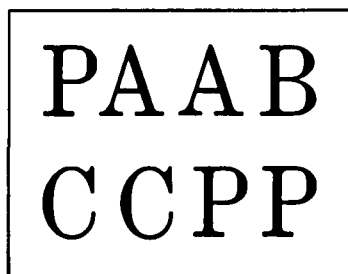


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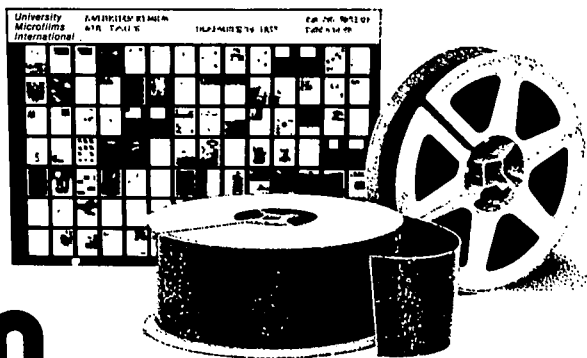
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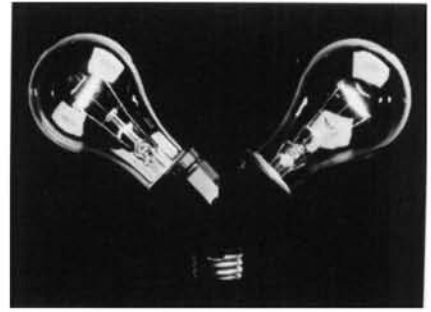
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New Sandomigran[®] DS

Specific, Double Strength headache prophylaxis.

PRESCRIBING INFORMATION

SANDOMIGRAN (Pizotylina) SANDOMIGRAN D.S.

Dosage – The average maintenance dosage is 0.5 mg 1 i d. A progressive dosage is recommended until the fifth day of therapy. The dosage range is 1 to 6 mg per day.

Since vascular headache is a paroxysmal but basically chronic disorder, treatment must extend over an adequate period of time in order to obtain maximal benefit. While some patients have responded rather quickly, most investigators agree that a four-week trial period should be instituted to determine the true efficacy of pizotylina in specific cases. The periodic nature of the disorder will have to be considered in determining when and for how long therapy should be maintained. Since some investigators have observed a change in headache pattern after several months of therapy, a drug-free interval is advisable to reassess the necessity of continuing treatment. The dosage should be reduced gradually during the last two weeks of each treatment course to avoid a "headache rebound".

Composition – Each ivory, sugar-coated tablet contains 0.5 mg of pizotylina as the hydrogen malate. Each single scored white tablet contains 1 mg of pizotylina as the hydrogen malate.

Contraindications – Anticholinergic agents, including pizotylina, are contraindicated in patients taking monoamine oxidase inhibitors, and in patients with pyloroduodenal obstruction and stenosing pyloric ulcer. Pizotylina is also contraindicated for patients who have a known sensitivity to the drug. Until further studies are completed, the drug is not recommended for children under the age of twelve.

Warnings and precautions – Since drowsiness may occur with pizotylina, sensitive patients should be cautioned against activities requiring rapid and precise response (i.e. driving an automobile or operating dangerous machinery) until their response to the drug has been determined. Since the effects of antihistamines can potentiate those of other drugs affecting the central nervous system, patients should be cautioned against drinking alcoholic beverages or taking hypnotics, sedatives, psychotherapeutic agents or other drugs with CNS depressant effects during pizotylina therapy. Administer pizotylina with caution to patients with narrow angle glaucoma or with urinary retention (e.g. prostatic hypertrophy).

Since it is desirable to keep drug administration to a minimum during pregnancy, pizotylina should be given only when the benefits derived from treatment exceed the possible risks to mother and fetus.

Some patients developed tolerance to pizotylina with prolonged use of the drug. An increase in dosage may overcome this tolerance.

After prolonged use, hepatotoxic effects might occur and patients should be advised to report for adequate laboratory evaluation.

Patients with diabetes, cardiovascular disease and known or suspected impaired renal or hepatic function should be given pizotylina with caution, and appropriate laboratory tests should be done at regular intervals.

Lens opacities occurred in two cases but did not appear to be drug-related. However, it is recommended that any impairment in vision be reported to the attending physician for further investigation.

Side effects – Increased appetite, weight gain, and drowsiness are the most frequent side effects. An appropriate diet should be recommended by the physician for patients benefiting from the drug but gaining excessive weight. A gradual increase in the dosage of pizotylina is recommended to minimize or reduce the incidence of drowsiness. The following adverse effects have been observed less frequently in relation to the aforementioned reactions: fatigue, nausea, dizziness, headache, confusion, edema, hypotension, depression, weakness, epigastric distress, dry mouth, nervousness, impotence and muscle pain.

Supply – 0.5 mg tablets in bottles of 100 and 500; 1 mg scored tablets in bottles of 100.

Complete prescribing information available on request.

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Full-time position available for one year starting July 1981 for clinical investigation of acute stroke. Research activities located in the non-invasive cerebrovascular laboratory (cerebral blood flow and Doppler ultrasound) attached to the MacLachlan Stroke Unit.

Reply to: Dr. J.W. Norris, Dept. of Neurosciences, Sunnybrook Medical Centre, 2075 Bayview Avenue, Toronto, Canada.

