## Nail Base Needs Close Attention in Car Door Injury

BY BETSY BATES

Los Angeles Bureau

STANFORD, CALIF. — Think of tuft fractures, which commonly occur when a child's finger is crushed in a car door, like toe fractures, advised Dr. Bernard W. Dannenberg at a recent pediatric update sponsored by Stanford University.

You can get an x-ray, but we're not going to do anything ... about them," said Dr. Dannenberg, director of pediatric emergency medicine at the Stanford (Calif.) University.

Dr. Dannenberg tells patients with tuft fractures or toe fractures the same thing. "If it still hurts in a week or 2, it's probably fractured. If it doesn't hurt, it was contused."

He nonetheless advises physicians to examine car door injuries closely, because an injury at the base of the nail bed needs to be surgically repaired, often under sedation, to prevent scarring or a deformity when the new nail grows out.

Such an injury should be loosely dressed, and an emergency medicine specialist or hand surgeon should see the patient within 12 hours or so, he said.

"Look very closely when you see them. [An avulsed nail base] just doesn't look like much," he said. "I've seen cases where the [physician] says, don't worry, the nail will fall off."

Fingertip amputations should be cleaned and debrided. If fingertip bones are exposed, they should be covered by

closing the wound, if possible. In some cases, the bones may need to be rongeured down to permit wound closure over them. The tissue generally will not regenerate; however, Dr. Dannenberg said that the cosmetic and functional outcome often is excellent. "The skin heals wonderfully, and for the most part, you can't even see any difference."

Complete fingertip amputations can be reattached, although they are likely to necrose. "It probably will fall off, but it gives

it some protection," he said.

'Look very closely when you see them. [An avulsed nail base] just doesn't look like much. I've seen cases where the [physician] says, don't worry, the nail will fall off.'

In cases in which the skin cannot he closed around the injury, it can heal by secondary intention, so long as bone is not ex-

posed, he said. Subungual hematomas can be very painful, and a simple

procedure can provide relief, explained Dr. Dannenberg. "All you have to do is take an 18-gauge needle and use it as a drill ...[until] you see a drop of blood."

Both patients and parents should be distracted, since the procedure looks worse than it actually is, he said. Meanwhile, making tiny holes into two or three areas of the hematoma can provide "tremendous pain relief."

Dr. Dannenberg generally uses longacting lidocaine to perform any necessary repairs of the finger after a car door crush injury. This provides 4-8 hours of pain relief until parents can fill a prescription for an analgesic such as Lortab, liquid hydrocodone, and acetaminophen.





BRIEF SUMMARY

Revised: January 2006

## Protopic<sup>®</sup>

FOR DERMATOLOGIC USE ONLY NOT FOR OPHTHALMIC USE

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

topical calcineurin inhibitors

INDICATIONS AND USAGE
PROTOPIC Dintment, 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 atopic dermatitis in non-immunocompromised adults and children who have failed to respond adequately to other topical prescription treatments for atopic dermatitis, or when those treatments are not advisable.

PROTOPIC Ointment 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, rare

- Include:
  Continuous long-term use of topical calcineurin inhibitors
  including PROTOPIC Ointment, in any age group should b
  avoided, and application limited to areas of involvemer
  with atopic dermatitis.
- PROTOPIC Ointment is not indicated for use in children let than 2 years of age. Only 0.03% PROTOPIC Ointment 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 increased risk of infections, lymphomas, and skin malignancies. These risks are associated with the intensity and duration of immunosuppression.

- Therefore:

  PROTOPIC Ointment should not be used in immunocompromised adults and children.
- If 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
The use of PROTOPIC Dintment should be avoided on premalignant and malignant skin conditions, Some malignant skin
conditions, such as cutaneous T-cell lymphoma (CTCL), may
mimic atopic dermatitis.

patients with generalized erythroderma. The use of PROTOPIC Cintment may cause local symptoms such as skin burning (burning sensation, stinging, soreness) or pruritus. Localized symptoms are most common during the first ew days of PROTOPIC Cintment application and typically improve as the lesions of atopic dermatifis resolve. With PROTOPIC Cintment 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).

(median 20 minutes), (see ADVERSE REACTIONS).

Bacterial and Viral Skin Infections

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

While patients with atopic dermatitis are predisposed to superficial skin infections including eczema herpeticum (Kaposis'

virus intection, or eczema herpieticum.

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

increased risk for developing lymphoma; therefore, patients who receive PROTOPIC Ointment and who develop lymphadenopathy should have the etiology of their lymphadenopathy investigated. In the absence of a clear etiology for the lymphadenopathy, or in the presence of acute infectious mononucleosis, PROTOPIC Ointment should be discontinued. Patients who develop lymphadenopathy should be monitored to ensure that the lymphadenopathy resolves.

lymphadetrupetry recommendation of the statement patients should minimize or avoid natural or artificial sunlight exposure, even while PROTOPIC is not on the skin. It is not known whether PROTOPIC Ointment interferes with skin response to ultraviolet damage.

