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

Aldara® (imiquimod) Cream, 5%
For topical use only
Initial U.S. Approval: 1997

INDICATIONS AND USAGE
Aldara Cream is indicated for the topical treatment of:

- Clinically typical, nonhyperkeratotic, nonhypertrophic actinic keratoses (AKs) on the face or scalp in immunocompetent adults. (1.1)
- Biopsy-confirmed, primary superficial basal cell carcinoma (sBCC) in immunocompetent adults; maximum tumor diameter of 2.0 cm on trunk, neck, or extremities (excluding hands and feet), only when surgical methods are medically less appropriate and patient follow-up can be reasonably assured. (1.2)
- External genital and perianal warts/condyloma acuminata in patients 12 years or older. (1.3)

Limitations of Use: Efficacy was not demonstrated for molluscum contagiosum in children aged 2–12. (1.4, 8.4)

DOSAGE AND ADMINISTRATION
Aldara Cream is not for oral, opthalmic, or intravaginal use. (2)

- Actinic keratosis (AK): 2 times per week for a full 16 weeks. (2.1)
- Superficial basal cell carcinoma: 5 times per week for a full 6 weeks. (2.2)
- External genital warts (EGW): 3 times per week until total clearance or a maximum of 16 weeks. (2.3)

DOSAGE FORMS AND STRENGTHS

- Aldara (imiquimod) Cream, 5% is supplied in single-use packets (12 per box), each of which contains 250 mg of the cream, equivalent to 12.5 mg of imiquimod. (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.
- Flu-like systemic signs and symptoms including malaise, fever, nausea, myalgias, and rigors may occur. Dosing interruption may be required. (2, 5.2, 6)
- Avoid exposure to sunlight and sunlamps. Wear sunscreen daily. (5.3).
- Safety and efficacy have not been established for repeat courses of treatment to the same area for AK. (5.4)
- Aldara Cream is not recommended for treatment of BCC subtypes other than the superficial variant, i.e., sBCC. (5.5)
- Treatment of urethral, intravaginal, cervical, rectal, or intra-anal viral disease is not recommended. (5.6)
- Safety and efficacy in immunosuppressed patients have not been established. (1.5)

ADVERSE REACTIONS

Most common adverse reactions (incidence >28%) are application site reactions or local skin reactions: itching, burning, erythema, flaking/scaling/dryness, scabbing/crusting, edema, induration, excoriations, erosion, ulceration. Other reported reactions (≥1%) include fatigue, fever, and headache. (6.1, 6.2, 6.3)

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 and FDA-approved patient labeling.
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1 INDICATIONS AND USAGE

1.1 Actinic Keratosis
Aldara Cream is indicated for the topical treatment of clinically typical, nonhyperkeratotic, nonhypertrophic actinic keratoses on the face or scalp in immunocompetent adults.

1.2 Superficial Basal Cell Carcinoma
Aldara Cream is indicated for the topical treatment of biopsy-confirmed, primary superficial basal cell carcinoma (sBCC) in immunocompetent adults, with a maximum tumor diameter of 2.0 cm, located on the trunk (excluding anogenital skin), neck, or extremities (excluding hands and feet), only when surgical methods are medically less appropriate and patient follow-up can be reasonably assured.

The histological diagnosis of superficial basal cell carcinoma should be established prior to treatment, since safety and efficacy of Aldara Cream have not been established for other types of basal cell carcinomas, including nodular and morpheaform (fibrosing or sclerosing) types.

1.3 External Genital Warts
Aldara Cream is indicated for the treatment of external genital and perianal warts/condyloma acuminata in patients 12 years or older.

1.4 Limitations of Use
Aldara 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)].

1.5 Unevaluated Populations
The safety and efficacy of Aldara Cream in immunosuppressed patients have not been established.

Aldara Cream should be used with caution in patients with pre-existing autoimmune conditions.

The efficacy and safety of Aldara Cream have not been established for patients with Basal Cell Nevus Syndrome or Xeroderma Pigmentosum.

2 DOSAGE AND ADMINISTRATION
The application frequency for Aldara Cream is different for each indication.

Aldara is not for oral, ophthalmic, or intravaginal use.

2.1 Actinic Keratosis
Aldara Cream should be applied 2 times per week for a full 16 weeks to a defined treatment area on the face or scalp (but not both concurrently). The treatment area is defined as one contiguous area of approximately 25 cm² (e.g., 5 cm × 5 cm) on the face (e.g., forehead or one cheek) or on the scalp.

Examples of 2 times per week application schedules are Monday and Thursday, or Tuesday and Friday.
Aldara Cream should be applied to the entire treatment area and rubbed in until the cream is no longer visible. No more than one packet of Aldara Cream should be applied to the contiguous treatment area at each application. **Aldara Cream should be applied prior to normal sleeping hours and 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 Aldara Cream therapy.

It is recommended that patients wash their hands before and after applying Aldara Cream. Before applying the cream, the patient should wash the treatment area with mild soap and water and allow the area to dry thoroughly (at least 10 minutes).

Contact with the eyes, lips, and nostrils should be avoided.

Local skin reactions in the treatment area are common [see Adverse Reactions (6.1, 6.5)]. A rest period of several days may be taken if required by the patient's discomfort or severity of the local skin reaction. **However, the treatment period should not be extended beyond 16 weeks due to missed doses or rest periods.** Response to treatment cannot be adequately assessed until resolution of local skin reactions. Lesions that do not respond to treatment should be carefully re-evaluated and management reconsidered.

Aldara Cream is packaged in single-use packets, with 12 packets supplied per box. **Patients should be prescribed no more than 36 packets for the 16-week treatment period.** Unused packets should be discarded. Partially used packets should be discarded and not reused.

### 2.2 Superficial Basal Cell Carcinoma

**Aldara Cream should be applied 5 times per week for a full 6 weeks to a biopsy-confirmed sBCC.** An example of a 5 times per week application schedule is to apply Aldara Cream, once per day, Monday through Friday. **Aldara Cream should be applied prior to normal sleeping hours and 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 Aldara Cream therapy.

It is recommended that patients wash their hands before and after applying Aldara Cream. The patient should wash the treatment area with mild soap and water before applying the cream, and allow the area to dry thoroughly.

The target tumor should have a maximum diameter of 2 cm and be located on the trunk (excluding anogenital skin), neck, or extremities (excluding hands and feet). The treatment area should include a 1 cm margin of skin around the tumor. Sufficient cream should be applied to cover the treatment area, including 1 cm of skin surrounding the tumor. Aldara Cream should be rubbed into the treatment area until the cream is no longer visible.

<table>
<thead>
<tr>
<th>Target Tumor Diameter</th>
<th>Size of Cream Droplet to be Used (diameter)</th>
<th>Approximate Amount of Aldara to be Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 to &lt; 1.0 cm</td>
<td>4 mm</td>
<td>10 mg</td>
</tr>
<tr>
<td>≥ 1.0 to &lt; 1.5 cm</td>
<td>5 mm</td>
<td>25 mg</td>
</tr>
<tr>
<td>≥ 1.5 to 2.0 cm</td>
<td>7 mm</td>
<td>40 mg</td>
</tr>
</tbody>
</table>

Contact with the eyes, lips, and nostrils should be avoided.

