A 45-year-old woman is shown before undergoing combination therapy to treat localized fat on her outer thighs (left). She is shown again after undergoing one treatment with ultrasound plus four treatments with VelaSmooth (right).



TRI-LUMA* Cream (fluccinoione acetonide 0.01%, hydroquinone 4%, tretinoin 0.05%) Prof Summary For External Use Only

Not for Ophthalmic Use

Rx only

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to determine sensitization potential in 221 healthy volunteers, three volunteers developed sensitivity reactions to TRI-LUMA Cream or its components. **PRECAUTIONS:** General: TRI-LUMA Cream contains hydroquinone and tretinoin that may cause mild to moderate irritation. Local irritation, such as skin reddening, peeling, mild burning sensation, dryness, and purutus may be expected at the site of application. Transient skin reddening or mild burning sensation dryness, and purutus may be expected at the site of application. Transient skin reddening or mild burning sensation droses not preclude treatment. If a reaction suggests hypersensitivity or chemical irritation, the use of the medication should be discontinued. TRI-LUMA Cream also contains the corticosteroid fluccinolone acetonide. Systemic absorption of topical corticosteroid insufficiency after withdrawal of treatment. Manifestations of Cushing's syndrome, hyperglycemia, and glucocorticosteroid use of trib-LUMA Cream should be discontinued. Recovery of HPA axis function generally occurs upon discontinuation of topical corticosteroids.

use of TRI-LUMA Cream should be discontinued. Recovery of HPA axis function generally occurs upon discontinuation of topical acticosteroids. Exposure to sunlight, sunlamp, or ultraviolet light should be avoided. Patients who are consistently exposed to sunlight or skin initiants either through their work environment or habits should exercise particular caution. Sunscreen and protective covering (such as the use of a hal) over the treated areas should be used. Sunscreen use is an essential aspect of melaxm therapy as even minimal sunlight suitatian melanon(suita catvity). Weather extremes, such as heat or cold, may be irritating to patients treated with TRI-LUMA Cream. Because of the drying effect of this medication, a moisturizer may be applied to the face in the morning after weaking. Application of TRI-LUMA Cream should be kept away from the eyes, nose, or angles of the mouth, because the mucces is much more sensitive than the skin to the irritant effect. If local irritation persists or becomes severe, application of the medication should be discontinued, and the health care provider consulted. Allergic contact demutibility, crusting, and severe burn-ing or swelling of the skin and irritation of the mucuus membranes of the eyes, nose, and mouth require medicat attertion. If the medication is applied excessively, marked redness, peeling, or discontion tray occur. This medication is to be used as directed by the health care provider and should not be used for any disorder other than that for which its prescribed.

a mean-auom is use useu as arrected by the nealth care provider and should not be used for any disorder other than that for ich is prescribed.
ACTH or cosyntropin stimulation test
ACTH or cosyntropin stimulation test
A.M. plasma corrisol test
Urinary free cortisol test
Urinary free cortisol test
Urinary free cortisol test
Control test and avoid medicated or abrasive soaps and cleansers, soaps and cosmetics with drying effects, ducts with high concentration of alcohol and astringent, and other irritants or keratolytic drugs while on TRI-LUMA Cream atment. Patients should avoid medications that are known to be photosensitizing. **Circingenesis, Mutagenesis, Mutagenesis, Impairment of Fertility:** Long-term animal studies to determine the carcinogenic potential of IrcluMA Cream have not been conducted.
dides of hydrogunone in animas have demonstrated some evidence of carcinogenicity. The carcinogenic potential of froguinone in humans is unknown.

rydroquinone in humans is unknown. Studies in hairdes albino mice suggest that concurrent exposure to tretinoin may enhance the turnorigenic potential of carcinogenic doses of UVB and UVA light from a solar simulator. This effect has been confirmed in a later study in pigmentato mice, and dark pigmentation did not overcome the enhancement of photocarcinogenesis by OoS% tretinoin. Although the significance of these studies to humans is not clear, patients should minimize exposure to sunlight or artificial ultraviolet irritritione correct.

