Methipred

Methylprednisolone Tablet

Presentation

Methipred 2 Tablet: Each film coated tablet contains Methylprednisolone USP 2 mg. Methipred 4 Tablet: Each film coated tablet contains Methylprednisolone USP 4 mg. Methipred 1 Tablet: Each film coated tablet contains Methylprednisolone USP 8 mg. Methipred 16 Tablet: Each film coated tablet contains Methylprednisolone USP 8 mg.

Description

Methylprednisolone is a potent anti-inflammatory steroid. It has greater anti-inflammatory potency than Prednisolone, e tendency than Prednisolone to induce sodium and water retention. The relative potency of Methylprednisolone to Hydrocor at least four to one.

Pharmacodynamic Properties

Promocodynamic properties Methylprednisolone is a potent anti-inflammatory agent with the capacity to profoundly inhibit the immune system. Glucocorticoids primarily bind to and activate intracellular glucocorticoid receptors that being activated bind to promoter regions of DNA (which may activate or suppress transcription) and activate transcription factors that results in inactivation of genes through deacetylation of histones. Methylprednisolone influences the kidney and fluid & electrolyte balance, lipid, protein, and carbohydrate metabolism, skeletal muscle, the cardiovascular system, the immune system, the nervous system, and the endocrine system.

skeletal muscle, the cardiovascular system, the immune system, the nervous system, and the endocrine system. **Pharmacokinetic Properties** The absolute bioavailability of Methylprednisolone is generally high (82% to 89%) following oral administration and rapidly absorbed and the maximum plasma concentration is achieved around 15 to 2.3 hours across deves following oral administration in normal healthy adults. Methylprednisolone is widely distributed into the tissues and its volume of distribution is 41-61.5 L. It crosses the blood-brain barrier and the placental barrier and is secreted in breast milk. The plasma protein binding of Methylprednisolone in humans is approximately 77%. Methylprednisolone is metabolized in the liver to inactive metabolites. No dosing adjustments are necessary in renal failure. Methylprednisolone is haemodializable. **Indicritions**

In nontrais is openal failure. Methylprednisobne is heemodializable. Indications I. Endocrine Disorders: Primary or Secondary Adrenocortical Insufficiency, Congenital Adrenal Hyperplasia, Nonsuppurative Thyroiditis, Hypercalcemia associated with Cancer; 2. Rheumatic Disorders: Rheumatoid Arthritis, Juvenile Rheumatoid Arthritis, Ankylosing Spondylitis, Acute and Subacute Bursitis, Synovitis of Osteoarthritis, Acute presence in the presence of the second arthritis, Positic Arthritis, Positic Arthritis, Positic Arthritis, Positic Arthritis, Acute and Subacute Bursitis, Synovitis of Osteoarthritis, Bursitis, Positic Arthritis, Positic Arthritis, Positic Arthritis, Acute and Subacute Bursitis, Sonorthei Dermatitis, Exfoliative Dermatitis, Merce Stevense, Systemic Lupus Erthematosus, Systemic Dermatomyositis and Acute Rheumatic Carditis, 4. Dermatologic Diseases: Bullous Dermatitis, Herpes Zoster Ophthalmicus, Severe Psoriasis, 5. Allergy: Seasonal or Perennial Allergic Rhinitis, Durg hypersensitivity reactions, Serum Sickness, Contact Dermatitis, Bronchial Ashma and Alopic Dermatitis; 6. Ophthalmic Diseases: Allergic Conjunctivitis, Chorizentinis, Iritis and Iridocyclitis; 7. Respiratory Diseases: Symptomatic sarcoidosis, Leeffler's syndrome not manageable by other means, beryllicosis, Aspiration Pneumonitis; 8. Hematological Disorders: Italopathic Thrombocytopenic Program and adults, Acquired (Autoimmune)Hemolytic Anemia, Erythroblastopenia, Congenital (Erythroid) Hypoplastic Anemia; 9. Neoplastic Diseases: For palliative management of Leukemias and Lymphonas in adults, Acquired (Autoimmune)Hemolytic Anemia, Stratis, Syndrome, withou'U Uremia, of the idiopathic Thrombocytopenic of childhood; 10. Cdematous states: To induce a Divesis or Premission of Proteinuria in the Nephrotic Syndrome, withou'U Uremia, of the idiopathic type or that due to Lupus Erythematosus; 11. Gastrointestinal Disease: To tide the patient over a critical period of the disease in Ulcerative Colitis & Regional Enteritis 12. CNS Di

