## Physicians Urged to Engage in Pay for Performance

BY JOEL B. FINKELSTEIN

Contributing Writer

WASHINGTON — Physicians may never embrace pay for performance with open arms, but they do need to get in the

That was the message delivered by policy experts speaking at the annual research meeting of AcademyHealth.

Hospitals have viewed pay for performance "as something that is coming down the pike, and they're getting ready for that," said Melony Sorbero, Ph.D., a researcher with the RAND Corporation.

In recent interviews that were conducted by RAND as part of the organization's studies of existing pay-for-performance programs, hospital staff expressed much less resistance than did

Hospitals have an organizational framework, staff, and systems to be able to respond to these programs," said Cheryl

Damberg, Ph.D., a senior researcher with

For hospitals, the question about payfor-performance programs is how many measures are being requested and what the technical requirements are for reporting the data.

For physicians, the problem is a fundamental one: How will they collect the data in the first place?

"Physicians for the most part lack the infrastructure. Their data systems aren't anywhere near what hospital data systems are," said Dr. Damberg.

However, physicians do have opportunities to get involved with the development of pay-for-performance measures. There are hundreds of pay-for-performance experiments currently engaging physicians, while a total of only about 40 programs are aimed at hospitals, said Dr. Sorbero.

The American Board of Internal Medicine is behind one of the efforts targeting physicians. The organization recently completed a study to determine whether physicians can be ranked based on a combination of chart reviews, patient surveys, and practice system surveys. They

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assessed the consistency of those data individually and together.

"We want to make sure that the measures that are going into our composites are fair and reliable,' said Rebecca Lipner, Ph.D., vice president

of psychomet-

rics and research analysis at ABIM.

The study of physician ranking looked at the treatment of a single medical condition—hypertension—a focus that was key in formulating the patient survey questions, she said.

The questions that are used to survey patients aren't "the general 'do you like your physician?' or 'do you get good access to care?' They're all about how does the physician give care for your specific disease," said Dr. Lipner.

However, ABIM found that there was wide variation across the sets of measures and, depending on how they were combined, an individual physician's rank could swing by more than three quartiles. For example, a physician could do well based on his chart and systems data, but do poorly based on the patient surveys, she

One lesson of the study may be that devising a reliable measure of physician performance is not a simple thing to do, Dr. Damberg suggested.

Another lesson may be that it is important for physicians to have a structure within which these performance measures become relevant.

In that sense, medical homes can be seen as an attempt to give a framework to practice settings outside the hospital, said

"A lot of what we have learned from hospital systems is transferring over to medical homes. But it is a big challenge,"

"We have ... quite a few physicians who are in solo practice. They are really by themselves, and we always underestimate how many physicians are working by themselves without an infrastructure, without peer connections," Dr. Lipner said.

TRI-LUMA® Cream (fluocinolone acetonide 0.01%, hydroquinone 4%, tretinoin 0.05%) Brief Summary For External Use Only

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use of Int-Count of cental solution de uscontinued. Necovery of IntrA axis fulction generally occurs upon uscontinuation to relations: Exposure to sunlight, sunlamp, or ultraviolet light should be avoided. Patients who are consistently exposed to sunlight or skin irritants either through their work environment or habits should exercise particular caution. Sunscreen and protective covering (such as the use of a hat) over the treated areas should be used. Sunscreen use is an essential aspect of melasma therapy as even minimal sunlight sustains melanocytic activity. 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 molstruter may be applied to the face in the morning after washing. Application of TRI-LUMA Cream should be kept away from the eyes, nose, or angles of the mouth, because the mucosa is much more sensitive than the skin to the irritant effect. If local irritation presists or becomes severe, application of the medication should be discontinued, and the health care provider consulted. Allergic contact dermatitis, blistering, crusting, and severe burning or swelling of the skin and irritation of the mucous membranes of the eyes, nose, and mouth require medical attention. If the medication is applied excessively, marked redness, peeling, or disconfront may occur. This medication is applied excessively, marked redness, peeling, or disconfront may 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 it is prescribed.

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Laboralory Tests: The following tests may be helpful in evaluating patients for HPA axis suppression ACTH or cosyntropin stimulation test
A.M. plasma cortisol test
Urinary free cortisol test
Urinary free cortisol test
Drug Interactions: Patients should avoid medicated or abrasive soaps and cleansers, soaps and cosmetics with drying effects, products with high concentration of alcohol and astringent, and other irritants or keratolytic drugs while on TRI-LUMA Cream treatment. Patients are cautioned on concomitant use of medications that are known to be photosensibilizing. Carcinogenesis, Mulagenesis, Impairment of Fartility: Long-term animal studies to determine the carcinogenic potential of TRI-LUMA Cream have not been conducted.
Studies of hydroquinone in nimitals have demonstrated some evidence of carcinogenicity. The carcinogenic potential of hydroquinone in humans is unknown.

