Antitussive

12Hour Power

- The only 12-hour liquid hydrocodone
- No middle-of-the-night or mid-day dosing
- Contains no iodinated glycerol
- One of the most economical prescription antitussives ¹
- The most frequently prescribed liquid hydrocodone²

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.



PENNKINETIC'

(hydrocodone polistirex Marine May */ 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 Suspension contains hydrocodone polistirex equivalent to 10 mg of hydrocodone bitatrate (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 erenov.a-methoxyl.7ethylmorphigan.com

a-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⁺ = protonated chlorpheniramine Other ingredients in TUSSIONEX Pennkinetic Extended Release Suspension: Ascorbic acid, D&C Yellow No. 10, ethylcellulose, FD&C Yellow No. 6, flavor, 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

Byted, propy parabeli, pumied water, succes, vegetable on, xaintial guin. 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, physical and psychological dependence. Chlorpheniramine is an antihistamine drug (H₁ 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® 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 in 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 chlorpheniramine twe 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 Suspension produces dose-related respiratory depression by directly acting on brain stem respiratory centers. Hydrocodone affects the center that controls respiratory rhythm, and respiratory centers. Hydrocodone affects the center that controls respiratory hythm, and may produce irregular and periodic breathing. Caution shouldbe 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 Intractanial Pressure: The respiratory depressant effects of narcotics and their capacity to elevate cerebrospinal fluid pressure may be markedly exaggerated in the presence of head injury, other intractanial lesions or a pre-existing increase in intractanial 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 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 urethnal 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 an infection, it is a straight and/or physical abilities 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 rate, 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 postoperatively, 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 nearbytic lens.

paralytic ileus.

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

Pregnancy

Treatogenic 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 Suspen-sion 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 TUSSIONEX 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: TUSSIONEX 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

Respiratory System: Dryness of the pharynx, occasional tightness of the chest. DRUG ABUSE AND DEPENDENCE: TUSSIONEX Pennkinetic Extended Release Suspension is a Schedule III narcotic. 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 appearance 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.

Gevelop 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 miosis is characteristic of narcotic overdose, mydriasis 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 network switch domession to stimulation. nervous system depression to stimulation.

nervous system depression to stimulation. 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 antagonists 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 chincially significant respiratory depres-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 teapoonful (5 mL) every

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



Notice To Our Readers

If you are unable to access AMA publications through Lexis/Nexis Research Services you may find these publications on the following online services:

• Dialog Information Services, Inc

3460 Hillview Avenue PO Box 10010 Palo Alto, CA 94303-0993 800-3-DIALOG FAX 415-858-7069 (*JAMA, Archives* series)

Information Access Company

362 Lakeside Drive Foster City, CA 94404 800-227-8431 FAX 415-378-5369 (*JAMA, Archives* series, *AMNews*)

• CD Plus Technologies (formerly BRS-Colleague)

333 Seventh Avenue New York, NY 10001 212-563-3006 FAX 212-563-3784 (*JAMA* only)

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, \$173 for 2 years in the United States and US possessions; other countries, one year, \$130; 2 years, \$243. (Rates for subscriptions for delivery to Japan or South Korea are available through 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 US 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 ad-

dresses, 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 offices: For subscription delivery in North America, Central America, and South America, contact Subscriber Services Center, American Medical Association, PO Box 10945, Chicago, IL 60610, USA. Tel: 1-312-760-7827. Fax: 1-312-464-5831. For subscription delivery in all other areas, contact: JAMA & Archives Journals Reader Services Centre, PO Box 299, London, England WC1H 9TD. Tel: 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 Jackson Debbie Pogorzelski Sarah Powell Jennifer Reiling Christine M. Wagenknecht

E. Ruth White Production Assistant:

Jo Anne Turner

Electronic Production Department 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

Distribution

Distribution Manager: Paul Gasiecki

Database & New Media

Electronic Coordinator: Mary Ellen Johnston Database Assistant: Peter Watkins Indexing Associate: George Kruto

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 NEW MOVEMENT IN OTC ANALGESIA



THE ACTIVITY

THE ENDURANCE OF 8-12 HOUR DOSING

Note: Please advise patients to read and follow product labeling.

