Subspecialists Are Urged

To Vaccinate Adult Patients

UPCOMING MEETINGS

SDEF: Women's and Pediatric Dermatology Seminar

Perspectives in Melanoma X

American Contact Dermatitis Society

European Academy of Dermatology and Venereology

We Are There For You

BRIEF SUMMARY

Revised: January 2006

Protopic*

FOR DERMATOLOGIC USE ONLY

See boxed WARNING concerning long-term safety of topical calcineurin inhibitors

INDICATIONS AND USAGE
PROTOPIC Olimtment, both 0.03% and 0.1% for adults, and
only 0.03% for children aged 2 to 15 years, is indicated as
second-line therapy for the short-term and non-continuous
chronic treatment of moderate to severe alopic dermatitis in nonimmunocompromised adults and children who have failed to

immunocompromised adults and children who have tailed to respond adequately to other topical prescription treatments for atopic dermatitis, or when those treatments are not advisable. PROTOPIC Dintment is not indicated for children younger than 2 years of age (see boxed WARNING, WARNINGS and PRECAUTIONS: Pediatric Use).

CONTRAINDICATIONS
PROTOPIC (lacrolimus) ointment is contraindicated in patients with a history of hypersensitivity to tacrolimus or any other component of the ointment.

WARNING

Long-term Safety of Topical Calcineurin Inhibitors Has Not Been Established

Although a causal relationship has not been established, rarc cases of malignancy (e.g., skin and lymphoma) have beer reported in patients freated with topical calcineurin inhibitors including PROTOPIC Ointment.

- Continuous long-term use of topical calcineurin inhibitors, including PROTOPIC Dintment, in any age group should be avoided, and application limited to areas of involvement with atopic dermatitis.
- PROTOPIC Ointment is not indicated for use in children les than 2 years of age. Only 0.03% PROTOPIC Ointment i indicated for use in children 2-15 years of age.

Prolonged systemic use of calcineurin inhibitors for sustained immunosuppression in animal studies and transplant patients following systemic administration has been associated with an

or imminissuppression.

Based on the information above and the mechanism of action, there is a concern about potential risk with the use of topical calcineurin inhibitors, including PROTOPIC Ointment. While a causal relationship has not been established, rare cases of skin malignancy and lymphoma have been reported in patients treated with topical calcineurin inhibitors, including PROTOPIC Ointment. Therefore.

- Ill signs and symptoms of atopic dermatitis do not improve within 6 weeks, patients should be re-examined by their healthcare provider and their diagnosis be confirmed (see PRECAUTIONS: General).
- The safety of PROTOPIC Ointment has not been established beyond one year of non-continuous use.

(See boxed **Warning, Indications and Usage,** and **Dosage and Administration**).

PRECAUTIONS General

General
The use of PROTOPIC Ointment should be avoided on premalignant and malignant skin conditions. Some malignant skin
conditions, such as cutaneous T-cell lymphoma (CTCL), may
mimic alopic dermatitis.
The use of PROTOPIC Ointment in patients with Netherton's
Syndrome or other skin diseases where there is the potential for

The safety of PROTOPIC Unitment has not user testautistics in patients with generalized erythroderma.

The use of PROTOPIC Ointment may cause local symptoms such as skin burning (burning sensation, stinging, soreness) or purifus. Localized symptoms are most common during the first few days of PROTOPIC Ointment application and typically improve as the lesions of atopic demartistic resolve. With PROTOPIC Ointment 0.1%, 90% of the skin burning events had a duration between 2 minutes and 3 hours (median 15 minutes). 90% of the pruritus events had a duration between 3 minutes and 10 hours (median 20 minutes). (see ADVERSE REACTIONS).

Bacterial and Viral Skin Infections

Before commencing treatment with PROTOPIC Ointment, cutaneous bacterial or vial infections at treatment sites should be resolved. Studies have not evaluated the safety and efficacy of PROTOPIC Ointment in the treatment of clinically infected alopic dermatitis.

While patients with atopic dermatitis are predisposed to si skin infections including eczema herpeticum (Kaposi's varicelitiom eruption), treatment with PROTOPIC (orthment may be independently associated with an increased risk of varicella zoster virus infection (chicken pox or shingles), herpes simplex virus infection, or eczema herpeticum.

virus infection, or ezzema herpeticum.