Local skin reactions in the treatment area are common [see Adverse Reactions (6.2, 6.5)]. A rest period of several days may be taken if required by the patient's discomfort or severity of the local skin reaction. **Early clinical clearance cannot be adequately assessed until resolution of local skin reactions (e.g., 12 weeks post-treatment).** Local skin reactions or other findings (e.g., infection) may require
that a patient be seen sooner than the post-treatment assessment for clinical clearance. If there is clinical
evidence of persistent tumor at the post-treatment assessment for clinical clearance, a biopsy or other
alternative intervention should be considered. Lesions that do not respond to therapy should be
carefully re-evaluated and management reconsidered; the safety and efficacy of a repeat course of
Aldara Cream treatment have not been established. If any suspicious lesion arises in the treatment area at
any time after a determination of clinical clearance, the patient should seek a medical evaluation [see
Clinical Studies (14.2)].

Aldara Cream is packaged in single-use packets, with 12 packets supplied per box. **Patients should be
prescribed no more than 36 packets for the 6-week treatment period.** Unused packets should be
discarded. Partially used packets should be discarded and not reused.

### 2.3 External Genital Warts

Aldara Cream should be applied 3 times per week to external genital/perianal warts. Aldara Cream
treatment should continue until there is total clearance of the genital/perianal warts or for a maximum of
16 weeks. Examples of 3 times per week application schedules are: Monday, Wednesday, Friday or
Tuesday, Thursday, Saturday. **Aldara Cream should be applied prior to normal sleeping hours and
left on the skin for 6 –10 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 Aldara Cream therapy.

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

A **thin** layer of Aldara Cream should be applied to the wart area and rubbed in until the cream is no
longer visible. The application site should not be occluded. Following the treatment period, the cream
should be removed by washing the treated area with mild soap and water.

Local skin reactions at the treatment site are common [see Adverse Reactions (6.3, 6.5)]. A rest period of
several days may be taken if required by the patient's discomfort or severity of the local skin reaction.
Treatment may resume once the reaction subsides. Non-occlusive dressings such as cotton gauze or
cotton underwear may be used in the management of skin reactions.

Aldara Cream is packaged in single-use packets which contain sufficient cream to cover a wart area of
up to 20 cm²; use of excessive amounts of cream should be avoided.

### 3 DOSAGE FORMS AND STRENGTHS

Aldara (imiquimod) Cream, 5% is supplied in single-use packets each of which contains 250 mg of the
cream, equivalent to 12.5 mg of imiquimod. Aldara Cream is supplied in boxes of 12 packets each.

### 4 CONTRAINDICATIONS

None.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Local Inflammatory Reactions

Intense local inflammatory reactions including skin weeping or erosion can occur after a few
applications of Aldara Cream and may require an interruption of dosing [see Dosage and Administration
(2), Adverse Reactions (6)]. Aldara 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 Aldara Cream is not recommended until the skin is completely healed from any previous drug or surgical treatment.

5.2 Systemic Reactions
Flu-like signs and symptoms may accompany, or even precede, local inflammatory reactions and may include malaise, fever, nausea, myalgias, and rigors. An interruption of dosing should be considered [see Adverse Reactions (6)].

5.3 Ultraviolet Light Exposure
Exposure to sunlight (including sunlamps) should be avoided or minimized during use of Aldara Cream because of concern for heightened sunburn susceptibility. Patients should be warned to use protective clothing (e.g., a hat) when using Aldara Cream. Patients with sunburn should be advised not to use Aldara 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 Aldara Cream.

Aldara Cream shortened the time to skin tumor formation in an animal photocarcinogenicity study [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 Unevaluated Uses: Actinic Keratosis
Safety and efficacy have not been established for Aldara Cream in the treatment of actinic keratosis with repeated use, i.e., more than one treatment course in the same area.

The safety of Aldara Cream applied to areas of skin greater than 25 cm\(^2\) (e.g., 5 cm × 5 cm) for the treatment of actinic keratosis has not been established [see Clinical Pharmacology (12.3)].

5.5 Unevaluated Uses: Superficial Basal Cell Carcinoma
The safety and efficacy of Aldara Cream have not been established for other types of basal cell carcinomas (BCC), including nodular and morpheaform (fibrosing or sclerosing) types. Aldara Cream is not recommended for treatment of BCC subtypes other than the superficial variant (i.e., sBCC). Patients with sBCC treated with Aldara Cream should have regular follow-up of the treatment site [see Clinical Studies (14.2)].

The safety and efficacy of treating sBCC lesions on the face, head, and anogenital area have not been established.

5.6 Unevaluated Uses: External Genital Warts
Aldara Cream has not been evaluated for the treatment of urethral, intravaginal, cervical, rectal, or intra-anal human papilloma viral disease.

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 Aldara Cream or vehicle in 436 subjects enrolled in two double-blind, vehicle-controlled studies. Subjects applied Aldara Cream or vehicle to a 25 cm\(^2\) contiguous treatment area on the face or scalp 2 times per week for 16 weeks.
Table 2: Selected Adverse Reactions Occurring in >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Actinic Keratosis)

<table>
<thead>
<tr>
<th>Preferred Term</th>
<th>Aldara Cream (n=215)</th>
<th>Vehicle (n=221)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Site Reaction</td>
<td>71 (33%)</td>
<td>32 (14%)</td>
</tr>
<tr>
<td>Upper Resp Tract Infection</td>
<td>33 (15%)</td>
<td>27 (12%)</td>
</tr>
<tr>
<td>Sinusitis</td>
<td>16 (7%)</td>
<td>14 (6%)</td>
</tr>
<tr>
<td>Headache</td>
<td>11 (5%)</td>
<td>7 (3%)</td>
</tr>
<tr>
<td>Carcinoma Squamous</td>
<td>8 (4%)</td>
<td>5 (2%)</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>6 (3%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Eczema</td>
<td>4 (2%)</td>
<td>3 (1%)</td>
</tr>
<tr>
<td>Back Pain</td>
<td>3 (1%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Fatigue</td>
<td>3 (1%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Fibrillation Atrial</td>
<td>3 (1%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Infection Viral</td>
<td>3 (1%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Dizziness</td>
<td>3 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Vomiting</td>
<td>3 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Urinary Tract Infection</td>
<td>3 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Fever</td>
<td>3 (1%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Rigors</td>
<td>3 (1%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Alopecia</td>
<td>3 (1%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

Table 3: Application Site Reactions Reported by >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Actinic Keratosis)

<table>
<thead>
<tr>
<th>Included Term</th>
<th>Aldara Cream (n=215)</th>
<th>Vehicle (n=221)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Itching</td>
<td>44 (20%)</td>
<td>17 (8%)</td>
</tr>
<tr>
<td>Burning</td>
<td>13 (6%)</td>
<td>4 (2%)</td>
</tr>
<tr>
<td>Bleeding</td>
<td>7 (3%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Stinging</td>
<td>6 (3%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Pain</td>
<td>6 (3%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Induration</td>
<td>5 (2%)</td>
<td>3 (1%)</td>
</tr>
<tr>
<td>Tenderness</td>
<td>4 (2%)</td>
<td>3 (1%)</td>
</tr>
<tr>
<td>Irritation</td>
<td>4 (2%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

Local skin reactions were collected independently of the adverse reaction "application site reaction" in an effort to provide a better picture of the specific types of local reactions that might be seen. The most frequently reported local skin reactions were erythema, flaking/scaling/dryness, and scabbing/crusting. The prevalence and severity of local skin reactions that occurred during controlled studies are shown in the following table.