Depakene^{*}

valproic
acid



**better
control
for more
epileptic
patients**

Depak

valproic acid

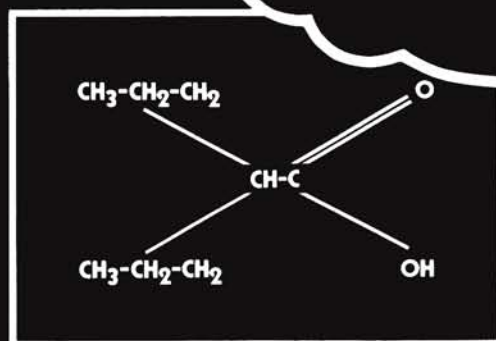
A major advance in anti-convulsant therapy that could bring more epileptic patients closer to normal.

as sole and adjunctive treatment of simple or complex absence seizures, including petit mal.

as adjunctive therapy of multiple seizures that include absence attacks.

a unique chemical structure

DEPAKENE is a simple fatty acid, chemically unrelated to other anticonvulsants.



a physiological mode of action

DEPAKENE appears to increase GABA (γ -aminobutyric acid) levels in the brain and cerebellum. GABA is known to inhibit neuronal excitability.¹

Depakene extends the range

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**“remarkably free
of side effects in the
general context of
antiepileptics”³**

Patients taking DEPAKENE have been reported to be more lively and alert and better able to carry out their daily tasks.³

DEPAKENE has not been associated with cosmetically undesirable side effects such as hirsutism, acne and gum hyperplasia. Although inhibition of platelet aggregation and leukopenia have been occasionally reported, it has not been associated with aplastic anemia or agranulocytosis. And DEPAKENE has no record of tolerance in long-term use.²

**world-wide documentation
of effectiveness**

Numerous publications and clinical trials involving more than 4000 patients whose ages ranged from 5 months to 71 years, have demonstrated the antiepileptic efficacy of DEPAKENE.

An overview of clinical studies² involving valproic acid in 1020 patients demonstrates an excellent (75-100%) reduction in seizure frequency in 45.7% of patients, and satisfactory results (33-74% reduction of seizures) in 25.4% more

of anticonvulsant therapy.

Depakene

valproic acid

Prescribing Information

CLINICAL PHARMACOLOGY

Depakene (valproic acid) has anticonvulsant properties. Although its mechanism of action has not yet been established, it has been suggested that its activity is related to increased brain levels of gamma-aminobutyric acid (GABA).

Valproic acid is rapidly absorbed after oral administration. Peak serum levels occur approximately one to four hours after a single oral dose. The serum half-life ($t_{1/2}$) of valproic acid is approximately 8 to 12 hours. Valproic acid is rapidly distributed throughout the body and the drug is strongly bound (90%) to human plasma proteins. The therapeutic plasma concentration range is believed to be from 50 to 100 μ g/mL.

Excretion of valproic acid and its metabolites occurs principally in the urine, with minor amounts in the feces and expired air. Very little unmetabolized parent drug is excreted in the urine. The principal metabolite formed in the liver is the glucuronide conjugate.

INDICATIONS AND CLINICAL USE

Depakene (valproic acid) is indicated for use as sole and adjunctive therapy in the treatment of simple and complex absence seizures, including petit mal. Valproic acid may also be used adjunctively in patients with multiple seizure types which include absence.

In accordance with the International Classification of Seizures, simple absence is defined as a very brief clouding of the sensorium or loss of consciousness (lasting usually 2-15 seconds), accompanied by certain generalized epileptic discharges without other detectable clinical signs. Complex absence is the term used when other signs are also present.

CONTRAINDICATIONS

Depakene (valproic acid) is contraindicated in patients with known hypersensitivity to the drug.

WARNINGS

Hepatic failure resulting in fatalities, has occurred in patients receiving Depakene (valproic acid). These events have occurred during the first six months of treatment with valproic acid. Caution should be observed when administering Depakene to patients with pre-existing liver disease. Liver function tests should be performed prior to therapy and every two months thereafter. The drug should be discontinued immediately in the presence of significant hepatic dysfunction, suspected or apparent.

The frequency of adverse effects (particularly elevated liver enzymes) may increase with increasing doses. Therefore, the benefit gained by increased seizure control must be weighed against the increasing incidence of adverse effects.

Use in pregnancy

The safety of Depakene (valproic acid) during pregnancy has not been established, however, animal studies have demonstrated teratogenicity. Therefore, the physician should weigh the potential benefits against the possible risks in treating or counselling women of childbearing age who have epilepsies.

Recent reports indicate an association between the use of anticonvulsant drugs and an elevated incidence of birth defects in children born to epileptic women taking such medication during pregnancy. The incidence of congenital malformations in the general population is regarded to be approximately 2%; in children of treated epileptic women this incidence may be increased two to threefold. The increase is largely due to specific defects, e.g. congenital malformations of the heart, and cleft lip and/or palate. Nevertheless, the great majority of mothers receiving anticonvulsant medications deliver normal infants.

Data are more extensive with respect to diphenylhydantoin and phenobarbital, but these drugs are also the most commonly prescribed anticonvulsants. Some reports indicate a possible similar association with the use of other anticonvulsant drugs, including trimethadione and paramethadione. However, the possibility also exists that other factors, e.g. genetic predisposition or the epileptic condition itself, may contribute to or may be mainly responsible for the higher incidence of birth defects.

