# Antitussive Power

The only 12-hour liquid hydrocodone

12Hour

- No middle-of-the-night or mid-day dosing
  - Contains no iodinated glycerol
  - One of the most economical prescription antitussives <sup>1</sup>
- The most frequently prescribed liquid hydrocodone<sup>2</sup>

Please see following page for Full Prescribing Information, including complete precautionary information.

TUSSIONEX is contraindicated in the presence of known allergy to hydrocodone or chlorpheniramine. The most common adverse reactions are sedation, drowsiness, and mental clouding, which may impair the mental and/or physical abilities required for potentially hazardous tasks, such as driving a car or operating machinery.

Tussionex®

(hydrocodone polistirex Warrander / chlorpheniramine polistirex) Extended-Release Suspension

Each teaspoonful (5 mL) provides the equivalent of 10 mg hydrocodone bitartrate and 8 mg chlorpheniramine maleate.

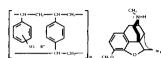
References from previous page; 1. Based on recommended adult maximum dose cited in the 1994 Physician's Desk Reference and 30% markup of the average wholesale price (AWP) cited in the November 1994 Drug Topics Red Book. 2. IMS Prescription Audit, November 1994

### TUSSIONEX® (# Pennkinetic®

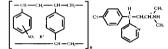
#### (hydrocodone polistirex [Warning: May be habit forming] and chlorpheniramine polistirex) **Extended-Release Suspension**

DESCRIPTION: Each teaspoonful (5 mL) of TUSSIONEX® Pennkinetic® Extended-Release DESCRIPTION: Each (teaspoontul (5 mL) of 1 USSIONEX\* Pennkinetic\* Extended-Release Suspension contains hydrocodone polistirex equivalent to 10 mg of hydrocodone biartrate (Warning: May be habit-forming) and chlorpheniramine polistirex equivalent to 8 mg of chlor-pheniramine maleate. TUSSIONEX Pennkinetic Extended-Release Suspension provides up to 12-hour relief per dose. Hydrocodone is a centrally-acting narcotic antitussive. Chlorpheniramine is an antihistamine. TUSSIONEX Pennkinetic Extended-Release Suspension

is for oral use only. Hydrocodone Polistirex: sulfonated styrene-divinylbenzene copolymer complex with 4,5 α-epoxy-3-methoxy-17-ethylmorphinan-6-one.



Where  $R^+$  = protonated hydrocodone Chlorpheniramine Polistirex: sulfonated styrene-divinylbenzene copolymer complex with 2-[p-chloro-α-[2-(dimethyl-amino)ethyl]-benzyl]pyridine



Where R<sup>+</sup> = protonated chlorpheniramine Other ingredients in TUSSIONEX Pennkinetic Extended-Release Suspension: Ascorbic acid, D&C Yellow No. 10, ethylcellulose, FD&C Yellow No. 6, flavot, high fructose corn syrup, methylparaben, polyethylene glycol 3350, polysorbate 80, pregelatinized starch, propylene glycol, propylparaben, purified water, sucrose, vegetable oil, xanthan gum.

CLINICAL PHARMACOLOGY: Hydrocodone is a semisynthetic narcotic antitussive and analgesic with multiple actions qualitatively similar to those of codeine. The precise mechanism of action of hydrocodone and other opiates is not known; however, hydrocodone is believed to act directly on the cough center. In excessive doses, hydrocodone, like other opium derivatives, will depress respiration. The effects of hydrocodone in therapeutic doses on the cardiovascular system are insignificant. Hydrocodone can produce miosis, euphoria,

on the cardiovascular system are insignificant. Hydrocodone can produce missis, euphoria, physical and psychological dependence. Chlorpheniramine is an arthistamine drug (H<sub>1</sub> receptor antagonist) that also possesses anticholinergic and sedative activity. It prevents released histamine from dilating capillaries and causing edema of the respiratory mucosa. Hydrocodone release from TUSSIONEX Pennkinetic Extended-Release Suspension is controlled by the Pennkinetic<sup>®</sup> System, an extended-release drug delivery system which combines an ion-exchange polymer matrix with a diffusion rate-limiting permeable coating. Chlorpheniramine release is prolonged by use of an ion-exchange polymer system. Follow-ing multiple dosing with TUSSIONEX Pennkinetic Extended-Release Suspension, hydrocodone mean (S.D.) peak plasma concentrations of 52.4 (14.7) ng/mL occurred at 6.3 hours following multiple dosing. Peak plasma levels obtained with an immediate-release syrup occurred at approximately 1.5 hours for hydrocodone and 2.8 hours for chlorpheniramine. The plasma half-lives of hydrocodone and chlorpheniramine have been reported to be approximately 4 and 16 hours, respectively.

INDICATIONS AND USAGE: TUSSIONEX Pennkinetic Extended-Release Suspension is indicated for relief of cough and upper respiratory symptoms associated with allergy or a cold. CONTRAINDICATIONS: Known allergy or sensitivity to hydrocodone or chlorpheniramine. WARNINGS

Respiratory Depression: As with all narcotics, TUSSIONEX Pennkinetic Extended-Release Respiratory Depression: As with all narcotics, TUSSIONEX Pennkinetic Extended-Release Suspension produces dose-related respiratory depression by directly acting on brain stem respiratory centers. Hydrocodone affects the center that controls respiratory thythm, and may produce irregular and periodic breathing. Caution should be exercised when TUSSIONEX Pennkinetic Extended-Release Suspension is used postoperatively and in patients with pulmonary disease or whenever ventilatory function is depressed. If respiratory depression occurs, it may be antagonized by the use of naloxone hydrochloride and other supportive measures when indicated (see OVERDOSAGE).

Head Injury and Increased Intracranial Pressure: The respiratory depressant effects of narcotics and their capacity to clevate cerebrospinal fluid pressure may be markedly exaggerated in the presence of head injury, other intracranial lesions or a pre-existing increase in intracranial pressure. Furthermore, narcotics produce adverse reactions which may obscure the clinical course of patients with head injuries.

Acute Abdominal Conditions: The administration of narcotics may obscure the diagnosis or clinical course of patients with acute abdominal conditions.

Obstructive Bowel Disease: Chronic use of narcotics may result in obstructive bowel disease especially in patients with underlying intestinal motility disorder.

Pediatric Use: In young children, as well as adults, the respiratory center is sensitive to the depressant action of narcotic cough suppressants in a dose-dependent manner. Benefit to risk ratio should be carefully considered especially in children with respiratory embarrass-ment (e.g., croup). (See PRECAUTIONS.)

PRECAUTIONS: General: Caution is advised when prescribing this drug to patients with

PRE-NO FIONS: General: Caution is advised when prescribing this drug to patients with narrow-angle glaucoma, asthma or prostatic hypertrophy. Special Risk Patients: As with any narcotic agent, TUSSIONEX Pennkinetic Extended-Release Suspension should be used with caution in elderly or debilitated patients and those with severe impairment of hepatic or renal function, hypothyroidism, Addison's disease, prostatic hypertrophy or urethral stricture. The usual precautions should be observed and the possibility of respiratory depression should be kept in mind.

Information for Patients: As with all narcotics, TUSSIONEX Pennkinetic Extended-Release Information for Patients: As with all narcotics, I USSIONEX Pennkinetic Extended-Release Suspension may produce marked drowsiness and impair the mental and/or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery; patients should be cautioned accordingly. TUSSIONEX Pennkinetic Extended-Release Suspension must not be diluted with fluids or mixed with other drugs as this may alter the resin-binding and change the absorption tate, possibly increasing the toxicity. Keep out of the reach of children.

Cough Reflex: Hydrocodone suppresses the cough reflex; as with all narcotics, caution should be exercised when TUSSIONEX Pennkinetic Extended Release Suspension is used post-operatively, and in patients with pulmonary disease.

Drug Interactions: Patients receiving narcotics, antihistamines, antipsychotics, antianxiety agents or other CNS depressants (including alcohol) concomitantly with TUSSIONEX Pennkinetic Extended Release Suspension may exhibit an additive CNS depression. When combined therapy is contemplated, the dose of one or both agents should be reduced. The use of MAO inhibitors or tricyclic antidepressants with hydrocodone preparations may increase the effect of either the antidepressant or hydrocodone.

The concurrent use of other anticholinergics with hydrocodone may produce paralytic ileus.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenicity, mutagenicity and reproductive studies have not been conducted with TUSSIONEX Pennkinetic Extended-Release Suspension.

#### Pregnancy

Terratogenic Effects — Pregnancy Category C: Hydrocodone has been shown to be teratogenic in hamsters when given in doses 700 times the human dose. There are no adequate and well-controlled studies in pregnant women. TUSSIONEX Pennkinetic Extended-Release Suspension should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

Nonteratogenic Effects: Babies born to mothers who have been taking opioids regularly prior to delivery will be physically dependent. The withdrawal signs include irritability and excessive crying, tremors, hyperactive reflexes, increased respiratory rate, increased stools, sneezing, yawning, vomiting and fever. The intensity of the syndrome does not always correlate with the duration of maternal opioid use or dose.

Labor and Delivery: As with all narcotics, administration of TUSSIQNEX Pennkinetic, Extended-Release Suspension to the mother shortly before delivery may result in some degree of respiratory depression in the newborn, especially if higher doses are used.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from TUSSIONEX Pennkinetic Extended-Release Suspension, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use: Safety and effectiveness of TUSSIONEX Pennkinetic Extended-Release Suspen-sion in children under six have not been established.

ADVERSE REACTIONS: Central Nervous System: Sedation, drowsiness, mental clouding, lethargy, impairment of mental and physical performance, anxiety, fear, dysphoria, euphoria, dizziness, psychic dependence, mood changes.

Dermatologic System: Rash, pruritus.

Gastrointestinal System: Nausea and vomiting may occur; they are more frequent in am-bulatory than in recumbent patients. Prolonged administration of TUSSIONEX Pennkinetic Extended-Release Suspension may produce constipation.

Genitourinary System: Ureteral spasm, spasm of vesicle sphincters and urinary retention have been reported with opiates.

Respiratory Depression: TUSIONEX Pennkinetic Extended-Release Suspension may produce dose-related respiratory depression by acting directly on brain stem respiratory centers (see OVERDOSAGE).

Respiratory System: Dryness of the pharynx, occasional tightness of the chest.

DRUG ABUSE AND DEPENDENCE: TUSSIONEX Pennkinetic Extended Release Suspension DRUG ABUSE AND DEPENDENCE: TUSSIONEX PERINKINELIC EXENDED exercises Suspension is a Schedule III narcottic. Psychic dependence, physical dependence and tolerance may develop upon repeated administration of narcotics; therefore, TUSSIONEX Pennkinetic Extended Release Suspension should be prescribed and administered with caution. However, psychic dependence is unlikely to develop when TUSSIONEX Pennkinetic Extended Release Suspension is used for a short time for the treatment of cough. Physical dependence, the condition in which continued administration of the drug is required to prevent the appendence, the of a withdrawal syndrome, assumes clinically significant proportions only after several weeks of continued oral narcotic use, although some mild degree of physical dependence may develop after a few days of narcotic therapy.

OVERDOSAGE: Signs and Symptoms: Serious overdosage with hydrocodone is character-ized by respiratory depression (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, and sometimes bradycardia and hypotension. Although misois is characteristic of narcotic overdose, mydriais may occur in terminal narcosis or severe hypoxia. In severe overdosage apnea, circulatory collapse, cardiac arrest and death may occur. The manifestations of chlorpheniramine overdosage may vary from central nervous system depression to stimulation.

Treatment: Primary attention should be given to the reestablishment of adequate respiratory Treatment: Primary attention should be given to the reestablishment of adequate respiratory exchange through provision of a patent airway and the institution of assisted or controlled ventilation. The narcotic antagonist naloxone hydrochloride is a specific antidote for respiratory depression which may result from overdosage or unusual sensitivity to narcotics including hydrocodone. Therefore, an appropriate dose of naloxone hydrochloride should be administered, preferably by the intravenous route, simultaneously with efforts, at respiratory resuscitation. Since the duration of action of hydrocodone in this formulation may exceed that of the antagonist, the patient should be kept under continued surveillance and repeated doses of the antagonist should be administered as needed to maintain adequate respiratory for further information, see full prescribing information for naloxone hydrochloride. An antag-onist should not be administered in the absence of clinically significant respiratory depres-sion. Oxyveen, intravenous fluids, vasooressors and other supportive measures should be sion. Oxygen, intravenous fluids, vasopressors and other supportive measures should be employed as indicated. Gastric emptying may be useful in removing unabsorbed drug.