Table 4: Local Skin Reactions in the Treatment Area as Assessed by the Investigator (Actinic Keratosis)

<table>
<thead>
<tr>
<th></th>
<th>Aldara Cream (n=215)</th>
<th>Vehicle (n=220)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erythema</td>
<td>209 (97%)</td>
<td>206 (93%)</td>
</tr>
<tr>
<td>Flaking/Scaling/Dryness</td>
<td>199 (93%)</td>
<td>199 (91%)</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>Erythema</td>
<td>209 (97%)</td>
<td>206 (93%)</td>
</tr>
<tr>
<td>Flaking/Scaling/Dryness</td>
<td>199 (93%)</td>
<td>199 (91%)</td>
</tr>
</tbody>
</table>
The adverse reactions that most frequently resulted in clinical intervention (e.g., rest periods, withdrawal from study) were local skin and application site reactions. Overall, in the clinical studies, 2% (5/215) of subjects discontinued for local skin/application site reactions. Of the 215 subjects treated, 35 subjects (16%) on Aldara Cream and 3 of 220 subjects (1%) on vehicle cream had at least one rest period. Of these Aldara Cream subjects, 32 (91%) resumed therapy after a rest period.

In the AK studies, 22 of 678 (3.2%) of Aldara-treated subjects developed treatment site infections that required a rest period off Aldara Cream and were treated with antibiotics (19 with oral and 3 with topical).

Of the 206 Aldara subjects with both baseline and 8-week post-treatment scarring assessments, 6 (2.9%) had a greater degree of scarring scores at 8 weeks post-treatment than at baseline.

### 6.2 Clinical Trials Experience: Superficial Basal Cell Carcinoma

The data described below reflect exposure to Aldara Cream or vehicle in 364 subjects enrolled in two double-blind, vehicle-controlled studies. Subjects applied Aldara Cream or vehicle 5 times per week for 6 weeks. The incidence of adverse reactions reported by >1% of subjects during the studies is summarized below.

#### Table 5: Selected Adverse Reactions Reported by >1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Superficial Basal Cell Carcinoma)

<table>
<thead>
<tr>
<th>Preferred Term</th>
<th>Aldara Cream (n=185)</th>
<th>Vehicle (n=179)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Site Reaction</td>
<td>52 (28%)</td>
<td>5 (3%)</td>
</tr>
<tr>
<td>Headache</td>
<td>14 (8%)</td>
<td>4 (2%)</td>
</tr>
<tr>
<td>Back Pain</td>
<td>7 (4%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Upper Resp Tract Infection</td>
<td>6 (3%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Rhinitis</td>
<td>5 (3%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Lymphadenopathy</td>
<td>5 (3%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Fatigue</td>
<td>4 (2%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Sinusitis</td>
<td>4 (2%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Dyspepsia</td>
<td>3 (2%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Coughing</td>
<td>3 (2%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Fever</td>
<td>3 (2%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Dizziness</td>
<td>2 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Anxiety</td>
<td>2 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Pharyngitis</td>
<td>2 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
<tr>
<td>Chest Pain</td>
<td>2 (1%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Nausea</td>
<td>2 (1%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

The most frequently reported adverse reactions were local skin and application site reactions including erythema, edema, induration, erosion, flaking/scaling, scabbing/crusting, itching and burning at the
application site. The incidence of application site reactions reported by > 1% of the subjects during the 6 week treatment period is summarized in Table 6.

Table 6: Application Site Reactions Reported by > 1% of Aldara-Treated Subjects and at a Greater Frequency than with Vehicle in the Combined Studies (Superficial Basal Cell Carcinoma)

<table>
<thead>
<tr>
<th>Included Term</th>
<th>Aldara Cream (n=185)</th>
<th>Vehicle (n=179)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Itching</td>
<td>30 (16%)</td>
<td>1 (1%)</td>
</tr>
<tr>
<td>Burning</td>
<td>11 (6%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Pain</td>
<td>6 (3%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Bleeding</td>
<td>4 (2%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Erythema</td>
<td>3 (2%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Papule(s)</td>
<td>3 (2%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Tenderness</td>
<td>2 (1%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Infection</td>
<td>2 (1%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

Local skin reactions were collected independently of the adverse reaction "application site reaction" in an effort to provide a better picture of the specific types of local reactions that might be seen. The prevalence and severity of local skin reactions that occurred during controlled studies are shown in the following table.

Table 7: Local Skin Reactions in the Treatment Area as Assessed by the Investigator (Superficial Basal Cell Carcinoma)

<table>
<thead>
<tr>
<th></th>
<th>Aldara Cream (n=184)</th>
<th>Vehicle (n=178)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Grades*</td>
<td>Severe</td>
</tr>
<tr>
<td>Erythema</td>
<td>184 (100%)</td>
<td>57 (31%)</td>
</tr>
<tr>
<td>Flaking/Scaling</td>
<td>167 (91%)</td>
<td>7 (4%)</td>
</tr>
<tr>
<td>Induration</td>
<td>154 (84%)</td>
<td>11 (6%)</td>
</tr>
<tr>
<td>Scabbing/Crusting</td>
<td>152 (83%)</td>
<td>35 (19%)</td>
</tr>
<tr>
<td>Edema</td>
<td>143 (78%)</td>
<td>13 (7%)</td>
</tr>
<tr>
<td>Erosion</td>
<td>122 (66%)</td>
<td>23 (13%)</td>
</tr>
<tr>
<td>Ulceration</td>
<td>73 (40%)</td>
<td>11 (6%)</td>
</tr>
<tr>
<td>Vesicles</td>
<td>57 (31%)</td>
<td>3 (2%)</td>
</tr>
</tbody>
</table>

* Mild, Moderate, or Severe

The adverse reactions that most frequently resulted in clinical intervention (e.g., rest periods, withdrawal from study) were local skin and application site reactions; 10% (19/185) of subjects received rest periods. The average number of doses not received per subject due to rest periods was 7 doses with a range of 2 to 22 doses; 79% of subjects (15/19) resumed therapy after a rest period. Overall, in the clinical studies, 2% (4/185) of subjects discontinued for local skin/application site reactions.