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

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Renal Insufficiency
hare post-marketing cases of acute renal failure have been reported in patients treated with PROTOPIC Ointment. Systemic absorption is more likely to occur in patients with epidermal 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 a
understand the information in the Medication Guide. Please re
to the Medication Guide for providing instruction and informat
to the patient.

to the patient.

What is the most important information patients should know about PROTOPIC Dintment?

The safety of using PROTOPIC Ointment for a long period of time is not known. A very small number of people who have used PROTOPIC Ointment have had cancer (for example, skin or lymphoma). However, a link with PROTOPIC Dintment has not been shown. Because of this concern, instruct patients:

Do not use PROTOPIC Ointment continuously for a long time.

Use PROTOPIC Ointment only on areas of skin that have eczerna.

Do not use PROTOPIC Ointment on a child under 2 years old.

PROTOPIC Dintment comes in two strengths:

- PROTOPIC Ointment comes in two strengths:
  Only PROTOPIC Ointment 0.03% is for use on children aged 2 to 15 years.

Either PROTOPIC Ointment 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?

- Use PROTOPIC Ointment exactly as prescribed.
- · Use PROTOPIC Ointment only on areas of skin that
- 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 liching, rash, and redness go away, or as
- 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.
- Their symptoms do not improve after 6 weeks of treatment. Sometimes other skin diseases can look like eczema.

## To apply PROTOPIC Ointment:

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

   Use the smallest amount of PROTOPIC Ointment needed to control the signs and symptoms of eczema.
- Control the Sights and symposis or execute. 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 left on the hands.
- Do not bathe, shower, or swim right after applying PROTOPIC. This could wash off the ointment.
- mis could wash off the ointment.

  Moisturizers can be used with PROTOPIC Ointment. Make sure they check with their doctor first about the products that are right for them. Because the skin of patients with ezerae 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. What should patients avoid while using PROTOPIC Ointment?

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

wraps. Patients can wear normal clothing.

Avoid getting PROTOPIC Ointment in the eyes or mouth. Do not swallow PROTOPIC Ointment. Patients should call their doctor if 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, Itazonazole, keloconazole, fluconazole, calcium channel blockers and cimetidine.

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

Reproductive toxicology studies were not performed with topical tacrolimus.

Pregnancy
Teratogenic Effects: Pregnancy Category C
Teratogenic Effects: Pregnancy Category C
There are no adequate and well-controlled studies of topically
administered tacrolimus in pregnant women. The experience with
PROTOPIC oilmment when used by pregnant women is too limited
to permit assessment of the safety of its use during pregnancy. There are no adequate and well-controlled studies of systemically Inere are no adequate and well-controlled studies of systemically administered tacrolimus in preparant women. Tacrolimus is transferred across the placenta. The use of systemically administered tacrolimus during pregnancy has been associate 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.

## Nursing Mothers

on the developing immune system are unknown (see boxed WARNING, WARNINGS and INDICATIONS AND USAGE). The most common adverse events associated with PROTOPIC Olintment application in pediatric patients were skin huming and

ne 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 scater (mostly chicken pox), and vesculobulous rash were more frequent in patients treated with PROTOPIC Dintment 0.03% compared to vehicle. In the open-label sately 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 herpeticum. 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

DVERSE REACTIONS
phototoxicity and no photoallergenicity were detected in inical studies with 12 and 216 normal volunteers, respectively. e out of 198 normal volunteers showed evidence of sitization in a contact sensitization study.

Jollowing table depicts the adjusted incidence of adverse into pooled across the 3 identically designed 12-week strolled studies for patients in vehicle, PROTOPIC Ointment 396, and PROTOPIC Ointment 0.1% treatment groups. The lealso depicts the unadjusted incidence of adverse events in radley studies, regardless of relationship to study drug.

idence of Treatment Emernent Adverse Fuente.