Anticonvulsant drugs should not be discontinued in patients in whom the drug is administered to prevent major seizures, because of the strong possibility of precipitating status epilepticus with attendant hypoxia and risk to both the mother and the unborn child. With regard to drugs given for minor seizures, the risks of discontinuing medication prior to or during pregnancy should be weighed against the risk of congenital defects in the particular case and with the particular family history.

Epileptic women of child-bearing age should be encouraged to seek the counsel of their physician and should report the onset of pregnancy promptly to him. Where the necessity for continued use of antiepileptic medication is in doubt, appropriate consultation might be indicated.

Nursing Mothers

Depakene is secreted in breast milk. As a general rule, nursing should not be undertaken while a patient is receiving valproic acid.

Fertility

Chronic toxicity studies in juvenile and adult rats and dogs demonstrated reduced spermatogenesis and testicular atrophy at doses greater than 200 mg/kg/day in rats and 90 mg/kg/day in dogs. Segment I fertility studies in rats have shown that doses up to 350 mg/kg/day for 60 days have no effect on fertility. The effect of Depakene (valproic acid) on the development of the testis and on sperm production and fertility in humans is unknown.

PRECAUTIONS

General

Because of reports of thrombocytopenia and platelet aggregation dysfunction, platelet counts and bleeding-time determination are recommended before instituting therapy and at periodic intervals. It is recommended that patients receiving Depakene (valproic acid) be monitored for platelet count prior to planned surgery. Clinical evidence of hemorrhage, bruising or a disorder of hemostasis/coagulation is an indication for reduction of Depakene (valproic acid) dosage or withdrawal of therapy pending investigation.

Because valproic acid may interact with other anticonvulsant drugs, periodic serum level determinations of such other anticonvulsants are recommended during the early part of therapy (see Drug Interactions).

Valproic acid is partially eliminated in the urine as a ketone-containing metabolite which may lead to a false interpretation of the urine ketone test.

Driving and Hazardous Occupations

Valproic acid may produce CNS depression, especially when combined with another CNS depressant, such as alcohol. Therefore, patients should be advised not to engage in hazardous occupations, such as driving a car or operating dangerous machinery, until it is known that they do not become drowsy from the drug.

Drug Interactions

Depakene (valproic acid) may potentiate the CNS depressant action of alcohol.

There is evidence that valproic acid may cause an increase in serum phenobarbital levels, although the mechanism is unknown. Patients receiving concomitant barbiturate therapy should be closely monitored for neurological toxicity. Serum barbiturate drug levels should be obtained, if possible, and the barbiturate dosage decreased, if indicated.

Primidone is metabolized into a barbiturate, and therefore, may also be involved in a similar or identical interaction.

There is conflicting evidence regarding the interaction of valproic acid with phenytoin. It is not known if there is a change in unbound (free) phenytoin serum levels. The dose of phenytoin should be adjusted as required by the clinical situation.

The concomitant use of valproic acid and clobazepam may produce absence status.

Caution is recommended when valproic acid is administered with drugs affecting coagulation, e.g. acetylsalicylic acid and warfarin (see Adverse Reactions).

ADVERSE REACTIONS

The most commonly reported adverse reactions are nausea, vomiting and indigestion. Since Depakene

(valproic acid) has usually been used with other anticonvulsants, it is not possible in most cases to determine whether the adverse reactions mentioned in this section are due to valproic acid alone or to the combination of drugs.

Gastrointestinal

Nausea, vomiting and indigestion are the most commonly reported side effects at the initiation of therapy. These effects are usually transient and rarely require discontinuation of therapy. Diarrhea, abdominal cramps and constipation have also been reported. Anorexia with some weight loss and increased appetite with some weight gain have also been seen.

CNS Effects

Sedative effects have been noted in patients receiving valproic acid alone but are found most often in patients on combination therapy. Sedation usually disappears upon reduction of other anticonvulsant medication. Ataxia, headache, nystagmus, diplopia, asterixis, "spots before the eyes," tremor, dysarthria, dizziness, and incoordination have rarely been noted. Rare cases of coma have been reported in patients who were also on phenobarbital.

Dermatologic

Transient increases in hair loss have been observed. Skin rash and petechiae have rarely been noted.

Psychiatric

Emotional upset, depression, psychosis, aggression, hyperactivity and behavioural deterioration have been reported.

Musculoskeletal

Weakness has been reported.

Hematopoietic

Thrombocytopenia has been reported. Valproic acid inhibits the secondary phase of platelet aggregation. (see Drug Interactions). This may be reflected in altered bleeding time. Bruising, hematoma formation and frank hemorrhage have been reported. Relative lymphocytosis and hypofibrinogenemia have been noted. Leukopenia and eosinophilia have also been reported.

Hepatic

Increases in serum alkaline phosphatase and elevation of serum glutamic oxaloacetic transaminase (SGOT) have been noted. Elevation of SGOT may be dose-related. Elevations of SGPT and LDH have been noted less frequently. Isolated cases of severe hepatotoxicity have been reported, but do not appear to be dose-related (see Warnings).

SYMPTOMS AND TREATMENT OF OVERDOSAGE

In a reported case of overdosage with Depakene (valproic acid) after ingesting 36 g in combination with phenobarbital and phenytoin, the patient presented in deep coma. An EEG recorded diffuse slowing, compatible with the state of consciousness. The patient made an uneventful recovery.