In the sBCC studies, 17 of 1266 (1.3%) Aldara-treated subjects developed treatment site infections that required a rest period and treatment with antibiotics.

6.3 Clinical Trials Experience: External Genital Warts

In controlled clinical trials for genital warts, the most frequently reported adverse reactions were local skin and application site reactions.

Some subjects also reported systemic reactions. Overall, 1.2% (4/327) of the subjects discontinued due
to local skin/application site reactions. The incidence and severity of local skin reactions during controlled clinical trials are shown in Table 8.

### Table 8: Local Skin Reactions in the Treatment Area as Assessed by the Investigator (External Genital Warts)

<table>
<thead>
<tr>
<th></th>
<th>Aldara Cream (n=114)</th>
<th>Vehicle (n=103)</th>
<th>Aldara Cream (n=156)</th>
<th>Vehicle (n=158)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Grades*</td>
<td>Severe</td>
<td>All Grades*</td>
<td>Severe</td>
</tr>
<tr>
<td>Erythema</td>
<td>74 (65%)</td>
<td>4 (4%)</td>
<td>90 (58%)</td>
<td>6 (4%)</td>
</tr>
<tr>
<td>Erosion</td>
<td>35 (31%)</td>
<td>1 (1%)</td>
<td>47 (30%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Excoriation/Flaking</td>
<td>21 (18%)</td>
<td>0 (0%)</td>
<td>40 (26%)</td>
<td>1 (1%)</td>
</tr>
<tr>
<td>Edema</td>
<td>20 (18%)</td>
<td>1 (1%)</td>
<td>19 (12%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Scabbing</td>
<td>4 (4%)</td>
<td>0 (0%)</td>
<td>20 (13%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Induration</td>
<td>6 (5%)</td>
<td>0 (0%)</td>
<td>11 (7%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Ulceration</td>
<td>9 (8%)</td>
<td>3 (3%)</td>
<td>7 (4%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td>Vesicles</td>
<td>3 (3%)</td>
<td>0 (0%)</td>
<td>3 (2%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

* Mild, Moderate, or Severe

Remote site skin reactions were also reported. The severe remote site skin reactions reported for females were erythema (3%), ulceration (2%), and edema (1%); and for males, erosion (2%), and erythema, edema, induration, and excoriation/flaking (each 1%).

Selected adverse reactions judged to be probably or possibly related to Aldara Cream are listed below.

### Table 9: Selected Treatment Related Reactions (External Genital Warts)

<table>
<thead>
<tr>
<th></th>
<th>Females</th>
<th>Males</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aldara Cream (n=117)</td>
<td>Vehicle (n=103)</td>
</tr>
<tr>
<td><strong>Application Site Disorders:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Application Site Reactions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wart Site:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Itching</td>
<td>38 (32%)</td>
<td>21 (20%)</td>
</tr>
<tr>
<td>Burning</td>
<td>30 (26%)</td>
<td>12 (12%)</td>
</tr>
<tr>
<td>Pain</td>
<td>9 (8%)</td>
<td>2 (2%)</td>
</tr>
<tr>
<td>Soreness</td>
<td>3 (3%)</td>
<td>0 (0%)</td>
</tr>
<tr>
<td><strong>Fungal Infection</strong>*</td>
<td>13 (11%)</td>
<td>3 (3%)</td>
</tr>
<tr>
<td><strong>Systemic Reactions:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headache</td>
<td>5 (4%)</td>
<td>3 (3%)</td>
</tr>
<tr>
<td>Influenza-like symptoms</td>
<td>4 (3%)</td>
<td>2 (2%)</td>
</tr>
<tr>
<td>Myalgia</td>
<td>1 (1%)</td>
<td>0 (0%)</td>
</tr>
</tbody>
</table>

* Incidences reported without regard to causality with Aldara Cream.

Adverse reactions judged to be possibly or probably related to Aldara Cream and reported by more than 1% of subjects included:

**Application Site Disorders:** burning, hypopigmentation, irritation, itching, pain, rash, sensitivity, soreness, stinging, tenderness
Remote Site Reactions: bleeding, burning, itching, pain, tenderness, tinea cruris  

Body as a Whole: fatigue, fever, influenza-like symptoms  

Central and Peripheral Nervous System Disorders: headache  

Gastrointestinal System Disorders: diarrhea  

Musculoskeletal System Disorders: myalgia  

6.4 Clinical Trials Experience: Dermal Safety Studies  

Provocative repeat insult patch test studies involving induction and challenge phases produced no evidence that Aldara Cream causes photoallergenicity or contact sensitization in healthy skin; however, cumulative irritancy testing revealed the potential for Aldara Cream to cause irritation, and application site reactions were reported in the clinical studies [see Adverse Reactions (6)].  

6.5 Postmarketing Experience  

The following adverse reactions have been identified during post-approval use of Aldara Cream. 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, 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, dysuria, urinary retention  

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

Vascular: Henoch-Schönlein purpura syndrome  

8 USE IN SPECIFIC POPULATIONS  

8.1 Pregnancy  

Pregnancy Category C:  

NOTE: The Maximum Recommended Human Dose (MRHD) was set at 2 packets per treatment of Aldara Cream (25 mg imiquimod) for the animal multiple of human exposure ratios presented in this label. If higher doses than 2 packets of Aldara Cream are used clinically, then the animal multiple of human
exposure would be reduced for that dose. A non-proportional increase in systemic exposure with increased dose of Aldara Cream was noted in the clinical pharmacokinetic study conducted in actinic keratosis subjects [see Clinical Pharmacology (12.3)]. The AUC after topical application of 6 packets of Aldara Cream was 8-fold greater than the AUC after topical application of 2 packets of Aldara Cream in actinic keratosis subjects. Therefore, if a dose of 6 packets per treatment of Aldara Cream was topically administered to an individual, then the animal multiple of human exposure would be either 1/3 of the value provided in the label (based on body surface area comparisons) or 1/8 of the value provided in the label (based on AUC comparisons). The animal multiples of human exposure calculations were based on weekly dose comparisons for the carcinogenicity studies described in this label. The animal multiples of human exposure calculations were based on daily dose comparisons for the reproductive toxicology studies described in this label.

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 (577X 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 (98X 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 (1.5X MRHD based on BSA comparisons), the highest dose evaluated in this study, or 1 mg/kg/day (407X MRHD based on AUC comparisons).

A combined fertility, perinatal, 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 (87X 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 (87X MRHD based on AUC comparisons). This fetal effect was also noted in the oral rat embryofetal development study conducted with imiquimod. No treatment-related effects on teratogenicity were noted at 3 mg/kg/day (41X MRHD based on AUC comparisons).