Patients with Lymphadenopathy
In clinical studies, 112/13494 (0.8%) cases of lymphadenopathy
were reported and were usually related to infections (particularly
of the skin) and noted to resolve upon appropriate antibilotic
therapy. Of these 112 cases, the majority had either a clear etiology
or were known to resolve. Transplant platients receiving
immunosunoressive redimens (e.g., systemic tacrolimus) are at

Immunocompromised Patients
The safety and efficacy of PROTOPIC Ointment in immunocompromised patients have not been studied.

Renal Insufficiency

Rare post-marketing cases of acute renal failure have been reported in patients treaded with PROTOPIC Ointernal. Systemic absorption is more likely to occur in patients with epidemal barrier defects especially when PROTOPIC is applied to large body surface areas. Caution should also be exercised in patients predisposed to renal impairment.

Information for Patients
(See Medication Guide)
Patients using PROTOPIC Ointment should receive and
understand the information in the Medication Guide. Please refer
to the Medication Guide for providing instruction and information
in the natient

to the patient. What is the most important information patients should know about PROTOPIC Ointment?
The salety of using PROTOPIC Ointment for a long period of time the salety of using PROTOPIC Ointment for a long period of time PROTOPIC Ointment have had cancer (for example, skin or lymphoma). However, a link with PROTOPIC Ointment has not been shown. Because of this concern, instruct patients:

- No not use PROTOPIC Ointern continues the a long time.

- Do not use PROTOPIC Ointment continuously for a long time.
- Use PROTOPIC Ointment only on areas of skin that have eczema
- Do not use PROTOPIC Ointment on a child under 2 years old.
- PROTOPIC Ointment comes in two strengths:
 Only PROTOPIC Ointment 0.03% is for use on children aged 2 to 15 years.
- to 13 years.

 Either PROTOPIC Dintment 0.03% or 0.1% can be used by adults and children 16 years and older.

 Advise patients to talk to their prescriber for more information.

 How should PROTOPIC Ointment be used?

 Advise patients to:

- Use PROTOPIC Ointment exactly as prescribed.
 Use PROTOPIC Ointment only on areas of skin that have eczema.
- Use PROTOPIC Ointment for short periods, and if needed, treatment may be repeated with breaks in between.
- Stop PROTOPIC Ointment when the signs and symptoms of eczema, such as itching, rash, and redness go away, or as directed.
- Follow their doctor's advice if symptoms of eczema return after treatment with PROTOPIC Ointment.
- · Call their doctor if:
- Their symptoms get worse with PROTOPIC Ointment.
- They get an infection on their skin.

 Their symptoms do not improve after 6 weeks of treatment.

 Sometimes other skin diseases can look like eczema.

To apply PROTOPIC Ointment: Advise patients:

- Wash their hands before applying PROTOPIC
- Apply a thin layer of PROTOPIC Ointment twice daily to the areas of skin affected by eczema.

- Is the smallest amount of PROTOPIC Ointment needed to control the signs and symptoms of eczema.

 It they are a caregiver applying PROTOPIC Ointment to a patient, or if they are a caregiver applying PROTOPIC Ointment to a patient or if they are a patient who is not treating their hands, wash their hands with soap and water after applying PROTOPIC. This should remove any ointment lett on the hands.

 Do not bathe, shower, or swim right after applying PROTOPIC. This could wash off the ointment.

 Moisturizers can be used with PROTOPIC Ointment. Make sure they check with their doctor first about the products that aer right for them. Because the skin of patients with eczema can be very dry, it is important to keep up good skin care practices. If they use moisturizers, apply them after PROTOPIC Ointment.

What should patients avoid while using PROTOPIC Ointment?

- tvise patients:

 Do not use ultraviolet light therapy, sun lamps, or tanning beds during treatment with PROTOPIC Ointment.
- ouring treatment with PROTOPIC Unimment.

 Limit sun exposure during treatment with PROTOPIC Ointment even when the medicine is not on their skin. If patients need to be outdoors after applying PROTOPIC Ointment, wear loose fitting clothing that protects the treated area from the sun. Doctors should advise what other types of protection from the sun patients should use.