DOSAGE AND ADMINISTRATION: Shake well before using Adults: 1 teaspoonful (5 mL) every 12 hours; do not exceed 2 teaspoonfuls in 24 hours. Children 6-12: 1/2 teaspoonful every 12 hours; do not exceed 1 teaspoonful in 24 hours. Not recommended for children under 6 years of age (see PRECAUTIONS).

HOW SUPPLIED: TUSSIONEX Pennkinetic (hydrocodone polistirex and chlorpheniramine polistirex) Extended Release Suspension is a gold-colored suspension available in bottles of one pint (473 mL) (NDC 0585-0548-67) and 900 mL (NDC 0585-0548-91).

Shake well. Dispense in a well-closed container. Store at 59°-86° F (15°-30° C).

Caution: Federal law prohibits dispensing without prescription. RF240B Rev. 1/92

©Fisons Corporation 1992 Tussionex and Pennkinetic are registered trademarks of Fisons BV.



©1995 Fisons Corporation

# **Information to share**

Authorized reprints are the convenient way to provide students or colleagues with important articles.

### We take care of all the work

When you have an educational use for an original article from JAMA: The Journal of the American Medical Association or the Archives journals, save the time and effort of obtaining permissions, organizing and copying. Just place an order to purchase authorized reprints of original articles. Reprints will be delivered ready for distribution in the classroom, at seminars and conferences, or to your colleagues in medicine.

### Quality, fully-authorized reprints

Printed in black ink on glossy, high-quality paper, reprints reproduce the original article as it first appeared in JAMA or the Archives. Reprints measure 8 x 10 3/4 inches (205 x 275 mm), and include full credit information. Reprints are available for purchase in any quantity of 300 or more. Service is also available for articles with color photographs, charts, and illustrations. Optional features include 3-hole punches and shrink-wrapping. For other special requirements, contact the Reprints Coordinator at the address below.



Ĩ.,

JAMA: The Journal of the American Medical Association • Archives of Dermatology • Archives of Family Medicine • Archives of General Psychiatry Archives of Internal Medicine • Archives of Neurology • Archives of Ophthalmology • Archives of Otolaryngology-Head & Neck Surgery Archives of Pathology & Laboratory Medicine • Archives of Pediatrics & Adolescent Medicine • Archives of Surgery

### For more information...

□ Please send me information on purchasing authorized educational reprints in bulk for articles published in JAMA: The Journal of the American Medical Association and the Archives journals.

Name			
	r Organization		
Address _			
	tal Code		
FAX			
Mail to:	Reprints Coordinator	American Medical Association	A CONSTRUCTION OF THE REAL
	515 North State Street	Physicians dedicated to the health of America	A SNOLLAND
	Chicago, IL 60610 USA		
	Tel: 1-312-464-2512 FAX: 1-312-464-5831		

### FAMILY MEDICINE

ARCHIVES

The ARCHIVES OF FAMILY MEDICINE is a member of the consortium of AMA journals listed below. The ARCHIVES reaches more than 81 500 readers in family and general practice each month, in addition to paid subscribers. The complete text of all AMA journals is available online from Dialog Information Services and Information Access Company.

The Journal of the American Medical Association (JAMA) Archives of Dermatology Archives of Family Medicine Archives of General Psychiatry Archives of Internal Medicine Archives of Neurology Archives of Ophthalmology Archives of Otolaryngology-Head & Neck Surgery Archives of Pediatrics & Adolescent Medicine Archives of Surgery

The ARCHIVES OF FAMILY MEDICINE (ISSN 1063-3987) is published monthly by the American Medical Association, 515 N State St, Chicago, IL 60610, and is an official publication of the Association. Second-class postage rates paid at Chicago and at additional mailing office. GST registration number R126 225 556. Canada Post International Publications Mail (Canadian Distribution) Sales Agreement No. 319600. Printed in the USA

SUBSCRIPTION RATES-The subscription rates for the ARCHIVES OF FAMILY MEDICINE are as follows: \$95 for 1 year, \$190 for 2 years in the United States and US possessions; in the Americas, 1 year, \$130, 2 years, \$260; the rest of the world, 1 year, £90, 2 years, £180. The institution rates are as follows: \$105 for 1 year, \$210 for 2 years in the United States and US possessions; in the Americas, 1 year, \$140, 2 years, \$280; the rest of the world, 1 year, £97, 2 years, £194. Rates for subscriptions for delivery to Japan are available through our exclusive agents contact the publisher. Special rates for residents and medical students in the United States and US possessions are available. Address inquiries to Subscriber Services Center, American Medical Association, PO Box 10945, Chicago, IL 60610. Phone: (800) 262-2350. Fax: (312) 464-5831. For mailing addresses outside the United States and US possessions, see International Subscription Information.

CHANGE OF ADDRESS-POSTMASTER, send all address changes to ARCHIVES OF FAMILY MEDICINE, c/o Subscriber Services, American Medical Association, 515 N State St, Chicago, IL 60610. Please notify us of address change at

least 6 weeks in advance to ensure uninterrupted service. Include both old and new addresses, a recent mailing label, and new ZIP code. For mailing addresses outside the US and US possessions, see International Subscription Information.

SUBSCRIBER SERVICES-For information about subscribing to any of the AMA publications, change of address, missing issues, or purchasing back issues, please contact Subscriber Services Center, American Medical Association, PO Box 10945, Chicago, IL 60610, or call (312) 670-SUBS (670-7827) between 8:30 AM and 4:30 PM CST. Fax: (312) 464-5831. For mailing addresses outside the US and US possessions, see International Subscription Information.

INTERNATIONAL SUBSCRIPTION INFORMATION-Subscriptions outside the United States and US possessions are served according to geographic region. Please address correspondence to the following two offices based on delivery address: 1) For delivery in North America, Central America, and South America, contact Subscriber Services Center, AMA, PO Box 10945, Chicago, IL 60610, USA. Phone: 1-312-760-7827. Fax: 1-312-464-5831; 2) For delivery outside the Americas, contact JAMA & Archives Journals Reader Services Centre, PO Box 299, London, England WC1H 9TD. Phone: 44-(0)71-383 6270. Fax: 44-(0)71-383 6402.

REPRINTS-Authors place their reprint order at the time the edited typescript is reviewed and should allow 4 to 6 weeks for delivery following publication. Requests for individual reprints should be sent directly to the author at the address shown in the article.

For bulk reprint orders for commercial distribution, please contact Mark Kuhns, 600 Third Ave, New York, NY 10016. Phone: (212) 867-6640. Fax: (212) 953-2497. For reprint orders in limited quantities for educational distribution, please contact Rita Houston, 515 N State St, Chicago, IL 60610. Phone: (312) 464-2512, Fax: (312) 464-5835.

PERMISSIONS-Contact Laslo Hunyady, Permissions Assistant, 515 N State St, Chicago, IL 60610. Phone: (312) 464-2513.

ADVERTISING PRINCIPLES-Each advertisement in this issue has been reviewed and complies with the principles governing advertising in AMA scientific publications. A copy of these principles is available on request. The appearance of advertising in AMA publications is not an AMA guarantee or endorsement of the product or the claims made for the product by the manufacturer.

**Publication Staff** Offices: 515 N State St Chicago, IL 60610

Editorial Processing Department, Specialty Journals

Director: Paula Glitman Manager: Barbara J. Clark Freelance Manager: Vickey Golden Assistant Freelance Coordinator: Diane L. Cannon Senior Copy Editor/Atex Specialist: Paul Frank **Copy Editors:** Gwen Chaffen Mary E. Coerver Vonda L. Meltesen

Manuscript Records Clerk: Tonja Glover

Specialty Journal Division Office

Administrative Assistant: Marla Hall

### AMP

### Publishing Operations Division Assistant Division Director:

Mary C. Steermann

Manager, Budgets & Costs: Bonnie Van Cleven Office Manager: Karen Branham

Production Assistants: Valerie Balkcom Barbara Young

Advertising & Production Department

Director: Vanessa Hayden Paper & Planning: Diane Darnell Manager, Advertising Services: Carole Piszker

Manager, Production Services: Susan Price

Production Associates: Karen Adams-Taylor Betty Frigerio Anita lackson Debbie Pogorzelski Sarah Powell Jennifer Reiling Christine M. Wagenknecht E. Ruth White

**Production Assistant:** 

Jo Anne Turner

#### Director: Jaye Matthews **Electronic Production Supervisor:** Linda Knott **Electronic Production Operators:** Gail Barrett Brenda Chandler-Haynes Michael L. Culbert Mary Ann Kuranda Sandra Lopez **Graphics Manager:** Charl Richey-Davis **Graphics Operators:** Regina Vander Reyden JoAnne Weiskopf Alicja Wojcik Manager, Proofreading: Teresa H. Omiotek Proofreaders: David Antos Brenda J. Gregoline Daniel lames Mary Kay Tinerella **Production Assistant:** Melanie Parenti

**Electronic Production Department** 

Distribution Distribution Manager: Paul Gasiecki

Database & New Media

Electronic Coordinator: Mary Ellen Johnston

Database Assistant: Peter Watkins

**Circulation Processing Department** Director: Beverly Martin

**Circulation Development Department** Director: Ann Westerbeke

Licensing & Permissions Department

Director: Norman Frankel Permissions: Laslo Hunyady

#### Reprints

Reprint Coordinator: Joseph Rekash



# THE ENDURANCE OF 8-12 HOUR DOSING.

What a

THE

# DLERABILIT

THAT'S COMPARABLE TO IBUPROFEN AND EVEN ACETAMINOPHEN.

# AND ACTIVITY OF NAPROXEN SODIUM.



A MORE COMPLETE OTC ANALGESIC.

©1995 Procter-Syntex Health Products Company VAR0043

VOL 4 NO. 4, APRIL 1995

ARCHIVES

FAMILY MEDICINE

Special Selection		Editorials	
<b>Otolaryngology Case of the Month</b> Andrew B. Silva, MD; Andrew Hotaling, MD; Wasim Raslan, MD	297	<b>Prostate Cancer Screening</b> Ian M. Thompson, MD	307
Living in Medicine		<b>Lessons From Quantifying Futility</b> Lee Green, MD, MPH	308
Eroica John Graham-Pole, MD, MRCP	300	<b>Israeli Physical Activity Study</b> W. Ross Lawler, MD	309
Letters to the Editor		Original Contributions	
<b>Use and Effectiveness of Transdermal</b> <b>Nicotine in Primary Care Settings</b> Douglas R. White, MD	304	Use of Prostate-Specific Antigen for Prostate Cancer Screening in Primary Care Practice Robert B. Williams, MD; Myde Boles, PhD; Robert E. Johnson, PhD	311
<b>In Reply</b> K. Michael Cummings, MPH, PhD; Michael A. Zevon, PhD; Carlos R. Jaén, MD, PhD	304	Prostate Cancer Screening: What Family Physicians Believe Is Best	317
Screening for Cobalamin Deficiency Eric J. Norman, PhD	304	Ronald J. Hicks, MD; Robert M. Hamm, PhD; Debra A. Bemben, PhD	
In Reply	305		

Yulin Yao, MD

### **American Medical Association**

Physicians dedicated to the health of America



Copyright 1995 by the American Medical Association. All rights reserved. Reproduction without permission is prohibited.

All articles published, including editorials, letters, and book reviews, represent the opinions of the authors and do not reflect the policy of the American Medical Association, the Editorial Board, or the institution with which the author is affiliated, unless this is clearly specified.

James S. Todd, MD Executive Vice President Kenneth E. Monroe Deputy Executive Vice President Larry E. Joyce President, Publishing and Multimedia Development George D. Lundberg, MD Editor-in-Chief, Scientific Publications Robert L. Kennett Vice President, Publishing Michael D. Springer Publisher Nawin Gupta, PhD Director, Publishing Operations Division **Cheryl Iverson** Director, Editorial Processing Division

Peter L. Payerli Director, Advertising Sales Geoffrey A. Flick Manager, Marketing Services

Advertising Offices: East: Phillip B. Altamore, Donald M. Blatherwick, John L. Reeves, 600 Third Ave, Suite 3700, New York, NY 10016 (212) 867-6640. Diagnostics/Devices: M. J. Mrvica Associates, 155 S White Horse Pike, Berlin, NJ 08009; (609) 768-9360. Midwest/Far West: John P. Cahill, 515 N State St, Chicago, IL 60610 (312) 464-2470. AMA Physician Recruitment Advertising Department: Carri Lynch, Supervisor, 800-262-2260.