## Incidence of Treatment Emergent Adverse Events

	12-Week, Randomized, Double-Blind, Phase 3 Studies 12-Week Adjusted Incidence Rate (%)					Open-Label Studies (up to 3 years) 0.1% and 0.03% Tacrolimus Ointment Incidence Rate (%)		
		Adult	11111021	Pediatric		Adult	Total	
	Vehicle (n=212) %	0.03% Tacrolimus	0.1% Tacrolimus Dintment (n=209) %	Vehicle	0.03% Tacrolimus Ointment (n+118)	(n=4582) %	Pediatric (n=4481) %	(n=91 %
Skin Burning†	26	46	58	29	43	28	20	24
Pruritust	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 Ervthema	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
Hernes 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 Bash	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	0	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	0	1	1	6	6	6
Bronchitis	0	2	2	3	3	4	4	4
Vomiting	0	1	1	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	Ö	0	2	1	1
Skin Disorder	2	2	1	1	4	2	2	2
Conjunctivitis	0	2	2	2	1	3	3	3
Pain	1	2	1	0	1	2	1	2
Vesiculobullous Rash†	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
Dyspepsiat	1	1	4	0	0	2	2	2

Dry Skin	7	3	3	0	1	1	1	1
Hyperesthesia†	1	3	7	0	0	2	0	1
Skin Neoplasm Benign‡‡	1	1	1	0	0	1	2	2
Back Pain†	0	2	2	1	1	3	0	
Peripheral Edema	2	4	3	0	0	2	0	1
Varicella Zoster/ Herpes Zoster† ‡	0	1	0	0	5	1	2	2
Contact Dermatitis	1	3	3	3	4	2	2	2
Asthenia	1	2	3	0	0	1	0	1
Pneumonia	0	1	1	2	0	- 1	3	2
Eczema	2	2	2	0	0	1	0	1
Insomnia	3	4	3	1	1	2	0	1
Exfoliative Dermatitis	3	3	1	0	0	0	- 1	0
Dysmenorrhea	2	4	4	0	0	2	1	1
Periodontal Abscess	1	0	1	0	0	1	- 1	1
Myalgia†	0	3	2	0	0	2	- 1	1
Dyst†	0	1	3	0	0	1	0	1
Cellulitis	1	1	1	0	0	1	1	1
Exacerbation of Untreated Area	1	0	1	1	0	1	1	1
Procedural								
Complication	1	0	0	1	0	1	1	1
Hypertension	0	0	1	0	0	2	0	1
Tooth Disorder	0	1	1	1	0	2	1	1
Arthralgia	1	1	3	2	0	2	1	2
Depression	1	2	1	0	0	1	0	1
Paresthesia	1	3	3	0	0	2	1	2
Alopecia	0	1	1	0	0	1	1	1
Urinary Tract Infection	0	0	1	0	0	2	- 1	2
Ear Pain	1	0	1	0	1	0	1	1

## Generally vacins\*

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, anaphylactoid reaction, anemia, anorexia, anviety, arthritis, arthrosis, bilirubinemia, blepharitis, bone disorder, breast neoplasm benign, burstilis, calaract NDS, chest pain, chills, conjundival ederma, constigation, cramps, cutaneous monilitasis, originatival ederma, constigation, cramps, cutaneous monilitasis, systitis, dehydration, dizziness, dry eyes, dry mouth/nose, dyspnea, ear disorder, ecclymnosis, ederna, epistaxis, eye pain, hurunculosis, systitis, gathoritis, astrolitis, signoritis, leukoderma, lung disorder, malaise, migratien, comilitasis, motive luceration, nall disorder, neck pain, neoplasm benign, oral monilitasis, otitis externa, skin discoloration, skin hypertrophy, skin ulber, stomatilis, tendon disorder, thinking abnormal, both caries, sweating, synoope, tachycardia, taste perversion, unintended pregnancy, vaginal monilitasis, vaginitis, valvular heart disease, vasodilatation, and vertigo.

OVERDOSAGE

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

## DOSAGE AND ADMINISTRATION

## PROTOPIC Ointment 0.03% and 0.1%

- Apply a thin layer of PROTOPIC (tacrolimus) Ointment 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 atopic dermatitis resolve.

The safety of PROTOPIC Ointment under occlusion, which may promote systemic exposure, has not been evaluated. PROTOPIC Ointment should not be used with occlusive dressings. PEDIATRIC - FOR CHILDREN 2-15 YEARS PROTOPIC Ointment 0.03%

# ROTOPIC Gintment 0.03% Apply a thin layer of PROTOPIC (tacrolimus) 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 atopic dermatitis. Stop using when signs and symptoms of atopic dermatitis resolve.

If signs and symptoms (e.g., itch, rash, and redness) do not improve within 6 weeks, patients should be re-examined by their healthcare provider to confirm the diagnosis of atopic dermatitis. Continuous, long-term use of topical calcineurin inhibitors, including PROTOPIC Dintment should be avoided, and application should be limited to areas of involvement with alopic dermatitis.

atopic dermatitis.

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

Astellas Pharma Manufacturing, Inc Grand Island, NY 14072

PRT24818

This patient has an avulsed nail and lacerated nail bed with soft tissue loss.

In this photo, the patient's nail bed has been repaired and the nail reinserted.

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