

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 84-655

PRINTED LABELING

PREDNICEN-M TABLETS

(PREDNISONE 5 mg.)

DESCRIPTION

Glucocorticoids are adrenocortical steroids, both naturally occurring and synthetic, which are readily absorbed from the gastrointestinal tract. Prednisone is a white, odorless, crystalline powder. It is very slightly soluble in water, slightly soluble in alcohol, in chloroform, in dioxane, and in methanol.

ACTIONS

Naturally occurring glucocorticoids (hydrocortisone and cortisone), which also have salt-retaining properties, are used as replacement therapy in adrenocortical deficiency states. Their synthetic analogs are primarily used for their potent anti-inflammatory effects in disorders of many organ systems.

Glucocorticoids cause profound and varied metabolic effects. In addition, they modify the body's immune responses to diverse stimuli.

INDICATIONS

- 1. Endocrine Disorders:**
 - Primary or secondary adrenocortical insufficiency (hydrocortisone or cortisone is the first choice; synthetic analogs may be used in conjunction with mineralocorticoids where applicable; in infancy mineralocorticoid supplementation is of particular importance).
 - Congenital adrenal hyperplasia.
 - Nonsuppurative thyroiditis.
 - Hypercalcemia associated with cancer.
- 2. Rheumatic Disorders:**
 - As adjunctive therapy for short-term administration (to tide the patient over an acute episode or exacerbation) in:
 - Psoriatic arthritis.
 - Rheumatoid arthritis (selected cases may require low-dose maintenance therapy).
 - Ankylosing spondylitis.
 - Acute and subacute bursitis.
 - Acute nonspecific tenosynovitis.
 - Acute gouty arthritis.
- 3. Collagen Diseases:**
 - During an exacerbation or as maintenance therapy in selected cases of:
 - Systemic lupus erythematosus.
 - Acute rheumatic carditis.
- 4. Dermatologic Diseases:**
 - Pemphigus.
 - Bullous dermatitis herpetiformis.
 - Severe erythema multiforme (Stevens-Johnson syndrome).
 - Exfoliative dermatitis.
 - Mycosis fungoides.
 - Severe psoriasis.
- 5. Allergic States:**
 - Control of severe or incapacitating allergic conditions intractable to adequate trials of conventional treatment:
 - Seasonal or perennial allergic rhinitis.
 - Bronchial asthma.
 - Contact dermatitis.
 - Atopic dermatitis.
 - Serum sickness.
- 6. Ophthalmic Diseases:**
 - Severe acute and chronic allergic and inflammatory processes involving the eye and its adnexa such as:
 - Allergic conjunctivitis.
 - Keratitis.
 - Allergic corneal marginal ulcers.
 - Herpes zoster ophthalmicus.
 - Iritis and iridocyclitis.
 - Chorioretinitis.
 - Anterior segment inflammation.
 - Diffuse posterior uveitis and choroiditis.
 - Optic neuritis.
 - Sympathetic ophthalmia.
- 7. Respiratory Diseases:**
 - Symptomatic sarcoidosis.
 - Loeffler's syndrome not manageable by other means.
 - Berylliosis.
 - Fulminating or disseminated pulmonary tuberculosis when concurrently accompanied by appropriate antituberculous chemotherapy.
- 8. Hematologic Disorders:**
 - Idiopathic and secondary thrombocytopenia in adults.
 - Acquired (autoimmune) hemolytic anemia.
 - Erythroblastopenia (RBC anemia).
 - Congenital (erythroid) hypoplastic anemia.
- 9. Neoplastic Diseases:**
 - For palliative management of:
 - Leukemias and lymphomas in adults.
 - Acute leukemia of childhood.
- 10. Edematous States:**
 - To induce a diuresis or remission of proteinuria in the nephrotic syndrome, without uremia, of the idiopathic type or that due to lupus erythematosus.
- 11. Miscellaneous:**
 - Tuberculous meningitis with subarachnoid block or impending block when concurrently accompanied by appropriate anti-tuberculous chemotherapy.
- 12. In addition to the above indications:**
 - Systemic dermatomyositis (polymyositis).