significance of these studies to numans is not clear, patients should minimize exposure to sunlight or artificial ultravoiet irradiation sources. Mutagenicity studies were not conducted with this combination of active ingredients. Published studies have demnostrated that hydroquinone is a mutagen and a clastogen. Treatment with hydroquinone has resulted in positive findings for genetic toxicity in the Ames assay in bacterial strains sensitive to oxidizing mutagens, in *in vitro* studies in mammalian cells, and in the *in vivo* mouse micronucleus assay. Trethion has been shown to be negative for mutagenses in the Ames assay. Additional information regarding the genetic toxicity potential of tretinonia and of fluccinolone acetonide is not available. A dermal reproductive fertility study was conducted in SD rats using a 10-fold diution of the clinical formulation. No effect was seen on the traditional parameters used to assess fertility, although prolongation of estrus was observed in some fermales, and there was a trend towards an increase in pre-and post-implantation loss that was not statistically significant. No adequate study fertility and early embryonic toxicity of the full-strength drug product has been performed. In a six-month study in minipigs, small testes and severe hypospermia were found when males were treated topically with the full strength drug product. **Perganary:** Treatogenic Effects: **Pregranyc Category C: TRI-LUMA** Cream contains the teratogen, trefnicit, which may cause embryo-fetal death, altered fetal growth, congenital malformations, and potential neurologic deficits. It is difficuit to interpret the animal studies on teratogenicity with **TRI-LUMA** Cream, because the availability of the dermal applications in these studies animal studies on teratogenicity the **TRI-LUMA** Cream should be used during pregnancy only if the potential benefit justifies the potential is to the fetus.

pregnam women. IHI-LUMA Cream should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. <u>Summary Statement on Teratogenic Risk</u> TRI-LUMA Cream contains the teratogen, retainoin, which may cause embryo-fetal death, altered fetal growth, congenital mailormations, and potential neurologic deficits. However, human data have not confirmed an increased risk of these developmental abnormalities when trethnoin is administered by the topical route. Clinical considerations relevant to actual or potential inadvertent exposure during pregnancy. In clinical trais involving TRI-LUMA Cream in the treatment of facial metasma, women of child-bearing potential initiated treatment only after having had a negative pregnancy test and used effective birth control measures during therapy. Thus, safely and infract or TRI-LUMA Cream in pregnancy has not been established. In general, use of drugs should be reduced to a uninimum in pregnancy. If a patient has been inadvertently exposed to TRI-LUMA Cream in pregnancy, she should be counseled on the risk of teratogenesis due to this exposure during the pregnancy test must be reduced to a the prescriber should have the following clinical considerations in making prescribing decisions: The prescriber should have the following clinical considerations in making prescribing decisions: The prescriber should have the following clinical considerations in making prescribing decisions: The protential developmental effects of tretinoin are serious but the risk from topical administration is small. Exposure during the period or organogenesis in the first trimester is thereotically more likely to produce adverse outcome than in later pregnancy. The risk to the mother for not treating melasma should he determined hu the howician with the optical Mild former of the maximum of the mother for not treating melasma should he determined hu the networkical wore likely to produce adverse outcome than in later pregnancy.

Exposure during the period for organogenesis in the first trimester is theoretically more likely to produce averse outcome than in later programcy.
 The risk to the mother for not treating melasma should be determined by the physician with the patient. Mild forms of melasma may not necessarily require drug transment. TRI-LUMA Gram is indicated for the treatment of moderate to severe melasma. Melasma may also be managed with other forms of therapy such as topical hydroquinone in the presence of sunlight avoidance, or stopping the use of hormonal birth control methods. If possible, delaying treatment with TRI-LUMA Cream until after delivery should be considered.
 There are no adequate and well-controlled studies in pregnant women. TRI-LUMA Cream should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.
 Data Discussion: Tretinoin is considered to be highly treatogenic upon systemic administration. Animal reproductive studies are not available with topical hydroquinone. Controcateroids have been shown to be teratogenic in laboratory animals.
 Human Data.

termal application in laboratory animats. - I uncain Data - In clinical trials involving TRI-LUMA Cream in the treatment of facial melasma, women of child-bearing potential initiated treatment only after having had a negative pregnancy test, and used effective birth control measures during therapy. However, 15 women became pregnant during treatment with TRI-LUMA Cream. Of these pregnancies, 6 resulted in healthy babies, 6 outcomes still unknown, 2 were reported as miscarriages, and 1 case was lost to follow-up. - Epidemiologic studies have not confirmed an increase in birth defects associated with the us of topical tretinoin. However, there may be limitations to the sensitivity of epidemiologic studies in the detection of certain forms of fetal injury, such as

logic or intelligence deficits

himal Data. • a dermal application study using TRI-LUMA Cream in pregnant rabbits, there was an increase in the number of *in utero*

deaths and a decrease in fetal weights in litters from dams treated topically with the drug product.