Allergy Warning: Patients should not take this product if they have had an allergic reaction to aspirin, other salicylates, ibuprofen, naproxen, naproxen sodium, or other pain relieving drugs.

Alcohol Warning: Product labeling will advise patients of the following: If you generally consume 3 or more alcohol-containing drinks per day, you should consult your physician for advice on when and how you should take Aleve and other pain relievers.

© 1994 Procter-Syntex Health Products Company VA9462

ALEVE NAPROXEN SODIUM 220 MG PAIN RELIEVER/FEVER REDUCER

ALL THE ELEMENTS FOR OTC PAIN RELIEF

ARCHIVES

OF

FAMILY MEDICINE

VOL 4 NO. 2, FEBRUARY 1995

Living in Medicine		Original Contributions	
A Stitch in Time Neil Skolnik, MD Editorial	89	Recognition, Management, and Outcomes of Depression in Primary Care Gregory E. Simon, MD, MPH, Michael VonKorff, ScD	99
The Blues: Now and Forever More? Marjorie A. Bowman, MD, MPA	95	Applicability of Clinical Pharmacotherapy Guidelines for Major Depression in Primary Care Settings Herbert C. Schulberg PhD:	106
Letters to the Editor Childhood Immunization Availability in Primary Care Practices Thomas M. Vernon, MD	97	Marian R. Block, MD; Michael J. Madonia, MSW; Eric Rodriguez, MD; C. Paul Scott, MD; Judith Lave, PhD	
Thomas J. Allen, MD In Reply William J. Hueston, MD	98	Domestic Violence in a Primary Care Setting: Patterns and Prevalence Barbara A. Elliott, PhD, Marilou M. P. Johnson	113
Striae Gravidarum: Folklore and Fact Warren M. Levin, MD	98	Is Smoking an Indication for Prenatal Ultrasonography? Michael I. LeFeyre, MD, MSPH	120
In Reply Diane J. Madlon-Kay, MD	98	Joni K. Evans, MS; Bernard Ewigman, MD, MSI and the RADIUS Study Group	?Н;

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

Senior Vice President 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 John P. Cahill Manager, 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: Peter L. Payerli, 515 N State St, Chicago, IL 60610 (312) 464-2429. AMA Physician Recruitment Advertising Department: Carri Lynch, Supervisor, 800-262-2260.

ARCH FAM MED/VOL 4, FEB 1995 85



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.



Read it and lead!

American Medical Association Physicians dedicated to the health of America



Affordable Patient Education Introducing the AMA Healthy Heart Series

Today, physicians think twice about using high priced educational materials. Yet informing patients about the risk factors of heart disease is vital to their health. The solution – the AMA's new Healthy Heart Series. Features 4 magazine style booklets and 4 attention getting videos, all for a price that won't break your budget. Use them alone or in tandem. AMA member discounts apply. 30 day money back guarantee.

Guide To Stop Smoking

MA-05

- Guide To Your Healthy Heart
- Guide To High Blood Pressure Control
- Guide To Controlling Your Cholesterol

For more information and free booklet sample Call Toll Free (800) 432-8433

> Distributed by: Milner-Fenwick, Inc. 2125 Greenspring Dr., Timonium, MD 21093



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.

American	Medical	Association
Physicians dedicate	ed to the health	of America



Rakel: **Conn's CURRENT THERAPY 1995 The Crown Jewel of Medicine!**

Discover a king's ransom of more than 1,000 current, successful therapies for over 300 medical conditions!

The information in this latest volume of the crown jewel of medicine is all-new, allimportant. 278 of the 291 articles represent completely new or revised material.

"Accurate, accessible, and reasonably priced." - The Journal of the American Board of Family Practice. review of previous volume.

What's new in Conn's CURRENT **THERAPY 1995?**

- New coverage of low back pain and otitis externa.
- Articles from nearly 300 international experts who are contributing to CURRENT THERAPY for the first time.
- · An all-new table of approved uses of new drugs.

"Outstanding... Concise, precise, accessible, and applicable."

Archives of Family Medicine. review of previous volume.



