Help Lips Shape Up With Proper Use of Fillers

BY JANE SALODOF MACNEIL

Southwest Bureau

PHOENIX, ARIZ. — The lip that is enhanced with filler should meet definable proportions and yet retain its individuality, Arnold W. Klein, M.D., said at a clinical dermatology conference sponsored by

"Lips are about volume but more importantly shape. Any enhancement must be undetectable," said Dr. Klein, who

holds a dermatology chair in his name at the University of California, Los Angeles' David Geffen School of Medicine.

Lip augmentation requires fillers to increase facial volume in a subtle and aesthetically pleasing manner, he said. It is not about "simply eradicating lines."

The lower third of the aging face, including the lip, is the area least amenable to plastic surgery. Along with the thinning of both lips, he cited prominent labial mandibular grooves, the ends of the upper

lips hanging down, loss of bone support from dentition and from the mandible, and decreased vertical support, he said.

According to Dr. Klein's formulation of the aesthetic lip: "The length of the closed, relaxed mouth should equal the distance between the medial aspect of the irises in the well-proportioned face." In addition, the ratio of the upper lip to the lower lip should be 1:1.6.

When the head is photographed in a postural position with a relaxed mouth, an

interpupillary line drawn horizontally across the eyes should be parallel to a horizontal commissural line drawn where the lips meet.

Dr. Klein cited other characteristic facial landmarks including curvature of the dorsum and angulation of the nose. He said the base of the nose should be 18-20 mm above the upper lip, whereas the recommended distance between the lower lip and the chin is 36 mm.

Looking at the postural head position in

SORIATANE® (acitre



SORIATANE® (acitretin)

CAPSULES

Before prescribing, please see complete product information, a summary of which follows:

CONTRAINDICATIONS AND WARNINGS. Soriatane must not be used by females who are pregnant, or who intend to become pregnant during therapy or at any time for at least 3 years following discontinuation of therapy. Soriatane also must not be used by females who may not use reliable contraception while undergoing treatment and for at least 3 years following discontinuation of treatment. Actiretin is a metabolite of etretinate (Tegison"), and major human fetal abnormalities have beer reported with the administration of actiretin and etretinate. Potentially, any fetus exposed can be affected. Clinical evidence has shown that concurrent ingestion of actiretin and ethanol has been associated with the formation of etretinate, which has a significantly longer elimination half-life tha actiretin. Because the longer elimination half-life of etretinate would increase the duration of teratogenic potential for female patients, ethanol must not be ingested by female patients either duration of teratogenic potential for female patients, ethanol must not be ingested by female patients either duration of actiretin to etretinate and the properties of the mechanism of the metabolic process for conversion of actiretin to etertinate has not been fully defined. It is not known whether substances other than ethanol are associated with transseterification. Actiretin has been shown to be embryotoxic and/or teratogenic in rabbits, mice, and rast a toral doses of 0.6, 3 and 15 mg/kg, respectively. These doses are approximately 0.2, 0.3 and 3 times the maximum recomended therapeutic dose, respectively, based on a mg/m² comparison, Major human feta abnormalities associated with actiretin and/or etretinate administration have been reported includin meningomyleocle, meningoencephalocle, multiple synostoses, facial dysmorphia, syndactyly absence of terminal phalanges, malformations of hip, ankle and forearm, low-set ears, high palate decreased cranial volume, cardiovascular malformation and alterations of the skull and cervical vertebrae. Soriata

• Must have had 2 negative urine or serum pregnancy tests with a sensitivity of at least 25 mlU/ml before receiving the initial Soriatane prescription. The first test (a screening test) is obtained by the prescriber when the decision is made to pursue Soriatane therapy. The second pregnancy tes (a confirmation test) should be done during the first 5 days of the menstrual period immediately preceding the beginning of Soriatane therapy. For patients with amenorrhea, the second test should be done at least 11 days after the last act of unprotected sexual intercourse (without using 2 effective forms of contraception (birth control) simultaneously). Timing of pregnancy testing throughout the treatment course should be monthly or individualized based on the prescriber's clinical judgment.
• Must have selected and have committed to use 2 effective forms of contraception (birth control) simultaneously, at least 1 of which must be a primary form, unless absolute abstinence is the