• In a dermal application study in pregnant rats treated with TRI-LUMA Cream during organogenesis there was evidence of treatogenicity of the type expected with trethnoin. These morphological alterations included delt palate, portunding tongonesis in the number of stilloom pups, lower pup body weights, and delta / Indice of the number of stilloom pups, lower pup body weights, and delta / Indice and treata of loting or dysplasa.
• In a dermal application study on the gestational and postnatial effects of a 10-fold dilution of TRI-LUMA Cream in traces an increase in the number of stilloom pups, lower pup body weights, and delta / in preputal separation were observed. An increase in overall activity was seen in some treated litters at postnatial day 22 and in all treated litters at the veeks, a pattern consistent with freefsc stip previously noted in animals exposed *in utero* with refinica caids. No adequate study of the late gestational and postnatal effects of the full-strength TRI-LUMA Cream has been performed.
• It is difficult to interpret these animal studies con teratogenicity with TRI-LUMA Cream, because the availability of the dermal applications in these studies could not be assured, and comparison with clinical dosing is not possible.
All pregnancials have a risk to bith defect, loss, or other adverse event regardless of drug exposure. Typically, estimates of numans, Even i fluman data are available, such data may not be sufficient to determine whether there is an increased risk to the tetus. Drug exposure rely heavily on animal data. However, animal studies do not always predict effects in numans. Even exercised in human milk. The outhor is numan milk. This outh Norm Numan milk. This on Known Nucher topical application of TRI-LUMA Cream is administered to a nursing woran. Care should be taken to avoid contact between the infant being nursed and TRI-LUMA Cream is difficult to relaterist. In general, do

TRI-LUMA Cream in at least 1% or more of Patients (N=161)				
Adverse Event		Number (%) of Patients		
Erythema		66 (41%)		
Desquamation		61 (38%)		
Burning		29 (18%)		
Dryness		23 (14%)		
Pruritus		18 (11%)		
Acne		8 (5%)		
Paresthesia		5 (3%)		
Telangiectasia		5 (3%)		
Hyperesthesia		3 (2%)		
Pigmentary chan	iges	3 (2%)		
Irritation		3 (2%)		
Papules		2 (1%)		
Acne-like rash		1 (1%)		
Rosacea		1 (1%)		
Dry mouth		1 (1%)		
Rash		1 (1%)		
Vesicles		1 (1%)		

in an open-label long-term safety study, patients who have had cumulative treatment of melasma with TRI-LUMA Cream for months showed a similar pattern of adverse events as in the 8-week studies.

Summary of wost Common Treatment-related Adverse Events (TRAE)* Study 29					
	Number (%) of Patients				
	Treatment Group				
	TRI-LUMA				
Preferred Term	All Patients (N=569)	Patients with at least 180 Cumulative Days of TRI-LUMA Treatment (N=314)			
Total number of TRAE ^a	326 (57.29)	202 (64.33)			
Application site erythema	166 (29.17)	105 (33.44)			
Application site desquamation	145 (25.48)	91 (28.98)			
Application site dryness	46 (8.08)	27 (8.60)			
Application site burning	38 (6.68)	25 (7.96)			
Application site inflammation	31 (5.45)	24 (7.64)			
Application site reaction nos	31 (5.45)	17 (5.41)			
Application site rash	30 (5.27)	18 (5.73)			
Application site pruritus	24 (4.22)	18 (5.73)			
Application site pigmentation changes	23 (4.04)	18 (5.73)			

