

#### In epilepsy Tegretol provides control of seizures and alleviation of personality disorders

References
1 Livingston, S. F.: Comprehensive Management of Epilepsy in Infancy, Childhood and Adolescence, Charles C. Thomas, 1972.
2 Rodin, E. A., Rim, G. S., and Rennick, P.: Abstract from Program of the American Epilepsy Society Annual Meeting (Dec. 6) 1973, N.Y.
3 Livingston, S. F., et al: Carbamazepine (Tegretol) in Epilepsy Nine Year Follow-up Study with Special Emphasis on Unitoward Reactions, Dis. Nerv. System 35:103-107 (March) 1974.

### Brief Prescribing Information Tegretol® 200 mg Anticonvulsant

Anticonvulsant **Properties** Tegretol has a proven anticonvulsant effect. In addition, Tegretol also has a distinct psychotropic effect, improving the mood and relieving irritability of the epileptic patient with associated behavioral or personality disturbances. Tegretol relieves or diminishes the pain associated with trigeminal neuralgia, usually within 24 - 48 hours. Indications

Tepilops Temporal lobe (psychomotor) epilepsy, and as an adjunct in secondary epilepsy or partial epilepsy with complex symptoms or secondarily generalized seizures. 2 Neuralgia Trigeminal neuralgia (tic douloureux), glossopharyngeal rouraleir

neuralgia.

neuralgia. **Dosage** A gradual increasing schedule is recommended with adjustment to suit the needs of the individual. When Tegretol is added to, or substituted for, existing anil-convulsant therapy, the dosage of the other drugs(s) should be gradually reduced. *Epilepsy* 

should be gradually reduced. Epilepsy Initially ½ - 1 tablet (100 mg - 200 mg) twice daily increas-ing over a period of 4 - 6 days until optimal control is achieved (usually with 3 tablets daily). Trigeminal Neuralgia Initially — 200 mg daily in divided doses of 100 mg (½ tablet), increasing by 200 mg (1 tablet) daily until pain relief is obtained. Dosage in excess of 1200 mg (6 tablets) daily is not recommended. All patients should be maintained on the minimum effective dose.

All patients should be maintained on the minimum effective dose. Adverse Reactions Most frequently reported are: drowsiness, disturbances of accommodation, vertigo, dizziness and gastrointestinal disturbances. They usually occur only during initial phase of therapy and can be minimized, if not prevented, by starting treatment at a low dosage. Although rare, effects on the blood forming elements, skin, genitourinary and circulatory system have been reported. The most serious adverse reactions which may require discontinuation of therapy are the haematological including blood dyscra-sias, the hepatic including laundice, the dermatological, the eligestive, and the ocular. Miscellaneous including fever and chills, lymphadenopathy aching joints and muscles, leg cramps and conjunctivitis. **Proceutions** Careful clinical and laboratory supervision should be instituted prior to and maintained throughout treatment. Caution should be observed while treating patients with increased ocular pressure or uniary retention and also in patients with a history of coronary artery disease, organic heart disease or congestive failure. There is a possibility of agilation and confusion in the elderly or activating a latent psychosis. **Contraindications** 

Altern psychosis. Concomitant use of monoamine oxidase inhibitors (two weeks should elapse before Tegretol is prescribed for patients who have received MAOI drugs), first trimester of pregnancy, nursing mothers, patients with a history of hepatic disease or serious blood disorder, or known sensitivity to any tricyclic compound. Tegretol should not be given to women of child-bearing potential unless, in the oplinion of the physician, the expected benefits to the patients with a history of Hough reported infrequently, serious adverse effects have been observed during the use of Tegretol. Agranulocytosis and aplastic anemia have occurred in a few instances with a fatal outcome. Leucopenia, thrombo-cytopenia and hepatocellular and cholestatic jaundice have also been reported. It is, therefore, important that Tegretol should be used carefully and close clinical and frequent laboratory supervision should be maintained throughout treatment in order to detect as early as possible signs and symptoms of a possible blood dyscrasia. Treatment of Overdosage No specific antidote. Availability Tegretol 200 mg: Each round, white, single scored tablet with contains: carbamazepine 200 mg, available in bottles of 50 and 500. Full information is available on request.