As valproic acid is absorbed very rapidly, gastric lavage may be of limited value. General supportive measures should be applied with particular attention to the prevention of hypovolemia and the maintenance of adequate urinary output.

DOSAGE AND ADMINISTRATION

Depakene (valproic acid) is administered orally. The recommended initial dose is 15 mg/kg/day, increasing at one week intervals by 5 to 10 mg/kg/day until seizures are controlled or side effects preclude further increases. The maximum recommended dose is 60 mg/kg/day. When the total daily dose exceeds 250 mg, it is given in a divided regimen.

The frequency of adverse effects (particularly elevated liver enzymes) may increase with increasing dose. Therefore, the benefit gained by increased seizure control must be weighed against the increased incidence of adverse effects.

Table of Initial Doses by Weight (based on 15 mg/kg/day)

Weight	Total Daily Dose (mg)	Number of Capsules or Teaspoonful of Syrup		
		Dose 1	Dose 2	Dose 3
kg	lb			
10-24.9	22-54.9	250	0	1
25-39.9	55-87.9	500	0	1
40-59.9	88-131.9	750	1	1
60-74.9	132-164.9	1,000	1	2
75-89.9	165-197.9	1,250	2	2

As the dosage of valproic acid is raised, blood levels of phenobarbital and/or phenytoin may be affected (see Precautions).

Patients who experience GI irritation may benefit from administration of the drug with food or by a progressive increase of the dose from an initial low level. The capsules should be swallowed without chewing to avoid local irritation of the mouth and throat.

- Roberts, E.: Formation and utilization of gamma-aminobutyric acid in brain. In: S.R. Korey & J.I. Nurnberger (Eds.), *Progress in Neurobiology*, 1: Neurochemistry. Hoeber-Harper, New York 1956, pp. 11-25.
- Simon, D., Penry, K.J.: Sodium Di-N-Propylacetate (DPA)

AVAILABILITY

Depakene (valproic acid) is available as orange-coloured soft-gelatin capsules of 250 mg in bottles of 100 (Number 5681, DIN 443840), and as a red syrup containing the equivalent of 250 mg valproic acid, as the sodium salt, per 5 mL in bottles of 450 mL (Number 5682, DIN 443832). Depakene is a prescription drug (Schedule F).

In the Treatment of Epilepsy, *Epilepsia* 16, 549-573, 1975. 3. Pinder, R.M. et al., Sodium valproate: A Review of its Pharmacological Properties and Therapeutic Efficacy in Epilepsy, *Drugs* 13, 81-123, 1977.

**We took a good idea
and
doubled
it.**



Now you have new strength to fight migraine. New Sandomigran DS is simple, effective headache prophylaxis which encourages good compliance.

For patients who overuse or are refractory to analgesics or ergotamine – choose the strong one, Sandomigran DS.

New
Sandomigran DS
(Double Strength 1 mg tablets)

Specific, Double Strength headache prophylaxis.

Dosage range: 1 to 6 tablets/day in divided doses

SANDOZ
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Rivotril®

Rx Summary

Indications

Alone or adjunctively in the management of myoclonic, akinetic and petit mal variant seizures. In petit mal (absence spells) when response to succinimides unsatisfactory.

Contraindications

Hypersensitivity to benzodiazepines. Clinical or biochemical evidence of significant liver disease. Narrow angle glaucoma.

Warnings

Use in pregnancy: in women who are or who may become pregnant when potential benefits warrant possible risks to mother and fetus. Mothers receiving 'Rivotril' should not breastfeed infants. Consider the risk/benefit of long-term use, particularly in children.

Precautions

Use of multiple anticonvulsants may increase CNS depression and dosage of each may need adjustment downward. Avoid abrupt withdrawal and consider substitution with another anticonvulsant during withdrawal.

May cause paradoxical increase in seizure activity or new seizure types. Concomitant use with valproic acid may produce absence status.

Caution patients against engaging in hazardous activities requiring complete mental alertness or physical coordination. Warn against concomitant use of alcohol or other CNS depressant drugs. Monitor patients who may be prone to increasing the dosage on their own accord.

Administer with caution to patients with impaired renal function. Periodic liver function tests and blood counts may be advisable during long-term therapy.

Institute therapy with caution in patients with chronic respiratory disease because of possible hypersecretion in upper respiratory tract.

Adverse Reactions

Drowsiness has occurred in 50% and ataxia in 30% of patients but these effects have diminished with time. Behavioural problems have been noted in approximately 25% and increased salivation in 7% of patients.

Consult monograph for complete list of reported adverse reactions.

Dosage

Depends upon age and must be determined according to clinical response and tolerance.

Daily requirements should be given in 2 or 3 divided doses and if not equal, the larger dose should be given before retiring.

Children up to 10 years (30 kg): Initial dose should be 0.01 to 0.03 mg/kg/day and should not exceed 0.05 mg/kg/day. Increase dose by 0.25 to 0.5 mg every third day to maintenance dose of 0.1 to 0.2 mg/kg/day providing optimum response.

Adults: Initial dose should not exceed 1.5 mg/day. Increase dose by 0.5 to 1.0 mg every third day to maintenance dose of 8 to 10 mg/day with optimum response. Dosage in excess of 20 mg/day should be administered with caution.

Bear in mind possible increased depressant effects whenever 'Rivotril' is added to an existing anticonvulsant regimen.