• Patients must use 2 effective forms of contraception (birth control) simultaneously for at least month prior to initiation of Soriatane therapy, Auring Soriatane therapy, and for at least 3 years aft discontinuing Soriatane therapy, A Soriatane Patient Referral Form is available so that patients carecive an initial free contraceptive counseling absolute patients of a regular basis by the prescriber. To encourage compliance with this recommendation, a limite supply of the drug should be prescribed. Effective forms of contraception include both primary an secondary forms of contraception. Primary forms of contraception include both primary an secondary forms of contraception include both primary and some of the contraception include diaphragms, late condoms, and cervical caps; each secondary forms of contraception include diaphragms, late condoms, and cervical caps; each secondary forms of contraception include diaphragms, late condoms, and cervical caps; each secondary forms of contraception include diaphragms, late condoms, and cervical caps; each secondary form must be used with a spermicide. Any birth cort or method can fail. Therefore, it is critically important that women of childbearing potential us 2 effective forms of contraception (birth control) simultaneously, it has not been established if the is a pharmacokinetic interaction between activatin and combined or contraceptives. However, has been established that activation interfers with the contraceptive effect of microdosed progesti preparations. Microdosed "minipili" progestin preparations are not recommended for use and advised to consult the package insert of any medication administered concomitantly with hormor al contraceptives, since some medications may decrease the effectiveness of these birth control products, Patients should be prospectively cautioned not to self-medicate with the herbal supple ment \$1. John's Wort because a possible interaction has been suggested with hormon contraceptives based on reports of breaktivut gub ledening on

 Must have signed a Patient Agreement/Informed Consent for Female Patients that contains war ings about the risk of potential birth defects if the fetus is exposed to Soriatane, about contraceptifallure, and about the fact that they must not ingest beverages or products containing ethanol wh taking Soriatane and for 2 months after Soriatane treatment has been discontinued.

If pregnancy does occur during Soriatane therapy or at any time for at least 3 years following discontinuation of Soriatane therapy, the prescriber and patient should discuss the possible effects the pregnancy. The available information is as follows: Actiretin, the active metabolite of etretinate, teratogenic and is contraindicated during pregnancy. The risk of severe fetal malformations is we established when systemic retinoids are taken during pregnancy. Pregnancy must also be prevente after stopping actiretin therapy, while the drug is being eliminated to below a threshold blood concentration that would be associated with an increased incidence of birth defects. Because the threshold has not been established for actiretin in humans and because elimination rates vary amor patients, the duration of postberapy contraception to achieve adequate elimination cannot be calculated precisely. It is strongly recommended that contraception be continued for at least 3 years aft stopning treatment with activitin based on the following considerations:

 In the absence of transesterification to form etretinate, greater than 98% of the acitretin would be eliminated within 2 months, assuming a mean elimination half-life of 49 hours.

acitretin and ethanol,

• greater than 98% of the etretinate formed would be eliminated in 2 years, assuming a mean

eliminated in 2 years, assuming a mediatric formed would be eliminated in 2 years, assuming a mediatric formed would be eliminated in 2 years, based on the longer

 greater than 98% of the etretinate formed would be eliminated in 3 years, based on the long demonstrated elimination half-life of 168 days.

However, etretinate was found in plasma and suboutaneous fat in one patient reported to have he sporadic alcohol Intake, 52 months after she stopped activeth therapy.* Severe birth defects have been reported where conception occurred during the time interval whe the patient was being treated with actireth and/or etretinate. In addition, severe birth defects have the patient was being treated with actireth and/or etretinate. In addition, severe birth defects have the patient was being treated with actireth and/or etretinate. In addition, severe birth defects have the patient was being treated with actireth and/or etretinate. In addition, severe birth defects have the patient was being treated with actireth and or active the patient was a set of the patient was a severe or active the patient was a severe

nave been reported own prospectively (before the outcome was known) and retrospectively (ain the outcome was known). The events below are listed without distinction as to whether it reported birth defects are consistent with retinoid-induced embryopathy or not.

**There have been 318 prospectively reported cases involving pregnancies and the use of etrei nate, actiretin or both, in 238 of these cases, the conception occurred after the last dose etretinate (102 cases), actiretin (126) or both (9), Fetal outcome remained unknown in approximately one-half of these cases, of which 62 were terminated and 14 were spontaneous.

undescended testicle and 5 cases of premature birth). In the 126 prospectively reported cases where conception occurred after the last dose of actiretin only, 43 cases involved conception at least 1 year but less than 2 years after the last dose. There were 3 reports of abnormal outcomes out of these 43 cases (involving limb mailformation, GI tract mailformations and premature birth). There were only 4 cases where conception occurred at least 2 years after the last dose but there were no reports of birth defects in these cases.