Geigy Dorval, P.Q. H9S 1B1

Moving?

Present Address

**Old Address** 

Mail to

C.J.N.S.

1516 - 233 Kennedy

Wpg. R3C 3J5



## a most significant advance in the treatment of Parkinson's syndrome

# sinemet

### Improves Quality of Life

SINEMET\* permits control of many of the symptoms of Parkinson's syndrome, particularly rigidity and bradykinesia.

### Highly Effective

SINEMET\* therapy provides symptomatic relief, with levodopa dose requirements reduced by 75-80%.

### Significantly Improved Tolerance

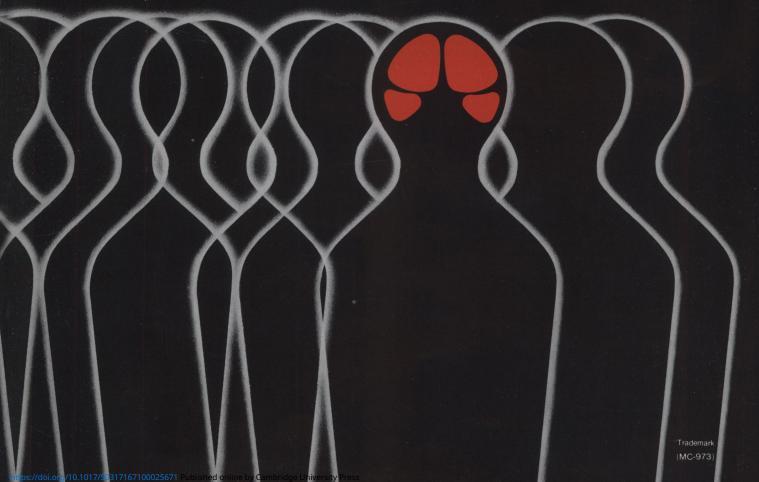
SINEMET\* reduces or eliminates peripheral adverse reactions, such as nausea, vomiting and possibly cardiac arrhythmias, frequently seen with plain levodopa. Combined therapy does not decrease adverse reactions due to central effects of levodopa.

### Ease of Transfer

Patients maintained on levodopa can be readily transferred to SINEMET\*.

(See Dosage and Administration Section of Product Monograph)

NOTE: SINEMET\* is not recommended in drug-induced parkinsonism.





#### INDICATIONS

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

#### CONTRAINDICATIONS

When a sympathomimetic amine is contraindicated; with monoamine oxidase inhibitors, which should be discontinued two weeks prior to starting SINEMET\*; in uncompensated cardiovascular, endocrine, hematologic, hepatic, pulmonary or renal disease; in narrowangle glaucoma; in patients with suspicious, undiagnosed skin lesions or a history of melanoma.

#### WARNINGS

When given to patients receiving levodopa alone, discontinue levodopa at least 12 hours before initiating SINEMET\* at a dosage that provides approximately 20% of previous levodopa.

Not recommended in drug-induced extrapyramidal reactions; contraindicated in management of intention tremor and Huntington's chorea.

Levodopa related central effects such as involuntary movements may occur at lower dosages and sooner, and the 'on and off' phenomenon may appear earlier with combination therapy.

Monitor carefully all patients for the development of mental changes, depression with suicidal tendencies, or other serious antisocial behaviour.

Cardiac function should be monitored continuously during period of initial dosage adjustment in patients with arrhythmias.

ment in patients with arrhythmias. Safety of SINEMET\* in patients under 18 years of age not established.

Pregnancy and lactation: In women of childbearing potential, weigh benefits against risks. Should not be given to nursing mothers. Effects on human pregnancy and lactation unknown.