ARCH FAM MED/VOL 4, APR 1995 289

## Give allergic noses relief for itchy eyes due to seasonal allergic conjunctivitis.

When seasonal allergies strike, it's not just the nose they ambush. The eyes are fair game, too. In fact, 8 out of 10 patients with allergic noses also suffer from itchy eyes<sup>1</sup> due to seasonal allergic conjunctivitis. Stop the itch with ACULAR<sup>®</sup> Solution.

In a recent survey (n=272), the vast majority of responding patients confirmed that ACULAR\* stopped their ocular itching quickly and effectively.<sup>2</sup> Plus, ACULAR\* has a favorable safety profile. There are no steroid-like side effects that can alter intraocular pressure, and no decongestant-like side effects, i.e., no risk to patients \* with narrow chamber angles.

So help rescue eyes from itching with ACULAR<sup>®</sup> the #1 prescribed ophthalmic preparation<sup>3</sup> for the #1 patient complaint of seasonal allergic conjunctivitis — ocular itch. Because annoying antigens prey on more than just the nose.

The most frequently reported adverse events have been transient stinging and burning on instillation (approximately 40%). Not for use while wearing soft contact lenses.

©1995 Allergan, Inc. Irvine, CA 92715 FISONS Pharmaceuticats Fisons Corporation Rochester, NY 14623 U.S.A. (ketorolac tromethamine) 0.5% Sterile Ophthalmic Solution

Please see adjacent page for prescribing information.

### ACULAR<sup>®</sup> (ketorolac tromethamine) 0.5% Sterile Ophthalmic Solution

### INDICATIONS AND USAGE

ACULAR® ophthalmic solution is indicated for the relief of ocular itching due to seasonal allergic conjunctivitis.

### CONTRAINDICATIONS

ACULAR® ophthalmic solution is contraindicated in patients while wearing soft contact lenses and in patients with previously demonstrated hypersensitivity to any of the ingredients in the formulation.

### WARNINGS

There is the potential for cross-sensitivity to acetylsalicylic acid, phenylacetic acid derivatives, and other nonsteroidal anti-inflammatory agents. Therefore, caution should be used when treating individuals who have previously exhibited sensitivities to these drugs.

With some nonsteroidal anti-inflammatory drugs, there exists the potential for increased bleeding time due to interference with thrombocyte aggregation. There have been reports that ocularly applied nonsteroidal anti-inflammatory drugs may cause increased bleeding of ocular tissues (including hyphemas) in conjunction with ocular surgery.

### PRECAUTIONS

General: It is recommended that ACULAR® ophthalmic solution be used with caution in patients with known bleeding tendencies or who are receiving other medications which may prolong bleeding time.

**Carcinogenesis, Mutagenesis, and Impairment of Fertility:** An 18month study in mice at oral doses of ketorolac tromethamine equal to the parenteral MRHD (Maximum Recommended Human Dose) and a 24-month study in rats at oral doses 2.5 times the parenteral MRHD, showed no evidence of tumorigenicity. Ketorolac tromethamine was not mutagenic in Ames test, unscheduled DNA synthesis and repair, and in forward mutation assays. Ketorolac did not cause chromosome breakage in the *in vivo* mouse micronucleus assay. At 1590 ug/mL (approximately 1000 times the average human plasma levels) and at higher concentrations ketorolac tromethamine increased the incidence of chromosomal aberrations in Chinese hamster ovarian cells. Impairment of fertility did not occurin male or female rats at oral doses of 9 mg/kg (53.1 mg/m<sup>2</sup>) and 16 mg/kg (94.4 mg/m<sup>2</sup>) respectively.

Pregnancy: Pregnancy Category C. Reproduction studies have been performed in rabbits, using daily oral doses at 3.6 mg/kg (42.35 mg/m<sup>2</sup>) and in rats at 10 mg/kg (59 mg/m<sup>2</sup>) during organogenesis. Results of these studies did not reveal evidence of teratogenicity to the fetus. Oral doses of ketorolac tromethamine at 1.5 mg/kg (8.8 mg/m<sup>2</sup>), which was half of the human oral exposure, administered after gestation day 17 caused dystocia and higher pup mortality in rats. There are no adequate and well-controlled studies in pregnant women. Ketorolac tromethamine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers: Caution should be exercised when ACULAR\* is administered to a nursing woman.

Pediatric Use: Safety and efficacy in children have not been established. ADVERSE REACTIONS

In patients with allergic conjunctivitis, the most frequent adverse events reported with the use of ACULAR® ophthalmic solution have been transient stinging and burning on instillation. These events were reported by approximately 40% of patients treated with ACULAR® ophthalmic solution. In all development studies conducted, other adverse events reported during treatment with ACULAR® include ocular irritation (3%), allergic reactions (3%), superficial ocular infections (0.5%) and superficial keratitis (1%).

ACULAR®, a registered trademark of Syntex (U.S.A.) Inc, is manufactured and distributed by Allergan, Inc. under license from its developer, Syntex (U.S.A.) Inc., Palo Alto, California, U.S.A.

REFERENCES: 1. Data on file, Fisons Corporation, 1985. 2. Data on file, Allergan, Inc., 1994. 3. IMS Data, December, 1994.



Fisons Corporation Rochester, NY 14623 U.S.A.



ARCHIV

MD, MPA. Professor and chair, Department of Family and Community Medicine, Bowman Gray School of Medicine, Wake Forest University. Elected to the Institute of Medicine in 1993. Editor, Archives of Family Medicine.

Remember the face.

## The New Face of Family Medicine

Comprehensive physician. Decision maker. Care giver. Patient advocate. Leader.

Family medicine has a new face and the clinical journal the specialty demands — *Archives of Family Medicine.* Peer reviewed, cutting-edge, primary source material. Easily read. Immediately applicable to daily practice.

For subscriber information, call toll free: 800-AMA-2350.



American Medical Association Physicians dedicated to the health of America



## Medicode's ICD-9-CM is a superbook for superbills.

New for 1995: Medicode is grouping *ICD-9-CM* codes by specialty to help you create your superbills. Medicode produced this innovative and time-saving format because their *ICD-9-CM* is produced by coders for coders. That's why Medicode's *1995 Color-Coded ICD-9-CM* is such an effective tool. It's designed by the very people who use it.

### Medicode 1995 Color-Coded ICD-9-CM

Convenient spiral binding,  $8 \frac{1}{2} \ge 11^{\circ}$ , with easy-toread type on high-quality paper. User-friendly features include:

- designated fourth and fifth digits for complete coding
- spiral binding and thumb indexing
- self-evaluation tests and instructions
- definitions for ICD-9-CM conventions and punctuations
- clinical scenarios explaining common coding problems

You'll find it one of the easiest code books in your collection.

Medicode 1995 Color-Coded ICD-9-CM Order #: OP052595NQ AMA member price: \$47.95 Nonmember price: \$59.95

182

MEDICODE

### To order, call toll free 800 621-8335

MasterCard, VISA, American Express, and Optima accepted. State sales taxes and shipping/handling charges apply.

Order today!

### American Medical Association

Physicians dedicated to the health of America



### LIVING IN MEDICINE

### Eroica

Teenagers die hard. Their youth and power and beauty hang so though they will never lead the pack nor graduate.

Their feet will still beat to rap songs and rock songs as they flail at life, flash then dim like stars—their idols;

and their cavities fill and their blood counts jump and their muscles fail

and their culverts stop forever.

- Then most fall silent, have lost the voice to
- scream: Why me, why me? into the waiting air.
- But puberty and death don't lie like lovers together.
- And there are some who hang there, some
- rebels, mutinous, hot, and high on ramparts:

See this one: grunting her last gasp behind her lipstick gash behind her O<sub>2</sub> mask,

her painted fingerpoints entwining flares of light within her boyfriend's fingers.

And this one, who won't die, won't die: bleeding, decaying, defying, demanding one more of our experiments

in renewing vital things.

John Graham-Pole, MD, MRCP University of Florida College of Medicine Gainesville

# Only in JAMA . . .

Theme issues concentrate on critical issues in medicine today. Recently, JAMA: The Journal of the American Medical Association has explored these pertinent health topics, always from a clinical perspective and frequently in the full context of the social, economic, and political factors that affect them:

Genetics and Molecular Medicine
Perioperative Myocardial Ischemia
Immunization
Tobacco
Medical Education
HIV/AIDS
Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiac Care
Human Rights and Humanitarian Assistance
Violence
Mental Health
Allergic and Immunologic Diseases

Plus, each year JAMA publishes its important CONTEMPO issue. This valuable issue highlights the latest developments in over 40 key medical specialities...

> Don't miss a single issue. For important scientific medical information you cannot afford to miss, subscribe to JAMA today for only \$120.

Call toll-free 1-800-AMA-2350

# AQ Comfort and QD Convenience...

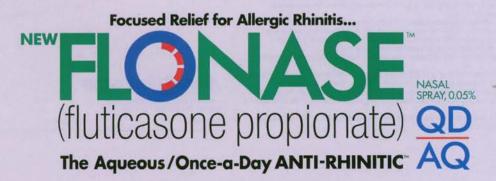
## Just One Nasal Steroid Has Both: **NEW FLONASE** (fluticasone propionate)

- A first-line therapy for management of seasonal and perennial allergic rhinitis in patients 12 years and older – not indicated for nonallergic rhinitis.
- Relief of nasal symptoms may begin within 12 hours.
- Maximum benefit may take several days. Onset of action and degree of relief may vary in individual patients.



- Effectiveness depends on regular use.
- Side effects occurring at >1% (causal relationship possible) included epistaxis and nasal burning (3% to 6%) and nasal irritation, headache, and pharyngitis (1% to 3%).

Please consult Brief Summary of Prescribing Information on adjacent page.



#### **Flonase**<sup>™</sup> (fluticasone propionate) Nasal Spray, 0.05% w/w

#### For Intranasal Use Only

SHAKE GENTLY **BEFORE USE** 

The following is a brief summary only. Before prescribing, see complete prescribing information in Flonase<sup>114</sup> Nasal Spray product labeling.

CONTRAINDICATIONS: Flonase<sup>™</sup> Nasal Spray is contraindicated in patients with a hypersensitivity to any its ingredient

WARNINGS: The replacement of a systemic glucocorticoid with a topical glucocorticoid can be accompanied by signs of adrenal insufficiency, and in addition some patients may experience symptoms of with-drawai, e.g., joint and/or muscular pain, lassitude, and depression. Patients previously treated for prolonged periods with systemic glucocorticoids and transferred to topical glucocorticoids should be carefully moni tored for acute adrenal insufficiency in response to stress. In those patients who have asthma or other clin-ical conditions requiring long-term systemic glucocorticoid treatment, too rapid a decrease in systemic glucocorticoids may cause a severe exacerbation of their symptoms. The use of Flonase™ Nasal Spray with alternate-day systemic prednisone could increase the likelihood

of hypothalamic-pituitary-adrenal (HPA) suppression compared with a therapeutic dose of either one alone. Therefore, Flonase Nasal Spray should be used with caution in patients already receiving alternate-day prednisone treatment for any disease. In addition, the concomitant use of Flonase Nasal Spray with other inhaled glucocorticoids could increase the risk of signs or symptoms of hypercorticism and/or suppression of the HPA axis

Patients who are on immunosuppressant drugs are more susceptible to infections than healthy individuals. Chickenpox and measles, for example, can have a more serious or even fatal course in patients on immunosuppressant doses of corticosteroids. In such patients who have not had these diseases, particular care should be taken to avoid exposure. How the dose, route, and duration of corticosteroid administration affects the risk of developing a disseminated infection is not known. The contribution of the underlying disarects the has on developing a disseminated mection is not known. The contribution of the underlying dis-ease and/or prior corticosteroid treatment to the risk is also not known. If exposed to chickenpox, prophy-laxis with varicella zoster immune globulin (VZIG) may be indicated. If exposed to measles, prophylaxis with pooled intramuscular immunoglobulin (IG) may be indicated. (See the respective package inserts for com-plete VZIG and IG prescribing information). If chickenpox develops, treatment with antiviral agents may be considered

#### PRECAUTIONS:

General: Rarely, immediate hypersensitivity reactions or contact dermatitis may occur after the intranasal administration of fluticasone propionate. Rare instances of wheezing, nasal septum perforation, cataracts, glaucoma, and increased intraocular pressure have been reported following the intranasal application of glucocorticoids. Use of excessive doses of glucocorticoids may lead to signs or symptoms of hypercorticism, suppression

Use of excessive doses of glucocorricoids may lead to signs or symptoms of hypercorticism, suppression of growth in children or teenagers. Knemometry studies in astimmatic children on orally inhaled glucocorticoids showed inhibitory effects on short-term growth rate. The relation-ship between short-term changes in lower leg growth and long-term effects on growth is unclear at this time. Physicians should closely follow the growth of dolescents taking glucocorticoids, by any route, and weigh the benefits of glucocorticoid therapy against the possibility of growth suppression if an adolescent's with appears slowed.