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

8.3 Nursing Mothers

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

8.4 Pediatric Use

AK and sBCC are not conditions generally seen within the pediatric population. The safety and efficacy of Aldara Cream for AK or sBCC in patients less than 18 years of age have not been established.

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

Aldara Cream was evaluated in two randomized, vehicle-controlled, double-blind trials involving 702 pediatric subjects with molluscum contagiosum (MC) (470 exposed to Aldara; median age 5 years, range 2–12 years). Subjects applied Aldara 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 Aldara Cream group compared with 26% (28/106) in the vehicle group. In Study 2, the clearance rates were 24% (60/253) in the Aldara 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 2 studies in children with molluscum contagiosum was application site reaction. Adverse events which occurred more frequently in Aldara-treated subjects compared with vehicle-treated subjects generally resembled those seen in studies in indications approved for adults and also included otitis media (5% Aldara vs. 3% vehicle) and conjunctivitis (3% Aldara vs. 2% vehicle).

Erythema was the most frequently reported local skin reaction. Severe local skin reactions reported by Aldara-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 3 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 (1 packet) or 25 mg (2 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 (3 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 $1.4\times10^9$/L and the median absolute neutrophil count decreased by $1.42\times10^9$/L.

8.5 Geriatric Use

Of the 215 subjects treated with Aldara Cream in the AK clinical studies, 127 subjects (59%) were 65 years and older, while 60 subjects (28%) were 75 years and older. Of the 185 subjects treated with Aldara Cream in the sBCC clinical studies, 65 subjects (35%) were 65 years and older, while 25 subjects (14%) were 75 years and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects. No other clinical experience has identified differences in responses between the elderly and younger subjects, but greater sensitivity of some older individuals cannot be ruled out.

10 OVERDOSAGE

Topical overdosing of Aldara Cream could result in an increased incidence of severe local skin reactions and may increase the risk for systemic reactions.

The most clinically serious adverse event reported following multiple oral imiquimod doses of >200 mg (equivalent to imiquimod content of >16 packets) was hypotension, which resolved following oral or intravenous fluid administration.

11 DESCRIPTION

Aldara (imiquimod) Cream 5% is an immune response modifier for topical administration. Each gram contains 50 mg of imiquimod in an off-white oil-in-water vanishing 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 1-(2-methylpropyl)-1H-imidazo[4,5-c]quinolin-4-amine. Imiquimod has a molecular formula of $C_{14}H_{16}N_4$ and a molecular weight of 240.3. Its structural formula is:
12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of Aldara Cream in treating AK and sBCC lesions is unknown.

12.2 Pharmacodynamics

Actinic Keratosis

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

Superficial Basal Cell Carcinoma

An open-label study in 6 subjects with sBCC suggests that treatment with Aldara Cream may increase the infiltration of lymphocytes, dendritic cells, and macrophages into the tumor lesion; however, the clinical significance of these findings is unknown.

External Genital Warts

Imiquimod has no direct antiviral activity in cell culture. A study in 22 subjects with genital/perianal warts comparing Aldara Cream and vehicle shows that Aldara Cream induces mRNA encoding cytokines including interferon-α at the treatment site. In addition, HPVL1 mRNA and HPV DNA are significantly decreased following treatment. However, the clinical relevance of these findings is unknown.

12.3 Pharmacokinetics

Systemic absorption of imiquimod across the affected skin of 58 subjects with AK was observed with a dosing frequency of 3 applications per week for 16 weeks. Mean peak serum drug concentrations at the end of Week 16 were approximately 0.1, 0.2, and 3.5 ng/mL for the applications to face (12.5 mg imiquimod, 1 single-use packet), scalp (25 mg, 2 packets), and hands/arms (75 mg, 6 packets), respectively.

<table>
<thead>
<tr>
<th>Amount of Aldara Cream Applied</th>
<th>Mean Peak Serum Imiquimod Concentration [$C_{\text{max}}$]</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5 mg (1 packet)</td>
<td>0.1 ng/mL</td>
</tr>
<tr>
<td>25 mg (2 packets)</td>
<td>0.2 ng/mL</td>
</tr>
<tr>
<td>75 mg (6 packets)</td>
<td>3.5 ng/mL</td>
</tr>
</tbody>
</table>

The application surface area was not controlled when more than one packet was used. Dose proportionality was not observed. However, it appears that systemic exposure may be more dependent...

on surface area of application than amount of applied dose. The apparent half-life was approximately 10
times greater with topical dosing than the 2-hour apparent half-life seen following subcutaneous
dosing, suggesting prolonged retention of drug in the skin. Mean urinary recoveries of imiquimod and
metabolites combined were 0.08% and 0.15% of the applied dose in the group using 75 mg (6 packets)
for males and females, respectively following 3 applications per week for 16 weeks.

Systemic absorption of imiquimod was observed across the affected skin of 12 subjects with
genital/perianal warts, with an average dose of 4.6 mg. Mean peak drug concentration of approximately
0.4 ng/mL was seen during the study. Mean urinary recoveries of imiquimod and metabolites combined
over the whole course of treatment, expressed as percent of the estimated applied dose, were 0.11%
and 2.41% in the males and females, respectively.

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 (87X MRHD based on weekly AUC comparisons), 4 mg/kg
administered 2X/week in male rats (75X MRHD based on weekly AUC comparisons), or 3 mg/kg
administered 7X/week to male and female rats (153X 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 (251X 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.
The quantitative composition of the vehicle cream used in the dermal mouse carcinogenicity study is the
same as the vehicle cream used for Aldara Cream, minus the active moiety (imiquimod).

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 the
Aldara Cream 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 87X MRHD based on AUC
comparisons.

14 CLINICAL STUDIES

14.1 Actinic Keratosis

In two double-blind, vehicle-controlled clinical studies, 436 subjects with AK were randomized to
treatment with either Aldara Cream or vehicle cream 2 times per week for 16 weeks. The studies
enrolled subjects with 4 to 8 clinically typical, visible, discrete, nonhyperkeratotic, nonhypertrophic
AK lesions within a 25 cm² contiguous treatment area on either the face or scalp. The 25 cm²
contiguous treatment area could be of any dimensions (e.g., 5 cm × 5 cm, 3 cm by 8.3 cm, 2 cm by 12.5
Study subjects ranged from 37 to 88 years of age (median 66 years) and 55% had Fitzpatrick skin type I or II. All Aldara-treated subjects were Caucasians.

On a scheduled dosing day, the study cream was applied to the entire treatment area prior to normal sleeping hours and left on for approximately 8 hours. Twice-weekly dosing was continued for a total of 16 weeks. The clinical response of each subject was evaluated 8 weeks after the last scheduled application of study cream. Efficacy was assessed by the complete clearance rate, defined as the proportion of subjects at the 8-week post-treatment visit with no (zero) clinically visible AK lesions in the treatment area. Complete clearance included clearance of all baseline lesions, as well as any new or subclinical AK lesions which appeared during therapy.

