimod Cream in or on your eyes, mouth, anus or vagina or inside your nose.

Read the Patient Information that comes with Imiquimod Cream before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your healthcare provider about your medical condition or treatment. If you do not understand the information, or have any questions about Imiquimod Cream, talk with your healthcare provider or pharmacist.

What is Imiquimod Cream?

Imiquimod Cream, 3.75% is a prescription medicine for skin use only (topical) to treat actinic keratosis on the face or balding scalp in adults with a normal immune system.

Imiquimod Cream, 3.75% is a prescription medicine for use on the skin only (topical) to treat external genital and perianal warts in people 12 years and older.

It is not known if Imiquimod Cream is safe and effective in the treatment of:

• human papilloma virus (HPV) disease of the urethra, the inside of the vagina (intravaginal), cervix, rectum, or inside of the anus (intra-anal)
• actinic keratosis, when treated with more than one 2-cycle treatment course in the same affected area
• people who have a weakened immune system
• xeroderma pigmentosum
• superficial basal cell carcinoma

It is not known if Imiquimod Cream is safe and effective for the treatment of actinic keratosis in children less than 18 years of age.

It is not known if Imiquimod Cream is safe and effective in children less than 12 years of age for external genital and perianal warts.

What should I tell my healthcare provider before using Imiquimod Cream?

Before you use Imiquimod Cream, tell your healthcare provider if you:

• have problems with your immune system.
• are being treated or have been treated for actinic keratosis with other medicines or surgery. You should not use Imiquimod Cream until you have healed from other treatments.
• have other skin problems or sunburn.
• have any other medical conditions.
• are pregnant or planning to become pregnant. It is not known if Imiquimod Cream can harm your unborn baby. Talk to your healthcare provider if you are pregnant or plan to become pregnant.
• are breast-feeding or plan to breast-feed. It is not known if Imiquimod Cream passes into your breast milk and if it can harm your baby. Talk to your healthcare provider about the best way to feed your baby if you use Imiquimod Cream.

Tell your healthcare provider about all the medicines you take, including prescription and nonprescription medicines, vitamins and herbal supplements.

Especially tell your healthcare provider if you have had other treatments for actinic keratosis or genital or perianal warts. Imiquimod Cream should not be used until your skin has healed from other treatments.

How should I use Imiquimod Cream?

Use Imiquimod Cream exactly as your healthcare provider tells you to use it. Imiquimod Cream is for
skin use only.

- Your healthcare provider will tell you where to apply Imiquimod Cream and how often and for how long to apply it for your condition. Do not apply Imiquimod Cream to other areas.
- Do not use more Imiquimod Cream than you need to cover the treatment area. Using too much Imiquimod Cream, or using it too often, or for too long can increase your chances for having a severe skin reaction or other side effects.
- Imiquimod Cream should be applied once a day just before your bedtime.
- Talk to your healthcare provider if you think Imiquimod Cream is not working for you.

**Applying Imiquimod Cream:**

- Wash the area where the cream will be applied with mild soap and water.
- Allow the area to dry.
- Wash your hands.
- Place the amount of cream to be used in your palm.
- Apply a thin layer of Imiquimod Cream only to the affected area or areas to be treated. Do not use more Imiquimod Cream than is needed to cover the treatment area.
- Rub the cream in all the way to the affected area or areas.
- After you apply Imiquimod Cream, wash your hands well.
- Leave the cream on the affected area or areas for the time prescribed by your healthcare provider. Do not bathe or get the treated area wet before the prescribed time has passed.
- Do not leave Imiquimod Cream on your skin longer than prescribed.
- After about 8 hours, wash the treated area or areas with mild soap and water.
- If you forget to apply Imiquimod Cream, just apply the next dose of Imiquimod Cream at your regular time.

**How do I use Imiquimod Cream pump?**

- Remove the cap
- Before using the pump for the first time only, prime the pump by pressing the top of the pump all the way down repeatedly until the cream appears. The cream obtained from priming should be dispensed into a tissue and then discarded. The pump is now primed and is ready to use. You will not have to repeat this priming process during your treatment.
- When dispensing the cream, slightly tilt the pump as shown:

![Image of Imiquimod Cream pump](https://via.placeholder.com/150)

- Firmly press the top of the pump all the way down to dispense the cream onto your hand or fingertip.
When using Imiquimod Cream for actinic keratosis:

- Do not get Imiquimod Cream in or near your eyes, in or on your lips, or in your nose.
- If you get Imiquimod Cream in your mouth or in your eyes, rinse well with water right away.
- For actinic keratosis, Imiquimod Cream should be applied once daily to the skin of the affected area (either entire face or balding scalp) for 2 weeks, then stop using for 2 weeks, then applied once daily again for 2 weeks.
- Do not use more than two actuations of the pump for each daily application.

