

Something to live for



Parkinson's syndrome is an insidious assault on the lifestyles of more than 58,000 Canadians.

For these individuals, daily, routine habits like knotting a tie, or pinning the hair, are often impossible tasks.

Symmetrel® can help many of these patients gain a better hold on their daily lives, and helps you to control the syndrome.

As initial, or adjunctive therapy, Symmetrel® for Parkinson's syndrome offers:

- few significant side effects, even after long-term use.¹
- noticeable benefits within 24 hours of start-up dose.¹
- easy usage with levodopa and anticholinergics.¹
- simple dosage regimen; simple titration.

SYMMETREL[®]
(amantadine HCl)

can help in Parkinson's Disease

©TM



For brief prescribing
information see page xxiii

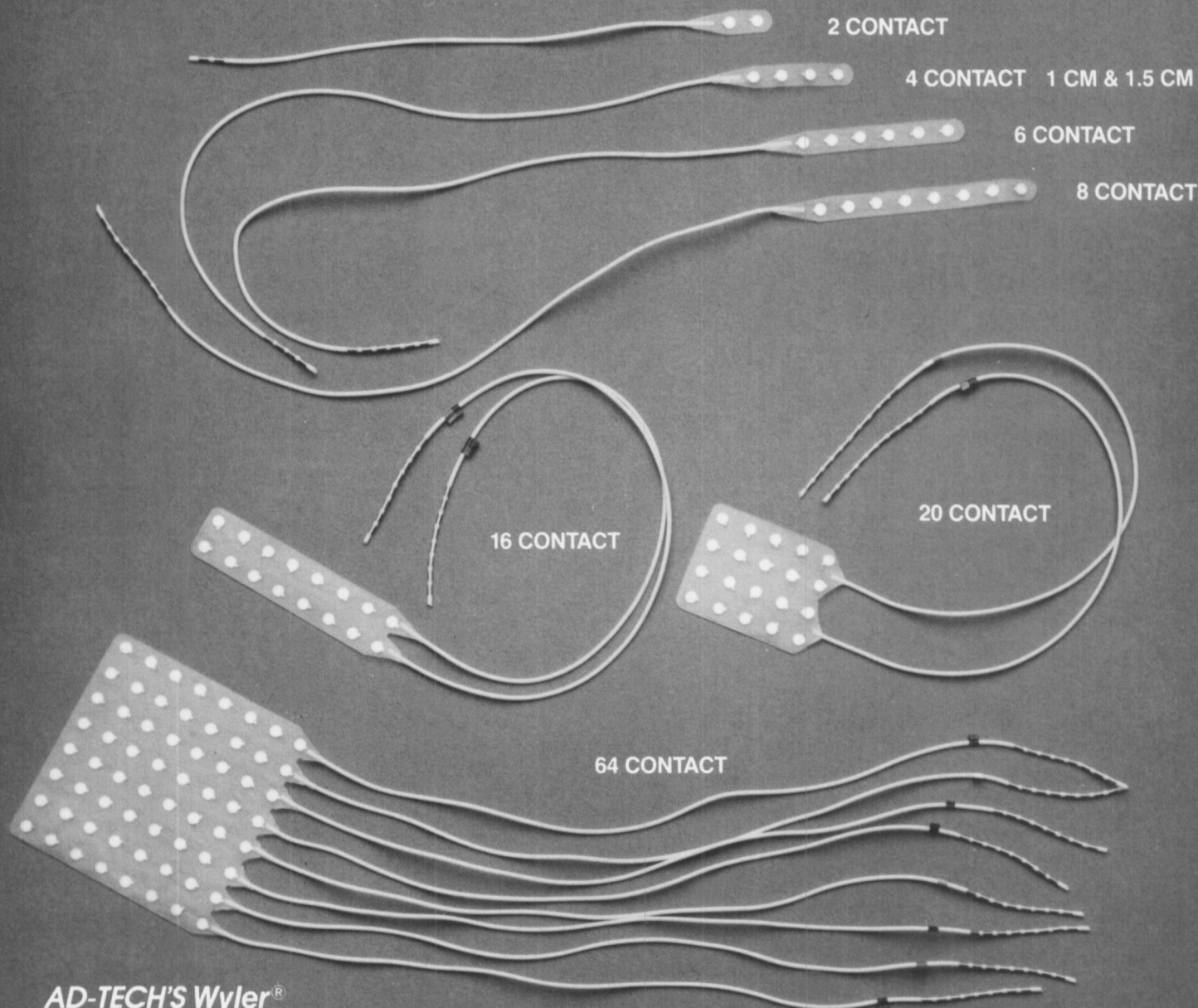
Du Pont Pharmaceuticals
Mississauga, Ontario
L5M 2J4