Complete and partial clearance rates are shown in the table below. The partial clearance rate was defined as the percentage of subjects in whom 75% or more baseline AK lesions were cleared.

<table>
<thead>
<tr>
<th>Study</th>
<th>Complete Clearance Rates (100% AK Lesions Cleared)</th>
<th>Partial and Complete Clearance Rates (75% or More Baseline AK Lesions Cleared)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aldara Cream</td>
<td>Vehicle</td>
</tr>
<tr>
<td>Study AK1</td>
<td>46% (49/107)</td>
<td>3% (3/110)</td>
</tr>
<tr>
<td>Study AK2</td>
<td>44% (48/108)</td>
<td>4% (4/111)</td>
</tr>
<tr>
<td>Study AK1</td>
<td>60% (64/107)</td>
<td>10% (11/110)</td>
</tr>
<tr>
<td>Study AK2</td>
<td>58% (63/108)</td>
<td>14% (15/111)</td>
</tr>
</tbody>
</table>

Sub-clinical AK lesions may become apparent in the treatment area during treatment with Aldara Cream. During the course of treatment, 48% (103/215) of subjects experienced an increase in AK lesions relative to the number present at baseline within the treatment area. Subjects with an increase in AK lesions had a similar response to those with no increase in AK lesions.

### 14.2 Superficial Basal Cell Carcinoma

In two double-blind, vehicle-controlled clinical studies, 364 subjects with primary sBCC were treated with Aldara Cream or vehicle cream 5 times per week for 6 weeks. Target tumors were biopsy-confirmed sBCC and had a minimum area of 0.5 cm$^2$ and a maximum diameter of 2.0 cm (4.0 cm$^2$). Target tumors were not to be located within 1.0 cm of the hairline, or on the anogenital area or on the hands or feet, or to have any atypical features. The population ranged from 31–89 years of age (median 60 years) and 65% had Fitzpatrick skin type I or II. On a scheduled dosing day, study cream was applied to the target tumor and approximately 1 cm (about 1/3 inch) beyond the target tumor prior to normal sleeping hours, and 5 times per week dosing was continued for a total of 6 weeks. The target tumor area was clinically assessed 12 weeks after the last scheduled application of study cream. The entire target tumor was then excised and examined histologically for the presence of tumor.

Efficacy was assessed by the complete response rate defined as the proportion of subjects with clinical (visual) and histological clearance of the sBCC lesion at 12 weeks post-treatment. Of Aldara-treated subjects, 6% (11/178) who had both clinical and histological assessments post-treatment, and who appeared to be clinically clear had evidence of tumor on excision of the clinically clear treatment area. Data on composite clearance (defined as both clinical and histological clearance) are shown in the following table.

<table>
<thead>
<tr>
<th>Study</th>
<th>Aldara Cream</th>
<th>Vehicle Cream</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 12: Composite Clearance Rates at 12 Weeks Post-Treatment for Superficial Basal Cell Carcinoma
A separate 5-year, open-label study was conducted to assess the recurrence of sBCC treated with Aldara Cream applied once daily 5 days per week for 6 weeks. Target tumor inclusion criteria were the same as for the studies described above. At 12-weeks post-treatment, subjects were clinically evaluated for evidence of persistent sBCC (no histological assessment). Subjects with no clinical evidence of sBCC entered the long-term follow-up period. At the 12-week post-treatment assessment, 90% (163/182) of the subjects enrolled had no clinical evidence of sBCC at their target site and 162 subjects entered the long-term follow-up period for up to 5 years. Two-year (24-month) follow-up data are available from this study and are presented in the table below.

**Table 13: Estimated Clinical Clearance Rates for Superficial Basal Cell Carcinoma Follow-up Period**

<table>
<thead>
<tr>
<th>Follow-up visit after 12-week post-treatment assessment</th>
<th>No. of Subjects who remained clinically clear</th>
<th>No. of Subjects with sBCC recurrence</th>
<th>No. of Subjects who discontinued at this visit with no sBCC</th>
<th>Estimated Rate of Subjects who Clinically Cleared and remained Clear f</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month 3</td>
<td>153</td>
<td>4</td>
<td>5</td>
<td>87%</td>
</tr>
<tr>
<td>Month 6</td>
<td>149</td>
<td>4</td>
<td>0</td>
<td>85%</td>
</tr>
<tr>
<td>Month 12</td>
<td>143</td>
<td>2</td>
<td>4</td>
<td>84%</td>
</tr>
<tr>
<td>Month 24</td>
<td>139</td>
<td>4</td>
<td>0</td>
<td>79%</td>
</tr>
</tbody>
</table>

* Reasons for discontinuation included death, noncompliance, entry criteria violations, personal reasons, and treatment of nearby sBCC tumor.
† Estimated rate of subjects who clinically cleared and remained clear are estimated based on the time to event analysis employing the life table method beginning with the rate of clinical clearance at 12 weeks post-treatment.

**14.3 External Genital Warts**

In a double-blind, placebo-controlled clinical study, 209 otherwise healthy subjects 18 years and older with genital/perianal warts were treated with Aldara Cream or vehicle control 3 times per week for a maximum of 16 weeks. The median baseline wart area was 69 mm² (range 8 to 5525 mm²). Subject accountability is shown in the figure below.

**Figure 1: Subject Accountability (External Genital Warts)**
The other subjects were either lost to follow-up or experienced recurrences.

Data on complete clearance are listed in Table 14. The median time to complete wart clearance was 10 weeks.

Table 14: Complete Clearance Rates (External Genital Warts) - Study EGW1

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Subjects with Complete Clearance of Warts</th>
<th>Subjects Without Follow-up</th>
<th>Subjects with Warts Remaining at Week 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aldara Cream (n=109)</td>
<td>54 (50%)</td>
<td>19 (17%)</td>
<td>36 (33%)</td>
</tr>
<tr>
<td>Vehicle (n=100)</td>
<td>11 (11%)</td>
<td>27 (27%)</td>
<td>62 (62%)</td>
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<tr>
<td>Females</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aldara Cream (n=46)</td>
<td>33 (72%)</td>
<td>5 (11%)</td>
<td>8 (17%)</td>
</tr>
<tr>
<td>Vehicle (n=40)</td>
<td>8 (20%)</td>
<td>13 (33%)</td>
<td>19 (48%)</td>
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<tr>
<td>Males</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Aldara Cream (n=63)</td>
<td>21 (33%)</td>
<td>14 (22%)</td>
<td>28 (44%)</td>
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<tr>
<td>Vehicle (n=60)</td>
<td>3 (5%)</td>
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<td>43 (72%)</td>
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</table>

16 HOW SUPPLIED/STORAGE AND HANDLING

Aldara (imiquimod) Cream, 5% is supplied in single-use packets which contain 250 mg of the cream. Available as: box of 12 packets NDC 99207-260-12. Store at 4° to 25°C (39° to 77°F).

Avoid freezing.