• There is also a total of 35 retrospectively reported cases where conception occurred at least or year after the last dose of etterliante, activetion or both. From these cases there are 3 reports c birth defects when the conception occurred at least 1 year but less than 2 years after the lad dose of activetin (including heart malformations, Turner's Syndrome, and unspecified congenitional malformations) and 4 reports of birth defects when conception occurred 2 or more years after the last dose of activetin (including toot malformation, ardiac malformations [2 cases] an unspecified neonatal and infancy disorder.) There were 3 additional abnormal outcomes in case where conception occurred 2 or more years after the last dose of etretinate (including chroms some disorder, forearm alloaisa, and stillbirth).

 Females who have taken Tegison (etretinate) must continue to follow the contraceptive recommendations for Tegison. Tegison is no longer marketed in the U.S.; for information, call Roche at 1-800-526-6367.

1-000-329-0507.

Patients should not donate blood during and for at least 3 years following the completion of Soriatane therapy because women of childbearing potential must not receive blood from patients being treated with Soriatane.

Important Information For Males Taking Soriatane:

Patients should not donate blood during and for at least 3 years following Soriatane therapy because more of childhearing potential must not receive blood from nations being treated with Soriat

women of childbearning potential must not receive blood from patients being treated with Soriatam samples of seminal fluid from 3 male patients treated with actiretin and 6 male patients treated with observed in the seminal fluid of these men was 125 ng/ml. Assuming an ejaculate volume c 10 ml., the amount of drug transferred in semen would be 125 ng, which is 1/200,000 of a singl 5 mg capsule. Thus, although it appears that residual actiretin in seminal fluid poses little, if an risk to a fetus white a male patient is taking the drug or after it is discontinued, the no-effect lim for teratogenicity is unknown and there is no registry for birth defects associated with actiretin. The available data are as follows: There have been 25 cases of reported conception when the male part ner was taking actiretin. The pregnancy outcome is known in 13 of these 25 cases. Of these 95 cases of reported conception when the male part ner was taking actiretin. The pregnancy outcome is known in 13 of these 25 cases. Of the service of the properties of the pr

Timing of paternal acitretin treatment relative to conception	Delivery of healthy neonate	Spontaneous abortion	Induced abortion	Total
At time of conception	5*	5	1	11
Discontinued ~ 4 weeks prior	0	0	1**	1
Discontinued ~ 6-8 months prior	0	1	0	1
+Farm of F assess many presentation				

"With malformation pattern not typical of retinoid embryopathy (bilateral cystic hygromas of neck, hypoplasia of lungs bilateral, pulmonary atresia, VSD with overriding truncus arteriosus) For All Patients: A SORIATANE MEDICATION GUIDE MUST BE GIVEN TO THE PATIENT EACH TIME SORIATANE IS DISPENSED, AS REQUIRED BY LAW.

CONTRANDICATIONS: Pregnancy Category X (see boxed CONTRANDICATIONS AND WARMINGS). Soriatan is contraindicated in patients with severely impaired liver or kidney function and in patients with chronic abnor mally elevated blood lipid values. An increased risk of hepatitis has been reported to result fror combined use of methodrexate and etretinate. Consequently, the combination of methodrexate with Soriation also contraindicated. Since both Soriation and tetracyclines can cause increased intracranial pressure, the combined use is contraindicated. Soriation is contraindicated in cases of hypersensitivity to the preparatio (activetin or excipients) or to other retinoids.

WARNINGS (see also boxed CONTRAINDICATIONS AND WARNINGS)

Hepatloxicity: Of the 525 patients treated in US clinical trials, 2 had clinical jaundice with elevated serum billrubin and transaminases considered related to Soriatane treatment. Liver function test results in these patients returned to normal after Soriatane was discontinued. Two of the 1289 patients treated in European clinical trials developed biopsy-confirmed toxic hepatitis. A second biopsy in one of these patients reveated nodule formation suggestive of cirrhosis. One patient in a Canadian clinical trial of 63 patients developed a three-fold increase of transaminases. A liver biopsy of this patient showed mild lobular disarray multirosal hepatocyte loss and mild triaditis of the portal tracts compatible with acute reversible hepatic ninury. The patient's transaminases levels returned to normal 2 months after Soriatane was discontinued. The potential of Soriatane threapy to induce hepatloxicity was prospectively evaluated using liver biopses in an open-table study of 128 patients. Pretreatment and postfreatment biopsies were available for 87 patients. A comparison of liver biopsy findings before and after therapy revealed 49 (38%) patients showed no change, 21 (25%) improved and 14 (17%) patients had a worsening of their liver biopsy status. For 6 patients, the classification changed from class 10 (abss.) If the patients of the patient is the classification changed from class 10 (abss.) If the patients of the patients in the classification changed from class 10 (abss.) If the patients of the patients and the change in liver biopsy status, and no cumulative dose relationship was found. Elevations of AST (SG0T), ALT (SGTP), GCT (GGTP) or LDH have occurred in approximately 1 in 3 patients treated with Soriatane, of the 525 patients treated in clinical trials in the US, reatment was discontinued and the develope in liver biopsy status, and no cumulative dose relationship was found. Elevations of AST (SG0T), ALT (SGTP), GCT (GGTP) or LDH have occurred in approximately 1 in 3 patients treated with Soriatane, o