INTRODUCING AD-TECH'S Wyler® SUBDURAL ELECTRODES

WITH **TECH
ATTACH™** CONNECTION
SYSTEM

FOR ACCURATE EPILEPSY MONITORING



**AD-TECH'S Wyler®
SUBDURAL ELECTRODES ARE THE ONLY ELECTRODES WITH THESE FEATURES**

- MOST FLEXIBLE STRIPS AND ARRAYS
- THINNEST STRIPS AND ARRAYS
- PERCUTANEOUS REMOVAL (STRIPS)
- USE 14 ga. NEEDLE FOR TUNNELING
- RADIOPAQUE MARKERS AND WIRE CARRIERS
- UNIVERSAL COLOR MARKERS
- CUSTOM SIZES AND CONTACT CONFIGURATIONS
- STAINLESS STEEL OR PLATINUM

Patent Pending

**IN CANADA
WRITE OR CALL**

TEL: (416) 935-1584

FAX: (416) 892-8243



a division of
Sandstrom Trade & Technology Inc.
9 McNicholl Circle, St. Catharines
Ontario, Canada, L2N 7C5

ACTIONS Parlodel (bromocriptine mesylate) is a dopaminomimetic ergot derivative with D₂ type dopamine receptor agonist activity, and has also D₁ dopamine receptor antagonist properties. The dopaminomimetic activity of bromocriptine in the striatum is considered responsible for the clinical benefits seen in selected patients with Parkinson's disease, when low doses of the drug are gradually added to levodopa therapy in patients on long-term treatment who develop late side effects of levodopa or no longer respond to the medication. Excessive dopaminomimetic drive may, however, provoke psychotic and other adverse reactions.

The extreme variability in G.I. tract absorption and the extensive and individually variable first-pass metabolism are responsible for the broad variability in plasma concentrations of bromocriptine and, in part, for the variability in dose response.

INDICATIONS* Parkinson's Disease: Parlodel (bromocriptine mesylate) has been found to be clinically useful as an adjunct to levodopa (usually with a decarboxylase inhibitor), in the symptomatic management of selected patients with Parkinson's disease who experience prominent dyskinesia or wearing off reactions on long-term levodopa therapy.

Patients on long-term treatment who are beginning to deteriorate on levodopa therapy may be controlled by reducing the dose of levodopa and adjusting the frequency and schedule of drug administration. Patients maintained on optimal dosages of levodopa who still experience prominent dyskinesia and/or end-of-dose failure may benefit from the concomitant use of Parlodel, by decreasing the occurrence and/or severity of these manifestations. Since rapid escalation of bromocriptine doses causes severe adverse reactions, it is recommended to combine a slow increase of Parlodel, usually with a concomitant, gradual and limited reduction of levodopa dosage. Continued efficacy of bromocriptine for more than two years has not been established and there is some evidence that its efficacy tends to wane. Evidence available indicates that there is no consistent benefit from bromocriptine in patients who have not responded previously to levodopa, and studies have shown significantly more adverse reactions in bromocriptine-treated patients than in patients treated with levodopa. Parlodel is not recommended in the treatment of newly diagnosed patients or as the sole medication in Parkinson's disease.

CONTRAINDICATIONS Other than sensitivity to ergot alkaloids, no absolute contraindications to treatment with Parlodel (bromocriptine mesylate) are known. For procedure during pregnancy see "Use in Pregnancy" under Precautions.

WARNINGS Long-term treatment (6-36 months) with Parlodel in doses of 20 to 100 mg/day has been associated with pulmonary infiltrates, pleural effusion and thickening of the pleura in a few patients. Where Parlodel was discontinued, these changes slowly reverted to normal.

PRECAUTIONS Parlodel (bromocriptine mesylate) may cause hypotension, primarily postural; periodic monitoring of the blood pressure, particularly during the first days of therapy, is advisable. In some patients dizziness (vertigo) may occur with Parlodel; patients should therefore be cautioned against activities requiring rapid and precise responses, such as driving an automobile or operating dangerous machinery, until their response has been determined.

Care should be exercised when administering Parlodel concomitantly with phenothiazines or antihypertensive agents. Due to drug interaction at the receptor site, dosage should be adjusted accordingly.

Alcohol should be avoided during treatment with Parlodel. In some patients, the concomitant use of Parlodel and alcohol has given rise to alcohol intolerance and an increase in the severity and incidence of Parlodel's possible adverse reactions.