#### PRECAUTIONS

General: Periodic evaluations of hepatic, hematopoietic, cardiovascular and renal function recommended in extended therapy. Treat patients with history of convulsions cautiously. *Physical Activity:* Advise patients improved on SINEMET\* to increase physical activities gradually, with caution consistent with other medical considerations. In Glaucoma: May be given cautiously to patients with wide angle glaucoma, provided intra-ocular pressure is well controlled and can be carefully monitored during therapy. With Antihypertensive Therapy: Assymptomatic postural hypotension has been reported occasionally, give cautiously to patients on antihypertensive drugs, checking carefully for changes in pulse rate and blood pressure. Dosage adjustment of antihypertensive drug may be required. With Psychoactive Drugs: If concomitant administration is necessary, administer psychoactive drugs with great caution and observe patients for unusual adverse reactions. With Anes-thetics: Discontinue SINEMET\* the night before general anesthesia and reinstitute as soon as patient can take medication orally. **ADVERSE REACTIONS** 

#### Most Common: Abnormal Involuntary Movements-usually diminished by dosage reduction-choreiform, dystonic and other involuntary movements. Muscle twitching and blepharospasm may be early signs of excessive dosage. Other Serious Reactions: Oscillations in performance: diurnal variations, independent oscillations in akinesia with stereotyped dyskinesias, sudden akinetic crises related to dyskinesias, akinesia paradoxica (hypotonic freezing) and 'on and off' phenomenon. Psychiatric: paranoid ideation, psychotic episodes, depression with or without development of suicidal tendencies and dementia. Rarely convulsions (causal relationship not established). Cardiac irregularities and/or palpitations, orthostatic hypotensive episodes, anorexia, nausea, vomiting and dizziness.

Other adverse reactions that may occur: Psychiatric: increased libido with serious antisocial behavior, euphoria, lethargy, sedation, stimulation, fatigue and malaise, confusion, insomnia, nightmares, hallucinations and delusions, agitation and anxiety. Neurologic: ataxia, faintness, impairment of gait, headache, increased hand tremor, akinetic episodes, "akinesia paradoxica", increase in the fre-quency and duration of the oscillations in performance, torticollis, trismus, tightness of the mouth, lips or tongue, oculogyric crisis, weakness, numbness, bruxism, priapism. Gastrointestinal: constipation, diarrhea, epigastric and abdominal distress and pain, flatulence; eructation, hiccups, sialorrhea; difficulty in swallowing, bitter taste, dry mouth; duodenal ulcer; gastrointestinal bleeding; burning sensation of the tongue. Cardiovascular: arrhythmias, hypotension, nonspecific ECG changes, flushing, phlebitis. Hematologic: hemolytic anemia, leukopenia, agranulocytosis. Dermatologic: sweating, edema, hair loss, pallor, rash, bad odor, dark sweat. Musculoskeletal: low back pain, muscle spasm and twitching, musculoskeletal pain. Respiratory: feeling of pressure in the chest, cough, hoarseness, bizarre breathing pattern, postnasal drip. Urogenital: urinary frequency, retention, incontinence, hematuria, dark urine, nocturia, and one report of interstitial nephritis. Special Senses: blurred vision, diplopia, dilated pupils, activation of latent Horner's syndrome. Miscellaneous: hot flashes, weight gain or loss. Abnormalities in laboratory tests reported with levodopa alone, which may occur with SINEMET\*: Elevations of blood urea nitrogen, SGOT, SGPT, LDH, bilirubin, alkaline phosphatase or protein bound iodine. Occasional reduction in WBC, hemoglobin and hematocrit. Elevations of uric acid with colorimetric method. Positive Coombs tests reported both with SINEMET\* and with levodopa alone, but hemolytic anemia extremely rare.

#### DOSAGE SUMMARY

In order to reduce the incidence of adverse reactions and achieve maximal benefit, therapy with SINEMET\* must be individualized and drug administration continuously matched to the needs and tolerance of the patient. Combined therapy with SINEMET\* has a narrower therapeutic range than with levodopa alone because of its greater milligram potency. Therefore, titration and adjustment of dosage should be made in small steps and recommended dosage ranges not be exceeded. Appearance of involuntary movements should be regarded as a sign of levodopa toxicity and an indication of overdosage, requiring dose reduction. Treatment should, therefore, aim at maximal benefit without dyskinesias.

Therapy in Patients not receiving Levodopa:

Initially  $\frac{1}{2}$  tablet once or twice a day, increase by  $\frac{1}{2}$  tablet every three days if desirable. An optimum dose of 3 to 5 tablets a day divided into 4 to 6 doses.

Therapy in Patients receiving Levodopa:

Discontinue levodopa for at least 12 hours, then give approximately 20% of the previous levodopa dose in 4 to 6 divided doses.