Dosage and Administration

Regional Enteritis 12. CNS Disease: Acute Exacerbations of Multiple Sclerosis.
Dosage and Administration
The usual ronge is 2-48 mg daily in divided doses, depending on the specific disease being treated.
As anti-inflammatory/immunosuppressive initial dosage: As anti-inflammatory/immunosuppressive, the initial dosage of
Methylprednisolone tablets may vary from 4-48 mg per day depending on the specific disease being treated.
In situations of
less severity lower doses will generally suffice while in selected patients higher initial doses may be required. The initial dosage
should be maintained or adjusted until a satisfactory response is noted. If after a reasonable period of time there is a lack of
satisfactory clinical response, Methylprednisolone should be discontinued and the patient transferred to other appropriate througy. It
should be emphasized that dosage requirements are variable and must be individualized on the basis of the disease under
treatment and the response of the patient.
As anti-inflammatory/immunosuppressive maintenance dosage: After a favorable response is noted, the proper maintenance dosage
should be determined by decreasing the initial drug dosage in small decrements at appropriate time intervals until the lowest
dosage which will maintain an adequate clinical response is reached. It should be kept in mind that constant monitoring is needed
in regard to drug dosage. If after long-term therapy the drug is to be stopped, it is recommended that it be withdrawn gradually
rather than abruptly.
Multiple Sclerosis: In the treatment of acute exacerbations of multiple sclerosis, daily doses of 160 mg of Methylprednisolone for a
week followed by 64 mg every other day for 1 month have been shown to be effective.
Methylprednisolone 4 mg tablet can be used to treat and to control severe allergy and dermatitis following the guideline listed
below to minimize the steroid withdrawal syndromes:
• Day 3: 1 tablet before breakfast + 1 tablet after lunch + 1 tablet after dinner + 2 tablets

The following should be kept in mind when considering alternated symptoms, and grown represent in terrative. The following should be kept in mind when considering alternate-day therapy: (a) Basic principles and indications for corticosteroid therapy should be applied. (b) ADT is a therapeutic technique primarily designed for patients in whom long-term pharmacologic corticoid therapy is anticipated. 3) In less severe disease processes in which corticoid therapy is indicated, it may be possible to initiate treatment with ADT. More severe disease states usually will require daily divided high dose therapy for initial control of the disease process. The initial suppressive dese level should be continued until satisfactory clinical response is obtained, usually four to ten days in the case of many allergic and collagen diseases.

Once control has been established, two courses are available: (a) change to ADT and then gradually reduce the amount of corticoid given every other day or (b) following control of the disease process reduce the daily dose of corticoid to the lowest effective level as rapidly as possible and then change over to an alternate day schedule.

Contraindications

Systemic fungal infections and known hypersensitivity to components.

Precautions

Adrencortical insufficiency may persist for months after discontinuation of therapy, therefore, in any situation of stress occurring during that period, hormone therapy should be reinstituted. Since mineralocorticoid secretion may be impaired, salt and/or a mineralocorticoid should be administered concurrently.

There is an enhanced effect of corticosteroids on patients with hypothyroidism and in those with cirrhosis. Corticosteroids should be used cautiously in patients with ocular herpes simplex because of possible corneal perforation. Aspirin should be used cautiously in conjunction with corticosteroids in hypoprothrombinemia. Growth and development of infants and children on prolonged corticosteroid therapy should be carefully observed.

Use in Pregnancy and Lactation Pregnancy: Category C. Drugs should be given only if the potential benefit justifies the potential risk to the foetus Lactation: Methylprednisolone has not been adequately evaluated in nursing mothers.

Drug Interactions

Drug inercations Exploranyin, Clarihromycin, Phenobarbital, Phenytoin, Rifampin and Ketoconazole inhibit the metabolism of Methylprednisolone. Estrogens, including birth control pills, can increase the effect of corticosteroids by 50%. Cyclosporin reduces the metabolism of Methylprednisolone while Methylprednisolone reduces the metabolism of Cyclosporin. Methylprednisolone may increase or decrease the effect of blood thinners (e.g. Warfarin). For all these interactions, the dose of Methylprednisolone may need to be humand.

Side Effects

Side Effects Short courses of Methylprednisolone are usually well-tolerated with few, mild side effects. Long term, high doses of Methylprednisolone may produce predictable and potentially serious side effects. Whenever possible, the lowest effective doses of Methylprednisolone should be used for the shortest length of time to minimize side effects. Alternate day dosing also can help reduce side effects ide effects of Methylprednisolone and other corticosteroids range from mild annoyances to serious irreversible bodily damage. Side effects include fluid retention, weight gain, high blood pressure, potassium loss, headache, muscle weakness, hair growth on the face, glaucoma, cataracts, peptic ulceration, growth retardation in children, convulsions, and psychic disturbances including depression, euphoria, insomnia etc.

Prolonged use of Methylprednisolone can depression, expiration, insolititud etc. Prolonged use of Methylprednisolone can depress the ability of the body's adrenal glands to produce corticosteroids. Abruptly stopping Methylprednisolone in these individuals can cause symptoms of corticosteroid insufficiency, with accompanying nausea, vomiting, and even shock. Therefore, withdrawal of Methylprednisolone usually is accomplished by gradually lowering the dose. Gradually tepring Methylprednisolone not only minimizes the symptoms of corticosteroid insufficiency, it also reduces the risk of an abrupt flare of the disease being treated.

Over Dosage Report of acute toxicity and/or death following overdose of glucocorticoid are rare. No specific antidote is available; treatment is supportive and symptomatic. Serum electrolytes should be monitored.

Storage Conditions Store in a cool and dry place, away from light. Keep out of reach of children.

Commercial Pack

Methipred 2 Tablet: Each box contains 4 blister packs of 15 tablets. Methipred 2 Tablet: Each box contains 3 blister packs of 15 tablets. Methipred 8 Tablet: Each box contains 3 blister packs of 10 tablets. Methipred 16 Tablet: Each box contains 2 blister packs of 10 tablets.