 Do not cover the skin being treated with bandance discriptings or

they swallow PROTOPIC Ointment. **Drug Interactions**Formal topical drug interaction studies with PROTOPIC Ointment have not been conducted. Based on its extent of absorption, interactions of PROTOPIC Ointment with systemically administered drugs are unlikely to occur but cannot be ruled out. The concomitant administration of known CYP3A4 inhibitors in patients with widespread and/or erythrodermic disease should be done with caution. Some examples of such drugs are erythromycin, itaconazole, ketoconazole, fluconazole, calcium channel blockers and cimetidine.

Carcinogenesis, Mutagenesis, Impairment of Fertility
No evidence of genotoxicity was seen in bacterial (Salmonella and
£ coh) or mammalian (Chinese hamster lung-derived cells) in
vitro assays of mutagenicity, the in vitro CHO/HGPRT assay
of mutagenicity or in vivo clastogenicity assay performed in
mice. Tacrolimus did not cause unscheduled DNA synthesis in
rodent hearbords.

Reproductive toxicology studies were not performed with topical tacrolimus.

re are no adequate and well-controlled studies of topically inistered tacrolimus in pregnant women. The experience with ITOPIC Dintment when used by pregnant women is too limited ermit assessment of the safety of its use during pregnancy. e are no adenuate and well control. to permit assessment of the salety of its use during pregnancy. There are no adequate and well-controlled studies of systemically administered tacrollimus in pregnant women. Tacrollimus is transferred across the placenta. The use of systemically administered tacrollimus during pregnancy has been associated with neonatal hyperkalemia and renal dysfunction. PROTOPIC Ointment should be used during pregnancy only if the potential benefit to the mother justifies a potential risk to the fetus.

benefit to the mother justifies a potential risk to the fetus. **Mursing Mothers**Although systemic absorption of tacrolimus following topical applications of PROTOPIC Ointment is minimal relative to systemic administration, it is known that tacrolimus is excreted in human milk. Because of the potential for serious adverse reactions in nursing inlants from tacrolimus, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Padiatrial Use

Pediatric Use PROTOPIC Ointment is not indicated for children less than 2 years of age.

Only the lower concentration, 0.03%, of PROTOPIC Ointment is recommended for use as a second-line therapy for short-term and non-continuous chronic treatment of moderate to severe atopic dermatitis in non-immunocompromised children 2 to 15 years of age who have failed to respond adequately to other topical prescription treatments for atopic dermatitis, or when those treatments are not advisable.

The long-term safety and effects of process.

The long-term safety and effects of PROTOPIC Ointment on the developing immune system are unknown (see boxed WARNING, WARNINGS and INDICATIONS AND USAGE).

AND USAGE.

The most common adverse events associated with PROTOPIC Ointment application in pediatric patients were skin burning and pruritus (see ADVERSE REACTIONS). In addition to skin burning and pruritus, the less common events (< 5%) of varicella prufitus (see ADVERSE REACTIONS). In addition to "skin burning and pruritus, the less common events (< 5%) of varicella zoster (mostly chicken pox), and vesiculobullous rash were more frequent in patients treated with PROTOPIC Ointment 0.03% compared to vehicle. In the open-label safety studies, the incidence of adverse events, including infections, did not increase with increased duration of study drug exposure or amount of ointment used. In about 4.400 pediatric patients treated with PROTOPIC Ointment, 24 (0.5%) were reported with eczema herpelicum. Since the safety and efficacy of PROTOPIC Ointment have not been established in pediatric patients below 2 years of age, its use in this age group is not recommended. Geriatric USE

ISE REACTIONS totoxicity and no photoallergenicity were detected in studies with 12 and 216 normal volunteers, respectively, ut of 198 normal volunteers showed evidence of ation in a contact sensitization study.

sensitization in a contact sensitization study.

The following lable depicts the adjusted incidence of adverse events pooled across the 3 identically designed 12-week controlled studies for patients in velticle, PROTOPIC Ontiment 0.03%, and PROTOPIC Ontiment 0.1% treatment groups. The table also depicts the unadjusted incidence of adverse events in four safety studies, regardless of relationship to study drug.