periodically performed in view of possible esstitication abnormalities (see ADVERSE REACTIONS). In clinical trials with Soriatane, patients were prospectively evaluated for evidence of development or change in bony abnormalities of the vertebral column, knees and ankles. Vertebral Results: 0f 380 patients treated with Soriatane, 15% had preveiting abnormalities of the spine which showed new changes or progression of preexisting findings. Changes included degenerative spurs, anterior bridging of spiral vertebrae, diffuse idiopathic skeletal hyperostosis, ligament caldication and narrowing and destruction of a cervical disc space. De novo changes (formation of small spurs) were seen in 3 patients after 1½ to 2½ years. Skeletal Appendicular Results: Six of 128 patients treated with Soriatane showed abnormalities in the knees and ankles before treatment that progressed during treatment. In 5, these changes involved the formation of additional spurs or enlargement of existing spurs. The sixth patient had degenerative joint disease which worsened. No patients developed spurs de novo. Clinical complaints did not predict radiographic changes. Lipida and Possible Cardiovascular Effects: Blood lipid determinations should be performed before Soriatane is administered and again at intervals of 1 to 2 weeks until the lipid response to the drug is established, usually within 4 to 8 weeks, in patients receiving Soriatane during clinical trials, 66% and 33% experienced elevation in triglycerides and choseterd, respectively. Decreased high density lipporoteins (IPLD) courron in 40% of patients. These effects of Soriatane were generally reversible upon cessation of therapy. Patients with an increased tendency to develop hyper-triglyceridemia included those with disturbances of lipid metabolism, diabetes mellitus, obesity, increased alcohol intake or a familial history of these conditions. Because of the risk of hypertriglyceridemia, serum lipids must be more dosely monitored in high-risk patients and during long-term treatment.

profile, the physician should make sure both lips touch the "Steiner line," he said.

When seen in profile, the nasolabial angle should be about 84-105 degrees, he continued: "You want a good nasolabial angle."

To illustrate this, he showed a photograph in which one extended line connected the base of the nose to the tip of the nose. A second line from the base of the nose touched the "Glogau-Klein point" at the center edge of the upper lip. The angle is formed where the two lines intersect.

The G-K point describes the "ski slope" shape of the lip in profile as you move from the skin above the lip down onto the pink vermillion. There is always a little upturn, a point of reflection, which becomes lost as one ages, Richard G. Glogau, M.D., told Skin & Allergy News.

The cosmetic implication is that you have to recreate this shape with fillers used in the border of the lip to make the lip young and attractive. Also, if you use too much Botox on the upper lip, the orbicularis muscle flattens and makes an older looking lip. Therefore, it is generally a good idea to combine fillers with the Botox if you are trying to reestablish a youthful looking upper lip, said Dr. Glogau, who is a consultant to Allergan Inc., Medicis, and Inamed Aesthetics.

Dr. Klein cited a study of 100 women

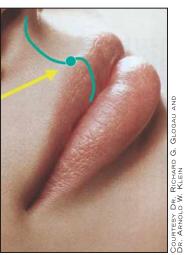
which showed that aging lips lose height (Dermatology 2004;208:307-13). He said the most important aspect of lip augmentation involves building buttresses to restore the lost height and the ends of the

"You want flying buttresses to hold up the lips because of the loss of dentition,' he said. "You want to restore the ends and build buttresses to support the lip. That's really important.

The choice of filling agent is less important than the physician's skill in using it, according to Dr. Klein, who disclosed ties as a consultant and/or investigator for Allergan Inc., Genzyme, Inamed Aesthetics, Anika Inc., Medicis, SkinMedica, and OrthoNeutrogena.

"It is not what you use. It is how you use it," he said, recommending physicians become really skilled in one or two products rather than plow through what he described as a delicatessen menu of filling agents on the market.