Clip and mail this no-risk coupon today! -----

W.B. SAUNDERS COMPANY A Division of Harcourt Brace & Company 6277 Sea Harbor Drive, Orlando, FL 32887

W4052-4/SCONP VES! Please send my copy of Rakel: Conn's CURRENT THERAPY 1995 at \$55.001 may review it and, if not completely satisfied, I may return it with the invoice within 30 days at no further obligation. For your convenience when you purchase a volume of **Conn's Current Therapy**, W.B. Saunders Co. enters you as a subscriber to future volumes and sends you annual announcements approximately 2 months before publication — saving you the trouble of reordering every year. If you wish to preview the new edition, do nothing, and we'll send you the volume as soon as it is available. Each new volume may be examined for 30 days, and may be returned for full credit. If you decide you no longer want to receive each new volume, use the advance notice to let us know of your decision...you always have at least 20 days to decide. You may cancel your subscription at any time. Signature

Also send: V	/2859-1 Dorland's I	LLUSTRA dition at	TED M \$39.95	
Bill me later	Check enclosed	U VISA	MC	□ AmEx [™]
Card # Prepaid orders sa Make checks pay your purchase of	// ve shipping. Add the ap vable to W.B. SAUNDE order to expedite deliv	/ plicable sale RS COMP very.	Exp es tax for ANY. Sta)/ your area. aple this to

Name

State

Address

Telephone (

W.B. SAUNDERS COMPANY 1995. Professional references may be tax-deductible. Offer valid in USA only Prices subject to change without notice. AFM 2/95 DM#303 AFM 2/95 DM#30374

Zip

"Amazingly comprehensive."

- American Family Physician, review of previous volume.

Conn's CURRENT THERAPY 1995...

- → delivers more than 1.000 upto-the-minute, practiceproven therapies for the hottest topics in medicine... diabetes mellitus, Lyme disease and more.
- ➤ offers as many as 6 different therapies for each of the more than 300 medical conditions it covers.
- ➤ employs a time-saving format - simply turn to the specific body system, and then to the disorder to find expert treatments.
- much more!

Order today!

Edited by Robert E. Rakel, MD, Prof. and Chair., Dept. of Family Med., Assoc. Dean for Academic and Clinical Affairs, Baylor College of Med., Houston, TX. With 407 international experts. January 1995. 1242 pp. 567 tables, 53 figs. \$55.00. Order #W4052-4/SCONP.

2	CALL TOLL-FREE 1-800-545-2522
	8:30-7:00 Eastern Time to order!
	Be sure to mention DM#30374.

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™ (fluticasone propionate) Nasal Sprav. 0.05% w/w

For Intranasal Lise Only

SHAKE GENTLY REFORE USE

The following is a brief summary only. Before prescribing, see complete prescribing information in Flonase[™] Nasal Spray product labeling.

CONTRAINDICATIONS: Flonase™ Nasal Spray is contraindicated in patients with a hypersensitivity to any

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-drawal, 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-

tored for acute adrena insufficiency in response to stress. In truste patients who have assume a or bird culti-ical conditions requiring long-term systemic glucocorticoid treatment, too rapid a decrease in systemic glu-cocorticoids may cause a severe exacerbation of their symptoms. The use of Fionase[™] Nasal Spray with alternate-day systemic prednisone could increase the likelihood of hypothalamic-pluitary-adrenal (HPA) suppression compared with a therapeutic dose of either one alone. Therefore, Fionase Nasal Spray should be used with caution in patients already receiving alternate-day conditions to relate the different section of the comparison of the section of the there. prednisone treatment for any disease. In addition, the concomitant use of Flonase Nasal Sprav 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 Immunosuppressant coses or corticosteroids. In such patients who have not had mese 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 dis-ease and/or prior corticosteroid treatment to the risk is also not known. The exposed to chickenpox, prophy-laxis with varicella zoster immune globulini (V2IG) 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 asthmatic 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 suppres-sion 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

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 Flonase 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 nasa mucosa. Flonase Nasal Spray should be used with caution, if at all, in patients with active or quiescent tubercu-lous 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 event need sectal videor or enact strump chevid patients with active uscentionid until heal.

recent 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 pre-scribed 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-

To the properties of the factor product of the pro

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/sg (295 mcg/m²) in males and females. However, prostate weight was significantly reduced in rats.