Parlodel should always be taken with food. In cases

where severe adverse effects, such as nausea, vomiting, vertigo or headaches are severe or persisting, the therapeutic dosage of Parlodel should be reduced to half of one tablet daily (1.25 mg) and increased gradually to that recommended. The dopamine antagonist domperidone may be useful in the control of severe gastrointestinal side effects in parkinsonian patients receiving Parlodel (see Drug Interactions).

As with all medication, Parlodel should be kept safely out of the reach of children.

Use in Pregnancy: If the patient wishes to become pregnant, Parlodel (bromocriptine mesylate) should be stopped as soon as possible after conception is suspected. In this event immunological confirmation should be done immediately. When pregnancy is confirmed, Parlodel, like all other drugs, should be discontinued unless, in the opinion of the treating physician, the possible benefit to the patient outweighs the potential risk to the fetus.

In human studies with Parlodel (reviewed by Turkalj, I.), there were 1410 reported pregnancies, which yielded 1236 live and 5 stillborn infants from women who took Parlodel (bromocriptine mesylate) during early pregnancy. Among the 1241 infants, 43 cases (31 minor and 12 major) of congenital anomalies were reported. The incidence (3.46%) and type of congenital malformations and the incidence of spontaneous abortions (11.13%) in this group of pregnancies does not exceed that generally reported for such occurrences in the population at large.

Use in Parkinson's Disease: Use of Parlodel (bromocriptine mesylate), particularly in high doses, may be associated with mental confusion and mental disturbances. Since patients with Parkinson's disease may manifest varying degrees of dementia, caution should be exercised when treating such patients with Parlodel.

Parlodel administered alone or concomitantly with levodopa may cause visual or auditory hallucinations. These usually resolve with dosage reduction, but discontinuation of Parlodel may be required in some cases. Rarely, after high doses, hallucinations have persisted for several weeks following discontinuation of Parlodel. Caution should be exercised when administering Parlodel to patients with a history of myocardial infarction, particularly if they have a residual atrial, nodal or ventricular arrhythmia.

Symptomatic hypotension can occur and, therefore, caution should be exercised when administering Parlodel, particularly in patients receiving antihypertensive medication. Periodic evaluation of hepatic, hematopoietic, cardiovascular and renal function is recommended.

Drug Interactions: The concomitant use of erythromycin may increase bromocriptine plasma levels.

Domperidone, a dopamine antagonist, may cause increases in serum prolactin. In so doing, domperidone may antagonise the therapeutically relevant prolactin lowering effect of Parlodel. It is possible that the antitumorigenic effect of Parlodel in patients with prolactinomas may be partially blocked by domperidone administration.

ADVERSE REACTIONS The most frequently observed adverse reactions are nausea, vomiting, headache and gastrointestinal side effects such as abdominal pain, diarrhea and constipation. All these effects may be minimized or even prevented by giving small initial doses of bromocriptine and by taking it with food.

Postural hypotension which can, on rare occasions, lead to fainting and "shock-like" syndromes has been reported in sensitive patients. This is most likely to occur during the first few days of Parlodel treatment.

When bromocriptine is added to levodopa therapy, the incidence of adverse reactions may increase. The most common newly appearing adverse reactions in combination therapy were: nausea, abnormal involuntary movements,

hallucinations, confusion, "on-off" phenomenon, dizziness, drowsiness, faintness, fainting, vomiting, asthenia, abdominal discomfort, visual disturbance, ataxia, insomnia, depression, hypotension, shortness of breath, constipation and vertigo.

Less common adverse reactions include anorexia, anxiety, blepharospasm, dry mouth, dysphagia, edema of the feet and ankles, erythromelalgia, epileptiform seizures, fatigue, headache, lethargia, mottling of skin, nasal stuffiness, nervousness, nightmares, paresthesia, skin rash, urinary frequency, urinary incontinence, urinary retention and rarely signs or symptoms of ergotism such as tingling of fingers, cold feet, numbness, muscle cramps of feet and legs or exacerbation of Raynaud's syndrome.

Abnormalities in laboratory tests may include elevation of blood urea nitrogen, SGOT, SGPT, GGPT, CPK, alkaline phosphatase and uric acid, which are usually transient and not of clinical significance.

The occurrence of adverse reactions may be lessened by temporarily reducing dosage to one-half tablet two or three times daily.