Supply

Orange, cylindrical, biplane tablets with RIVOTRIL 0.5 engraved on one face, and single scored on the other with ROCHE above and C below the score, each containing 0.5 mg clonazepam.

White, cylindrical, biplane tablets with RIVOTRIL 2 engraved on one face, and single scored on the other with ROCHE above and C below the score, each containing 2 mg clonazepam.

Bottles of 100.

References

1. Shakir, R.A. et al: *Arch. Neurol.* 36:302, May 1979.
2. Bruni, J.: *CMAJ* 120:819, April 7, 1979.
3. Browne, T.R.: *New Eng. J. Med.* (Ed.), 299:812-816, Oct. 1978.

Product Monograph available on request.

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Vaudreuil, Québec J7V 6B3



Can. 0048

Original Research in Medicine and Chemistry

The Division of Neurology, St. Michael's Hospital, a University of Toronto teaching hospital, is seeking a neurologist at the lecturer, or assistant professor level. Candidate should be eligible for or have completed Canadian fellowship in neurology. Teaching and clinical responsibilities are prime duties. Research opportunities are available. Interested applicants should send curriculum vitae and letters of recommendation to Trevor A. Gray, Chief, Division of Neurology, St. Michael's Hospital, 30 Bond Street, Toronto, Ontario, M5B 1W8.

The Division of Neurology, St. Michael's Hospital, a University of Toronto teaching hospital, is seeking a neurologist at the assistant or associate professor level to engage in research in neuroimmunology or virology in association with a developing Multiple Sclerosis Clinic. Minor clinical and teaching duties. Please send curriculum vitae with initial response to Trevor A. Gray, Chief, Division of Neurology, St. Michael's Hospital, 30 Bond Street, Toronto, Ontario, M5B 1W8.

(xx)

Prolopa[®] Roche[®]



Prolopa[®] Roche[®]
(benserazide/levodopa)
**an
antiparkinson
agent
whose time
has come**

- at recommended maintenance dosages, contains less levodopa yet provides therapeutic results equivalent to levodopa/carbidopa.^{1,2}
- associated with significantly fewer peripheral side effects than levodopa/carbidopa.¹
"However, nausea and vomiting occurred *significantly more often* during 12 weeks' treatment periods *with levodopa and carbidopa* (maximal dose 4 x 250/25) *than with levodopa and benserazide* ('Prolopa') (maximal dose 4 x 200/50) but the occurrence of involuntary movements was similar".¹
- may be of greater benefit to some patients than the carbidopa/levodopa combination.²
- may provide a more optimal therapeutic response than levodopa alone.²

References:

1. Rinne, U.K., Recent Advances in Research on Parkinsonism, *Acta Neurologica Scand., Suppl. 67, 57, 77-113, 1978.*
2. Pakkenberg, H., et al, Parkinson's Disease Treated with Sinemet or Madopar ('Prolopa'), *Acta Neurologica Scand., 53, 376-385, 1976.*

See page xxii for brief prescribing information.

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Original Research in Medicine and Chemistry



(xxi)

Can. 9025

Rx Summary

Indications

Treatment of Parkinson's syndrome with the exception of drug-induced parkinsonism.

Contraindications

Known hypersensitivity to levodopa and/or benserazide. In patients in whom sympathomimetic amines are contraindicated; in conjunction with monoamine oxidase inhibitors or within two weeks of their withdrawal. Clinical or laboratory evidence of uncompensated cardiovascular, endocrine, renal, hepatic, hematologic or pulmonary disease; narrow-angle glaucoma (may be used in wide-angle glaucoma provided intraocular pressure remains under control). History of melanoma or suspicious undiagnosed skin lesions.

Warnings

Discontinue levodopa therapy at least 12 hours before initiating 'Prolopa' therapy. Increase dosage of 'Prolopa' 100-25 gradually to avoid inducing CNS side effects (abnormal movements). Observe patients for signs of depression with suicidal tendencies or other serious behavioural changes. Caution in patients with history of psychotic disorders or those receiving reserpine, phenothiazines or tricyclic antidepressants.

Administer with care to patients with history of myocardial infarction or who have atrial, nodal or ventricular arrhythmias.

Safety in patients under 18 years has not been established. In women who are or may become pregnant benefits should be weighed against possible hazards to mother and fetus. Should not be given to nursing mothers.

Precautions

Caution in patients with history of convulsive disorders. Upper gastrointestinal hemorrhage possible in patients with history of peptic ulcer.

Normal activity should be resumed gradually to avoid risk of injury.

Administer with caution to patients on antihypertensive medication; discontinue 12 hours before anesthesia. Monitor intraocular pressure in patients with chronic wide-angle glaucoma.

Adverse reactions

Most common are abnormal involuntary movements, usually dose dependent, and may disappear or become tolerable after dosage reduction.

Most serious after prolonged therapy are periodic oscillations in performance (end of dose akinesia, on-off phenomenon and akinesia paradoxa).

Nausea, vomiting, arrhythmias and orthostatic hypotension occur less frequently than with levodopa alone.

Psychiatric disturbances, including mild elation, depression, anxiety, agitation, aggression, hallucinations and delusions have been encountered.

Consult monograph for complete list of reported adverse effects.

Dosage

Recommended initial dose is one capsule 'Prolopa' 100-25 once or twice daily, increased carefully by one capsule every third or fourth day until an optimum therapeutic effect is obtained without dyskinesias. At upper limits of dosage increments should be made slowly at 2 to 4-week intervals.