Although systemic effects have been minimal with recommended doses of Flonase™ Nasal Spray, potential risk increases with larger doses. Therefore, larger than recommended doses of Flonase Nasa Sorav should be avoided.

When used at larger doses, systemic glucocorticoid effects such as hypercorticism and adrenal suppression may appear. If such changes occur, the dosage of Flonase Nasal Spray should be discontinued slowly consistent with accepted procedures for discontinuing oral glucocorticoid therapy.

In clinical studies with fluticasone propionate administered intranasally, the development of localized infections of the nose and pharynx with Candida albicans has occurred only rarely. When such an infection develops, it may require treatment with appropriate local therapy and discontinuation of treatment with Fonase Nasal Spray. Patients using Flonase Nasal Spray over several months or longer should be exam-ined periodically for evidence of *Candida* infection or other signs of adverse effects on the nasal mucosa. Flonase Nasal Spray should be used with caution, if at all, in patients with active or quiescent tubercu-

Dous infections; untreated fungal, bacterial, or systemic viral infections; or ocular herpes simplex. Because of the inhibitory effect of glucocorticoids on wound healing, patients who have experienced récent nasal septal ulcers, nasal surgery, or nasal trauma should not use a nasal glucocorticoid until heal-

ing has occurred. Information for Patients: Patients being treated with Flonase Nasal Spray should receive the following information and instructions. This information is intended to aid them in the safe and effective use of this medication. It is not a disclosure of all possible adverse or intended effects.

Patients should be warned to avoid exposure to chickenpox or measles and, if exposed, to consult their physician without delay.

Patients should use Flonase Nasal Spray at regular intervals as directed since its effectiveness depends on its regular use. A decrease in nasal symptoms may occur as soon as 12 hours after starting therapy with Flonase Nasal Spray. Results in several clinical trials indicate statistically significant improvement within the first day or two of treatment; however, the full benefit of Flonase Nasal Spray may not be achieved until treatment has been administered for several days. The patient should not increase the prescribed dosage but should contact the physician if symptoms do not improve or if the condition worsens For the proper use of the nasal spray and to attain maximum improvement, the patient should read and fol-low carefully the patient's instructions accompanying the product.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Fluticasone propionate demonstrated no tumori-genic potential in studies of oral doses up to 1.0 mg/kg (3 mg/m<sup>2</sup> as calculated on a surface area basis) for 78 weeks in the mouse or inhalation of up to 57 mcg/kg (336 mcg/m<sup>2</sup>) for 104 weeks in the rat

Fluticasone propionate did not induce gene mutation in prokaryotic or eukaryotic cells in vitro. No signif-icant clastogenic effect was seen in cultured human peripheral lymphocytes in vitro or in the mouse micronucleus test when administered at high doses by the oral or subcutaneous routes. Furthermore, the compound did not delay erythroblast division in bone marrow.

No evidence of impairment of fertility was observed in reproductive studies conducted in rats dosed subcutaneously with doses up to 50 mcg/kg (295 mcg/m²) in males and females. However, prostate weight was significantly reduced in rats.

Pregnancy: Teratogenic Effects: Pregnancy Category C: Subcutaneous studies in the mouse and rat at 45 and 100 mcg/kg, respectively (135 and 590 mcg/m<sup>2</sup>, respectively, as calculated on a surface area basis), revealed fetal toxicity characteristic of potent glucoborticoid compounds, including embryonic growth retardation, omphalocele, cleft palate, and retarded cranial ossification. In the rabbit, fetal weight reduction and cleft palate were observed following subcutaneous doses of 4

mcg/kg (48 mcg/m<sup>2</sup>)

However, following oral administration of up to 300 mcg/kg (3.6 mg/m<sup>2</sup>) of fluticasone propionate to the rabbit, there were no maternal effects nor increased incidence of external, visceral, or skeletal fetal defects. No fluticasone propionate was detected in the plasma in this study, consistent with the established low bioavailability following oral administration (see CLINICAL PHARMACOLOGY section of the full prescribing information)

Less than 0.008% of the dose crosses the placenta following oral administration to rats (100 mcg/kg, 590 mcg/m<sup>2</sup>) or rabbits (300 mcg/kg, 3.6 mg/m<sup>2</sup>).

There are no adequate and well-controlled studies in pregnant women. Fluticasone propionate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Experience with oral glucocorticoids since their introduction in pharmacologic, as opposed to physiologic, doses suggests that rodents are more prone to teratogenic effects from glucocorticoids than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy, most women will require a lower exogenous glucocorticoid dose and many will not need glucocorticoid treatment during pregnancy. Nursing Mothers: It is not known whether fluticasone propionate is excreted in human breast milk

Subcutaneous administration of tritiated drug to lactating rats (10 mcg/kg, 59 mcg/m<sup>2</sup>) resulted in measur-able radioactivity in both plasma and milk. Because other glucocorticoids are excreted in human milk, cau-

able radioactivity in both plasma and mink, because onler glucocorricolds are excreted in mink, cau-tion should be exercised when Flonase Nasal Spray is administered to a nursing woman. Pediatric Use: The safety and effectiveness of Flonase Nasal Spray in children below 12 years of age have not been established. Oral glucocorricolds have been shown to cause growth suppression in children and teenagers with extended use. If a child or teenager on any glucocorticold appears to have growth suppres-sion, the possibility that they are particularly sensitive to this effect of glucocorticolds should be considered (see PRECAUTIONS).

Geriatric Use: A limited number of patients above 60 years of age (n=132) have been treated with Flonase Nasal Spray in US and non-US clinical trials. While the number of patients is too small to permit separate analysis of efficacy and safety, the adverse reactions reported in this population were similar to those reported by younger patients

ADVERSE REACTIONS: In controlled US studies, 2,427 patients received treatment with intranasal fluticasone propionate. In general, adverse reactions in clinical studies have been primarily associated with irrita-tion of the nasal mucous membranes, and the adverse reactions were reported with approximately the same frequency by patients treated with the vehicle itself. The complaints did not usually interfere with treatment. Less than 2% of patients in clinical trials discontinued because of adverse events; this rate was similar for vehicle and active comparators.

Systemic glucocorticoid side effects were not reported during controlled clinical studies up to 6 months duration with Flonase<sup>114</sup> Nasal Spray. If recommended doses are exceeded, however, or if individuals are particularly sensitive or if in conjunction with systemically administered glucocorticoids, symptoms of hypercorticism, e.g., Cushing's syndrome, could occur. The following incidence of common adverse reactions is based upon seven controlled clinical trials in

which 536 patients (57 girls and 108 boys aged 4 to 11 years, 137 female and 234 male adolescents and adults) were treated with Flonase Nasal Spray 200 mcg once daily over 2 to 4 weeks and two controlled clinical trials in which 246 patients (119 female and 127 male adolescents and adults) were treated with Flonase Nasal Spray 200 mcg once daily over 6 months.

Incidence Greater than 1% (Causal Relationship Possible): Respiratory: Epistaxis, nasal burning (incidence 3% to 6%); blood in nasal mucus, pharyngitis, nasal irritation (incidence 1% to 3%). Neurological: Headache (incidence 1% to 3%).

Incidence Less than 1% (Causal Relationship Possible): Respiratory: Sneezing, runny nose, nasal dry-ness, sinusitis, nasal concestion, bronchitis, nasal ulcer, nasal septum excoriation.

Neurological: Dizziness Special Senses: Eye disorder, unpleasant taste Digestive: Nausea and vomiting, xerostomia. Skin and Appendages: Urticaria

OVERDOSAGE: There are no data available on the effects of acute or chronic overdosage with Flonase" Nasal Spray. Intranasal administration of 2 mg (10 times the recommended dose) of fluctacaone propionate twice daily for 7 days to healthy human volunteers was well tolerated. Single oral doses up to 16 mg have been studied in human volunteers with no acute toxic effects reported. Repeat oral doses up to 80 mg daily for 10 days in volunteers and repeat oral doses up to 10 mg daily for 14 days in patients were well tolerated. Adverse reactions were of mild or moderate severity, and incidences were similar in active and placebo treatment groups. Acute overdosage with this dosage form is unlikely since one bottle of Flonase Nasal Spray contains approximately 8 mg of fluticasone propionate. Chronic overdosage may result in signs/symptoms of hypercorticism (see PRECAUTIONS).



search Triangle Park, NC 27709

October 1994 **RL-148** OM.BS.A



Allen & Hanbur ys

a world leader in respiratory care Research Triangle Park, NC 27709 FLN141R0

Printed in USA

January 1995



Flonase<sup>™</sup> (fluticasone propionate) Nasal Spray, 0.05%

#### **BRIFF SUMMARY**

# To find level II codes quickly and easily, you need a St. Anthony's HCPCS.

This is an indispensable reference for accurately coding the supplies, materials, and injections provided to Medicare patients. Its format is easy-to-use, both for coding professionals and first timers.

### St. Anthony's HCPCS 1995

Updated annually by St. Anthony's, this new spiralbound *HCPCS 1995* edition features coding guidlines, unlisted procedures and coverage instructions that include:

- a complete list of Level II modifiers
- special symbols which mark new, revised, and deleted codes
- a listing of drugs with their corresponding national codes
- an alphabetical index to all codes

St. Anthony's *HCPCS* is an efficient coding resource that is designed for use in outpatient facilities.

St. Anthony's *HCPCS 1995* Order#: OP057195NQ AMA member price: \$29.95 Nonmember price: \$39.95

### To order, call toll free 800 621-8335

MasterCard, VISA, American Express, and Optima accepted. State sales taxes and shipping/handling charges apply.

Order today!

### American Medical Association Physicians dedicated to the health of America



## This ICD-9-CM is designed to help coders avoid common coding mistakes.



Approved Approv

The McGraw-Hill *ICD-9-CM* can help you code accurately every time. It's specifically crafted to alert you to the most frequently-made diagnosis coding errors.

### McGraw-Hill 1995 Color-Coded ICD-9-CM Volumes 1 and 2

This edition features a clear and logical design that uses helpful visual warnings to alert you:

- whenever 4th and 5th digits are required
- for manifestation-only codes
- when the patient's condition must be explained in detail

You will find this 8  $1/2 \ge 11$ " format and its color coding scheme easy to use and, most importantly, easy to remember.

McGraw-Hill 1995 Color-Coded ICD-9-CM Volumes 1 and 2 Order #: OP052295NQ AMA member price: \$29.95 Nonmember price: \$39.95

### To order, call toll free 800 621-8335

MasterCard, VISA, American Express, and Optima accepted. State sales taxes and shipping/handling charges apply.

Order today!

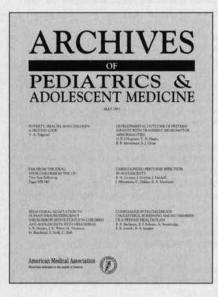
### American Medical Association

Physicians dedicated to the health of America



Now with an expanded focus — from infancy to young adulthood

## A unique resource for pediatrics in a time of change



### Selected recent topics from Archives of Pediatrics & Adolescent Medicine

- The Prone Sleeping Position & SIDS
- Pertussis in Fully Immunized Adolescents
- Early Recognition of Autism
- Timing and Rate of Sexual Maturation and the Onset of Cigarette and Alcohol Use Among Teenage Girls
- A Program Developing Residents as Teachers
- Recurrent Intussusception

Archives of Pediatrics & Adolescent Medicine, incorporating AJDC: American Journal of Diseases of Children, has been a trusted voice in childrens' health for over 80 years. To better serve the changing needs of the specialty, the journal now focuses on the entire range of pediatrics ... from newborns to young adults.