SYMPTOMS AND TREATMENT OF OVERDOSE There have been several reports of acute overdosage with Parlodel (bromocriptine mesylate) in children and adults. No life threatening reactions have occurred. Symptoms reported included nausea, vomiting, dizziness, drowsiness, hypotension, sweating and hallucinations. Management is largely symptomatic; the cardiovascular system should be monitored. Metoclopramide can be used to antagonize the emesis and hallucinations in patients who have taken high doses.

DOSAGE AND ADMINISTRATION Parlodel (bromocriptine mesylate) should always be taken with food.

Although Parlodel (bromocriptine mesylate) has been found clinically useful in decreasing the severity and frequency of "on-off" fluctuations of late levodopa therapy, the decision to use bromocriptine as adjunctive treatment and the selection of dosage must be individualized in each case. A low dose is recommended. The initial dose of Parlodel is one half of a 2.5 mg tablet (1.25 mg) at bedtime with food to establish initial tolerance. Thereafter, the recommended dosage is 2.5 mg daily in two divided doses, with meals, (half a 2.5 mg tablet twice daily). The dosage may be increased very gradually, by adding an additional 2.5 mg per day, once every 2 to 4 weeks, to be taken always in divided doses with meals. Increments should usually not exceed 2.5 mg. Clinical assessments are recommended at two week intervals or less during dosage titration, to ensure that the lowest effective dosage is not exceeded. The usual dosage range is from a few milligrams to 40 mg daily in two or three divided doses with meals. The median dose varies with the experience of individual investigators, but can be around 10 mg daily or higher. During initial titration it is recommended that the dosage of levodopa should be maintained, if possible. Subsequently, it might be desirable to combine a slow increase of bromocriptine with a concomitant, limited and gradual reduction of levodopa.

AVAILABILITY

TABLETS each containing 2.5 mg bromocriptine, as mesylate, available in bottles of 100.

CAPSULES each containing 5 mg bromocriptine, as mesylate, available in bottles of 100.

*For information on other approved indications, please consult the Parlodel product monograph, available to physicians and pharmacists on request.

 **SANDOZ**

Sandoz Canada Inc.
P.O. Box 385
Dorval, Quebec H9R 4P5

See ifc

LIORESAL®

(baclofen)
Muscle relaxant
Antispastic agent

INDICATIONS AND CLINICAL USES

Alleviation of signs and symptoms of spasticity resulting from multiple sclerosis. Spinal cord injuries and other spinal cord diseases.

CONTRAINDICATIONS

Hypersensitivity to LIORESAL.

WARNINGS

Abrupt Drug Withdrawal: Except for serious adverse reactions, the dose should be reduced slowly when the drug is discontinued to prevent visual and auditory hallucinations, confusion, anxiety with tachycardia and sweating, and worsening of spasticity.

Impaired Renal Function: Caution is advised in these patients and reduction in dosage may be necessary.

Stroke: Has not been of benefit and patients have shown poor tolerability to the drug.

Pregnancy and Lactation: Not recommended as safety has not been established. High doses in rats and rabbits are associated with an increase of abdominal hernias and ossification defects in the fetuses.

PRECAUTIONS

Not recommended in children under 12 as safety has not been established.

Because sedation may occur, caution patients regarding the operation of automobiles or dangerous machinery, activities made hazardous by decreased alertness, and use of alcohol and other CNS depressants.

Use with caution in spasticity that is utilized to sustain upright posture and balance in locomotion, or whenever spasticity is utilized to obtain increased function, epilepsy or history of convulsive disorders (clinical state and EEG should be monitored), peptic ulceration, severe psychiatric disorders, elderly patients with cerebrovascular disorders, and patients receiving antihypertensive therapy.

ADVERSE REACTIONS

Most common adverse reactions are transient drowsiness; dizziness; weakness and fatigue. Others reported:

Neuropsychiatric: Headache, insomnia, euphoria, excitement, depression, confusion, hallucinations, paresthesia, muscle pain, tinnitus, slurred speech, coordination disorder, tremor, rigidity, dystonia, ataxia, blurred vision, nystagmus, strabismus, miosis, mydriasis, diplopia, dysarthria, epileptic seizures.

Cardiovascular: Hypotension, dyspnea, palpitation, chest pain, syncope.

Gastrointestinal: Nausea, constipation, dry mouth, anorexia, taste disorder, abdominal pain, vomiting, diarrhea, and positive test for occult blood in stool.

Genitourinary: Urinary frequency, enuresis, urinary retention, dysuria, impotence, inability to ejaculate, nocturia, hematuria.

Other: Rash, pruritus, ankle edema, excessive perspiration, weight gain, nasal congestion.