Optimal dosage for most patients is 4 to 8 capsules of 'Prolopa' 100-25 daily (400-800 mg levodopa) divided into 4 to 6 doses. Most patients require no more than 6 capsules 'Prolopa' 100-25 (600 mg levodopa) per day. 'Prolopa' 200-50 capsules are intended only for maintenance therapy once the optimal dosage has been determined using 'Prolopa' 100-25 capsules. No patients should receive more than 5 to 6 capsules 'Prolopa' 200-50 daily (1000 to 1200 mg levodopa) during the first year of treatment.

For patients previously treated with levodopa discontinue for 12 hours and initiate with 'Prolopa' 100-25 to provide approximately 15% of previous levodopa dosage. The initial daily dose, however, should not exceed 6 capsules 'Prolopa' 100-25 divided into 4 to 6 doses.

Supply

Blue, flesh-coloured capsules imprinted ROCHE C and PROLOPA 100-25 (black ink) alternating between body and cap each containing 100 mg levodopa and 25 mg benserazide.

Blue, caramel-coloured capsules imprinted ROCHE C and PROLOPA 200-50 (black ink) alternating between body and cap, each containing 200 mg levodopa and 50 mg benserazide.

Bottles of 100.

Product monograph available on request.

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'Prolopa' is listed in provincial formularies.



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Vaudreuil, Québec J7V 6B3

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Neurologist, Board Certified or Eligible; prefer experience in EEG, Neuro-radiology, and EMG work to join busy solo practice in North Central Texas. Send curriculum vitae to Shirley A. Molenich, M.D., Suite 506, 1400 South Main, Fort Worth, Texas, 76104.

**The Canadian Neurological Society
La Société Canadienne de Neurologie**

FRANCIS McNAUGHTON PRIZE ESSAY

The Canadian Neurological Society offers an annual award for a manuscript submitted by a Junior Member of the Society, trainees in neurology, residents and interns.

The prize consists of an honorarium of \$200.00, air-fare from the residence of the trainee to the city of the Congress, and a suitably inscribed book prize.

REGULATIONS

1. Junior Members of the Society, Trainees in Neurology and other Residents and Interns are eligible for this award.
2. The Trainees need not be the sole author but should be primarily responsible for the work to be presented.
3. The study to be original and not presented previously.
4. The deadline for receipt of submissions is January 5, 1981.
5. The Prize Essay Committee consists of the President and the two immediate Past Presidents of the Canadian Neurological Society.
6. The time allotted for the presentation is twenty minutes.
7. There should be two abstracts submitted — one of two hundred words and one of two thousand words. Both should be in triplicate.
8. The authors should indicate in their covering letter whether they wish their paper to be automatically submitted to the Program Committee for consideration of presentation at the Congress if it is not chosen for the prize.
9. Please submit abstracts to Dr. Robert G. Lee, President, The Canadian Neurological Society, Faculty of Medicine, University of Calgary, Calgary, Alberta, T2N 1N4 before January 5, 1981.

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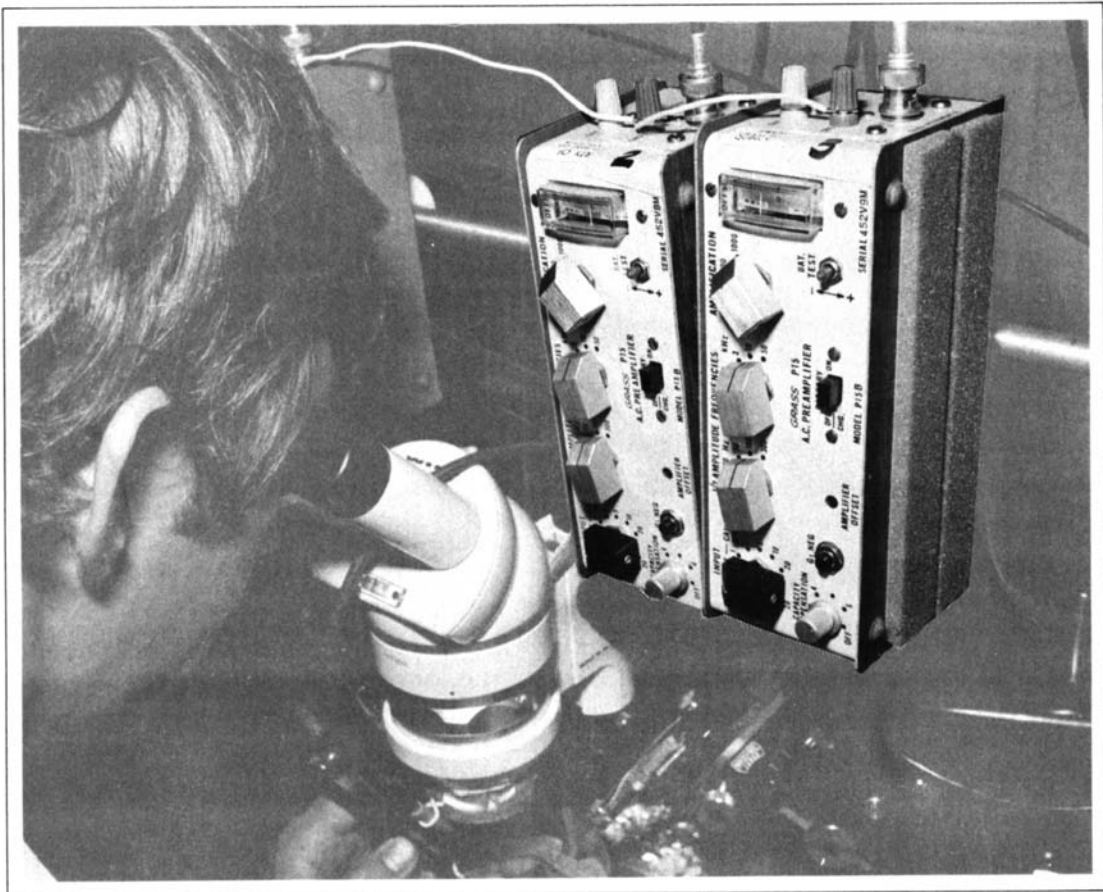
Grass microelectrode amplifiers can be used up-front next to the preparation because of their small size and self-contained rechargeable batteries.* Up-front recording minimizes interference and capacitance problems associated with long lead length and places the amplifier controls at your fingertips.

