PAEDICOF SYRUP

Each 5ml contains: -	
Dexchlorpheniramine maleate	1 mg
Pseudoephedrine HCI	15 mg
Dextromethorphan HBr	5 mg

Pharmacology:

Dextomethorphan HBr is a non-narcotic antitusive with effectiveness equal to codenie. It acts in the medula oblognatia to elvente the cough threadol. Dextomethorphan does not produce analgesia or induce bierance, and has no potential for addiction. At usual doses, it will not depress respiration or inhibit ciliary activity. It is rapidly metabolised with trace amounts of parent compound in blood and urine. After administration of Dextomethorphan HBr 30mg by mouth to 6 subjects, the average plasma concentration of its major metabolises devitophan and conjugates were about 21ng/ml after 15 min, about 107ng/ml after 30 min and about 388ng/ml after 50 min, with peak of about 331 ng/ml after 15 min, about 107ng/ml after 30 min and about 388ng/ml after 50 min, with peak of about 331 ng/ml after 2 hours.

Dexchlorpheniramine Malatel is an anti-histamine with anti-cholmergic properties. It is capable of producing a slight to moderale sedative effect. It appears to compete with histamine for receptor sites on effector cells and are of value clinically in the prevention and relief of many allergic manifestations. It has been demonstrated that the predominant activity of the optically active isomers of chlorpheniramine is the dextro-isomer. The dextro-isomer and active molety of chlorpheniramine, its action and uses is similar to those of chlorpheniramine.

Peak blood levels were achieved at an average time of 3 hours after administration. The half life of Descholpheniarium Melaeta ranged from 20 to 40 hours. The drug when given is found to be extensively metabolised. The drug and metabolites were primarily excreted in the urine, with 19% of the dose appearing in 24 hours and total of 34% in 48 hours.

Pseudophedrine is a physiologically active stereoisomer of ephedrine that acts directly on alpha-adrenergic receptors and to lesser degree, beha-denergic receptors. The alpha-adrenergic effects are believed to result from the reduced production of cyclic adenosine 3°, 5' monophosphate (cyclic 3°, 5' AMP) by inhibition of the enzyme adem(v) calcase activity.

Pseudophedrine acts on alpha-adrenergic receptors in the nasal mucosa and releases norephedrine, hence producing vasconstriction of the diffed nasal adretices resulting in shrinkage of svollen nasal mucous membranes, reduction of tissue hyperemia, oedema and nasal decongestion and an increase in nasal ainway patency. Drainage of sinus secretions is increased and obstructed Eustachian osta may be opened. Relaxation of horonial smooth muscle by stimulation of bear adrenergic receptors may also occur. Following oral administration of 30 mg pseudoephedrine hydrochloride effects are noted within 30 minutes with peak activity occurring at approximately on una relaximistication and the effect persists for 4 to 6 hours.

Pseudoephedrine is absorbed from the gastrointestinal tract. It is resistant to metabolism by monoamine oxidase and is largely excreted unchanged in the urine together with small amounts of its hepatic metabolite. It has half-life of several hours, elimination is enhanced and half-life accordingly shorter in acid urine.

Indications:

It is indicated for the relief of unproductive cough and nasal congestion due to common cold or allergy.

Contraindications:

Hypersensitivity to any of its ingredients.

Do not use in the newborn, in premature infants, in nursing mothers, in patients with severe hypertension or severe coronary, artery disease or in those receiving monoamine oxidase (MAO) inhibitors.

Side effects / Adverse reactions:

The most frequent adverse reactions are: sedation; dryness of mouth, nose and throat; thickening of bronchial secretions; dizziness. Other adverse reactions may include :

Dermatologic	Urticaria, drug rash, photosensitivity, pruritus.
Cardiovascular system	Hypotension, hypertension, cardiac arrhythmias, and palpitation.
Hematologic system	Hemolytic anemia, thrombocytopenia, agranulocytosis.
Nervous system	Disturbed coordination, nervousness, tremor, irritability, insomnia, vision
	disturbances, convulsions, headache, euphoria and dysphoria.
Gastrointestinal system	Epigastric distress, anorexia, nausea, vomiting, diarrhoea, constipation.
Urinary system	Urinary frequency, difficult urination, urinary retention.
Respiratory system	Tightness of chest and wheezing, shortness of breath.