Some of the CNS and genitourinary symptoms reported may be related to the underlying disease rather than to drug therapy.

The following laboratory tests have been found to be abnormal in a few patients receiving LIORESAL: SGOT, alkaline phosphatase and blood sugar (all elevated).

SYMPTOMS AND TREATMENT OF OVERDOSAGE

Signs and Symptoms: Vomiting, muscular hypotonia, hypotension, drowsiness, accommodation disorders, coma, respiratory depression, and seizures.

Co-administration of alcohol, diazepam, tricyclic anti-depressants, etc., may aggravate the symptoms.

Treatment: Treatment is symptomatic. In the alert patient, empty the stomach (induce emesis followed by lavage). In the obtunded patient, secure the airway with a cuffed endotracheal tube before beginning lavage (do not induce emesis).

Maintain adequate respiratory exchange; do not use respiratory stimulants. Muscular hypotonia may involve the respiratory muscles and require assisted respiration. Maintain high urinary output. Dialysis is indicated in severe poisoning associated with renal failure.

DOSAGE AND ADMINISTRATION

Optimal dosage of LIORESAL requires individual titration. Start therapy at a low dosage and increase gradually until optimum effect is achieved (usually 40-80 mg daily).

The following dosage titration schedule is suggested:

5 mg t.i.d. for 3 days

10 mg t.i.d. for 3 days

15 mg t.i.d. for 3 days

20 mg t.i.d. for 3 days

Total daily dose should not exceed a maximum of 20 mg q.i.d.

The lowest dose compatible with an optimal response is recommended. If benefits are not evident after a reasonable trial period, patients should be slowly withdrawn from the drug (see Warnings).

AVAILABILITY

LIORESAL (baclofen) 10 mg tablets: White to off-white flat-faced, oval tablets with GEIGY monogram on one side and the identification code 23 below the monogram. Fully bisected on the reverse side.

LIORESAL D.S. 20 mg tablet: White to off-white capsule-shaped, biconvex tablets. Engraved GEIGY on one side and GW with bisect on the other.

Available in bottles of 100 tablets.

Product Monograph supplied on request.

References:

1. Cartledge, N.E.F., Hudgson, P., Weightman, D.: A comparison of baclofen and diazepam in the treatment of spasticity. *J Neurol. Sci.* 23: 17-24 (1974).
2. Young, R., Delwaide, P.: Spasticity. *New England Journal of Medicine* 304: 28-33 & 96-99 (1981).
3. From, A., Heltberg, A.: A double blind trial with baclofen and diazepam in spasticity due to multiple sclerosis. *Acta Neurol. Scandinav.* 51: 158-166, (1975).

see obc

SYMMETREL® (Amantadine HCl) Antiparkinsonian Agent

INDICATIONS: The treatment of Parkinson's syndrome and in the short-term management of drug-induced extrapyramidal symptoms.

CONTRAINDICATIONS: Patients with known hypersensitivity to the drug.

WARNINGS: Patients with a history of epilepsy or other "seizures" should be observed closely for possible untoward central nervous system effects. Patients with a history of congestive heart failure or peripheral edema should be followed closely as there are patients who developed congestive heart failure while receiving SYMMETREL®. Safety of use in pregnancy has not been established. SYMMETREL® should not be used in women of childbearing potential, unless the expected benefit to the patient outweighs the possible risk to the fetus.

SYMMETREL® is secreted in the milk and should not be administered to nursing mothers.

PRECAUTIONS: The dose may need careful adjustment in patients with renal impairment, congestive heart failure, peripheral edema or orthostatic hypotension. Since SYMMETREL® is not metabolized and is mainly excreted in the urine, it may accumulate when renal function is inadequate.

Care should be exercised when administering to patients with liver disease, a history of recurrent eczematoid rash, psychosis, or severe psychoneurosis not controlled by chemotherapeutic agents. Careful observation is required when administered concurrently with central nervous system stimulants.

Patients with Parkinson's syndrome improving on SYMMETREL® should resume normal activities gradually and cautiously, consistent with other medical considerations, such as the presence of osteoporosis or phlebotrombosis. Patients receiving SYMMETREL® who note central nervous system effects or blurring of vision should be cautioned against driving or working in situations where alertness is important. SYMMETREL® should not be discontinued abruptly since a few patients with Parkinson's syndrome experienced a parkinsonian crisis, i.e., sudden marked clinical deterioration, when this medication was suddenly stopped.

The dose of anticholinergic drugs or of SYMMETREL® should be reduced if atropine-like effects appear when these drugs are used concurrently.