FOR COMPLETE PRESCRIBING INFORMA-TION, PARTICULARLY DETAILS OF DOSAGE AND ADMINISTRATION, PLEASE CONSULT PRODUCT MONOGRAPH WHICH IS AVAIL-ABLE ON REQUEST.

#### HOW SUPPLIED

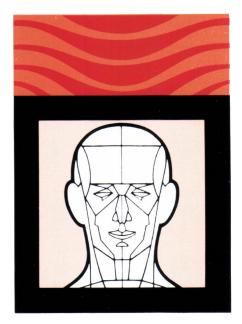
Ca8804—Tablets SINEMET\* 250, dapple-blue, oval, biconvex, scored, compressed tablets coded MSD 654, each containing 25 mg of carbidopa and 250 mg of levodopa. Available in bottles of 100.



(MC-973a)

## A long awaited, much needed and significantly safer preparation for the prophylactic treatment of migraine





## Sandomigran or reduces its frequency significant

#### Prophylaxis of migraine: the problem.

The prophylactic treatment of vascular headaches has been hampered sometimes by the fact that the most effective agent (methysergide) for the prevention of migraine is associated with certain undesirable side effects. Because of this, the prophylactic therapy of migraine has been confined to a relatively small, select group of patients.

#### Overcoming the problem.

Extensive research and wide clinical experience have shown that Sandomigran is a highly effective agent against migraine. *Chemically unrelated to methysergide*, Sandomigran is free of the undesirable side effects which have sometimes interfered with or precluded the prophylactic treatment of vascular headaches.

### The pharmacological properties of Sandomigran.

Migraine or vascular headache is not, according to many investigators, purely of vascular origin. Many researchers believe that the biogenic amines play an important role in the pathogenesis of migraine.

Chemically unrelated to methysergide, Sandomigran (pizotyline) is a benzocycloheptathiophene derivative possessing strong antagonistic action against certain biogenic amines such as serotonin and histamine and, to a lesser degree, tryptamine, acetylcholine and the catecholamines.

Sandomigran is indicated in the prophylactic – not the symptomatic – treatment of vascular headaches.

#### Patient selection.

Sandomigran should be considered primarily for the more serious cases of migraine; patients who suffer two or more severe headaches every month.

Sandomigran should also be considered for patients whose headaches do not respond to symptomatic treatment.

### 7 of every 10 migraine patients may benefit from Sandomigran.

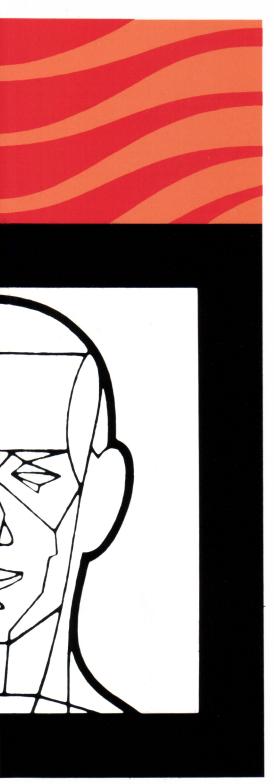
An analysis of 10 controlled studies <sup>1–10</sup> (392 patients) shows the following gratifying results:

Excellent results (Complete disappearance of headaches) Good results (Reduction in frequency and severity of headaches by at least 50%)

65%



## prevents migraine, and severity, without side effects.



Moderate results

(Reduction in frequency and severity of headaches by an appreciable degree, but not reaching the aforementioned standards)

10%

### Long-term effectiveness and safety of Sandomigran.

Sandomigran may be prescribed confidently for more migraine patients than ever before. A continuum of international data, based on up to 5 years of clinical experience in 60 countries, provides convincing evidence of the sustained effectiveness and extraordinary safety of Sandomigran.

#### Remarkably free of undesirable side effects.

Apart from two frequently observed side effects moderate weight gain and mild sedation in the initial phase of treatment (neither of which is totally undesirable in some migraine patients who might be characteristically underweight or apprehensive) — other side effects such as dry mouth, drowsiness, dizziness, and nausea are not only mild but rare.