Pregnancy: Tratagenic Effects: Pregnancy Category C: Subcutaneous studies in the mouse and rat at 45 and 100 mcg/kg, respectively (135 and 590 mcg/m², respectively, as calculated on a surface area basis), revealed fetal toxicity characteristic of potent glucoborticoid compounds, including embryonic growth retardation, omphalocele, delf palate, and retarded cranial ossification.

In the rabbit, fetal weight reduction and cleft palate were observed following subcutaneous doses of 4 mca/ka (48 mca/m²).

However, following oral administration of up to 300 mcg/kg (3.6 mg/m²) 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^2) or rabbits (300 mcg/kg, 3.6 mg/m²)

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 measur able radioactivity in both plasma and milk. Because other glucocorticoids are excreted in human milk, 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 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 suppres-sion, 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 reacted by unumage networks. 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 Flonase¹⁴ Nasal Spray. If recommended doses are exceeded, however, or if individuals are

duration with Flonase " Nasal Spray. If recommended doses are exceeded, however, or it molviduals 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 (inci-dence 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 congestion, bronchitis, nasal ulcer, nasal septum excortation.

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 fluticasone propionate twice daily for 7 days to healthy human volunteers was well tolerated. Single oral doses up to 16 mg have twice daily for 7 days to hearing numan volunteers was wer tolerated. Single oral doses up to 16 mg nave 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).



Research Triangle Park, NC 27709

October 1994 RL-148 OM BS A





a world leader in respiratory care Research Triangle Park, NC 27709 FLN141B0

Printed in USA

January 1995









Effective relief with a low incidence of peptic ulcer*



Turn everyday challenges into

*GI symptoms comparable to other NSAIDs, including diarrhea, dyspepsia, and abdominal pain. In patients treated chronically with NSAID therapy, serious GI toxicity such as perforation, ulceration, and bleeding can occur.

As with other NSAIDs, rare renal and hepatic reactions have been reported. Please see precautions section of prescribing information.

Contraindicated in patients who are hypersensitive to aspirin or other NSAIDs.

Please see brief summary of prescribing information on adjacent page.



RELAFEN

brand of nahumetone

Brief Summary: Consult full prescribing information before using

CLINICAL PHARMACOLOGY: Relaten is a nonsteroidal anti-inflammatory drug (NSAID) that exhibits anti-inflamma-tory, analgesic and antipyretic properties in pharmacologic studies. As with other nonsteroidal anti-inflammatory agents, its mode of action is not known. However, the ability to inhibit prostaglandin synthesis may be involved in the agents, its mode or accurate anti-inflammatory effect

The parent compound is a prodrug, which undergoes hepatic biotransformation to the active component, 6-methoxy-2-haphthylacetic acid (6MNA), a potent inhibitor of prostaglandin synthesis.

INDICATIONS AND USAGE: Acute and chronic treatment of signs and symptoms of osteoarthritis and rheumatoid

CONTRAINDICATIONS: Patients (1) who have previously exhibited hypersensitivity to it; (2) in whom Relaten, aspirin or other NSAIDs induce asthma, urticaria or other allergic-type reactions.

WARNINGS: Remain alert for ulceration and bleeding in patients treated chronically, even in the absence of previous . tract symptoms

GL: tock symptoms. In controlled chinical trials involving 1.677 patients treated with *Relaten* (1,140 followed for one year and 927 for two years), the cumulative incidence of peptic ulcers was 0.3% (95% CL 9%, 0.6%) at three to six months, 0.5% (95% CL 0.1%, 0.9%), at one year and 0.8% (95% CL 0.3%, 1.3%) at two years. Inform patients of the signs and symptoms of serious GL toxicity and what steps to take if they occur. In patients with active peptic ulcer, weigh the benefits of *Relaten* therapy against possible hazards, institute an appropriate ulcer treatment regimen and monitor the patients' progress carefully.

In considering the use of relatively large doses (within the recommended dosage range), anticipate benefit sufficient to offset the potential increased risk of G1 toxicity.

