

Thiamine Mononitrate (Vitamin B₁) Pyridoxine Hydrochloride (Vitamin B₆) Cyanocobalamin (Vitamin B₁₂)

MEDINERY FORTE

300 mg/100 mg/100 mcg Capsule VITAMINS

PRODUCT DESCRIPTION

in hard black/red gelatin capsule containing white to off-white powder

FORMULATION

ach capsule contains

Thiamine Mononitrate (Vit. B ₁), USP	300 mg
Pyridoxine HCI (Vit. B _n), USP	100 mg
Cyanocobalamin(Vit. B., USP	100 mog

PHARMACODYNAMICS

This product contains 8-complex vitamins (vitamins B_s , B_0). These nutrients are required for normal nerve function and are used as adjunct in the management of neuromuscular pain. 8-complex vitamins have the following neuromuscular functions/effects:

NUTRIENTS	NEUROMUSCULAR FUNCTION
Thiamine (B+)	Involved in the production and release of acetylcholine, aneurotransmitter required in conveying signals between cells.
Pyridoxine (B ₆)	Required in the formation of neurotransmitter such as serotonin, gamma arrino butyric acid (GASA), dopamine, and epinephrine to facilitate normal nervous system function.
Cyanocobalamin (Bu)	Required for the synthesis of myelin, the white sheath that somounds nerve fibers.

PHARMACOKINETICS

Vitamin Bs. Small amounts of thiamine are well absorbed from the gastrointestinal tract after oral doses, but the absorption of doses larger than about 5 mg is limited. It is also rapidly absorbed on intramuscular injection. It is widely distributed to most body tissues, and appears in breast milk. Within the cell, thiamine is mostly

injection. It is videsly distributed to most body issues, and appears in breast milk. Within the cell, thramme is mostly present as the diphosphate. Thiamme is not stored to any appreciable extent in the body and amounts in excess of the body's requirements are excreted in the unne unchanged or as metabolites.

Vitamin Billian Billian State of the active forms pyridoxan phosphate and pyridoxamine phosphate. They are stored mainty in the liver where there is oxidation to 4-pryridoxic acid and other inactive metabolites which are excreted in the urine. As the dose increases, proportionally greater amounts are excreted unchanged in the

urine. Pyridoxal crosses the placenta and is distributed into breast milk.

Vitamin B₁₁. Substances bind to infrinsic factor, a glycoprotein secreted by the gastric mucosa, and are then actively absorbed from the gastrointestinal tract. Absorption is impaired in patients with an abscence of intrinsic factor, with a malabsorption syndrome or with disease or abnormality of the gut, or after gastrectomy. Absorption ractor, with a maintendency syndrome or with disease of abnormality of the gut, or after gastrectomy Absorption from the gastrointestinal fract can also occur by passive diffusion, little of the vitamin present in food is absorbed in this manner although the process becomes increasingly important with larger amounts such as those used therapeutically. After intranasal dosage, peak plasma concentrations of cyanocobalamin have been reached in 1 to 2 hours. The bioavailability of the intranasal peparation is about 7 to 11 % of the intranuscular injection. Vitamin B ≥ is extensively bound to specific plasma proteins called transcobalamins; transcobalamin II appears to be involved in the rapid transport of the cobalamins to tissues.

INDICATIONS

Neuritis, neuralgia, polyneuritis, lumbago, cervical and shoulder-arm syndrome, rheumatic pains, herpes zoster, alcoholism, cardiac disorders, diabetic neuropatity, encephalopathies, latrogenic complications arising from INH, reserpine and phenothiazine therapy. Vitamin B deficiencies.

DOSAGE AND MODE OF ADMINISTRATION:

As prophylaxis

1-2 capsules daily As therapy

2-4 capsules Or as prescribed by a physician.

PRECAUTIONS

In patients known to be hypersensitive to any of its content.

Cyanocobalamin (Vitamin 81:) should not be given to patients with suspected witamin 81: deficiency without first confirming the diagnosis. Regular monitoring of the blood is advisable. Administration of doses greater than 10 µg daily may produce a haematological response in patients with folate deficiency; indiscriminate use may mask the precise diagnosis. Conversely, folate may mask vitamin Bu deficiency.

INTERACTIONS

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Vitamin Bs. Pyridoxine reduces the effects of levodopa but this does not occur if a dopa decarboxylase inhibitor is also given. Pyridoxine reduces the activity of altretamine. It has also been reported to decrease serum concentrations of phenobarbital and phenytoin. Many drugs may increase the requirements for pyridoxine; such drugs hydrazaline, isonizati, perioillarmine and oral contraceptives.
Vitamin Bs. Absorption of vitamin Bs from the gastrointestinal tract may be reduced neomyoin, aminosalicylic.

acid, histamine Hr-antagonists, omeprazole, and colchicine. Serum concentrations may be decreased by use of oral contraceptives. Many of these interactions are unlikely to be of clinical significance but should be taken into account when performing assays for blood concentrations. Parenteral chloramphenicol may attenuate the effect of vitamin Bo in anaemia.

ADVERSE EFFECTS

Thiamine Mononitrate (Vit. B-)

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Adverse effects with thiamine are rare, but hypersensitivity reactions have occurred. These reactions have ranged in severity from very mild to, very rarely, fatal anaphylactic shock.

Pyridoxine Hydrochloride (VIL.B-)
Long-term use of large doses of pyridoxine is associated with the development of severe peripheral neuropathies; the dose at which these occur is controversial. Pyridoxine reduces the effects of levodopa, but this does not occur if a dopa decarboxylase inhibitor is also given. Pyridoxine reduces the activity of altretamine. It has also been reported to decrease serum concentrations of phenobarbital and phenytoin.

Many drugs may increase the requirements for pyridoxine; such drugs include hydralazine, isoniazid, penicitamine,

Cyanocobalamin (Vit. Bo)

Allergic hypersensitivity reactions have occurred rarely after parenteral doses of the vitamin Bu compounds

Vitamin Bs. Although vitamin Bs has generally been considered relatively nontoxic, long term (two months or longer) administration of large (megadose) dosages (usually 2 grains or more daily) of vitamin 8-z can cause neurogical symptoms manifested as paresthesia (more noticeable at night and limited to the extremities), bone pairs (described as lightning, stabbing or shooting like a knifing needle or electric shocks), hyperesthesia (described in burning, pricking, stinging, or itching), muscle weakness (difficulty in running, litting, climbing stairs and loss of manual dexterity) fasciculation (described as twitching, restlessness or fidgeting), and numbness of the limbs and

CAUTION

Foods, Drugs, Devices and Cosmetics Act prohibits dispensing without prescription.

ADR REPORTING STATEMENT:

"For suspected adverse drug reaction, report to the FDA: www.fda.gov.ph". Seek medical attention immediately at the first sign of any adverse drug reaction.

AVAILABILITY

Blister pack x 10's (Box of 100's)

STORAGE CONDITION

ore at temperatures not exceeding 30oC

REGISTRATION NUMBER

DRP-887-02

DATE OF FIRST AUTHORIZATION/ RENEWAL

September 24, 2008

DATE OF REVISION

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