Incidence of Treatment Emergent Adverse Events

	12-Week, Randomized, Double-Blind, Phase 3 Studies 12-Week Adjusted Incidence Rate (%) Adult Podiatric					Open-Label Studies (up to 3 years) 0.1% and 0.03% Tacrolimus Ointment Incidence Rate (%)		
			_				Pediatric	Total
	Vehicle (sv212) %		0.1% Tacrolimos Dintment (n+209) %	Vehicle (n=116) %	0.03% Tacrolimus Ointment (n=118) %	(n=4582) %	(n=4481) %	(n=916 %
Skin Burning†	26	46	58	29	43	28	20	24
Pruritus†	37	46	46	27	41	25	19	22
Flu-like symptoms†	19	23	31	25	28	22	34	28
Allergic Reaction	8	12	6	8	4	9	13	11
Skin Erythema	20	25	28	13	12	12	7	9
Headachet	11	20	19	8	5	13	9	-11
Skin Infection	11	12	5	14	10	9	16	12
Fever	4	4	1	13	21	2	14	8
Infection	1	1	2	9	7	6	10	8
Cough Increased	2	1	1	14	18	3	10	6
Asthma	4	6	4	6	6	4	13	8
Herpes Simplex	4	4	4	2	0	4	3	3
Eczema Herpeticum	0	1	1	0	2	0	0	0
Pharyngitis	3	3	4	11	6	4	12	8
Accidental Injury	4	3	6	3	6	6	8	7
Pustular Rash	2	3	4	3	2	2	7	5
Folliculitis†	1	6	4	0	2	4	2	3
Rhinitis	4	3	2	2	6	2	4	3
Otitis Media	4	ō	1	6	12	2	11	6
Sinusitist	1	4	2	8	3	6	7	6
Diarrhea	3	3	4	2	5	2	4	3
Urticaria	3	3	6	1	1	3	4	4
Lack of Drug Effect	1	1	ő	i	i	6	6	6
Bronchitis	0	2	2	3	3	4	4	4
Vomiting	ő	1	Ť	7	6	1	4	3
Maculopapular Rash	2	2	2	3	0	2	1	1
Rasht	1	5	2	4	2	2	3	3
Abdominal Pain	3	1	1	2	3	1	3	2
Fungal Dermatitis	0	2	1	3	0	2	4	3
Gastroenteritis	1	2	2	3	0	2	4	3
Alcohol Intolerance†	0	3	7	0	0	4	0	2
Acnet	2	4	7	1	0	3	2	3
Sunburn	1	2	1	0	0	2	1	1
Skin Disorder	2	2	H	1	4	2	2	2
Conjunctivitis	0	2	2	2	1	3	3	3
Pain	1	2	1	0	÷	2	1	2
Vesiculobullous Rasht	3	3	2	0	4	2	1	1
Lymphadenopathy	2	2	1	0	3	1	2	1
Nausea	4	3	2	0	1	2	1	2
Skin Tinglingt	2	3	8	1	2	2	1	1
Face Edema	2	2	1	2	1	1	1	1
Dyspensia†	1	1	4	0	0	2	2	2

BY JOYCE FRIEDEN

Senior Editor

WASHINGTON — Specialists who treat

adults should be encouraged to give pre-

ventive vaccines to their patients, Dr.

William Schaffner said at a press briefing

sponsored by the National Foundation for

"A lot of adults don't see their internists

Infectious Diseases.

Generally wards*

Other adverse events which occurred at an incidence between 0.2% and less than 1% in clinical studies in the above table include: abnormal vision, abscess, anaphylacholid reaction, anemia, anorexia, anxiety, arthritis, arthrosis, billinibirenia, bilepharitis, bore disorder, breast nepolasm benign, bursilis, calaract NOS, chest pain, chills, collisis, conjunctival edema, constipation, cramps, cutaneous moniliasis, cysilis, delitydration, dizziness, diry eyes, dry mouth/hose, dyspreae, are disorder, ecctymosis, edema, epistasis, eye pain, furunculosis, gastritis, gastroinitestiriad disorder, hernia, hypertonia, hypothyroidism, plint disorder, hernia, hypertonia, hypothyroidism, plint disorder, hernia, hypertonia, hypothyroidism, plint disorder, sharying skin carcinoma, skin disorloration, skin grainer, moniliasis, mouth luceration, radii disorder, neck pain, neoplasm benign, oral moniliasis, otitis externa, photosensitivity reaction, read disorder, shorther, skin carcinoma, skin disorloration, skin pepertophy, skin ulcer, stornattis, tendon disorder, thinking abnormal, tooth caries, sweating, syncope, tachycardia, taste perversion, unintended pregnancy, vaginal mortisis, vagintis; valvular heart disease, vasodilatation, and vertigo.