PRECAUTIONS: Because nabumetorie undergoes extensive hepatic metabolism, no adjustment of *Relaten* dosage is generally necessary in patients with renal insufficiency. However, as with all NSAIDs, monitor patients with impaired renal function more closely than patients with normal renal function.

Evaluate patients with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred for evidence of the development of a more severe hepatic reaction while on *Relaten* therapy. If abnormal liver tests persist or worsen, if chinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue *Relaten* Use *Relaten* cautiously in patients with severe hepatic impairment

As with other NSAIDs, use *Relaten* cautiously in patients with a history of congestive heart failure, hypertension or other conditions predisposing to fluid retention.

Based on U.V. light photosensitivity testing, Relaten may be associated with more reactions to sun exposure than might be expected based on skin tanning types

Physicians may wish to discuss with their patients the potential risks (see WARNINGS, PRECAUTIONS and ADVERSE REACTIONS) and likely benefits of NSAID treatment, particularly when the drugs are used for less serious conditions where treatment without NSAIDs may represent an acceptable alternative to both the patient and the physician. Exercise caution when administering Relaten with warfarin since interactions have been seen with other NSAIDs.

In two-year studies conducted in mice and rats, nabumetone had no statistically significant turnorigenic effect. Nabumetone did not show mutagenic potential in the Ames test and mouse micronucleus test in vivo. However, nabumetone- and 6MNA-treated lymphocytes in culture showed chromosomal aberrations at 80 mcg/mL and higher concentrations (aqual to the average human exposure to *Relaten* at the maximum recommended dose).

Nabumetone did not impair fertility of male or female rats treated orally at doses of 320 mg/kg/day before mating

Preparator, Category C. Nabumetone did not cause any teratogenic effect in rats given up to 400 mg/kg and in rabbits up to 300 mg/kg orally. However, increased post-implantation loss was observed in rats at 100 mg/kg granly and at higher dosse (grund to the average human exposure to 6MNA at the maximum recommended human dose). There are no adequate, well-controlled studies in pregnant women. Use the drug during pregnancy only if clearly needd. Because of the known effect of prostaglandin-synthesis-inhibiting drugs on the human fetal cardiovascular system (closure of ductus arteriosus), use of *Relaten* during the third trimester of pregnancy is not recommended.

The effects of *Relatence* labor and delivery in women are not known. As with other drugs known to inhibit prostaglandin synthesis, an increased incidence of dystocia and delayed parturition occurred in rats treated throughout pregnancy. It is not known whether nabumetone or its metabolites are excreted in human milk, however, 6MNA is excreted in the milk of lactating rats. Because of the possible adverse effects of prostaglandin-synthesis-inhibiting drugs on neonates, Relater is not recommended for use in nursing mothers.

Safety and efficacy in children have not been established.

Of the 1,677 patients in U.S. clinical studies who were treated with *Relaten*, 411 patients (24%) were 65 years of age or older. 22 patients (1%) were 75 years of age or older. No overall differences in efficacy or safety were observed between these older patients and younger onces. Similar results were observed in a one-year, non-U.S. postmarketing surveillance study of 10,800 *Relaten* patients, of whom 4,577 patients (42%) were 65 years of age or older.

ADVERSE REACTIONS: Incidence ≥1%-Probably Causally Related-Diamhea (14%), dyspepsia (13%), abdominal pain (12%), constipation*, flatulence*, nausea*, positive stool gualae*, dry mouth, gastritis, stomatitis, vomiting, dizzness*, headache*, fatigue, increased sweating, insomnia, nervousness, somnolence, pruntus*, rash*, tinnius*, edema*. *Incidence of reported reaction between 3% and 9%. Reactions occurring in 1% to 3% of the patients are unmarked.

Incidence 1⁻/⁻ Probably Causally Related — Anorexia, cholestatic jaundice, duodenal ulcer, dyshagia, gastric ulcer, gastroenteritis, gastrointestinal bleeding, increased appetite, liver function abnormalities, metaena, asthenia, agitation, anxiver, confusion, depression, malaise, paresthesis, tremor, vertigo, bullous eruptions, photosensitivity, urticaria, pseudoporphyria cutanea tarda, *toxic epidemal necrolysis*, vasculitis, weight gain, dyspnea, eosinophite pneumona, hypersensitivity, pneumonitys, abbuminuria, actoriania, hyperunicemia, intestitial nephritis, nephrotic syndrome, vaginal bleeding, abnormal vision, anaphylactoid reaction, anaphylaxis, angioneurotic edema.