ADVERSE REACTIONS: Adverse reactions have occurred in patients while receiving SYMMETREL® alone or in combination with anticholinergic antiparkinson drugs and/or levodopa.

Important adverse reactions are orthostatic hypotensive episodes, congestive heart failure, depression, psychosis and urinary retention; and rarely convulsions, reversible leukopenia and neutropenia, and abnormal liver function test results.

Adverse reactions of less importance are: anorexia, anxiety, ataxia, confusion, hallucinations, constipation, dizziness (light-headedness), dry mouth, headache, insomnia, livedo reticularis, nausea, peripheral edema, drowsiness, dyspnea, fatigue, hyperkinesia, irritability, nightmares, rash, slurred speech, visual disturbance, vomiting and weakness; and very rarely eczematoid dermatitis and oculogyric episodes. Some side effects were transient and disappeared even with continued administration of the drug.

SYMPTOMS AND TREATMENT OF OVERDOSAGE: Limited data are available concerning clinical effects and management of SYMMETREL® overdosage. An elderly patient with Parkinson's syndrome who took an overdose of 2.8 g of SYMMETREL® in a suicidal attempt, developed acute toxic psychosis, urinary retention, and a mixed acid-base disturbance. The toxic psychosis was manifested by disorientation, confusion, visual hallucinations and aggressive behaviour. Convulsions did not occur, possibly because the patient had been receiving phenytoin prior to the acute ingestion of SYMMETREL®.

There is no specific antidote. For acute overdosing, general supportive measures should be employed, along with immediate gastric lavage or induction of emesis. Fluids should be forced, and if necessary, given I.V. The pH of the urine has been reported to influence the excretion rate of SYMMETREL®. Since the excretion rate of SYMMETREL® increases rapidly when the urine is acidic, the administration of urine acidifying fluids may increase the elimination of the drug from the body. Blood pressure, pulse, respiration and temperature should be monitored. The patient should be observed for possible development of arrhythmias, hypotension, hyperactivity, and convulsions; if required, appropriate therapy should be administered. Blood electrolytes, urine pH and urinary output should be monitored. If there is no record of recent voiding, catheterization should be done. The possibility of multiple drug ingestion by the patient should be considered.

DOSAGE AND ADMINISTRATION: Parkinson's Syndrome: Initial dose is 100 mg daily for patients with serious associated medical illnesses or who are receiving high doses of other antiparkinson drugs. After one to several weeks at 100 mg once daily, the dose may be increased to 100 mg twice daily. When SYMMETREL® and levodopa are initiated concurrently, SYMMETREL® should be held constant at 100 mg daily or twice daily while the daily dose of levodopa is gradually increased to optimal dose. When used alone, the usual dose of SYMMETREL® is 100 mg twice a day. Patients whose responses are not optimal with SYMMETREL® at 200 mg daily may benefit from an increase to 300 mg daily in divided doses. Patients who experience a fall-off of effectiveness may regain benefit by increasing the dose to 300 mg daily; such patients should be supervised closely by their physicians.

DOSAGE FORMS: Capsules: (bottles of 100) - each red, soft gelatin capsule contains 100 mg of amantadine HCl. Syrup: (500 mL) - each 5 mL (1 teaspoonful) of clear colorless syrup contains 50 mg of amantadine HCl.

References:
1. Schwab RS, Poskanzer DC, England AC Jr., Young RR: Amantadine in Parkinson's disease. *JAMA* 1972;227:7.

Product monograph available on request.

© TM

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

PAAB
CCPP

Du Pont Pharmaceuticals
Mississauga, Ontario
L5M 2J4

See page xvi

Geigy

Mississauga, Ontario
L5N 2W5

PAAB
CCPP

DU PONT
CANADA

PEDIATRIC NEUROLOGIST

MEMORIAL UNIVERSITY OF NEWFOUNDLAND FACULTY OF MEDICINE

The Discipline of Pediatrics of the Faculty of Medicine at Memorial University of Newfoundland and the Dr. Charles A. Janeway Child Health Centre, St. John's, Newfoundland, are seeking a Pediatric Neurologist for a full-time faculty and hospital appointment. This appointment carries with it a faculty rank appropriate to the training and experience of the accepted candidate.

Memorial University has a fully accredited training program for Certification in Pediatrics. Trainees in Adult Neurology also rotate to the Pediatric Neurology service for part of their training.

In accordance with Canadian Immigration regulations, preference will be given to Canadian citizens and permanent residents.