OVERDOSAGE

OVERDOSAGE
PROTOPIC Ointment is not for oral use. Oral ingestion of PROTOPIC Ointment may lead to adverse effects associated with systemic administration of tecnolinus. If oral ingestion occurs medical advice should be sought.

DOSAGE AND ADMINISTRATION

PROTOPIC Ointment 0.03% and 0.1%

- **POLIUPIC Dintment 0.03% and 0.1%

 Apply a thin layer of PROTOPIC (tarcollinus) Dintment to the affected skin twice daily. The minimum amount should be rubbed in gently and completely to control signs and symptoms of alopic dermatitis. Stop using when signs and symptoms of alopic dermatitis resolve.

 If signs and symptoms (e.g., itch, rash, and redness) do not improve within 8 weeks, patients should be re-examined by their healthcare provider to confirm the diagnosis of atopic dermatitis.
- alopic dermalitis.

 Continuous, long-term use of topical calcineurin inhibitors, including PROTOPIC 0 intment should be avoided, and application should be limited to areas of involvement with alopic dermalitis.

 The safety of PROTOPIC 0 intment under occlusion, which may promote systemic exposure, has not been evaluated. PROTOPIC 0 intment should not be used with occlusive dressings.

PEDIATRIC - FOR CHILDREN 2-15 YEARS

- PEDIATRIC FOR CHILDREN 2-15 YEARS
 PROTOPIC Ointment 0.03%

 Apply a thin layer of PROTOPIC (lacrolimus) Ointment, 0.03% to the affected skin twice daily. The minimum amount should be rubbed in gently and completely to control signs and symptoms of alopic dermatitis. Stop using when signs and symptoms of alopic dermatitis resolve.
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Manufactured by:

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or family physicians. They are taken care of by specialists," Dr. Schaffner said in a discussion with journalists after the briefing.

One problem with getting adults immunized is that many of them don't go to doctors in the first place, said Dr. Schaffner, chairman of preventive medicine at Vanderbilt University in Nashville, Tenn.

"Women, at least, go to ob.gyns., and ob.gyns.—under the leadership of the American College of Obstetricians and Gynecologists—are increasingly acknowledging that they're primary care physicians. They're beginning to get the word that part of what they have to do as

But even with so many specialists who could be vaccinating patients, none of them will be interested in doing so until the reimbursement process improves. primary care physicians is immunize."

Ob.gyns. have already taken responsibility for cervical cancer screening, noted Dr. Schaffner, who is also professor of infectious diseases at Vanderbilt. "I predict they'll be avid

promoters of the human papillomavirus vaccine. If we can get them to expand their purview, they can think about hepatitis B: 'That's a sexually transmitted disease-I know how that works.' '

Ob.gyns. can also be approached regarding influenza vaccinations for pregnant women, he added. "We've got to bring them along. These are wonderful opportunities, and I think we're going to see a major change in ob.gyns. doing this."

Internal medicine subspecialists are another likely target, according to Dr. Schaffner. "If you have rheumatoid arthritis or lupus, the only doctor you may be going to is a rheumatologist. Nephrologists take care of patients with kidney failure, and gastroenterologists take care of a lot of patients with inflammatory bowel disease who don't very regularly go to a general internist."

These subspecialists could start with pneumococcal and influenza vaccines, which categorically all their patients are eligible for," he said.

There is one group of internal medicine subspecialists that may be a tougher sell, however: cardiologists. "They haven't been reached [with the message] that in their outpatient practice, they ought to be ordering and delivering vaccines, because in large measure, many of their patients don't have internists who take care of them," Dr. Schaffner said.

But even with so many specialists who could be vaccinating patients, none of them will be very interested in doing so until the reimbursement situation has improved, he said. "No provider is going to get rich giving vaccines, but they don't want to lose money. You have to structure it so that [physicians] and the people who run their offices know that there's at least a modest potential" for profit, he added.