Incidence -1%—Causal Relationship Unknown'—Bilirubinuna, duodenitis, eructation, galistones, gingwitis, glossitis, pancreatitis, rectal bleeding, inghtmares, acne, alopecia, erythema multiforme. Stevens-Johnson Syndrome, angina, arrhythmia, hypertension, myocardial infarction, palpitations, syncope, thrombophilebitis, asthma, cough, dyauta, hematuria, impotence, renal stones, taste disorder, fever, chills, anemia, leukopenia, granulocytopenia, thrombocytopenia, hyperghycemia, hypokalemia, weight loss. TAdverse reactions reported only in worldwide postmarketing experience or in the literature, not seen in clinical trials, are considered rarer and are italicized.

OVERDOSAGE: If acute overdose occurs, empty the stomach by vomiting or lavage and institute general supportive measures as necessary. Activated charcoal, up to 50 grams, may effectively reduce nabumetone absorption. Coadministration of nabumetone with charcoal to man has resulted in an 80% decrease in maximum plasma concentrations of the active metabolite.

One overdose occurred in a 17-year-old female patient who had a history of abdominal pain and was hospitalized for increased abdominal pain following ingestion of 30 *Relaten* tablets 115 grams total). Stools were negative for occult blood and there was no fall in serum hemoglobin concentration. The patient had no other symptoms. She was given an H₂-receptor antagonist and discharged from the hospital without sequelae.

DOSAGE AND ADMINISTRATION: Recommended starting dose. 1000 mg taken as a single dose with or without tood. Some patients may obtain more symptomatic relief from 1500 mg to 2000 mg daily. Dosages over 2000 mg daily have not been studied. Use the lowest effective dose for chronic treatment.

HOW SUPPLIED: Tablets: Oval-shaped, film-coated: 500 mg-white, imprinted with the product name RELAFEN and 500, in bottles of 100 and in Single Unit Packages of 100 lintended for institutional use only). 750 mg-beige, imprinted with the product name RELAFEN and 750, in bottles of 100 and 500, and in Single Unit Packages of 100 lintended for institutional use only).

Store at controlled room temperature (59° to 86°F) in well-closed container, dispense in light-resistant container.

500 mg 100's: NDC 0029-4851-20 500 mg 500's: NDC 0029-4851-25 500 mg SUP 100's: NDC 0029-4851-21 BRS-RL:L7

750 mg 100's: NDC 0029-4852-20 750 mg 500's: NDC 0029-4852-25 750 mg SUP 100's: NDC 0029-4852-21



SAY IT W

AMA MANUAL OF STYLE The one to consult

Whether it's a multi-volume work or a short article, you'll find the write stuff in the AMA Manual of Style. This 8th Edition, a major revision, is the standard among medical publishers. All major aspects of manuscript preparation are covered in five sections which outline: • Preparing an article for publication • Style • Terminology • Measurement and Quantitation • Technical Information and Bibliography.

You'll find everything you need to make your article a success including: • Legal and Ethical Matters • Grammar Punctuation • Word Use • Foreign Words and Phrases Diacritics
 Abbreviations
 Units of Measure
 Numbers and Percentages • Mathematics • Statistics • Production and Printing Terms . Editing and Proofreading Marks • Eponyms • Nomenclature • Greek Alphabet • Virus Names • SI Units and Conversion Tables • Expanded Collection of Graphs and Charts • Bibliography • Resources for On-Line Databases.

Next time you have a question about making your medical writing more clear, concise and accurate, be ready with one simple answer the AMA Manual of Style. Order your copy today!

1988/377 pp/ 4351-X/\$28.95

Want it faster? Call FREE 1-800-638-0672 from anywhere in the U.S.

Yes, send me _____ copies of AMA Manual of Style (4351-X) at \$28.95 per copy. If not completely satisfied, I may return the book within 30 days at no further obligation (US only).