Keep out of reach of children.
17 PATIENT COUNSELING INFORMATION

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

General Information: All Indications
Aldara Cream should be used as directed by a physician [see Dosage and Administration (2)]. Aldara Cream is for external use only. Contact with the eyes, lips, and nostrils should be avoided [see Indications and Usage (1) and Dosage and Administration (2)]. The treatment area should not be bandaged or otherwise occluded. Partially used packets should be discarded and not reused. The prescriber should demonstrate the proper application technique to maximize the benefit of Aldara Cream therapy.

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

Local Skin Reactions: All Indications

Patients may experience local skin reactions during treatment with Aldara Cream (even with normal dosing). Potential local skin reactions include erythema, edema, vesicles, 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 and/or burning [see Adverse Reactions (6)].

Local skin reactions may be of such intensity that patients may require rest periods from treatment. Treatment with Aldara Cream can be resumed after the skin reaction has subsided, as determined by the physician. 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 Aldara Cream. These skin color changes may be permanent in some patients.

Systemic Reactions: All Indications

Patients may experience flu-like systemic signs and symptoms during treatment with Aldara Cream (even with normal dosing). Systemic signs and symptoms may include malaise, fever, nausea, myalgias, and rigors [see Adverse Reactions (6)]. An interruption of dosing should be considered.

Patients Being Treated for Actinic Keratosis (AK)

Dosing is 2 times per week for a full 16 weeks, unless otherwise directed by the physician. However, the treatment period should not be extended beyond 16 weeks due to missed doses or rest periods [see Dosage and Administration (2.1)].

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

Most patients using Aldara 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 Aldara Cream [see Warnings and Precautions (5.3)].

Subclinical AK lesions may become apparent in the treatment area during treatment and may subsequently resolve [see Clinical Studies (14.1)].

Patients Being Treated for Superficial Basal Cell Carcinoma (sBCC)

Dosing is 5 times per week for a full 6 weeks, unless otherwise directed by the physician. However, the treatment period should not be extended beyond 6 weeks due to missed doses or rest periods [see
Dosage and Administration (2.2).

It is recommended that the treatment area be washed with mild soap and water 8 hours following Aldara Cream application [see Dosage and Administration (2.2)].

Most patients using Aldara Cream for the treatment of sBCC experience erythema, edema, induration, erosion, scabbing/crusting, and flaking/scaling at the application site with normal dosing [see Adverse Reactions (6.2)].

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 Aldara Cream [see Warnings and Precautions (5.3)].

The clinical outcome of therapy can be determined after resolution of application site reactions and/or local skin reactions.

Patients with sBCC treated with Aldara Cream should have regular follow-up to re-evaluate the treatment site [see Clinical Studies (14.2)].

Patients Being Treated for External Genital Warts

Dosing is 3 times per week to external genital/perianal warts. Aldara Cream treatment should continue until there is total clearance of the genital/perianal warts or for a maximum of 16 weeks.

It is recommended that the treatment area be washed with mild soap and water 6–10 hours following Aldara Cream application.

It is common for patients to experience local skin reactions such as erythema, erosion, excoriation/flaking, and edema at the site of application or surrounding areas. Most skin reactions are mild to moderate.

Sexual (genital, anal, oral) contact should be avoided while Aldara Cream is on the skin. Application of Aldara 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 severe swelling, and may cause difficulty in passing urine or inability to urinate.

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

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

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

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

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

Manufactured for:

Valeant Pharmaceuticals North America LLC
Bridgewater, NJ 08807 USA

By:
3M Health Care Limited
Loughborough LE11 1EP, United Kingdom

U.S. Patent Number 7,696,159

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Patient Information

ALDARA®

[al dar’ a]

(imiquimod) Cream, 5%

IMPORTANT: Not for mouth, eye, or vaginal use

Read the Patient Information that comes with Aldara 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 Aldara Cream, talk with your healthcare provider or pharmacist.

What is Aldara Cream?

Aldara Cream is a skin use only (topical) medicine used to treat:

- external genital and perianal warts in people 12 years and older.
- actinic keratosis in adults with normal immune systems. Actinic keratosis is caused by too much sun exposure.
- superficial basal cell carcinoma in adults with normal immune systems when surgical methods are less appropriate.

This skin cancer needs to be diagnosed by your healthcare provider.

Aldara Cream is used in different ways for the three different skin conditions it is used to treat. It is very important that you follow the instructions for your skin condition. Talk to your healthcare provider if you have questions.

Aldara Cream does not work for everyone. Aldara Cream will not cure your genital or perianal warts. New warts may develop during treatment with Aldara Cream. It is not known if Aldara Cream can stop you from spreading genital or perianal warts to other people. For your own health and the health of others, it is important to practice safer sex. Talk to your healthcare provider about safer sex practices.

Who should not use Aldara Cream?

- Aldara Cream has not been studied in children under 12 years old for external genital and perianal warts.
- Aldara Cream has not been studied in children under 18 years old for actinic keratosis or superficial basal cell carcinoma. Children usually do not get actinic keratosis or basal cell carcinoma.

Before using Aldara Cream, tell your healthcare provider:

- about all your medical conditions, including if you
  - are pregnant or planning to become pregnant. It is not known if Aldara Cream can harm your unborn baby.
  - are breastfeeding. It is not known if Aldara Cream passes into your milk and if it can harm your baby.
How should I use Aldara Cream?

- Use Aldara Cream exactly as prescribed by your healthcare provider. **Aldara Cream is for skin use only. Do not take by mouth or use in or near your eyes, lips, or nostrils.** Do not use Aldara Cream unless your healthcare provider has taught you the right way to use it. Talk to your healthcare provider if you have any questions.
- Aldara Cream is used for several skin conditions. **Use Aldara Cream only on the area of your body to be treated.** Your healthcare provider will tell you where to apply Aldara Cream and how often and for how long to apply it for your condition. Do not use Aldara Cream longer than prescribed. Using too much Aldara Cream, or using it too often, or for too long can increase your chances for having a severe skin reaction or other side effect. Talk to your healthcare provider if Aldara Cream does not work for you.

For external genital and perianal warts, Aldara Cream is usually used once a day for 3 days a week:

- Monday, Wednesday and Friday, or
- Tuesday, Thursday and Saturday

For these conditions, Aldara Cream is usually left on the skin for 6 to 10 hours. Treatment should continue until the warts are completely gone, or up to 16 weeks.

For actinic keratosis, Aldara Cream is usually used once a day for 2 days a week, 3 to 4 days apart, such as:

- Monday and Thursday, or
- Tuesday and Friday

For this condition, Aldara Cream is usually left on the skin for about 8 hours. Treatment should continue for the full 16 weeks even if all actinic keratoses appear to be gone, unless you are told otherwise by your healthcare provider. The area you treat with Aldara Cream should be no larger than approximately the size of your forehead or one cheek (for example, 2 inches by 2 inches), unless otherwise directed by your healthcare provider.