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SERC®

(betahistine hydrochloride tablets)

For the management of Vertigo in Ménière's Disease

- Tends to restore (not depress) vestibular responses¹
- Reduces number and severity of vertigo attacks^{2,3}
- Well-tolerated... suitable for longterm management^{1,2,4}
- Non-sedative... acts on micro-circulation of inner ear^{5,6}

REFERENCES:

1. Bertrand, R. A.: Acta Oto-Laryng. Supp. 305:48, 1972. 2. Guay, R. M.: Applied Thera. 12:25 (Aug.) 1970. 3. Frew, I. J. C. et al: Postgrad. Med. J. 52:501-503, 1976. 4. Wilmot, T. J. et al: J. Laryng. Otol. 9:833-840, 1976. 5. Snow, J. B. Jr. & Suga, F.: A. M. A. Arch. Otolaryng. 97:365, 1973. 6. Martinez, D. M.: Acta. Oto-Laryng. Supp. 305:29, 1970.

PRESCRIBING INFORMATION:

DESCRIPTION AND CHEMISTRY: SERC is the proprietary name for a histamine-like drug generically designated as betahistine hydrochloride.

INDICATIONS: SERC may be of value in reducing the episodes of vertigo in Meniere's disease. No claim is made for the effectiveness of SERC in the symptomatic treatment of any form of vertigo other than that associated with Meniere's disease.

DOSAGE AND ADMINISTRATION: The usual adult dosage has been one to two tablets (4 mg. each) administered orally three times a day.

Recommended starting dose is two tablets three times daily. Therapy is then adjusted as needed to maintain patient response. The dosage has ranged from two tablets per day to eight tablets per day. No more than eight tablets are recommended to be taken in any one day.

SERC (betahistine hydrochloride) is not recommended for use in children. As with all drugs, SERC should be kept out of reach of children.

CONTRAINDICATIONS: Several patients with a history of peptic ulcer have experienced an exacerbation of symptoms while using SERC. Although no causal relation has been established SERC is contraindicated in the presence of peptic ulcer and in patients with a history of this condition. SERC is also contraindicated in patients with pheochromocytoma.

PRECAUTIONS: Although clinical intolerance to SERC by patients with bronchial asthma has not been demonstrated, caution should be exercised if the drug is used in these patients.

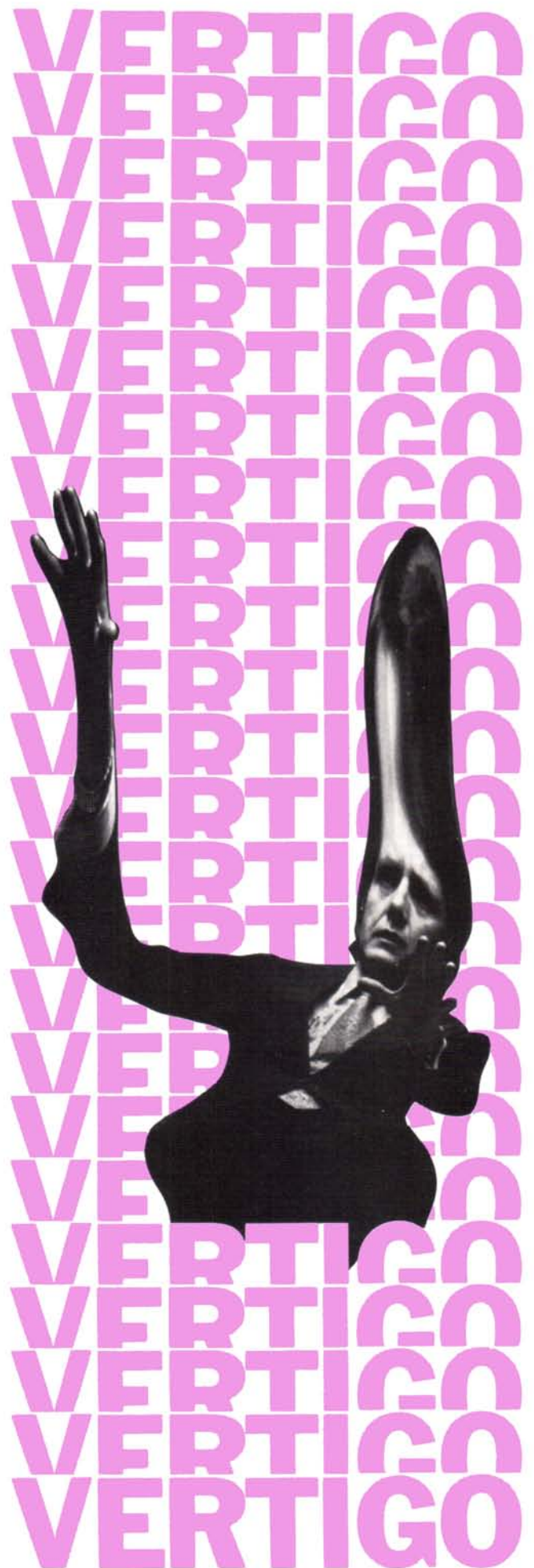
USE IN PREGNANCY: The safety of SERC in pregnancy has not been established. Therefore, its use in pregnancy or lactation, or in women of childbearing age requires that its potential benefits be weighed against the possible risks.