### Knowledge that meets daily practice needs

The new Archives is a practical forum for articles, debate and information applicable to clinical decision-making. In-depth coverage of the latest advancements and common problems in patient care are fully addressed in the journal's wide-ranging editorial content.

### Expansive coverage of pediatric care

Archives of Pediatrics & Adolescent Medicine examines the complex issues facing the specialty, both today and in the future. Look to the Archives for a diversity of articles on the clinical, scientific and social issues relevant to pediatric and adolescent care.

### The latest peer-reviewed, primary source material

Original articles are comprehensive yet concise, and include quickreading abstracts. Published monthly by the world's leading medical authority, Archives of Pediatrics & Adolescent Medicine provides the latest insights into pediatric primary care today.

# The new resource for clinical advances in the care of children and adolescents.

## SUBSCRIBE TODAY!

American Medical Association Physicians dedicated to the health of America



Yes! Please enter my one-year subscription (12 issues) to A	Name (Please Print)	
Please charge my subscription to:	MD/D0 Other (Please Specify)	
🗆 Visa 🗆 MasterCard 🗀 American Express	Address	
Card #		
Exp. / Signature	City/State/Zip	
Institution rate is \$125. Individual rate does not apply if payment is made through an institution. Washington, DC residents add 6% sales tax. Canada residents add 7% GST (R 126 225 556). An airmail delivery surcharge of \$35 for individual orders (\$40 surcharge for institution orders) will be applied to all orders outside the US. Rates subject to change.	Mail to: American Medical Association P.O. Box 10945 Chicago, IL 60610 USA	

For fast service, call toll-free 1-800-AMA-2350 or fax your order to 312-464-5831 today!

P5FA3

# AQ Comfort and QD Convenience...

## Just One Nasal Steroid Has Both: **NEW FLONASE** (fluticasone propionate)

- A first-line therapy for management of seasonal and perennial allergic rhinitis in patients 12 years and older – not indicated for nonallergic rhinitis.
- Relief of nasal symptoms may begin within 12 hours.
- Maximum benefit may take several days. Onset of action and degree of relief may vary in individual patients.



- Effectiveness depends on regular use.
- Side effects occurring at >1% (causal relationship possible) included epistaxis and nasal burning (3% to 6%) and nasal irritation, headache, and pharyngitis (1% to 3%).

Please consult Brief Summary of Prescribing Information on adjacent page.



### Flonase<sup>™</sup> (fluticasone propionate) Nasal Spray, 0.05% w/w

#### For Intranasal Use Only.

The following is a brief summary only. Before prescribing, see complete prescribing information in Flonase<sup>™</sup> Nasal Spray product labeling.

CONTRAINDICATIONS: Flonase<sup>™</sup> Nasal Spray is contraindicated in patients with a hypersensitivity to any of its ingredients.

WARNINGS: The replacement of a systemic glucocorticoid with a topical glucocorticoid can be accompanied by signs of adrenal insufficiency, and in addition some patients may experience symptoms of withdrawal, e.g., joint and/or muscular pain, lassitude, and depression. Patients previously treated for prolonged periods with systemic glucocorticoids and transferred to topical glucocorticoids should be carefully monitored for acute adrenal insufficiency in response to stress. In those patients who have asthma or other clinical conditions requiring long-term systemic glucocorticoid treatment, too rapid a decrease in systemic glucocorticoids may cause a severe exacerbation of their symptoms.

controllation of the second se

Patients who are on immunosuppressant drugs are more susceptible to infections than healthy individuals. Chickenpox and measles, for example, can have a more serious or even fatal course in patients on immunosuppressant doses of corticosteroids. In such patients who have not had these diseases, particular care should be taken to avoid exposure. How the dose, route, and duration of corticosteroid administration affects the risk of developing a disseminated infection is not known. The contribution of the underlying disease and/or prior corticosteroid treatment to the risk is also not known. If exposed to chickenpox, prophylaxis with varicella zoster immune globulin (VZIG) may be indicated. If exposed to measles, prophylaxis with pooled intramuscular immunoglobulin (G) may be indicated. (See the respective package inserts for complete VZIG and IG prescribing information). If chickenpox develops, treatment with antiviral agents may be considered.

#### PRECAUTIONS:

General: Rarely, immediate hypersensitivity reactions or contact dermatitis may occur after the intranasal administration of fluticasone propionate. Rare instances of wheezing, nasal septum perforation, cataracts, glaucoma, and increased intraocular pressure have been reported following the intranasal application of glucocorticoids.

Use of excessive doses of glucocorticoids may lead to signs or symptoms of hypercorticism, suppression of HPA function, and/or suppression of growth in children or teenagers. Knemometry studies in astimatic children on orally inhaled glucocorticoids showed inhibitory effects on short-term growth rate. The relationship between short-term changes in lower leg growth and long-term effects on growth is unclear at this time. Physicians should closely follow the growth of adolescents taking glucocorticoids, by any route, and weigh the benefits of glucocorticoid therapy against the possibility of growth suppression if an adolescent's growth appears slowed.

Although systemic effects have been minimal with recommended doses of Flonase™ Nasal Spray, potential risk increases with larger doses. Therefore, larger than recommended doses of Flonase Nasal Spray should be avoided.

When used at larger doses, systemic glucocorticoid effects such as hypercorticism and adrenal suppression may appear. If such changes occur, the dosage of Flonase Nasal Spray should be discontinued slowly consistent with accepted procedures for discontinuing oral glucocorticoid therapy.

In clinical studies with fluticasone projonate administered intransally, the development of localized infections of the nose and pharynx with *Candida albicans* has occurred only rarely. When such han infection develops, it may require treatment with appropriate local therapy and discontinuation of treatment with Flonase Nasal Spray. Patients using Flonase Nasal Spray over several months or longer should be examined periodically for evidence of *Candida* infection or other signs of adverse effects on the nasal nuccesa. Elonase Nasal Spray which due used with caution, if at all in natients with active or quiescent tubercu-

Flonase Nasal Spray should be used with caution, if at all, in patients with active or quiescent tuberculous infections; untreated fungal, bacterial, or systemic viral infections; or ocular herpes simplex. Because of the inhibitory effect of glucocorticoids on wound healing, patients who have experienced recent nasal septal ulcers, nasal surgery, or nasal trauma should not use a nasal glucocorticoid until healing has occurred.

Information for Patients: Patients being treated with Flonase Nasal Spray should receive the following information and instructions. This information is intended to aid them in the safe and effective use of this medication. It is not a disclosure of all possible adverse or intended effects.

Patients should be warned to avoid exposure to chickenpox or measles and, if exposed, to consult their physician without delay.

Patients should use Flonase Nasal Spray at regular intervals as directed since its effectiveness depends on its regular use. A decrease in nasal symptoms may occur as soon as 12 hours after starting therapy

with Flonase Nasal Spray. Results in several clinical trials indicate statistically significant improvement within the first day or two of treatment; however, the full benefit of Flonase Nasal Spray may not be achieved until treatment has been administered for several days. The patient should not increase the prescribed dosäge but should contact the physician if symptoms do not improve or if the condition worsens. For the proper use of the nasal spray and to attain maximum improvement, the patient should read and follow carefully the patient's instructions accompanying the product.

We do proper doe not a fast and opper and to adminimize the might remember to the patient's notification of a surface and to low carefully the patient's instructions accompanying the product.
Carcinogenesis, Mutagenesis, Impairment of Fertility: Fluticasone propionate demonstrated no tumorigenic potential in studies of oral doses up to 1.0 mg/kg (3 mg/m<sup>2</sup> as calculated on a surface area basis)
to 7 avenue in the merue as inhibition of up to 57 mg/kg (3 mg/m<sup>2</sup>)

for 78 weeks in the mouse or inhalation of up to 57 mcg/kg (336 mcg/m<sup>2</sup>) for 104 weeks in the rat. Fluticasone propionate did not induce gene mutation in prokaryotic or eukaryotic cells *in vitro*. No significant clastogenic effect was seen in cultured human peripheral lymphocytes *in vitro* or in the mouse micronucleus test when administered at high doses by the oral or subcutaneous routes. Furthermore, the compound did not delay erythroblast division in bone marrow.

compound did not delay erythroblast division in bone marrow. No evidence of impairment of fertility was observed in reproductive studies conducted in rats dosed subcutaneously with doses up to 50 mcg/kg (295 mcg/m<sup>2</sup>) in males and females. However, prostate weight was significantly reduced in rats.

weight was significantly reduced in rats. Pregnancy: Teratogenic Effects: Pregnancy Category C: Subcutaneous studies in the mouse and rat at 45 and 100 mcg/kg, respectively (135 and 590 mcg/m<sup>2</sup>, respectively, as calculated on a surface area basis), revealed fetal toxicity characteristic of potent glucoborticoid compounds, including embryonic growth retardation, omphalocele, cleft palate, and retarded cranial ossification.

In the rabbit, fetal weight reduction and cleft palate were observed following subcutaneous doses of 4 mcg/kg (48 mcg/m<sup>2</sup>).

However, following oral administration of up to 300 mcg/kg (3.6 mg/m<sup>2</sup>) of fluticasone propionate to the rabbit, there were no maternal effects nor increased incidence of external, visceral, or skeletal fetal defects. No fluticasone propionate was detected in the plasma in this study, consistent with the established low bioavailability following oral administration (see CLINICAL PHARMACOLOGY section of the full prescribing information).

Less than 0.008% of the dose crosses the placenta following oral administration to rats (100 mcg/kg, 590 mcg/m<sup>2</sup>) or rabbits (300 mcg/kg, 3.6 mg/m<sup>2</sup>).

e are no adequate and well-controlled studies in pregnant women. Fluticasone progionate shoul

Flonase<sup>™</sup> (fluticasone propionate) Nasal Spray, 0.05%

There are no adequate and well-controlled studies in pregnant women. Fluticasone propionate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Experience with oral glucocorticoids since their introduction in pharmacologic, as opposed to physiologic, doses suggests that rodents are more prone to teratogenic effects from glucocorticoids than humans. In addition, because there is a natural increase in glucocorticoid production during pregnancy, most women will require a lower exogenous glucocorticoid dose and many will not need glucocorticoid treatment during pregnancy. **Nursing Mothers:** It is not known whether fluticasone propionate is excreted in human breast milk.

Subcutaneous administration of tritiated drug to lactating rats (10 mcg/kg, 59 mcg/m²) resulted in measurable radioactivity in both plasma and milk. Because other glucocorticoids are excreted in human milk, caution should be exercised when Flonase Nasal Spray is administered to a nursing woman. Pediatric Use: The safety and effectiveness of Flonase Nasal Spray in children below 12 years of age have

Pediatric Use: The safety and effectiveness of Flonase Nasal Spray in children below 12 years of age have not been established. Oral glucocorticoids have been shown to cause growth suppression in children and teenagers with extended use. If a child or teenager on any glucocorticoid appears to have growth suppression, the possibility that they are particularly sensitive to this effect of glucocorticoids should be considered (see PRECAUTIONS).

Geriatric Use: A limited number of patients above 60 years of age (n=132) have been treated with Flonase Nasal Spray in US and non-US clinical trials. While the number of patients is too small to permit separate analysis of efficacy and safety, the adverse reactions reported in this population were similar to those reported by younger patients.

ADVERSE REACTIONS: In controlled US studies, 2,427 patients received treatment with intranasal fluticasone propionate. In general, adverse reactions in clinical studies have been primarily associated with irritation of the nasal muccus membranes, and the adverse reactions were reported with approximately the same frequency by patients treated with the vehicle itself. The complaints did not usually interfere with treatment. Less than 2% of patients in clinical trials discontinued because of adverse events; this rate was similar for vehicle and active comparators.

Systemic glucocorticoid side effects were not reported during controlled clinical studies up to 6 months duration with Flonase" Nasal Spray. If recommended doses are exceeded, however, or if individuals are particularly sensitive or if in conjunction with systemically administered glucocorticoids, symptoms of hypercorticism, e.g., Cushing's syndrome, could occur. The following incidence of common adverse reactions is based upon seven controlled clinical trials in

The following incidence of common adverse reactions is based upon seven controlled clinical trials in which 536 patients (57 girls and 108 boys aged 4 to 11 years, 137 female and 234 male adolescents and adults) were treated with Flonase Nasal Spray 200 mcg once daily over 2 to 4 weeks and two controlled clinical trials in which 246 patients (119 female and 127 male adolescents and adults) were treated with Flonase Nasal Spray 200 mcg once daily over 3 to 4 weeks and two controlled clinical trials in which 246 patients (119 female and 127 male adolescents and adults) were treated with Flonase Nasal Spray 200 mcg once daily over 6 months.