Except for correction of scars, Dr. Klein opposes the use of permanent fillers. He



The Glogau-Klein point shows dimensions of the aesthetic lip.

warned that these agents could become increasingly visible or create an unnatural appearance as facial contours change over time. "For aesthetic indications I believe permanent fillers are a formula for disaster," he said.

Plasma Method **Irons Out Lines And Acne Scars**

LAKE BUENA VISTA, FLA. — Plasma skin resurfacing reduces acne scars and fine lines while minimizing downtime and adverse events, according to data presented at the annual meeting of the American Society for Laser Medicine and Surgery.

"Plasma skin regeneration provides an effective long-term facial rejuvenation for acne scarring and fine lines," said M. Potter, M.D., of RAFT Institute of Plastic Surgery in London.

The plasma device works by passing ultrahigh energy through nitrogen gas, generating plasma used to treat scars and lines with short pulses.

In this study, Dr. Potter treated a total of 11 patients (10 women)—3 for acne scars, 7 for fine lines, and 1 patient for both. The treatment was performed under anesthesia. Energy varied between 1 and 4 J.

All patients were assessed at 10 days and 3 and 6 months post treatment. "A precise measure of skin irregularity was recorded using silicon molds. ... Wrinkle depth was assessed using a light microscope technique to give an accurate measurement," Dr. Potter said.

In patients with fine lines, the mean pretreatment wrinkle depth was 0.25 mm. At 10 days, there was a mean improvement in wrinkle depth of 39%. At 6 months, mean improvement was 24%. "Acne is always difficult to treat, but these patients had an improvement of 35% at 10 days and 23% at 6 months," Dr. Potter said.

-Kerri Wachter

conjunctivitis, comeal epithelial abnormality, cortical cataract, decreased night vision, diplopa, itchy eyes or eyeless, nuclear cotained, pressure, papellederna, prilopsychola, posterior subcaposite coloract, recurrent side seyless, continue the up and undergroup or pribation propriets. Propriets of the control of In a fertility study in rats, the fertility of treated animals was not impaired at the highest dosage of activetin tested, 3 mg/kg/day (approximately one-half the maximum recommended therapeutic dose based on a mg/m²comparison). Chronic toxicity studies in dogs revealed testicular changes (reversible mild to moderate spematogenic arrest and appearance of multinucleated glant cells) in the highest dosage group (50 then 30
mg/kg/day). No decreases in sperm count or concentration and no changes in sperm motifity or morphology
were noted in 31 men (17 psoriatic patients, 8 patients with disorders of keratinization and 6 healthy volunteers)
given 30 to 50 mg/day of activetin for at least 12 weeks. In these studies, no deleterious effects were seen on
either testosterone production, LH or FSH in any of the 31 men, "No deleterious effects were seen on either testosterone production, LH or FSH in any of the 31 men," No deleterious effects were seen on the hypothalamic-pituitary axis in any of the 18 men where it was measured. "Pregnancy: Terapancy Category X (see boxed CONTRAINDICATIONS AND WARNINGS), Nursing Mothers: Studies on
leatating rats have shown that etertilante is excreted in the milk. There is one prospective case report where
acitretin is reported to be excreted in human milk. Therefore, nursing mothers should not receive Soriatane prior
to or during nursing because of the potential for serious adverse reactions in nursing infants. Prediatric Use:
Safety and effectiveness in pediatric patients have not been established, No clinical studies to Assure have been reported in chairs
hyperostoses, decreases in bone mineral density, and premature epiphyseal dosume have been reported in chidren taking other systemic retinoids, including etrelinate, a metabolite of Soriatane. A causal relationship
between these effects and Soriatane has not been established with liet is not known that these occurrences are
more severe or more frequent in children, there is special concern in pediatric patients because of t

healthy elderly subjects compared with young subjects, although the elimination half-life did not change. ADVERSE REACTIONS to During clinical inals with Soriatines. 5 19:252 (95%) of patients reported a total of 354-8 comparisons in which the mucus membranes and side. There patients deaft you of the deaths were not drug related (puncreatic adenocarcinoma and lung cancer); the other patient deaf of an acute mycacidia infarction, nonsidered remotely related to drught very land. The patients deaft you of the deaths were not drug related (puncreatic adenocarcinoma and lung cancer); the other patient deaf of an acute mycacidia infarction. Fromtomerolomis research with the patients of the patient deaft of an acute mycacidia infarction. Fromtomerolomis research with the patients of the patient



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