When using Imiquimod Cream for external genital warts:

- Do not get Imiquimod Cream in or on your anus or vagina.
- Apply a thin layer of Imiquimod Cream only to the affected area or areas to be treated. Do not use more Imiquimod Cream than is needed to cover the treatment area.
- Rub the cream into your skin until you can not see the Imiquimod Cream.
- Imiquimod Cream is usually left on the skin for approximately 8 hours. Treatment should continue until the warts are completely gone or for up to 8 weeks.
- Uncircumcised males treating warts under their penis foreskin must pull their foreskin back and clean before treatment and clean daily during treatment.
- Female patients treating genital warts must be careful when applying Imiquimod Cream around the vaginal opening. Do not put Imiquimod Cream in your vagina.
- Do not use more than one actuation of the pump for each daily application.

What should I avoid while using Imiquimod Cream?

- Do not cover the treated area with bandages or other closed dressings.
- Cotton gauze dressings can be used. Cotton underwear can be worn after applying Imiquimod Cream to the genital or perianal area.
- Do not use sunlamps or tanning beds, and avoid sunlight as much as possible during treatment with Imiquimod Cream. Use sunscreen and wear protective clothing if you go outside during daylight.
- Do not have sexual contact including genital, anal, or oral sex when Imiquimod Cream is on your genital or perianal skin. Imiquimod Cream may weaken condoms and vaginal diaphragms. This means they may not work as well to prevent pregnancy.

What are the possible side effects of Imiquimod Cream?

Imiquimod Cream may cause serious side effects, including:

- Local Skin Reactions: Skin drainage (weeping) or breakdown of the outer layer of your skin (erosion). Swelling outside of the vagina (vulvar swelling) may happen in female patients. You should take special care if applying the cream at the opening of the vagina because local skin reactions on the delicate moist surfaces can cause pain or swelling, and may cause problems passing urine. Tell your healthcare provider if this happens.
- Flu-like symptoms: Tell your healthcare provider if you have tiredness, nausea, vomiting, fever, chills, muscle pain, and joint pain.

The most common side effects of Imiquimod Cream include:

- local skin reactions including skin redness, scabbing, crusting, flaking, scaling, dryness, swelling
• headache
• itching at the treatment area
• tiredness
• nausea
• skin irritation
• pain at the treatment area

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of Imiquimod Cream. For more information, ask your healthcare provider 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 Valeant Pharmaceuticals North America LLC at 1-800-321-4576.

How do I store Imiquimod Cream?

• Store Imiquimod Cream at room temperature 59° to 86°F (15° to 30°C).
• Store Imiquimod Cream pumps upright.
• Do not freeze.
• Safely throw away Imiquimod Cream that is out of date, unused or partially used.

Keep Imiquimod Cream and all medicines out of the reach of children.

General Information about Imiquimod Cream:

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

This patient information leaflet summarizes the most important information about Imiquimod Cream. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Imiquimod Cream that is written for health professionals.

What are the ingredients in Imiquimod Cream?

Active Ingredient: imiquimod

Inactive Ingredients: benzyl alcohol, cetyl alcohol, glycerin, stearic acid, methylparaben, polysorbate 60, propylparaben, purified water, sorbitan monostearate, stearyl alcohol, white petrolatum, and xanthan gum.

This patient information leaflet has been approved by the U.S. Food and Drug Administration.

Manufactured for:
Oceanside Pharmaceuticals, a division of Valeant Pharmaceuticals North America LLC
Bridgewater, NJ 08807 USA

By:
3M Health Care Limited
Loughborough, Leicestershire, LE11 5SF, United Kingdom

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Revised: 05/2018
PRINCIPAL DISPLAY PANEL – Pump Carton 3.75%

Rx only

Imiquimod
Cream
3.75%

PUMP

For Topical Use Only
Not for Ophthalmic, Oral or Intravaginal Use

Store Upright

Delivers no fewer than
28 full actuations

Net Wt. 7.5 g

OCEANSIDE
PHARMACEUTICALS
<table>
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<th>IMIQUIMOD</th>
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### Product Information

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### Active Ingredient/Active Moiety

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### Inactive Ingredients

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### Marketing Information

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**Labeler** - Oceanside Pharmaceuticals (832011691)

### Establishment

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### Establishment

<table>
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<tr>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
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<tbody>
<tr>
<td>Bausch Health Companies, Inc.</td>
<td></td>
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<td>PACK(68682-272)</td>
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