Incidence Greater than 1% (Causal Relationship Possible): Respiratory: Epistaxis, nasal burning (incidence 3% to 5%): blood in nasal mucus, pharyngitis, nasal irritation (incidence 1% to 3%). Neurological: Headache (incidence 1% to 3%).

Incidence Less than 1% (Causal Relationship Possible): Respiratory: Sneezing, runny nose, nasal dryness, sinusitis, nasal congestion, bronchitis, nasal ulcer, nasal septum excoriation.

Neurological: Dizziness. Special Senses: Eye disorder, unpleasant taste. Digestive: Nausea and vomiting, xerostomia.

Skin and Appendages: Urticaria.

OVERDOSAGE: There are no data available on the effects of acute or chronic overdosage with Flonase<sup>™</sup> Nasal Spray. Intranasal administration of 2 mg (10 times the recommended dose) of fluticasone propionate twice daily for 7 days to healthy human volunteers was well tolerated. Single oral doses up to 16 mg have been studied in human volunteers with no acute toxic effects reported. Repeat oral doses up to 80 mg daily for 10 days in volunteers and repeat oral doses up to 10 mg daily for 14 days in patients were well tolerated. Adverse reactions were of mild or moderate severity, and incidences were similar in active and placebo treatment groups. Acute overdosage with this dosage form is unlikely since one bottle of Flonase Nasal Spray contains approximately 8 mg of fluticasone propionate. Chronic overdosage may result in signs/symptoms of hypercorticism (see PRECAUTIONS).



esearch Triangle Park, NC 27709

October 1994 RL-148 OM.BS.A



Allen & Hanbur vs

a world leader in respiratory care Research Triangle Park, NC 27709 FLN141R0

2

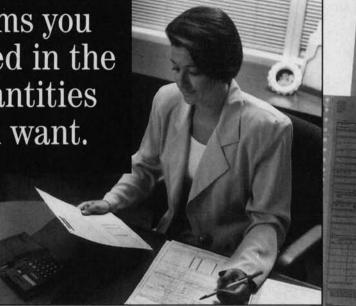
Printed in USA



January 1995

REFORE LISE

We've got the claim forms you need in the quantities you want.



The AMA stocks a complete selection of top-quality, government-approved claim forms at affordable prices. Our forms are laser-print compatible, and come with or without bar codes. From mini packs and convenience packs for small-volume users, to special forms for large-volume users, we've got the form you want.

### **Snap-out Form**

2-part NCR, Kodak bar code.

Mini Pack: 50 sheets Order #: OP051394 AMA member price: \$7.95 Nonmember price: \$9.95

Carton: 1000 sheets Order #: OP050292NQ AMA member price: \$49.95/carton Nonmember price: \$59.95/carton

### **Continuous Form**

2-part NCR with pinfeeds for computer printers, 1000 carton.

### With Bar Code

Order #: OP050392NQ AMA member price: \$55.95/carton Nonmember price: \$67.95/carton

Without Bar Code Order #: OP050592NQ AMA member price: \$55.95/carton Nonmember price: \$67.95/carton

### **Single Form**

1-page, Kodak bar code, laser-printer compatible. Single sheet, not padded.

Mini Pack: 50 sheets Order #: OP051194 AMA member price: \$5.95 Nonmember price: \$6.95

Convenience Pack: 250 sheets Order #: OP050692NQ AMA member price: \$17.95 Nonmember price: \$21.95

Carton: 1000 sheets Order #: OP050192NQ AMA member price: \$34.95/carton Nonmember price: \$43.95/carton

### To order, call toll free 800 621-8335

MasterCard, VISA, American Express, and Optima accepted. State sales taxes and shipping/handling charges apply.

Order today!

American Medical Association

Physicians dedicated to the health of America



Join in the nation's largest gathering of quality of care experts and users in a decade at the

### AMERICAN MEDICAL REVIEW RESEARCH CENTER

10th Anniversary Celebration and 10th Annual Symposium on

Quality of Care: Clinical Evaluation Applied to All Populations

> May 1-3, 1995 Omni Shoreham Hotel Washington, DC

with support provided by the Agency for Health Care Policy and Research

> For registration information call 202-833-3043 or FAX: 202-833-2047

with your subscription to an American Medical Association publication? **Call 1-800-AMA-2350.** FAX 312-464-5831. Our Subscriber Services Center is ready to help you. Just call. Your questions can be answered in minutes.

Have a question...

American Medical Association Physicians dedicated to the health of America





## The nation's number one source for socio-economic news in medicine

With health reform's status in Washington unclear, market upheaval and smaller-scale innovations promise the most dramatic changes for 1995. Will you know what to expect? You will — if you read American Medical News.

**Comprehensive coverage:** The latest on all aspects of health care including market developments, the impact of managed care, antitrust issues, the tort reform debate, and more

To-the-point information: How the news affects you and your clients

The inside story: Relevant information on what's happening in organized medicine

Expert viewpoint: Balanced and fair coverage of legal, political, economic and social issues in medicine

The more medicine changes, the more you need AMNews Join the more than 350,000 readers involved in health care who depend on AMNews weekly. They already know why its the most widely read publication of its kind.

Stay on top of the latest in healthcare 48 times each year for only \$99.

### Call 800-AMA-2350 (FAX 312-464-5831) to subscribe today!

American Medical Association • PO Box 10945 • Chicago, IL 60610



### FAMILY PRACTITIONERS TOP THE LIST!

As a qualified family practitioner, you top the wish list of health care providers across the country.

Why not use the current tilt toward primary care medicine to obtain a better quality of practice and quality of life?

Merritt, Hawkins & Associates, the nation's leading physician search and consulting firm, represents family practice opportunities nationwide. Our professional consultants visit each opportunity personally and can provide you with detailed, first-hand information regarding the opportunities below and many others.

### PRESTIGIOUS HOUSTON SUBURB

Suburban Houston, Texas family practitioner to join a progressive and growing group in a beautifully designed medical office, \$140,000 salary plus benefits, plus bonus, and 1 in 4 call and coverage. Live in the prestigious Clear Lake area on a golf course, or next to the bay. This is truly a one of a kind opportunity and won't be available long. Reference #3250

### IF QUALITY OF LIFE CANNOT BE COMPROMISED

Practice medicine in a community where people still consider physicians local heroes! The hospital will take care of the hassles while you practice medicine. You will be impressed by the level of sophistication and the support services that the hospital provides. Due to the growth of this area, there is an immediate and unparalleled opportunity for your expertise and care. You will receive a guaranteed salary of \$120,000 plus bonus and a complete array of benefits. Enjoy living in a community which provides the very best of family living with the financial rewards of an outstanding practice. Reference #3268

### DALLAS, TEXAS \$200,000 FAMILY PRACTICE

Imagine walking into a practice where your services are truly needed. You will thrive in this financially lucrative practice while maintaining an excellent quality of life sharing call on a 1 in 4 basis. Dallas, Texas offers a combination of southwestern friendliness, abundant cultural activities, excellent shopping, and beautiful homes. A low cost of living, a major international airport, and excellent weather have made this city a top choice among physicians. Reference #2805

### 4 DAY WORK WEEK INCOME POTENTIAL OF \$150,000

Join a well-established family physician who has a closed practice and over 10,000 active charts. The 270-bed regional medical center will provide an **attractive base salary** plus benefits for a boardeligible/board-certified family practitioner. Live in a medium-size community known for its architecture and family values, that is only 45 minutes from a major midwestern community, and 30 minutes from a nationally known state university. Reference #3247

### EARN OVER \$175,000 AND ENJOY RELAXED SOUTHWESTERN LIVING

If the virtues of small town living appeal to you — stable schools, active community involvement, low crime, a relaxed pace you will enjoy this friendly southwestern community. The perfect opportunity for a family physician who wants to practice a full range of medicine, plus obstetrics. A 1 in 4 on-call schedule and practice management make this an excellent opportunity. Reference # 2668

### \$200,000 INCOME POTENTIAL A MAJOR STATE UNIVERSITY

Excellent family practice opportunity. Join one other family practice doctor with the full support of the local regional hospital and referring physicians. Enjoy a full practice from day one at a state-of-the-art clinic. Fish and camp at state parks and waterski on pristine lakes. Off-Broadway plays, symphony, and art galleries are nearby, as well as close proximity to a major university. This area boasts the top schools in the nation. Reference #2810

### JOIN A BOOMING GROUP

MHA placed a physician in this group 12 months ago and now they need a fourth physician to join the group. Join an established practice where you will have the flexibility to practice a wide range of procedures, including obstetrics. **Huge first year earning potential** is backed with a generous income guarantee. This small midwest community is only 25 minutes from a metropolitan community. Reference #3304

### SUBURBAN ST. LOUIS

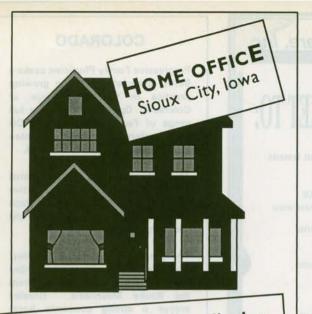
This suburban community offers the peacefulness and tranquillity of small-town living, yet access to all the amenities and activities of St. Louis. You will join a primary care group where all the business activities are handled. Call and coverage will be shared with three other family practitioners in the clinic. **A salary plus bonus** on production is offered as is relocation, malpractice, and an ample benefits package. Potential of the practice can exceed \$200,000. Reference #2609

### QUAINT MIDWESTERN COMMUNITY

An immediate need exists for a family physician in this quaint midwest community. You'll associate with a highly qualified associate who is covering two practices due to the departure of a local physician. Great financial potential. Reference #3278

For complete information on these opportunities or for consultation on any aspect of physician relocation, contracts, and compensation, call **Mike Fay** at Merritt, Hawkins & Associates today at (800) 876-0500 or (214) 868-2200.

MERRITT, HAWKINS & ASSOCIATES 222 W. Las Colinas Blvd., Suite 1920 Irving, TX 75039



## Top10 Reasons to live in Sioux City, Iowa

Sioux City is David Letterman's home office!
 Excellent Schools! Iowa ranks #1 in the

2) Excellent Schools: Towa Failed of Educanation on SAT & National Assessment of Education Progress math scores!

 Nationally recognized as one of the best cities in the U.S. to begin a career!

4) Robust economy – currently less than 3%

unemployment! 5) The Sioux City area is outperforming the rest

of Iowa and the nation economically! 6) Home to Jolly Time Pop Corn, Sioux Bee Honey, IBP, Terra International and Gateway

2000, a Fortune 500 PC manufacturer. 7) Abundance of recreational opportunities -

close to the Iowa Great Lakes! 8) Home to a major medical provider with tertiary services and measurable high-quality care!

9) Hometown feel while only hours away from several large metropolitan cities!

10) Home to the Northern Baseball League Sioux City Explorers, Sioux City Musketeers hockey team and world champion fast-pitch softball!

### Physicians needed:

Non-Invasive Cardiology Family Practice (urban & rural) Infectious Disease • Internal Medicine Rheumatology • General Orthopedics Orthopedic Spine & Hand Pediatrics • Pulmonology Psychiatry (child/adolescent & adult)

For information call: Cathy Frost • Marian Health Center I (800) 352-3559 ext. 5664

### Provide High Quality With CIGNA HealthCare

CIGNA HealthCare gives you the freedom to focus on what's most important...the practice of good medicine. And our locations offer you some of the best practice opportunities found anywhere.

We currently have opportunities for **Primary Care** and **Urgent Care Physicians** in Southern California, Arizona, and Florida.

As a valued member of our family of professionals, you'll enjoy a predictable schedule and an outstanding compensation package.

For more information, call or send your CV to: Physician Recruitment, CIGNA HealthCare of California, (800) 468-9013, FAX (818) 500-6986. CIGNA HealthCare of Arizona, (800) 252-2471, FAX (602) 371-2526, CIGNA HealthCare of Florida, (800) 851-8805, FAX (813) 282-5523. EOE



A Business of Caring

HCP of Buffalo. Western New York's largest multi-specialty, prepaid group practice, is proud to be recognized as a national leader in quality health care. Our COI accreditation is supported by a strong foundation of advanced and begoing learning. With our university hospital affiliations and network of specialists in a broad range of disciplines, we can offer you unparalleled opportunities for advancing your knowledge, teaching, and — most important of all — providing your patients with excellent medical care.