Payment Options

Save postage and handling charges by enclosing your payment. Check enclosed Bill me VISA MasterCard Am Ex

Card #

Exp. Date

Signature/P.O. #

Name Address



Williams & Wilkins 428 East Preston Street, Baltimore, MD 21202

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[™] (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[™] Nasal Spray product labeling.

CONTRAIND/CATIONS: Flonase[™] Nasal Spray is contraindicated in patients with a hypersensitivity to any of its incredients

BRIEF SUMMARY

SHAKE GENTLY

BEFORE USE.

WARNINGS: The replacement of a systemic glucocorticoid with a topical glucocorticoid can be accompa-nied by signs of adrenal insufficiency, and in addition some patients may experience symptoms of with-drawal, 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 clin-ical conditions requiring long-term systemic glucocorticoid treatment, too rapid a decrease in systemic glucocorticolds 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 individu-als. 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 dis ease and/or prior conticosteroid 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 (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 glucocorticcids may lead to signs or symptoms of hypercorticism, suppression of HPA function, and/or suppression of growth in children or teenagers. Knemometry studies in asthmatic 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 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 Sprav 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 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 Flonase 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-lous 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 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 worse

scribed 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/m² se calculated on a surface area basis) for 78 weeks in the mouse or inhalation of up to 57 mcg/kg (336 mcg/m²) for 104 weeks in the rat. Fluticasone propionate did not induce gene mutation in prokaryotic or eukaryotic cells *in vitro*. No signif-icant classopenic 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 dide at dolta worther back dividing in bance moremu 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/m², respectively, as calculated on a surface area basis), revealed fetal toxicity characteristic of potent glucocorticoid 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/m²)

However, following oral administration of up to 300 mcg/kg (3.6 mg/m²) 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/m²) or rabbits (300 mcg/kg, 3.6 mg/m²).

Flonase[™] (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, doese 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 measur-able 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

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 suppres-sion, the possibility that they are particularly sensitive to this effect of glucocorticoids should be considered (see PRECAUTIONS)

Geeratric 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

Systemic glucocorticolo side effects were not reported outring controlled clinical studies up to 6 months duration with Flonase". Nesal 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 duration with the triated with Elemen Neural Cardon and the common 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 durations of the common seven control with seven 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 durations of the control with seven adverse reactions is based upon seven controlled clinical trials in the following hold the common seven control with seven the advect a

adults) were treated with Florase Nasa 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

Clinical relation in writed 240 patients (119 remate and 127 mate addrescents and addres) were freque write Florase Nasa IS pray 200 mcg once daily over 6 months. Incidence Greater than 1% (Causal Relationship Possible): *Respiratory*: Epistaxis, nasal burning (inci-dence 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 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 Flonase¹⁴ 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 bary for to days in rotations and repeat ones applied on ing daily for the days in proting the rotation 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 sign/s/symptoms of hypercorticism (see PRECAUTIONS).



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





F	Z.
	Cardizem CD
	Start with one
	180-mg
	capsule daily

HYPERTENSION ANGINA FOR OR

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 ventricular pacemaker, (2) patients with second- or third-degree AV block except in the presence of a functioning ventricular pacemaker, (3) 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

- 1. Cardiac Conduction. CARDIZEM prolongs AV node refractory periods without significantly prolonging sinus
- 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 dose 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 oral diltiazem in patients with impaired ventricular function (ejection fraction 24% ± 6%) showed improvement in indices of ventricular function without significant decrease in contractile function (dp/dt). Worsening of congestive heart failure has been reported in patients with preexisting impairment of ventricular function. Experience with the use of CARDIZEM (diltiazem hydrochoride) in combination with beta-blockers in gatients with impaired ventricular function. Experience with the use of CARDIZEM (diltiazem hydrochoride) in combination with beta-blockers in gatients with impaired ventricular function. Experience with the use of CARDIZEM (diltiazem hydrochoride) in combination with beta-blockers in gatients with impaired ventricular function. Experience with the use of the site of the site
- matic hypotension
- 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 diltazem 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 PBFCAUTIONS). 4 been reversible upon discontinuation of drug ther cases, but probable in some. (See PRECAUTIONS.)