### Appetite stimulation and weight gain in some patients.

Studies have shown that increased weight may occur in some patients during the first months of treatment with Sandomigran. A weight gain of about 2 to 5 kg may be observed but any increase in weight usually stabilizes in the course of 2 or 3 months of therapy. Some patients are able to reduce their weight while still on the drug. An appropriate diet is suggested for those patients who benefit from the drug but who may gain excessive weight.

#### Sandomigran dosage.

The average maintenance dosage is 1 tablet (0.5 mg) t.i.d. Treatment should begin with 1 tablet at bedtime (first two days), 1 tablet at noon and at bedtime (next two days), and 1 tablet in the morning, at noon, and at bedtime (from the fifth day onward).

Most investigators agree that a four week-trial period is required to determine the true efficacy of the drug in any given patient.

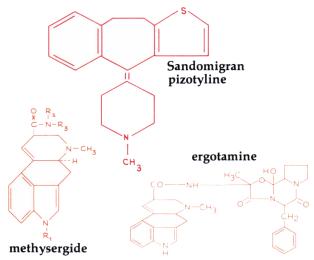
## **Sandomigran**<sup>®</sup> stops migraine before it attacks

P

R

### Chemistry

The chemical structure of pizotyline (Sandomigran) is totally different to the chemical structure of either methysergide (Sansert) or ergotamine.



### Prescribing information

Dosage – The average maintenance dosage is 1 tablet (0.5 mg) t.i.d. A progressive dosage is recommended until the fifth day of therapy. Treatment should begin with 1 (0.5 mg) tablet at bedtime (first two days), 1 tablet at noon, and at bedtime (next two days), and 1 tablet in the morning, at noon, and at bedtime (from the fifth day onward). The dosage range is 2 to 12 tablets (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 fourweek trial period should be instituted to determine the true efficacy of pizotyline 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-coloured, sugar coated tablet contains 0.5 mg of pizotyline as the hydrogen malate.

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 pizotyline 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.

Warnings and precautions - Since drowsiness may occur with pizotyline, sensitive patients should be cautioned against activities requiring rapid and precise responses (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 pizotyline therapy. Since it is desirable to keep drug administration to a minimum during pregnancy, pizotyline should be given only when the benefits derived from treatment exceed the possible risks to mother and fetus.

Some patients developed tolerance to pizotyline 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 pizotyline 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.

Contraindications - Glaucoma, pyloroduodenal obstruction, stenosing pyloric ulcer and predisposition to urinary retention. Pizotyline is also contraindicated in patients taking monoamine oxidase inhibitors and 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.

Supply - Bottles of 100 tablets.

#### References

1. Sicuteri, F. et al, Int. Arch. Allergy 31:78, 1967 2. Graham, J.R., Headache Rounds No. 90, 1968 3. Diemath, H.E., Arztl. Prax. 21:4994, 1969 4. Sicuteri, F. et al, Clin. ther. 40:117, 1967 5. Figueiredo, Robeiro, A., Coimbra méd. 16:8, 1969 6. Müller, E., Therapiewoche 19:1536, 1969 7. Schär, J., Praxis 57:1717, 1969 8. Pichler, E. et al, Wien. klin. Wschr. 82:208, 1970 9. Hornabrook, R.W. et al, N.Z. med. J. 70:387, 1969 10. Sercl, M. et al, Praxis 59:679, 1970

Full prescribing information is available upon request.





### before it attacks

SANDOZ

SANDOZ (CANADA) LIMITED, DORVAL, QUEBEC

## P (amantadine HCl)

### for the management of Parkinson's syndrome

**\***Chemically distinct (Not related to levodopa or anticholinergic

antiparkinson drugs.)

### ★ Fast onset of action

(Usually effective within 1 week in contrast to the slower response from levodopa.)

Effective with levodopa

(Either initiated concurrently or added to levodopa. Additional benefit may result - such as smoothing out of fluctuations in performance which sometimes occur when levodopa is administered alone. When the levodopa dose must be reduced because of side effects, the addition of Symmetrel may result in better control of Parkinson's syndrome than is possible with levodopa alone.)

## Effective with other anticholinergic antiparkinson drugs

(When these drugs, e.g. benztropine mesylate, provide only marginal benefits, Symmetrel used concomitantly may provide the same degree of control of Parkinson's syndrome, often with a lower dose of anticholinergic medication, and a possible reduction in anticholinergicsideeffects.)