### The knowledge to

We provide you with all the resources, support and rewards you need to thrive professionally and personally. You'li work as a member of a primary care team of 4-6 physicians supported by gifted nurses and physician assistants. Receive full administrative support from a staff whose expertise allows you to devote all your energy to your practice. And within this large, growing and respected organization, your practice will be your own

### advance medicine.

With regular office hours, reduced paperwork and a full complement of colleagues, you'll have more time to devote to friends, family and your own interests. And you can pursue all those interests in our community, which offers a vibrant performing arts calendar sophisticated cultural attractions and year-round outdoor recreational activities.

### And the credentials

To learn more about your role with HCP of Bulfalo, contact Sue Simmons at 800-628-8451 or send CV to Gregg Broffman, M.D., Physician Recruiting and Staff Development, Health Care Plan, 900 Guaranty Building, Bulfalo, NY 14202, EOE

to prove it.

NCQA

.

HCP HealthCarePlan

### **COLORADO**

The Greeley Medical Clinic, P.C., a 40 physician multi-specialty clinic located in Greeley, Colorado, is seeking a board certified candidate to join its Family Practice Department and practice at one of two rural satellite clinics.

Greeley is 30 miles from the foot of the Rocky Mountains, one hour north of Denver and just two hours from Colorado's ski country. Greeley is a university town with a population of 65,000. It is economically diversified and has excellent schools. The 326bed regional tertiary care hospital provides primary and specialty care to 200,000 residents. Interested candidates may send CV to:

> Elsie McCoy, Administration The Greeley Medical Clinic 1900 16th Street Greeley, Colorado 80631 FAX (970) 350-2478 Phone (970) 350-2416



### COLORADO

Progressive Family Physician seeks a BE/BC associate to join a growing practice in the front range of Colorado. Opportunity offers a full range of Family Practice with OB skills preferred. Income guarantee and relocation expenses included.

The affiliated 326 bed regional tertiary medical center has an active medical staff of over 170 which includes all major specialties and subspecialties.

The practice is located in Greeley, Colorado, a university town 50 miles north of Denver and a half hour from the Rocky Mountains. Greeley enjoys a strong economic base, excellent school system and is in close proximity to a wealth of outdoor recreational activities. Interested candidates may send CV to:

Sherry Kozero-Roth Physician Support Services North Colorado Medical Center 1801 16th Street Greeley, Colorado 80631 FAX (303) 350-6644

"Family" is the key word.

Mercy Health Services' family practice opportunities allow you the freedom for the two things you love the most: your family and your family practice.

**FAMILY PRACTICE** We offer an assortment of locations throughout the state of Iowa <u>and</u> a variety of practice settings. Mercy Health Services wants to work with you in choosing the best possible location and practice for your family.

All of our opportunities offer attractive compensation and benefits packages.

For more information, please call Laura E. Weis, Regional Recruitment Specialist at (515) 224-3260 4500 Westown Parkway, Suite 250 West Des Moines, Iowa 50266





- Trigger 100 search professionals into action
- Use your PC from the privacy and convenience of your home or office.

Since 1989, **MSC** is America's preeminent healthcare network. Its members work with health providers across the country. You are contacted at home, -ONLY if your profile matches one or more practice opportunities. Your name is not released to any facility without approval. Submit your input in confidence..... at no cost.

- MSC members know the opportunities nationwide
- You specify. They search. You win

PC or MAC. Call E-NET at 713 550 6671 or 6676. For NAME use PHYSICIAN. For PASSWORD use ONLINE. Set to "8N1" and ANSI or ANSI/BBS. Up to 14.4 modem speed. Voice : 619 729 9447



## A GOOD LOCUM TENENS GROUP SHOULD DO MORE THAN JUST DELIVER GREAT DOCTORS ...

We think finding you a great doctor is just the beginning. That's why VISTA's locum tenens packages are designed by individuals for individuals. When you call VISTA you'll talk to a friendly, experienced professional who'll help you select the right doctor. A doctor who's passed the most rigorous credentialing process in the industry. In many cases we'll have them in place within days. Seeing patients. Generating revenue in excess of the cost of coverage. And we'll handle all the details. We've put individual packages together for hundreds of your colleagues. We'd like to put one together for you.



675 EAST 2100 SOUTH, STE. 390 SALT LAKE CITY, UT 84106

It's 4am. Time to find the job you want. Unless, of course, you're too tired to lift a finger. 1.800.233.9330

Researching career opportunities takes time that you don't have. And often when you do, no one else is at work to help you. But the new **Practice Opportunity Line** offers an easy, no pressure, confidential way to conduct the search on your own, 24 hours a day. All you have to do is call, follow the prompts and research the openings. Then send a voice mail mini-resume to the opportunities you wish to pursue. It's fast. It's easy. And you're awake anyway.



from Physician's Market Information Center 1-800-423-1229



You're ready to start a career in medicine, but not necessarily ready to anchor somewhere for the rest of your life. There's a whole world of practice opportunities out there, and a perfect way to test them —CompHealth locum tenens. Work where you want, when you want, while you weigh your options and make the right choice. As the largest healthcare staffing group, we have more openings in more places than anyone else. And when you're ready, you can use our Trial Practice or Permanent Placement services to find the right place to settle down. Our personal service makes it easy. Call us today

for more information about working with CompHealth.



800-453-3030

### The Osler Institute 1995 **Family Practice Boards Review Course**

April 23-29 – Cincinnati

June 11-17 – Baltimore

May 21-27 – Los Angeles

July 6-12 - Chicago

### Plus optional day of psychiatry just before and optional day of obstetrics just after

### **OBJECTIVES**

- Improve basic and clinical knowledge in family practice
- Prepare candidates to take Family Practice board exams
- Provide family practitioners with a review and update

### **OPTIONAL DAY** Endocrinology **BEFORE CORE Psychiatry**

Depression and Mania Schizophrenia Anxiety and Neurosis Personality Disorders Psych. Emergencies Alcohol & Drug Abuse Obesity/Eating Disorders Sleep Disorders Geriatric Psychiatry Psychotherapeutic Drugs

### SEVEN DAY **CORE COURSE** Medicine and Gerontology

Pulmonology

Asthma and COPD Pneumonia & Bronchitis Diffuse Lung Diseases Pulmonary Emboli **Respiratory Failure** 

### Cardiology

EKG's & Arrhythmias Preventive Cardiology Hypertension Myocardial Infarction Valvular Disease Congestive Failure

### Gastroenterology

**Oral Diseases** Esophageal Problems Peptic Ulcers Hepatitis and Cirrhosis Gallbladder & Pancreas Chronic Bowel Disease Anorectal Problems

### Nephrology Acid-Base and 'lytes

Urinary Infections Renal Failure

**Diabetes Mellitus** Thyroid Diseases Parathyroid & Adrenal Osteoporosis

Heme. & Oncology Anemia Abnormal White Counts Bleeding Disorders Cancer Detection Cancer Prevention

Primary Care Oncology Rheum. & Sports Rheumatic Syndromes Inflammatory Arthritis **Overuse** Injuries Acute Knee Injuries

Neurology Headache & Back Pain Dizziness & Tinnitus Delirium and Stroke Dementia & Parkinson's Epilepsy & Head Injury

Derm. and Pharm. Common Dermatosis Systemic Disease Signs Geriatric Pharmacology Antibiotic Choices

#### Potpourri AIDS and Other STDs **Common Infections** Pain Management Chest X-ray Review Abdominal X-rays

### Gynecology

Gynecologic Infections Menstrual Disorders Pelvic Pain Evaluation Contraception Infertility Options Sexual Assault Abnormal Pap Smears Cancer in Women Menopause Management Medical Genetics

Robert Balk, M.D. **Community Med.** Rush Medical College Preventive Health Care B. Banahan, M.D. Occupational Medicine Environmental Medicine Ethical & Legal Issues

#### **Pediatrics** Care of the Newborn Growth & Development Vaccinations Behavior Problems Learning Disorders Fever and Infections

Vomiting and Diarrhea Seizures and Epilepsy Allergy & Immunology Common Exanthemas Child Abuse

Surgery Acute Abdomen

Breast Diseases Trauma Assessment Vascular Problems Common Eye Problems Hand Injuries Office Orthopedics Otitis and Sinusitis Head and Neck Masses Prostate Problems Urinary Incontinence

### **OPTIONAL DAY** AFTER CORE **Obstetrics**

Prenatal Care Fetal Testing Diabetes in Pregnancy Hypertension Spontaneous Abortion Preterm and Post Dates Induction of Labor Labor Complications Obstetric Analgesia Perinatal Infections

University of Mississippi R. Baumann, M.D. University of Kentucky P. K. Chaudhuri, M.D. Joseph DeFelice, M.D. VA Outpatient Clinic Robert Dimeff, M.D. Cleveland Clinic Foundation L. Dungy-Poythress, M.D. University of Cincinnati Ana Eng, M.D. Loyola Univ. of Chicago Margery Gass, M.D. University of Cincinnati S. Graham, M.D., Ph.D. University of Pittsburgh Jorge Herrera, M.D. Univ. of South Alabama Larry Johnson, M.D. University of Cincinnati Lawrence LaPalio, M.D. Loyola Univ. of Chicago E. Lederer, M.D. University of Louisville

University of Cincinnati Charles Myer, M.D. University of Cincinnati Nik Oquist, M.D. Vanderbilt University E. Podczaski, M.D. Penn State University John Pottage, M.D. Rush Medical College Joshua Sands, M.D. University of Cincinnati Kirk Shepard, M.D. Ohio State University Lee Shulman, M.D. Univ. of Tennessee Bernard Silver, M.D. Case Western Reserve Univ. Terry Taylor, M.D. Georgetown University John Wyrick, M.D.

University of Cincinnati

### Limited Enrollment: Family Practice Review Registration

Name	Phone
Address	April 23-29 – Cincinnati
City/State/Zip	May 21-27 – Los Angeles
Mail Today to: 1094 East Dawn Drive, Dept. 504	<ul> <li>June 11-17 – Baltimore</li> <li>July 6-12, 1995 – Chicago</li> <li>Check enclosed \$</li> </ul>
P.O. Box 2218 Terre Haute, IN 47802-0218	Please send FREE SAMPLE

### **METHODS**

- SELF-DIRECTED STUDY questions, answers, and assignments
- SEMINAR with projection slides and lecture-note syllabus
- PRACTICE EXAMS with written questions and answers

"...remarkably complete and pleasant."\*

### **Course Description**

Course enrollment is limited to 120 to give personal attention to your questions. Self-directed study questions will be sent before the courses - which will include case reviews and lectures with slides and syllabus and question sessions each evening.

"Accommodations were comfortable .... "\*

### Locations and Travel

Crowne Sterling Suites San Francisco Airport; Regal Hotel Cincinnati; Radisson Plaza, Manhattan Beach, near Los Angeles Airport; Baltimore Washington Airport (BWI) Marriott: and Radisson Lisle/Naperville - 20 miles southwest of Chicago's O'Hare Airport. For personal service with travel reservations, please call 800-356-7537 ext. 218.

"...the most education for the money."\*

### Fees and Course Hours

Physician or Resident:	Phy.	Res.	Hr.
<ul> <li>7 Day Core Course</li> </ul>	\$870	\$580	70
Optional Day Before	\$150	\$100	10
Optional Day After	\$150	\$100	10
9 Day Board Review	\$1080	\$720	- 90
Repeating within 2 yrs	\$540	\$540	- 90

• Add 10% within 10 days of the course.

- Not in course hotel package add \$30 per day.
- A \$100 deposit will reserve your position.
- Subject to \$100 fee, refunds will be made until the seminar begins.
- "...home study...was extremely helpful."\*

### **AAFP Prescribed Credit**

This program has been reviewed and is acceptable up to 88 Prescribed hours by the AAFP. AAFP Prescribed credit is accepted by the AMA as equivalent to AMA PRA Category 1 for the AMA Physicians Recognition Award. When applying for the AMA PRA, Prescribed hours earned must be reported as Prescribed hours, not as Category 1.