For superficial basal cell carcinoma, Aldara Cream is usually used once a day for 5 days a week:

- Monday, Tuesday, Wednesday, Thursday, and Friday

For this condition, Aldara Cream is usually left on the skin for about 8 hours. Your healthcare provider will show you how much Aldara Cream to apply to your superficial basal cell carcinoma. You should also apply Aldara Cream to a small area of skin all around the superficial basal cell carcinoma. This small area of skin should be about the size of your fingertip. Treatment should continue for the full 6 weeks, even if the superficial basal cell carcinoma appears to be gone, unless you are told otherwise by your healthcare provider.

**Applying Aldara Cream**

Aldara Cream should be applied just before your bedtime.

- Wash the area to be treated with mild soap and water. Allow the area to dry.
- Uncircumcised males treating warts under their penis foreskin must pull their foreskin back and clean before treatment, and clean daily during the weeks of treatment.

- Wash your hands.
- Open a new packet of Aldara Cream just before use.
- Apply a thin layer of Aldara Cream only to the affected area or areas to be treated. Do not use more Aldara Cream than is needed to cover the treatment area.
- Rub the cream in all the way to the affected area or areas.

  - Do not get Aldara Cream in your eyes.
  - Do not get Aldara Cream in the anus when applying to perianal warts.
  - Female patients treating genital warts must be careful when applying Aldara Cream around the opening of the vaginal opening. 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 cause pain or swelling, and may cause problems passing urine. Do not put Aldara Cream in your vagina or on the skin around the genital wart.

- Do not cover the treated area with an airtight bandage. Cotton gauze dressings can be used. Cotton underwear can be worn after applying Aldara Cream to the genital or perianal area.
- Safely throw away the open packet of Aldara Cream so that children and pets cannot get it. The open packet should be thrown away even if all the Aldara Cream was not completely used.
- After applying Aldara Cream, wash your hands well.
- Leave the cream on the affected area or areas for the time prescribed by your healthcare provider. The length of time that Aldara Cream is left on the skin is not the same for the different skin conditions that Aldara Cream is used to treat. Do not bathe or get the treated area wet before the right time has passed. Do not leave Aldara Cream on your skin longer than prescribed.
- After the right amount of time has passed, wash the treated area or areas with mild soap and water.
- If you forget to apply Aldara Cream, apply the missed dose of cream as soon as you remember and then continue on your regular schedule.
- If you get Aldara Cream in your mouth or in your eyes, rinse well with water right away.

### What should I avoid while using Aldara Cream?

- Do not cover the treated site with bandages or other closed dressings. Cotton gauze dressings are okay to use, if needed. Cotton underwear can be worn after treating the genital or perianal area.
- Do not apply Aldara Cream in or near the eyes, lips, or nostrils, or in the vagina or anus.
- Do not use sunlamps or tanning beds, and avoid sunlight as much as possible during treatment with Aldara 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 Aldara Cream is on your genital or perianal skin. Aldara Cream may weaken condoms and vaginal diaphragms. This means they may not work as well to prevent pregnancy. For your own health and the health of others, it is important to practice safer sex. Talk to your healthcare provider about safer sex practices.

### What are the possible side effects of Aldara Cream?

**The most common side effects with Aldara Cream** are skin reactions at the treatment site including:

- redness
- swelling
- a sore, blister, or ulcer
Actinic Keratosis

During treatment and until the skin has healed, your skin in the treatment area is likely to appear noticeably different from normal skin. Side effects, such as redness, scabbing, itching, and burning are common at the site where Aldara Cream is applied, and sometimes the side effects go outside of the area where Aldara Cream was applied. Swelling, small open sores, and drainage may also be experienced with use of Aldara Cream. You may also experience itching and/or burning. Actinic keratoses that were not seen before may appear during treatment and may later go away. If you have questions regarding treatment or skin reactions, please talk with your healthcare provider.

Superficial Basal Cell Carcinoma

During treatment and until the skin has healed, your skin in the treatment area is likely to appear noticeably different from normal skin. Side effects, such as redness, swelling, and a sore are common at the site where Aldara Cream is applied. You may also experience itching or burning. Your healthcare provider will need to check the area that was treated after your treatment is finished to make sure that the skin cancer is gone. Superficial basal cell carcinoma can come back. The chances of it coming back are higher as time passes. It is very important to have regular follow-up visits with your healthcare provider to check the area to make sure your skin cancer has not come back. Ask your healthcare provider how often you should have your skin checked. Talk with your healthcare provider if you have questions about your treatment or skin reactions.

External Genital and Perianal Warts

Patients should be aware that new warts may develop during treatment, as Aldara Cream is not a cure. Many people see reddening or swelling on or around the application site during the course of treatment. If you have questions regarding treatment or local skin reactions, please talk with your healthcare provider.

You have a higher chance for severe skin reactions if you use too much Aldara Cream or use it the wrong way. Stop Aldara Cream right away and call your healthcare provider if you get any skin reactions that affect your daily activities, or that do not go away. Sometimes, Aldara Cream must be stopped for a while to allow your skin to heal. Talk to your healthcare provider if you have questions about your treatment or skin reactions.

Other side effects of Aldara Cream include headache, back pain, muscle aches, tiredness, flu-like symptoms, swollen lymph nodes, diarrhea, and fungal infections.

If the reactions seem excessive, if either skin breaks down or sores develop during the first week of treatment, if flu-like symptoms develop or if you begin to not feel well at any time, contact your healthcare provider.

These are not all the side effects of Aldara Cream. For more information, ask your healthcare provider or pharmacist.

How do I store Aldara Cream?

- Store Aldara Cream at 39° to 77°F (4° to 25°C). Do not freeze.
- Safely throw away Aldara Cream that is out of date or that you do not need.
- Keep Aldara Cream and all medicines out of reach of children.
General information about Aldara Cream

Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use Aldara Cream for a condition for which it was not prescribed. Do not give Aldara Cream to other people, even if they have the same symptoms you have.

This leaflet summarizes the most important information about Aldara Cream. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Aldara Cream that is written for the healthcare provider. If you have other questions about Aldara Cream, call 1-800-321-4576.

What are the ingredients in Aldara Cream?

Active ingredient: imiquimod

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

Rx only

Manufactured for:
Valeant Pharmaceuticals North America LLC
Bridgewater, NJ 08807 USA

By:
3M Health Care Limited
Loughborough LE11 1EP, United Kingdom
U.S. Patent Number 7,696,159

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Rev. 06/17
9600700
70012881

PRINCIPAL DISPLAY PANEL - 0.25g Packet Carton

NDC 99207-260-12

Rx only

Cream, 5%

Aldara®
(IMIQUIMOD)

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

12 single use packets

Net Wt. Per Packet
0.25 g
ALDARA
imiquimod cream

Product Information

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### Marketing Information

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### Labeler

Valeant Pharmaceuticals North America LLC (182837492)

### Establishment

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#### Name

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Revised: 6/2017

Valeant Pharmaceuticals North America LLC