Please apply, with a curriculum vitae and the names of three referees to:

Dr. Albert J. Davis
Professor and Chairman
Discipline of Pediatrics
Faculty of Medicine
Memorial University of Newfoundland
St. John's, Newfoundland
Canada A1B 3V6

UNIVERSITY OF TORONTO

CENTRE FOR RESEARCH IN NEURODEGENERATIVE DISEASES

Applications are invited for a position in research into the etiology and mechanisms of amyotrophic lateral sclerosis (motor neuron) disease. Applicants must have a Ph.D. or M.D. and have a strong background in molecular biology, molecular genetics and gene regulation. Start up funds will be provided. Successful candidates must initiate independent and original research programs.

The Centre is located in the core of the University/Hospital complex in close proximity to more than 150 neuroscientists.

Send a curriculum vitae and names of references to Dr. D.R. McLachlan, Centre for Research in Neurodegenerative Diseases, University of Toronto, Rm. 3318, Medical Sciences Bldg., 1 King's College Circle, Toronto, Canada, M5S 1A8. Application deadline: June 30, 1990.

The University of Toronto encourages both men and women to apply for positions. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

MACLACHLAN STROKE RESEARCH FELLOW

Full-time clinical research associated with Acute Stroke Unit in the Department of Neurosciences, Stroke Research Unit, and associated Neurobehavioural Unit. Post includes training and research in Carotid and Transcranial Doppler Laboratory, Neuroimaging, and in disorders of speech and behavioural changes related to stroke.

Position starts July 1, 1991. Preference for 2 years' tenure.

Apply: Dr. J.W. Norris or Dr. S.E. Black
Stroke Research Unit
Sunnybrook Health Science Centre
2075 Bayview Avenue
Toronto, Canada M4N 3M5
(416) 480-4287

THE UNIVERSITY OF CALGARY

HEAD, DEPARTMENT OF CLINICAL NEUROSCIENCES

The University of Calgary Faculty of Medicine, and the Foothills Hospital, invite applications and nominations for the position of Head of the Department of Clinical Neurosciences. This is a growing multidisciplinary department which includes representation from neurology, neurosurgery and related fields. The University of Calgary is accredited for residency training in adult and paediatric neurology and in neurosurgery.

We are searching for an outstanding academic neurologist or neurosurgeon with proven administrative leadership and research experience. The successful candidate will relate to the practising community and the affiliated teaching hospitals, and to the Neurosciences Research Group in the Faculty of Medicine.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities, and people with disabilities.

Applications and nominations, including a curriculum vitae, a statement of research interests and academic goals, and the names of three referees should be forwarded by May 31, 1990, to:

Dr. M. Watanabe
Dean, Faculty of Medicine
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta T2N 4N1

Zostrix™

capsaicin 0.025%

DESCRIPTION

Zostrix™ cream contains capsaicin 0.025% in an emollient base. Capsaicin is a naturally occurring substance derived from plants of the Solanaceae family with the chemical name trans-8-methyl-N-vanillyl-6-nonenamide. Capsaicin is a white crystalline powder with a molecular weight of 305.4. It is practically insoluble in water but very soluble in alcohol, ether and chloroform.

ACTION AND INDICATIONS

Although the precise mechanism of action of capsaicin is not fully understood, current evidence suggests that capsaicin renders skin insensitive to pain by depleting and preventing reaccumulation of substance P in peripheral sensory neurons. Substance P is thought to be the principal chemomediator of pain impulses from the periphery to the central nervous system. Zostrix™ cream is indicated for the temporary relief of the pain (neuralgia) associated with and following episodes of Herpes Zoster infections after open skin lesions have healed.

WARNINGS

For external use only. Avoid contact with eyes and broken or irritated skin. Do not bandage tightly. If condition worsens, or if symptoms persist for more than 14 days or clear up and occur again within a few days, discontinue use of this product and consult your physician. Keep this and all drugs out of the reach of children.

DIRECTIONS

Adults and children 2 years of age or older: Apply Zostrix™ to affected area not more than 3 or 4 times daily. Zostrix™ may cause transient burning on application. This burning is observed more frequently when application schedules of less than 3 or 4 times daily are utilized. After Zostrix™ is applied with the fingers, the hands should be washed immediately.

IMPORTANT GUIDELINES FOR USE

Patient compliance is vital to successful therapy. Patients should be instructed to apply Zostrix™ to the affected area three or four times daily. Optimal response should be achieved within 14 to 28 days. Continued application of Zostrix™ three or four times daily is necessary to sustain its clinical effect.

HOW SUPPLIED

42.5 g tubes (DIN 740306)

™ Trademark of GenDerm Canada Inc.

