FDA, European Agencies Extend Cooperation Pact

BY JONATHAN GARDNER

Contributing Writer

rug regulators in the United States and Europe have announced "intensified" information sharing and dialogue aimed at increasing cooperation in drug approval and surveillance activities in the world's two largest pharmaceutical markets.

At a March review meeting in Brussels, representatives from the Food and Drug Administration, the European Medicines Agency, and the European Commission judged as a success the implementation of a confidentiality agreement that has enabled greater transatlantic information sharing and dialogue on pharmaceutical regulations protecting 753 million people in 26 countries.

The three agencies hope to particularly strengthen joint activities on vaccines in preparation for potential pandemic flu outbreaks, as well as cancer, children's, and orphan drugs, and pharmacogenomics. Future activities will address counterfeit

The original agreement, signed in September 2003, paved the way for quarterly exchanges on information on new drug applications, regulatory guidance, and inspections of manufacturing plants, which began in 2004. The agreement also authorized ad hoc exchanges of information on drug safety and public health, including advance notice of significant regulatory actions such as pulling drugs from the market.

Such an exchange prevents other agencies from issuing contradictory advice when one agency takes significant regula-

The ad hoc exchanges also have enabled 'parallel" scientific guidance for drug applicants seeking the advice of the three agencies on how to proceed with research at such milestones as the conclusion of clinical trials. The first such parallel scientific meeting occurred in September 2003, and as part of the initial confidentiality arrangement a 1-year pilot project was initiated in 2005.

The focus of those parallel meetings is breakthrough drugs, those for rare conditions, medication for children, or other new medicines considered important.

The three agencies agreed to extend the pilot project, although the document released by the agencies did not give a time period. A spokesman for the European Commission said the meetings do not guarantee joint scientific advice from the three agencies but give applicants better guidance on how to proceed if they are seeking international drug approvals.

Topicort® (Desoximetasone)

LP Cream 0.05%, Gel 0.05%, and Cream and Ointment 0.25%

DESCRIPTION

Forjoicrt® LP (desoximetasone) Cream 0.05%; Topicort® (desoximetasone) Cream 0.25%; Topicort® (desoximetasone) Gel 0.05%; and Topicort® (desoximetasone) Ointment 0.25% contain the active synthetic coricosteroid desoximetasone. The topical corticosteroids constitute a class of primarily synthetic steroids used as anti-inflammatory and antipruritic agents.

Each gram of Topicort® LP Cream 0.05% contains 0.5 mg of desoximetasone in an emollient cream base onsisting of white petrolatum, purified water, isopropyl myristate, lanolin alcohols, mineral oil, cetostearyl

as an in-finite interval was a first part of the period of

ximelasone has the molecular formula C₂₂H₂₉FO₄ and a molecular weight of 376.47. The CAS stry Number is 382-67-2.

CLINICAL PHARMACOLOGY

harmacokinetics he extent of percutaneous absorption of topical corticosteroids is determined by many factors including the ehicle, the integrity of the epidermal barrier, and the use of occlusive dressings. opical corticosteroids can be absorbed from normal intact skin. Inflammation and/or other disease processis in the skin increase percutaneous absorption. Occlusive dressings substantially increase the percutaeous absorption of topical corticosteroids. Thus, occlusive dressings may be a valuable therapeutic adjunct or treatment of resistant dermatoses.

neous absorption of topical corticosteroids. Thus, occlusive dressings may be a valuable therapeutic adjunct for treatment of resistant dermatoses. Once absorbed through the skin, topical corticosteroids are handled through pharmacokinetic pathways similar to systemically administered corticosteroids. Corticosteroids are bound to plasma proteins in varying degrees. Corticosteroids are metabolized primarily in the liver and are then excreted by the kidneys. Some of the topical corticosteroids and their metabolites are also excreted into the bile. Pharmacokinetic studies in men with Topicorf® (desoximetasone) Cream 0.25% with tagged desoximetasone showed a total of $5.2\% \pm 2.9\%$ excretion in urine $(4.1\% \pm 2.3\%)$ and feces $(1.1\% \pm 0.6\%)$ and no detectable level (limit of sensitivity: $0.005 \, \mu$ g/mL) in the blood when it was applied topically on the back followed by occlusion for 24 hours. Seven days after application, no further radioactivity was detected in urine or feces. The half-life of the material was 15 ± 2 hours (for urine) and 17 ± 2 hours (for feces) between the third and fifth trial day.

DICATIONS AND USAGE icort® LP (desoximetasone) Cream 0.05%; Topicort® (desoximetasone) Cream 0.25%; Topicort® (deso-netasone) Gel 0.05%; and Topicort® (desoximetasone) Ointment 0.25% are indicated for the relief of the immatory and pruritic manifestations of corticosteroid-responsive dermatoses.