PRECAUTIONS

PRECAUTIONS 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 functions should be monitored at regular intervals. The drug should be used with caution in patient 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 rootinued design. continued dosing.

Commission of the second secon Drug Interactions

Urug 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 contractility 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

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 dilti-azem to maintain optimum therapeutic blood levels. Beta-blockers: Controlled and uncontrolled domestic studies suggest that concomitant use of CARDIZEM and beta-blockers is usually well tolerated, 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 (dilitazem hydrochloride) concomitantly with propranolo in five normal volunteers resulted in increased propranolol levels in all subjects and bloavailability of propranolo was increased approxi-mately 50%. In vitro, propranolo lapears to be displaced from its binding sites by dilitazem. If combination therapy is initiated or withdrawn in conjunction with propranolo), an adjustment in the propranolo dose may be warranted. (See WARNINGS.)

therapy is initiated or withdrawn in conjunction with propranolol, an adjustment in the propranolol dose may be 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. Ranitdine 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** Administration of CABDIZEM with diroxin in 24 healthy male subjects increased plasma diroxin concen-

Digitalis. Administration of CARDIZEM with digoxin in 24 healthy male subjects increased plasma digoxin concen-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, it 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. Cyclosporine. A pharmacokinetic interaction between dilitazem and cyclosporine has been observed during studies involving renal and cardiac transplant patients. In renal and cardiac transplant recipients, a reduction of

Cyclosporine. A pharmacokinetic interaction between diltazem 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, Mutagenesis, Impairment of Fertility. 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 from five to ten times greater (on a mg/kg basis) than the daily recommended therapeutic dose has resulted in embryo and fetal 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 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 Diftazem 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	
Angina and	Hypertension Trials Combined	

Adverse Reactions	Cardizem CD (n=607)	Placebo (n=301)
tverse Reactions sadache ziziness adycardia / Block First Degree Jema 26 Abnormality sthenia	5.4% 3.0% 3.3% 3.3% 2.6% 1.6% 1.8%	5.0% 3.0% 1.3% 0.0% 1.3% 2.3% 1.7%

 Asthenia
 1.8%
 1.7%

 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%), hadcahe (4.6%), dizziness (3.5%), asthenia (2.6%), first-degree AV block (2.4%), bradycardia (1.7%), flushing (1.4%), nausea (1.4%), and rash (1.2%).
 In addition, 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, pabjtations, syncope, tachycardia, ventricular extrasystoles
 Nervous System: Abnormal dreams, amesia, depression, gait abnormality, hallucinations, insomnia, nervousness, paresthesia, personality change, somnolence, tinnitus, tremor

 Gastrointestinal: Anorexia, constipation, diarrhea, dry mouth, dysgeusia, dyspepsia, mild elevations of SGOT, SGPT, LDH, and alkaline phosphatase (see hepate warnings), hirst, vomiting, weight increase

 Demrantological: Petechiae, photosenstitivity, puritus, uriticaria
 Other. Ambiyopia, CPK, increase, dysnea, epistaxis, eye irritation, hyperglycemia, hyperuricemia, impotence, muscle cramps, nasal congestion, nocturia, osteoarticular pain, polyuria, sexual difficulties

 The following postmarketing events have been reported infrequently in patients receiving CARDIZEM: alopecia, erytherm anutiforme, extoliative dermattis, extrapyramidal symptoms, ginjvial hyperplasia, hemolytic anemia, increased bleeding time, leukopenia, purpura, retinopathy, and thrombocytopenia. In addition, events such as myocardial infarction have

Prescribing Information as of April 1993

Marion Merrell Dow Inc. Kansas City, MO 64114

pedb0493a

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





HYPERTENSION OR ANGINA

CARD 74 = V G

(diltiazem HCI) 120-, 180-, 240-, 300-mg Capsules

A unique hemodynamic and safety profile for hypertension or angina^{1,2}

A side-effect discontinuation rate comparable to placebo in both hypertension and angina trials²

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%)¹

Please see brief summary of prescribing information on adjacent page.

CVM94013001

@1994, Marion Merrell Dow Inc.