GENDERM

GenDerm Canada Inc.
355 McCaffrey
Montréal, Québec H4T 1Z7

See page ii



SCOTT & WHITE



TEXAS A&M UNIVERSITY
College of Medicine
TEMPLE CAMPUS

The Department of Neurologic Surgery of the Scott and White Institutions and Texas A&M University College of Medicine is seeking applications for senior staff physician faculty in the Sections of Pain/Stereotaxic Surgery or Neurosurgical Oncology. Residency or post residency experience and a defined interest in either subspecialty area together with a broad capability and interest in general neurosurgical disorders is desired. Basic and clinical research opportunities are available commensurate with previous experience. Medical student and resident teaching/daily responsibilities are required. The main campus is located in central Texas, north of Austin in the approximate center of the Dallas/ Ft. Worth, San Antonio, Houston triangle and benefits from easy access to other surrounding universities (Southwestern University, Georgetown; University of Mary Hardin-Baylor, Belton; Baylor University, Waco.)

For further information, please send curriculum vitae and references to:

Mitchell Smigiel, M.D., Chairman, Neurologic Surgery
Scott and White, Texas A&M University
College of Medicine
2401 South 31st Street, Temple, TX 76508

Axsain™

(capsaicin 0.075%)

Topical Analgesic Cream

Description: Axsain contains capsaicin 0.075% in an emollient cream base. Capsaicin is trans-8-methyl-N-vanillyl-6-nonenamide, a white crystalline powder with a molecular weight of 305.4. It is practically insoluble in water but very soluble in alcohol, ether and chloroform.

Active Ingredient: Capsaicin 0.075%

Inactive Ingredients: Benzyl Alcohol, Cetyl Alcohol, Glyceryl Monostearate, Isopropyl Myristate, Polyoxyethylene Stearate Blend, Purified Water, Sorbitol Solution, White Petrolatum

Actions and Indications: Current evidence suggests that Axsain works by its action on a pain transmitting compound called substance P. The capsaicin in Axsain causes substance P to leave the nerve endings. With a lower amount of substance P in the nerve endings, pain impulses cannot be transmitted to the brain. Axsain is indicated for relief of neuralgias (pain from nerves near the surface of the skin) such as painful diabetic neuropathy and postsurgical pain.

Warnings: Avoid contact with eyes. Do not apply to wounds or damaged skin. Do not bandage. If condition worsens or does not improve after 28 days, discontinue use of this product and consult your physician. Keep this and all drugs out of reach of children.

Directions: Adults and children 2 years of age and older: Apply to affected area 3 to 4 times daily. A transient burning sensation related to the action of the product may occur over the first several days of use. Application schedules less than 3 times a day may not provide optimum pain relief and the burning sensation may persist. Wash hands immediately after application avoiding areas where drug is applied.

How Supplied: 42.5 g tubes (DIN 00769622)



Relief and comfort for diabetic neuropathy patients

Reference

1. Data on file 1989, GenDerm Canada Inc.

GENDERM

GenDerm Canada Inc.
355 McCaffrey
Montréal, Québec, H4T 1Z7

See page xi

ANOTHER UNEVENTFUL DAY.



DILANTIN

(phenytoin)

Start with it. Stay with it.

DILANTIN* (phenytoin) is a drug of first choice for controlling generalized tonic clonic seizures.

No other antiepileptic is more widely prescribed.¹

No other antiepileptic has been the subject of more extensive clinical studies²

And no other antiepileptic boasts a more simplified medication schedule.

The slow absorption of Dilantin Capsules allows a single daily dose for maintenance therapy in many adults, once the divided dose of three 100 mg capsules has adequately controlled seizures.

References: 1. CDTI 2. Goodman and Gilman, Sixth Edition.

PARKE-DAVIS


Parke-Davis Canada Inc., Scarborough, Ontario

PAAB
CCPP

*Reg. T.M. Parke, Davis & Company, Parke-Davis Canada Inc., auth. user

PMAC

For brief prescribing information see page xx



**LIFE WITH
SPASTICITY DOESN'T
HAVE TO BE AN
OCCUPATIONAL
HAZARD.**

To the patient with spasticity daily living is often distressing – sometimes hazardous. LIORESAL (baclofen) is one of the most effective agents for the treatment of spasticity associated with Multiple Sclerosis and spinal cord injury / disease and, unlike diazepam, oversedation is rarely a problem.^(1,2,3,4) Help your patient experience a less hazardous daily life.

LIORESAL[®]
(Baclofen)
For Spasticity

For brief prescribing information see page xxi