"I feel [the course] helped me pass .... "\*

### Information

Call Today for information and registration, hotel and travel reservations: (800) 356-7537 or (812) 299-5658 FAX (812) 299-2775

## Medical College of Ohio

Adolescent Medicine

Jay Menitove, M.D.



#### FOR HYPERTENSION OR ANGINA

Brief Summary of Prescribing Information as of April 1993

### CARDIZEM® CD (diltiazem HCI) Capsules

#### CONTRAINDICATIONS

CARDIZEM is contraindicated in (1) patients with sick sinus syndrome except in the presence of a functioning CHOTIZEM is Commandizated in (1) patients with size similar source synthesis synthese weeps in the presence of a functioning ventricular pacemaker, (2) patients with hypotension (less than 90 mm Hg systolic), (4) patients who have demon-strated hypersensitivity to the drug, and (5) patients with acute myocardial infarction and pulmonary congestion documented by x-ray on admission.

- WARNINGS
   Cardiac Conduction. CARDIZEM prolongs AV node refractory periods without significantly prolonging sinus node recovery time, except in patients with sick sinus syndrome. This effect may rarely result in abnormally slow heart rates (particularly in patients with sick sinus syndrome) or second- or third-degree AV block (13 of 3290 patients or 0.40%). Concomitant use of diltiazem with beta-blockers or digitalis may result in additive effects on cardiac conduction. A patient with Prinzmetal's angina developed periods of asystole (2 to 5 seconds) after a single does of 60 mg of diltiazem.
   Congestive Heart Failure. Although diltiazem has a negative inotropic effect in isolated animal tissue preparations, hemodynamic studies in humans with normal ventricular function have not shown a reduction in cardiac index nor consistent negative effects on contractility (dp/dt). An acute study of cal diltazem in patients with majared ventricular function (ejection fraction 24% ± 6%) showed improvement in indices of ventricular function experience with the use of CARDIZEM (diltiazem hydrochloride) in combination with beta-blockers in patients with impaired ventricular function should be exercised when using this combination.
   Hypotension. Decreases in blood pressure associated with CARDIZEM therapy may occasionally result in symptomatic hypotension.
   Acute Hepatic Injury. Mild elevations of transaminases with and without concomitant elevation in alkaline
- 4.
- symptomatic hypotension. Acute Hepatic Injury, Mild elevations of transaminases with and without concomitant elevation in alkaline phosphatase and bilirubin have been observed in clinical studies. Such elevations were usually transient and frequently resolved even with continued dilitazem treatment. In rare instances, significant elevations in enzymes such as alkaline phosphatase, LDH, SGOT, SGPT, and other phenomena consistent with acute hepatic injury have been noted. These reactions tended to occur early after therapy initiation (1 to 8 weeks) and have been reversible upon discontinuation of drug therapy. The relationship to CARDIZEM is uncertain in some cases, but probable in some. (See PRECAUTIONS.)

### PRECAUTIONS

Precourtions General CARDIZEM (diltiazem hydrochloride) is extensively metabolized by the liver and excreted by the kidneys and in bile. As with any drug given over prolonged periods, laboratory parameters of renal and hepatic function should be monitored at regular intervals. The drug should be used with caution in patients with impaired renal or hepatic function. In subacute and chronic dog and rat studies designed to produce toxicity, high doses of diltiazem were associated with hepatic damage. In special subacute hepatic studies, oral doses of 125 mg/kg and higher in rats were associated with histological changes in the liver which were reversible when the drug was discontinued. In dogs, doses of 20 mg/kg were also associated with hepatic changes; however, these changes were reversible with tinued dosing.

Dermatological events (see ADVERSE REACTIONS section) may be transient and may disappear despite continued use of CARDIZEM. However, skin eruptions progressing to erythema multiforme and/or extollative dermatitis have also been infrequently reported. Should a dermatologic reaction persist, the drug should be discontinued.

#### **Drug Interactions**

Drug Interactions Drug Interactions Due to the potential for additive effects, caution and careful titration are warranted in patients receiving CARDIZEM concomitantly with other agents known to affect cardiac contractifity and/or conduction. (See WARNINGS.) Pharmacologic studies indicate that there may be additive effects in prolonging AV conduction when using beta-blockers or digitalis concomitantly with CARDIZEM. (See WARNINGS.) As with all drugs, care should be exercised when treating patients with multiple medications. CARDIZEM under-goes biotransformation by cytochrome P-450 mixed function oxidase. Coadministration of CARDIZEM with other agents which follow the same route of biotransformation may result in the competitive inhibition of metabolism. Especially in patients with renal and/or hepatic impairment, dosages of similarly metabolized drugs, particularly those of low therapeutic ratio, may require adjustment when starting or stopping concomitantly administered dilli-azem to maintain optimum therapeutic biodol levels. Beta-blockers. Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM and beta-blockers is usually well loterated, but available data are not sufficient to predict the effects of concomitant treatment in patients with left ventricular dysfunction or cardiac conduction abnormalities. Administration of CARDIZEM (diltazem hydrocchioride) concomitantly with propranolol may increased approxi-mately 50%. In vitro, propranolol appears to be displaced from its binding sites by diltazem. If combination therapy is initiated or withdrawn in conjunction with propranolol, an adjustment in the propranolol does may be warranted. (See WARNINGS.)

warranted. (See WARNINGS.) **Cimetidine**: A study in six healthy volunteers has shown a significant increase in peak diltiazem plasma levels (58%) and area-under-the-curve (53%) after a 1-week course of cimetidine at 1200 mg per day and a single dose of diltiazem 60 mg. Ranitidine produced smaller, nonsignificant increases. The effect may be mediated by cimetidine's known inhibition of hepatic cytochrome P-450, the enzyme system responsible for the first-pass metabolism of diltiazem. Patients currently receiving diltiazem therapy should be carefully monitored for a change in pharmacological effect when initiating and discontinuing therapy with cimetidine. An adjustment in the diltiazem dose may be warranted. **Diltiatis**: Adjuncted of CABDIZEM with discontinuing therapy with cimetidine. An adjustment in the diltiazem

Digitalis. Administration of CARDIZEM with digoxin in 24 healthy male subjects increased plasma digoxin concer Digitalis. Administration of CARDIZEM with digoxin in 24 healthy male subjects increased plasma digoxin concen-trations approximately 20%. Another investigator found no increase in digoxin levels in 12 patients with coronary artery disease. Since there have been conflicting results regarding the effect of digoxin levels. If is recommended that digoxin levels be monitored when initiating, adjusting, and discontinuing CARDIZEM therapy to avoid possible over- or under-digitalization. (See WARNINGS.) Anesthetics. The depression of cardiac contractility, conductivity, and automaticity as well as the vascular dilation associated with anesthetics may be potentiated by calcium channel blockers. When used concomitantly, anesthetics and calcium blockers should be titrated carefully.

anesthetics and calcium blockers should be titrated carefully. Cyclosporine. A pharmacokinetic interaction between diltiazem and cyclosporine has been observed during studies involving renal and cardiac transplant patients. In renal and cardiac transplant recipients, a reduction of cyclosporine dose ranging from 15% to 48% was necessary to maintain cyclosporine trough concentrations similar to those seen prior to the addition of diltiazem. If these agents are to be administered concurrently, cyclosporine concentrations should be monitored, especially when diltiazem therapy is initiated, adjusted, or discontinued. The effect of cyclosporine on diltiazem plasma concentrations has not been evaluated. **Carbamazepine**. Concomitant administration of diltiazem with carbamazepine has been reported to result in elevated serum levels of carbamazepine (40% to 72% increase), resulting in toxicity in some cases. Patients receiving these drugs concurrently should be monitored for a potential drug interaction.

Carcinogenesis. <u>Mutagenesis. Impairment of Fertility</u> A 24-month study in rats at oral dosage levels of up to 100 mg/kg/day and a 21-month study in mice at oral dosage levels of up to 30 mg/kg/day showed no evidence of carcinogenicity. There was also no mutagenic response in vitro or in vivo in mammalian cell assays or in vitro in bacteria. No evidence of impaired fertility was observed in a study performed in male and female rats at oral dosages of up to 100 mg/kg/day.

Pregnancy Category C. Reproduction studies have been conducted in mice, rats, and rabbits. Administration of doses ranging Category C. Reproduction studies have been conducted in mice, rats, and rabbits. Administration of ooses ranging from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and tetal lethality. These doses, in some studies, have been reported to cause skeletal abnormalities. In the perinatal/postnatal studies, there was an increased incidence of stillbirths at doses of 20 times the human dose the number of the studies. or greater. There are no well-controlled studies in pregnant women: therefore, use CARDIZEM in pregnant women only if the

potential benefit justifies the potential risk to the fetus Nursing Mothers

Diltiazem is excreted in human milk. One report suggests that concentrations in breast milk may approxi-mate serum levels. If use of CARDIZEM is deemed essential, an alternative method of infant feeding should he instituted

Pediatric Use Safety and effectiveness in children have not been established

#### ADVERSE REACTIONS

Serious adverse reactions have been rare in studies carried out to date, but it should be recognized that patients with impaired ventricular function and cardiac conduction abnormalities have usually been excluded from these studies.

The following table presents the most common adverse reactions reported in placebo-controlled angina and hypertension trials in patients receiving CARDIZEM CD up to 360 mg with rates in placebo patients shown for comparison

#### CARDIZEM CD Capsule Placebo-Controlled ancion Triale Co

Adverse Reactions	Cardizern CD (n=607)	Placebo (n=301)
Headache	5.4%	5.0%
Dizziness	3.0%	3.0%
Bradycardia	3.3%	1.3%
AV Block First Degree	3.3%	0.0%
Edema	2.6%	1.3%
ECG Abnormality	1.6%	2.3%
Asthenia	1.8%	1.7%

In clinical trials of CARDIZEM CD capsules, CARDIZEM tablets, and CARDIZEM SR capsules involving over 3200 patients, the most common events (ie, greater than 1%) were edema (4.6%), headache (4.6%), dizziness (3.5%), asthenia (2.6%), first-degree AV block (2.4%), bradycardia (1.7%), flushing (1.4%), nausea (1.4%)

Szto patenis, the indist commover events (e. greater inter 1 values) were events (4.6.9%), headvacting (4.6.9%), terestieves (3.5%), astrainess (3.5%), astrainess (3.5%), astrainess (3.2%), and rash (1.2%). The following events were reported infrequently (less than 1%) in angina or hypertension trials: Cardiovascular: Angina, arrhythmia, AV block (second- or third-degree), bundle branch block, congestive heart failure, ECG abnormalities, hypotension, palpitations, syncope, tachycardia, ventricular extrasystoles Nervous System: Abnormal dreams, amnesia, depression, gait abnormality, hallucinations, insomnia, nervous-ness, paresthesia, personality change, somnolence, tinnitus, tremor Gastrointestimal: Anorexia, constipation, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGOT, SGPT, LDH, and alkaline phosphatase (see hepatic warnings), thirst, vomiting, weight increase Dermatological: Petechiae, photosensitivity, puritus, uritcaria Other: Ambiyopia, CPK increase, dyspane, epistaxia; eye irritation, hyperglycemia, hyperuricemia, impotence, muscle cramps, nasal congestion, nocturia, ostecarticular pain, polyuria, sexual difficulties The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia, erythema multiforme, exololative dermatitis, extrasyramidal symptoms, gingival hyperplasia, hemolytic anemia, increased bleeding time, leukopenia, purpura, retinopathy, and thrombocytopenia. In addition, events such as myocardial infraction have been observed which are not readily distinguistable from the natural history of the disastic vasculitis, have been neported. However, a definitive cause and effect relationship between these events and CARDIZEM therapy is yet to be established. CARDIZEM therapy is yet to be established.

1 3

Prescribing Information as of April 1993

Marion Merrell Dow Inc. Kansas City, MO 64114

ccdb0493a

References: 1. Cardizem CD prescribing information. 2. Data on file, Marion Merrell Dow Inc.

MARION MERRELL DOW INC. U S CITY, KANSAS MO



### A unique hemodynamic and safety profile for hypertension or angina<sup>1,2</sup>

A side-effect discontinuation rate comparable to placebo in both hypertension and angina trials<sup>2</sup>

Most commonly reported side effects are headache (5.4%), bradycardia (3.3%), first-degree AV block (3.3%), dizziness (3.0%), edema (2.6%), ECG abnormality (1.6%), and asthenia (1.8%)<sup>1</sup>

Please see brief summary of prescribing information on adjacent page.

©1994, Marion Merrell Dow Inc.