THIAMINE MONONITRATE (Vit. B1) **PYRIDOXINE** HCI (Vit. B6) **CYANOCOBALAMIN** (Vit. B12) **PARACETAMOL**

POLYNERV FORTE

Film-Coated Tablet



Vitamins/Analgesic

FORMULATION:

PRODUCT DESCRIPTION:

biconvex film-coated tablet hisected on one side

POLYNERV*FORTE is a high potency formulation of the neurotropic vitamins B1, B6 and B12, reinforced with an analgesic, paracelamol. This unique formulation helps provide adequate nourishment of the different body systems especially the centrical neal peripheral neurous systems and alleviate various pointful conditions including neuronuscular illnesses. The vitamin B components of POLYNERV*FORTE catalyze various basic blochemical processes required in promoting nervous system physiology. Paracelamol, with its pain relieving actions, complements the nerve scothing actions of vitamins B1, B6 and B12.

PHARMACODYNAMICS AND PHARMACOKINETICS:

Vitamins B1, B6 and B12 are important co-factors in maintaining normal nerve metabolism. Any metabolic disorder that may result from the deficiency of these factors and or concomitant nerve injury may cause peripheral neuropathies.

Since pain offen accompanies peripheral neuropathies, paracetamol, a proven safe and dependable analgesic, in combination with B-complex provide support in the management of neuromuscular diseases.

Inliamine (Vitamin B1) functions as a coenzyme of carbohydrate metabolism. It is specifically involved in the decarbowydation of alpha-tebacids such as pyruvate and alpha-tebacidurate. Impaired oxidation of the alpha-tebacids leads to the accumulation of metabolism which are taxle to the cells of the central nervous system (CNS). Inliamine promotes efficient metabolism of glucose and the conversion of glucose into other substances such as itoose, a major component of DNA and RNA. Thiamine activates production of energy from glucose and storage of energy as far, mixing penegra variable to support the normal cellular processor which is mixing the conversion of the convers

Pytidaxine (Vitamin B6) participates in many cellular reactions of lipid and amino acid metabolism. The active form of B6, pytidaxine (Vitamin B6) participates in many cellular reactions of lipid and amino acid metabolism. The active form of B6, pytidaxia phosphate, acts as a coenzyme in several metabolic transformations of amino acids, which are in turn needed for tissue building and repair, and in the synthesis of blood elements and certain compounds like neurotransmitters. Pytidoxine is of particular importance in the synthesis of the curvatornsmitters, which are required for the normal activity of the nervous system. A deficiency of pytidoxine causes adonomal CNS function, with hyperimitability, neuritis, and even convulsions. Vitamin B6 is required in the synthesis of precursors necessary for hemoglobin production.

Paracetamol relieves pain by blocking the production of prostaglandin, the chemical that causes pain, through the inhibition of the enzyme cyclooxygenase.

INDICATIONS:

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 Neuropathies caused by certain disease states such as diabetes mellitus and cardiac disorders.
 Alcoholic neuropathy
 Acute and chronic painful paresthesias
 Neurolgias (e.g., ischialgia, trigeminal neurolgia and lumbalgia) and in cases of peripheral neve impingement (i.e., carpal tunnel syndrome, cervical shoulder-arm syndrome, cervical spondylosis and hemiated disc with root impingement), trauma (e.g., never transection, crash injuries and traction injuries), or infection (e.g., herpes zoster or shingles).

DOSAGE AND ADMINISTRATION:
For theraneutric use, 2-4 tablets should be administered daily or as prescribed by the physician. Chronic cases which may require longer

CONTRAINDICATIONS/PRECAUTIONS/WARNINGS:

Paracetamol should be given with care to patients with impaired kidney or liver function. It should also be given with care to patients with alcohol dependence, chronic mainutrillion, or dehydration.

ensitivity to paracetamol and any of the components.

Cyanocobalamin should not be given to patients with suspected vitamin B12 deficiency without first confirming the diagnosis, doses greater than 10 mag daily may produce a hematological response in patients with foliate deficiency and indiscriminate us mask the precise diagnosis. Regular monitoring of blood is advisable.

er's disease or tobacco amblyopia since these optic neuropathies may degenerate further.

PREGNANCY AND LACTATION:
Vitamins 81, 86, 812 and Paracetamol can be given safely for pregnant and lactating women.
Though some have expressed concern over inhibition of breast milk secretion by pyridoxine, others have cautioned that pyridoxine

deficiency may cause selzures in the neonate.

ADVERSE DRUG REACTIONS:
Adverse effects of paracetamol are rare and usually mild, although hematological reactions including thrombocytopenia, leucopenia, pancytopenia, neutropenia, and agranulocytosis have been reported.