WARNINGS
Topicort® LP (desoximetasone) Cream 0.05%; Topicort® (desoximetasone) Cream 0.25%; Topicort® oximetasone) Gel 0.05%; and Topicort® (desoximetasone) Ointment 0.25% are not for ophthalmic use Keep out of reach of children.

PRECAUTIONS

Systemic absorption of topical corticosteroids has produced reversible hypothalamic-pituitary-adrenal (HPA) axis suppression, manifestations of Cushing's syndrome, hyperglycemia, and glucosuria in some patients. Conditions which augment systemic absorption include the application of the more potent steroids, use over large surface areas, prolonged use, and the addition of occlusive dressings.

Therefore, patients receiving a large dose of a potent topical steroid applied to a large surface area or under an occlusive dressing should be evaluated periodically for evidence of HPA axis suppression by using the urinary free cortisol and ACTH stimulation tests. If HPA axis suppression is noted, an attempt should be made to withdraw the drug, to reduce the frequency of application, or to substitute a less potent steroid. Recovery of HPA axis function is generally prompt and complete upon discontinuation of the drug. Infrequently, signs and symptoms of steroid withdrawal may occur, requiring supplemental systemic corticosteroids.

costeroids. Pediatric patients may absorb proportionally larger amounts of topical corticosteroids and thus be more sus-ceptible to systemic toxicity (See **PRECAUTIONS - Pediatric Use**), If irritation develops, topical cortico-steroids should be discontinued and appropriate therapy instituted. In the presence of dermatological infections, the use of an appropriate antifungal or antibacterial agent should be instituted. If a favorable response does not occur promptly, the corticosteroid should be discon-tinued until the infection has been adequately controlled.

- the eyes.

 Patients should be advised not to use this medication for any disorder other than for which it was
- prescribed.

 3. The treated skin area should not be bandaged or otherwise covered or wrapped as to be occlusive unless
- The treated skin area shound not be believed as a children of the physician.

 Patients should report any signs of local adverse reactions, especially under occlusive dressings.

 Parents of pediatric patients should be advised not to use tight-fitting diapers or plastic pants on a child being treated in the diaper area, as these garments may constitute occlusive dressings.

Desoximetasone did not show potential for mutagenic activity *in vitro* in the Ames microbial mutagen test with or without metabolic activation. **Pregnancy. Teratogenic Effects. Pregnancy Category C**Corticosteroids are generally teratogenic in laboratory animals when administered systemically at relatively low dosage levels. The more potent corticosteroids have been shown to be teratogenic after dermal application in laboratory animals. Desoximetasone has been shown to be teratogenic and embryotoxic in mice, rats, and rabbits when given by subcutaneous or dermal routes of administration in doses 3 to 30 times the human dose of Topicort® (desoximetasone) Cream 0.25% or Topicort® (desoximetasone) Ointment 0.25% and 15 to 150 times the human dose of Topicort® LP (desoximetasone) Cream 0.05% or Topicort® (desoximetasone) Gel 0.05%. There are no adequate and well-controlled studies in pregnant women on teratogenic effects from topically applied corticosteroids. Therefore, Topicort® LP Cream 0.05%, Topicort® Cream 0.25%, and Topicort® Ointment 0.25% should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Drugs of this class should not be used extensively on pregnant patients, in large amounts, or for prolonged periods of time. **Nursing Mothers**It is not known whether topical administration of corticosteroids could result in sufficient systemic absorption to produce detectable quantities in breast milk. Systemically administered corticosteroids are secreted into

exercised when topical corticosteroids are administered to a nursing woman.
Pediatric Use
Pediatric patients may demonstrate greater susceptibility to topical corticosteroid-induced
HPA axis suppression and Cushing's syndrome than mature patients because of a larger skin
surface area to body weight ratio.

HPA axis suppression, Cushing's syndrome, and intracranial hypertension have been reported in pediatric
patients receiving topical corticosteroids. Manifestations of adrenal suppression in pediatric patients include
linear growth retardation, delayed weight gain, low plasma cortisol levels, and absence of response to ACTH
stimulation. Manifestations of intracranial hypertension include bulging fontanelles, headaches, and bilateral papilledema.

al papilledema.
Administration of topical corticosteroids to pediatric patients should be limited to the least amount compati-ble with an effective therapeutic regimen. Chronic corticosteroid therapy may interfere with the growth and development of pediatric patients. Safety and effectiveness of Topicort® Ointment in pediatric patients below the age of 10 have not been established.

ADVERSE REACTIONS

rimetasone) Cream 0.05% is supplied in 5 gram tubes for physician samples, 15 gram

(desoximetasone) Gream 0.25% is supplied in 5 gram tubes for physician samples, 15 gram and 60 gram tubes. Topicort[®] (desoximetasone) Gel 0.05% is supplied in 5 gram tubes for physician samples, 15 gram and 60

soximetasone) Ointment 0.25% is supplied in 5 gram tubes for physician samples, 15 gram and att controlled room temperature 15° - 30°C (59° - 86°F).

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