Precautions / Warnings:

Sympathomimetics should be used with caution in patients with hypertension, hyperthyrolistm, diabetes mellitus and cardiovascular disease. Anthistamines should be used with caution in patients with narrow angle glaucoma, stenosing peptic user, pilorodoudenal costruction, symptomatic prostatic hypertrophy and bladder narck distruction. Anthistamines should not be used to trace lower respiration trac conditions including asthma. Not to be useful or chronic persistent cough accompanying a disease state for cough associated with excessive heard disease. The normal failure.

Patients should be warned about engaging in activities requiring mental alertness such as driving a car or operating machinery.

Use in pregnancy and lactation:

Safety during pregnancy has not been established

It is not known whether this product is excreted in human milk and therefore caution should be exercised when administered to nursing mothers.

Use in children:

Safety and effectiveness of this product have not been established in children below 2 years. Use in elderly:

Antihistaminés may cause dizziness, sedation and hypotension in patients above 60 years. These patients are also more likely to have adverse reactions to sympathomimetics. Fiderly natients may be natricularly sensitive to central nervous system effects.

Eldeny patients may be particularly sensitive to central nervous system e Not recommended for children below 2 years.

Use with caution and on doctor's/pharmacist's advice in children 2 to 6 years of age.

Dosage:

Oral administration. Children 6 to 11 years: 10 ml every 4 to 6 hours Children 2 to 5 years: 5 ml every 4 to 6 hours Not recommended for children below 2 years. Use with caution and on doctor s/oharmacist/s advice in children 2 to 6 years.

Drug Interactions:

Anti-histamines have additive effects with alcohol and other CNS depressants (hyponotics, sedatives, tranguilises, antianxiety apants, e.c). These drugs may polentiale the sedative effect of dexchopheniramine. The action of oral anticoagulants may be inhibited by antihistamines. Monoamine oxidase inhibitors portiong and intensify the anti-chairegic (c)ring) effects of antihistamines and polentiate the pressor effects of sympathomimetics. Pseudoephedrine-containing drugs should not be given to patients treated with a MAOI or within 10 days of discontinuing such treatment. Pseudoephedrine should not be used with agnitoric-blocking agents or with adrenergic-blocking agents. Increased ectopic pacemaker activity can occur when seudoephedrine used orcomatimity with digitals.

Symptoms and Treatment for overdosage and antidote(s):

Dexchlorpheniramine overdosage effects may vary from central nervous system depression to stimulation to death. Toxic doses of pseudoephedrine may result in CNS stimulation, tachycardia, hypertension and cardiac arrhythmia; signs of CNS depression may occasionally be seen.

Dextromethorphan in toxic doses will cause drowsiness, ataxia, nystagmus, opisthotonos and convulsive seizures.

Induce mensis if gatient is alert and is seen prior to 6 hours following ingestion. Precautions against aspiration must be taken especially in infrants and small children. Gastric lavage may be carried out although in some instrances tracheostomy may be necessary prior to lavage. Natoxene hydrochioride 0.006mg/kg intravenous short-acting barbiturates may be indicated. Hypertensive responses and/or tachycardia should be treated apropriately. Coven, intravenous fluids and other suportive measures should be employed as indicated and propriately. Coven, intravenous fluids and other suportive measures should be treated as indicated and the super super strategies of the super super super strategies of the super super

Pack size: A bottle of 60ml, 100ml and 120ml.

Storage conditions: Store at temperature 25°C. Protect from light.

Shelf-life: 3 years.

Description: A clear, green syrup with blackcurrant flavour.

FURTHER INFORMATION CONCERNING THIS DRUG CAN BE OBTAINED FROM YOUR FAMILY PHYSICIAN / LOCAL GENERAL PRACTITIONER / PHARMACIST.

Manufacturer: Sunward Pharmaceutical Sdn. Bhd. No. 9, 11&17, Jalan Kempas 4, Taman Perindustrian Tampoi Indah, 81200 Johor Bahru, Johor, Malaysia.