ADVERSE REACTIONS: Occasional patients have experienced gastric upset, nausea and headache.

HOW SUPPLIED: Scored tablets of 4 mg each in bottles of 100 tablets.

Full prescribing information available on request.

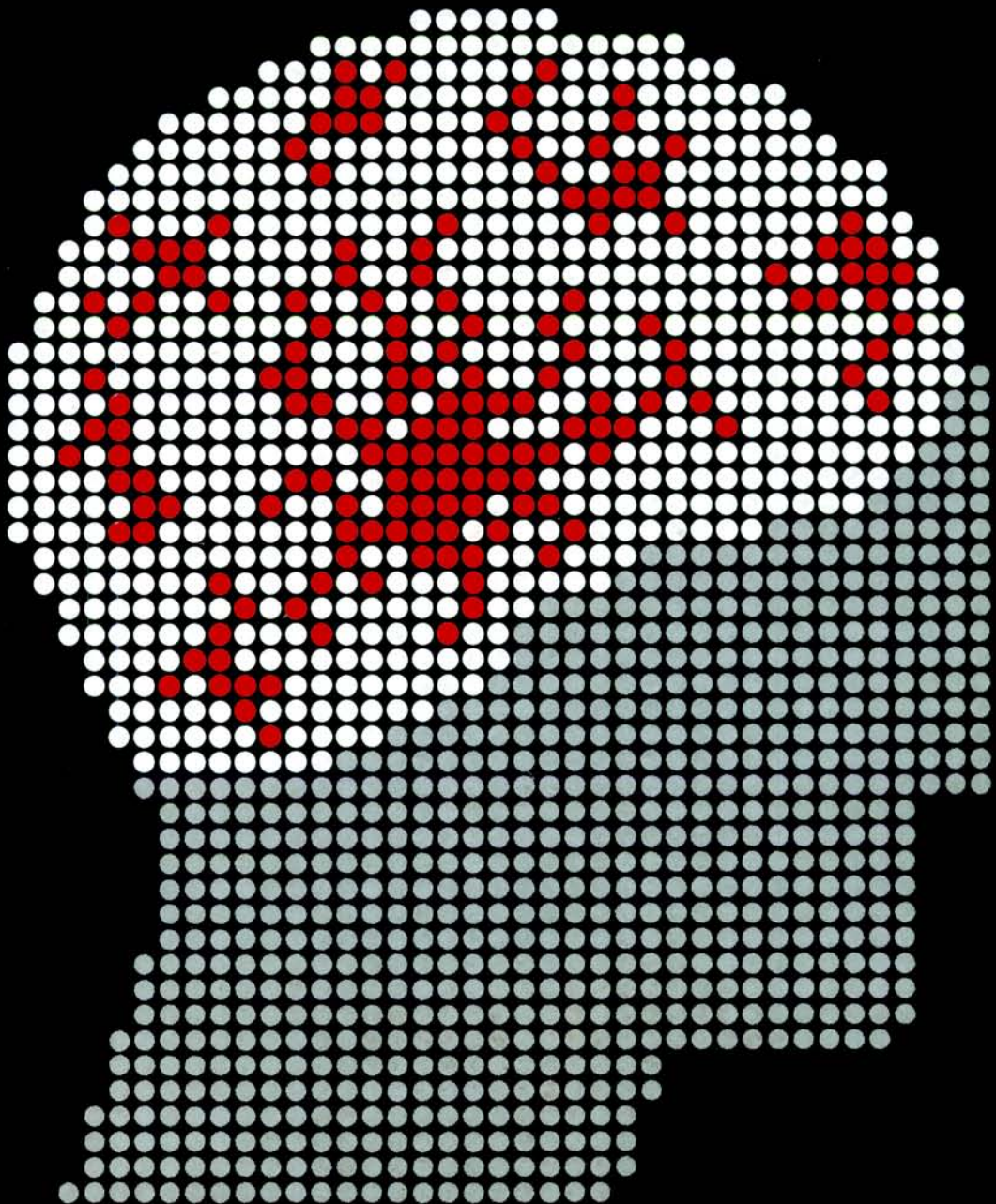
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Tegretol[®]

carbamazepine

To help control
refractory generalized
tonic-clonic seizures
without excessive sedation



Geigy

For Brief Prescribing
Information see Page (V)