## **Effective** alone

(Lessening of Parkinsonian symptomatology usually evident within one week in responsive patients.)

CONTRAINDICATIONS "Symmetrel" is contraindicated in patients with

**WARNINGS** Patients with a history of epilepsy or other "seizures" should be observed closely for possible untoward central nervous system effects.

WARNINGS Patients with a history of epilepsy or other "secures" should be observed losely 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 "Symmetref" (amantadine HCI). Safety of use in pregnancy has not been established. Therefore: "Symmetref" should not be used in women with childbearing potential, unless in the opinion of the physi-cian, the expected benefit to the patient outweighs the possible risks to the fetus (see Toxicology-Effects on Reproduction).

Since the drug is secreted in the milk, "Symmetrel" should not be administered to nursing mothers.

PRECAUTIONS The dose of "Symmetrel" may need careful adjustment in patients with renal impairment, congestive heart failure, peripheral edema, or ortho-static 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 "Symmetrel" to patients with liver disease, a history of recurrent eczematoid rash, or to patients with psychosis or severe psychoneurosis not controlled by chemotherapeutic agents Careful observa-tion is required when "Symmetrel" is 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 considera-tions, such as the presence of osteoporosis or phebothrombosis.

Patients receiving "Symmetrel" (amantadine HCI) who note central nervous system effects of blurring of vision should be cautioned against driving or working in situa-tions where alertness is important.

"Symmetrel" (amantadine HCI) 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 in the stopped in a 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 reported below have occurred in patients while receiving "Symmetrel" (amantadine HCI) alone or in combination

with anticholinergic antiparkinson drugs and/or levodopa

with anticholinergic antiparkinson drugs and/or levodopa The more important adverse reactions are orthostatic hypotensive episodes, con-gestive heart failure, depression, psychosis and urinary retention, and rarely confu-sion, reversible leukopenia and neutropenia, and abnormal liver function test results Other adverse reactions of less importance which have been observed are: anorexia, anxiety, ataxia, confusion, hallucinations, constipation, dizziness (lightheaddeness), 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.

DOSAGE AND ADMINISTRATION The initial dose of "Symmetref" 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 "Sym-metref" and levodopa are initiated concurrently, "Symmetref" 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 "Symmetref" is 100 mg twice a day.

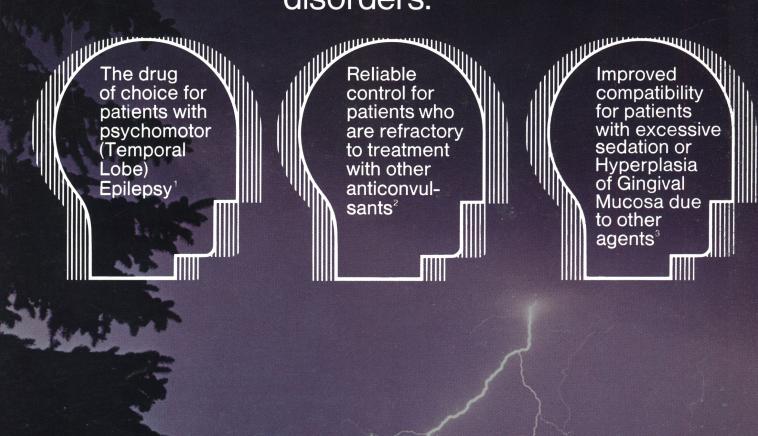
Patients whose responses are not optimal with "Symmetrel" (amantadine HCI) at 200 mg daily may benefit from an increase to 300 mg daily in divided doses Patients who experience a faill-off of effectiveness may regan benefit by increasing the dose to 300 mg daily, such patients should be supervised closely by their physicians.

**DOSAGE FORMS** CAPSULES: (bottles of 100) - each red, soft gelatin capsule contains 100 mg of amantadine HCI.

Product monograph, with complete references, available upon request. 



## In epilepsy\* TECHNOLOGIES CONTROL OF Seizures and alleviation of personality disorders.



Dorval, P.Q. H9S 1B1

https://dei.gef2.1017/S0317167100025671

For Full Prescribing Information See Page V

Complete information available from Geigy or through your Geigy representative

\*See indications, brief prescribing information