vydroquinone in humans is unknown. Studies in hairless albino mice suggest that concurrent exposure to tretinoin may enhance the tumorigenic potential of arcinogenic doses of UVB and UVA light from a solar simulator. This effect has been confirmed in a later study in pigmentation did not overcome the enhancement of photocarcinogenesis by O no5% tretinoin. Although the significance of these studies to humans is not clear, patients should minimize exposure to sunlight or artificial ultraviolet

significance of these studies to humans is not clear, patients should minimize exposure to sunlight or artificial ultraviolet irradiation sources. Mutagenicity studies were not conducted with this combination of active ingredients. Published studies have demonstrated 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. Tethnion has been shown to be negative for mutagenesis in the Ames assay. Additional information regarding the genetic toxicity potential of tretition and of fluccinolone acterioride is not available. A dermal reproductive fertility study was conducted in SD rats using a 10-fold dilution of the clinical formulation. No effect was seen on the traditional parameters used to assess fertility, although prolongation of estrus was observed in some temales, and there was a trend towards an increase in pre-and post-implantation loss that was not statistically significant. No adequate study of fertility and early embryonic toxicity of the full-strength drug product has been performed. In a six-month study in milipigs, small testes and severe hypospermia were found when makes were treated topically with the full strength drug product. Prepanancy: Tendegonic Effects: Pregnancy Category C: TRI-LUMA Cream, bocalins the teratogogine, tretionic, which may cause embryo-fetal death, altered fetal growth, congenital malformations, and potential neurologic deficits. It is difficult to interpret the animal studies on teratogenicity with TRI-LUMA Cream, bocause the availability of the dermal applications in these studies cannot be assured, and comparison with clinical dosing is not possible. There are no adequate and well-controlled studies in prepanant women. TRI-LUMA Cream should be used during pregnant owomen. TRI-LUMA Cream should be used during pregnancy only if the potential benef

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Summary Statement on Teratopenic Risk

TRI-LUMA Cream contains the teratogen, tretinoin, which may cause embryo-fetal death, altered fetal growth, congenital malformations, and potential neurologic deficits. However, human data have not confirmed an increased risk of these developmental abnormalities when tretinoin is administered by the topical route.

Clinical considerations relevant to actual or potential inadvertent exposure during pregnancy:
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. Thus, safety and efficacy of TRI-LUMA Cream in pregnancy, has not been established in general, use of drugs should be reduced to a minimum in pregnancy. Ba patient has been inadvertently exposed to TRI-LUMA Cream in pregnancy and the patient developments in the first trimester is theoretically more likely to produce adverse outcome than in later pregnancy.

The prescriber should have the following clinical considerations in making prescribing decisions:

The potential developmental effects of tretinoin are serious but the risk from topical administration is small.

Exposure during the period for organogenesis in the first trimester is theoretically more likely to produce adverse outcome than in later pregnancy.

The risk to the mother for not treation melasma should be determined by the abscision with the outcome.

melasma may not necessarily require drug treatment. TRI-LUMA Cream 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.

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

<u>nimal Data.</u>

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 teratogenicity of the type expected with tretinoin. These morphological alterations included cleft palate, protruding tongue, open eyes, umbilical hernia, and retinal folding or dysplasia.

In a dermal application study on the gestational and postnatal effects of a 10-fold dilution of TRI-LUMA Cream in rats, an increase in the number of stillborn pups, lower pup body weights, and delay in preputial separation were observed. An increase in overall activity was seen in some treated litters at postnatal day 22 and in all treated litters at five weeks, a pattern consistent with effects previously noted in animals exposed in utero with reflicion calcids. 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 on 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 pregnancies have a risk of birth defect, loss, or other adverse event regardless of drug exposure. Typically, estimates of increased fetal risk from drug exposure rely heavily on animal data. However, animal studies do not always predict effects in humans. Even if human data are available, such data may not be sufficient to determine whether there is an increase risk to the fetus. Drug effects on behavior, cognitive function, and fertility in the offspring are particularly difficult to assess.

Mursing Mothers: Corticosteroids, when systemically administered, appear in human milk. It is not known whether topical application of TRI-LUMA Cream could result in sufficient systemic absorption to produce detectable quantities of fluocinolone actionicie, hydroquinone, or tretinoin in human amalik. All numa

Incidence and Frequency of Treatment-related Adverse Events with 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 changes	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 6 months showed a similar pattern of adverse events as in the 8-week shurlies

Summary of Most 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 <sup>a</sup>	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)	

Changes

Defined as "probably" or "possibly" related to study medication
Data source: Section 14.3, Tables 81.1, 81.2, and 81.3
The severity, incidence and type of adverse events experienced from 6 months cumulative use were not significantly different from the events reported for all patients.
The incidence of application site pigmentation changes that occurred in both the controlled and long-term safety studies included 11 occurrences of hyperpigmentation in 27 patients.
The following local adverse reactions have been reported infrequently with topical corticosteroids. They may occur more frequently with the use of occlusive dressings, especially with higher potency corticosteroids. These reactions are listed in an approximate decreasing order of occurrence: burning, tiching, irritation, dryness, folliculitis, acneform eruptions, hypopigmentation, perioral dermatitis, allergic contact dermatitis, secondary infection, skin atrophy, striae, and miliaria.
TRI-LUMA Cream contains hydroquinone, which may produce exogenous ochronosis, a gradual blue-black darkening of the skin, whose occurrence should prompt discontinuation of therapy.
Cutaneous hypersensitivity to the active ingredients of TRI-LUMA Cream has been reported in the literature. In a patch test study to determine sensitization potential in 221 healthy volunteers, three volunteers developed sensitivity reactions to TRI-LUMA Cream or its components.

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. *Outis*. 2003;72:67-72.

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