Paracetamol use has been associated with development of rashes and other hypersensitivity reactions characterized by urticaria, dyspnea, hypotension and angioedema. Fixed drug eruptions and toxic epidermal necrolysis have also been reported.

Results of few studies have suggested that long-term use of paracetamol may be associated with an increased fisk for developing hematologic malignancies, hypertension, hearing loss and asthma. Paracetamol has also been associated with accumulation of pyroglutamic acid, resulting in pyroglutamic aciduita and high anion gap metabolic acidosis.

Adverse effects with thiamine are rare, but hypersensitivity reactions have occurred, mainly after parenteral doses

Long-term (2 to 40 months) use of large doses of pyridoxine (2 to 6 g daily) is associated with the development of severe peripheral

Allergic hypersensitivity reactions have occurred rarely after cyanocobalamin and include skin reactions such as rash and itching, and anaphylaxis. Patients who are hypersensitive to cyanocobalamin injection may however be able to take oral cyanocobalamin include gastrointestinal disturbances, fever, chills, hot flushing, dizziness, malaise, acnelform and bullous eruptions, and tremor.

DRUG INTERACTIONS: DRUG INTERACTIONS:
The fisk of paracetamol toxicity may be increased in patients receiving other potentially hepatotoxic drugs or drugs that induce liver microsomal enzymes. The absorption of paracetamol may be accelerated by drugs such as metoclopramide. Excretion may be decreased when given with probenecid. Cholestyramine reduces the absorption of paracetamol. Drugs that increase the requirements for pytidoxine include hydralazine, isoniazid, penicillamine and oral contraceptives. Pyridoxine reduces the activity of altretamine and decreases serum concentrations of phenobarbital and phenytoin.

Drugs that may reduce the absorption of vitamin B12 from the gastrointestinal tract include neomycin, aminosalicylic acid, histomine-2 receptor antagonists, omeprazole, and colchicine. The effect of vitamin B12 in anemia may be attenuated by parenteral chloramphenicol.

OVERDOSAGE AND TREATMENT:

Toxic doses of paracetarmol may cause severe hepatocellular necrosis and renal tubular necrosis. Hepatotoxicity may occur after ingestion of more than 150 mg/kg, or rarely, as little as 75 mg/kg, of paracetamol within a 24-hour period. Early signs of overdosage such as nausea, vomiting, lethargy and sweating usually settle within 24 hours. Abdominal pain may be the first indication of liver damage although it is not apparent for 24 to 48 hours and may be delayed for up to 4 to 6 days after ingestion. Vier damage is generally at a maximum 72 to 96 hours after ingestion. Hepatic failure, encephalopathy, coma, and death may result. Complications of hepatic failure include acidosis, cerebral ederna, hemorrhage, hypoglycemia, hypotension, infection, and renal failure.

Prompt freatment is essential, even when there are no obvious symptoms, and patients should be admitted to the hospital for full supportive measures. Activated charcoal may be used to reduce gastrointestinal absorption if it can be given within 1 hour of the overdose and if more than 150 mg/kg of paraorealmon has been ingested. However, if acetylcysteline or methionine antilodie is to be given orally, the charcoal is best cleared from the stomach to prevent if from reducing the absorption of the antilodie. The plasma-paracetamol concentration should be determined as soon as possible, but not within 4 hours of ingestion. Antilodie treatment should be started as soon as possible after ususpected paracetamol ingestion and should not be delayed while awalting the results of plasma assays. Once the results become available; treatment may be stopped if the initial concentration was below the nomogram reference line. Acetylcysteine is usually the antidate of choice but the route of administration varies. Acetylcysteine is most effective when given during the first 8 hours after taking the overdose and the effect diminishes progressively thereafter. Methionine is also most effective when given as early as possible after paracetamol overdosage.

The plasma-paracetamol concentrations considered as indication for antidate treatment should be halved in patients receiving enzyme-inducing drugs such as iffampicin, carbamazepine, phenobatristal, phenytoin, or primidone. Severe hepatotoxicity at therapeutic doses or moderate overdoses of paracetamol has been reported in patients receiving isoniazid, alone or with other drugs for tuberculosis.

No cases of Vitamin B1 overdose have been reported. Vitamin B6 overdose is rare, two cases that caused central nervous sy toxicity have been reported. Overdose of Vitamin B12 is also rare. Although an overdose is highly unlikely, call the doctor away if you have any reason to suspect find one has occurred.

Aluminum - OPA / Alu / PVC Blister Pack x 10's (Box of 100)

CAUTION:

s, Devices and Cosmetics Act prohibits dispensing without prescription.

STORE AT TEMPERATURES NOT EXCEEDING 30°C.

For suspected adverse drug reaction, report to the FDA: www.fda.gov.ph

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