Defined as "probably" or "possibly" related to study medication Data source: Section 14.3, Tables 8.1.1, 8.1.2, and 8.1.3 The severity, incidence and type of adverse events experienced f

ata source: Section 14.3, Tables 8.1.1, 8.1.2, and 8.1.3 e severity, incidence and type of adverse events experienced from 6 months cumulative use were not significantly different m the events reported for all patients. In the incidence of application site pigmentation changes that occurred in both the controlled and long-term safety studies Juded 11 occurrences of hypopigmentation and 18 occurrences of hypopigmentation in 27 patients. In control adverse reactions have been reported infrequently with topical corticosteroids. They may occur more fre-mently with the use of occurrence burning, liching, intraindin, drivness, follicultis, acerelome and using the second adverse reactions, explored in the protein or corticosteroids. These reactions relisted in an proximate decreasing order of occurrence burning, liching, intraindin, drivness, follicultis, aseender mattins, liching, intraindin, drivness, follicultis, aseender methy and the second adverse reactions and the propriet of the second adverse reactions are listed in an intro, perioral dermattins, allergic contact dermattins, secondary infection, skin atrophy, striae, and miliaria. IN-LUMA Cream contains hydroquinone, which may produce exogenous ochronosis, a gradual blue-black darkening of the my whose occurrence should prompt discontinuation of therapy. taneous hypersensitivity to the active ingredients of TRI-LUMA Cream has been reported in the literature. In a patch test study determine sensitization potential in 221 healthy volunteers, three volunteers developed sensitivity reactions to TRI-LUMA earm or its components. included 11 oci The following

arketed by:	Manufactured by:
alderma Laboratories, L.P., Fort Worth, TX 76177 USA	Hill Laboratories, Inc., Sanford, FL 32773
ALDERMA is a registered trademark.	20024-1203 Revised: December 2003

Reference: 1. Taylor SC, Torok H, Jones T, et al. Efficacy and safety of a new triple-combination agent for the treatment of facial melasma. Cutis. 2003;72:67-72.

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Combo Treatment Improves Body Contouring Outcomes

BY SHARON WORCESTER Southeast Bureau

KISSIMMEE, FLA. — Body contouring using an external focused ultrasound device and a device that uses infrared light, bipolar radiofrequency energy, and mechanical massage is more effective than is ultrasound alone for treating localized fat, a study

suggests. The combination approach also requires fewer treatments to achieve similar results, Dr. Luigi Mazzi reported at the annual meeting of the American Society for Laser Medicine and Surgery.

Over 15 months, 198 patients-mostly women aged 24-52 years-were treated for localized fat, including 54 who were treated with UltraShape Ltd.'s Contour I ultrasound device and 144 who were treated with the Contour I in combination with Syneron Medical Ltd.'s VelaSmooth device.

Patients received up to three ultrasound treatment sessions targeting localized fat on the abdomen, flanks, and/or outer thighs-most patients received treatments on multiple areas during each session-followed immediately by a VelaSmooth

An average circumference reduction of 4 cm per patient was noted after the last treatment with ultrasound plus VelaSmooth, versus 3 cm with ultrasound alone.

treatment. VelaSmooth also was used weekly between ultrasound treatments, said Dr. Mazzi, who is in private practice in Verona, Italy.

ultra-

During the study period, 1,082 sound

treatments (an average of 20 per patient) and 1,164 combination ultrasound

and VelaSmooth treatments (8 per patient) were performed.

The outer thighs were the most commonly treated area (44% of treatments), followed by the abdomen (33% of treatments) and flanks (23% of patients), he noted.

An average circumference reduction of 4 cm per patient was noted after the last treatment with ultrasound plus Vela-Smooth, versus 3 cm after the last treatment with ultrasound alone. Better results with fewer treatments were seen in the abdomen and flanks, whereas upper thighs with sclerotic fat tissue typically required more treatments to obtain satisfactory results, said Dr. Mazzi, who received honoraria from Syneron.

Side effects were comparable in both groups, with minor discomfort reported in 23% of patients; mild and transient erythema reported by 76%; and burning reported in 1%.

These treatments are indicated for the patient with a body mass index below 29 kg/m^2 who desires treatment of localized fat and does not want to undergo more invasive treatments, such as liposuction.

The treatments are not intended for weight loss or for treating cellulite or skin laxity, although Dr. Mazzi believes the combined approach used in this study appears to result in improved skin tightening.

The Contour I device is used in Europe and Canada but is not yet approved for use in the United States. Approval by the Food and Drug Administration is anticipated later this year, he said.

GALDERMA