CONTRAINDICATIONS

Systemic fungal infections.

WARNINGS

In patients on corticosteroid therapy subjected to unusual stress, increased dosage of rapidly acting corticosteroids before, during, and after the stressful situation is indicated.

Corticosteroids may mask some signs of infection, and new infections may appear during their use. There may be decreased resistance and inability to localize infection when corticosteroids are used.

Prolonged use of corticosteroids may produce posterior subcapsular cataracts, glaucoma with possible damage to the optic nerves and may enhance the establishment of secondary ocular infections due to fungi or viruses.

Usage in pregnancy: Since adequate human reproduction

Severe erythema multiforme (Stevens-Johnson syndrome).
Exfoliative dermatitis.
Mycosis fungoides.
Severe psoriasis.

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Bronchial asthma.
Contact dermatitis.
Atopic dermatitis.
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Chorioretinitis.
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Prolonged use of corticosteroids may produce posterior subcapsular cataracts, glaucoma with possible damage to the optic nerves and may enhance the establishment of secondary ocular infections due to fungi or viruses.

Usage in Pregnancy: Since adequate human reproduction studies have not been done with corticosteroids, the use of these drugs in pregnancy, nursing mothers or women of childbearing potential requires that the possible benefits of the drug be weighed against the potential hazards to the mother and embryo or fetus. Infants born of mothers who have received substantial doses of corticosteroids during pregnancy, should be carefully observed for signs of hypoadrenalism.

Average and large doses of hydrocortisone or cortisone can cause elevation of blood pressure, salt and water retention, and increased excretion of potassium. These effects are less likely to occur with the synthetic derivatives except when used in large doses. Dietary salt restriction and potassium supplementation may be necessary. All corticosteroids increase calcium excretion.

While on Corticosteroid Therapy Patients Should Not Be Vaccinated Against Smallpox. Other Immunization Procedures Should Not Be Undertaken in Patients who are on Corticosteroids, Especially on High Dose, Because of Possible Hazards of Neurological Complications and a Lack of Antibody Response.

The use of prednisone in active tuberculosis should be restricted to those cases of fulminating or disseminated tuberculosis in which the corticosteroid is used for the management of the disease in conjunction with an appropriate antituberculous regimen.

If corticosteroids are indicated in patients with latent tuberculosis or tuberculin reactivity, close observation is necessary as reactivation of the disease may occur. During prolonged corticosteroid therapy, these patients should receive chemoprophylaxis.

PROFESSIONAL SAMPLE
9 TABLETS

PREDNICEN-M
(PREDNISON)

Each tablet contains:
Prednisone _____ 5 mg.

CAUTION: Federal law prohibits dispensing without prescription.

Licensed under Patent 3,134,718

THE CENTRAL PHARMACAL COMPANY
Seymour, Indiana 47274

APPROVED DEC 9 1975

CONSULT PACKAGE INSERT FOR FULL INFORMATION

KEEP OUT OF THE REACH OF CHILDREN

NDC 0131-2228-13

PROFESSIONAL SAMPLE
9 TABLETS

PREDNICEN-M
(PREDNISON)

Each tablet contains:
Prednisone _____ 5 mg.

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Seymour, Indiana 47274

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KEEP OUT OF THE REACH OF CHILDREN

NDC 0131-2228-13

NDC 0131-2228-37 100 TABLETS

PREDNICEN-M
(PREDNISON)

Each tablet contains:
Prednisone _____ 5 mg.

CAUTION: Federal law prohibits dispensing without prescription.

Licensed under Patent 3,134,718

THE CENTRAL PHARMACAL COMPANY • Seymour, Indiana 47274

APPROVED DEC 9 1975

CONSULT PACKAGE INSERT FOR FULL INFORMATION

KEEP OUT OF THE REACH OF CHILDREN

PEEL LABEL

NDC 0131-2228-37 100 TABLETS

PREDNICEN-M
(PREDNISON)

Each tablet contains:
Prednisone _____ 5 mg.

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KEEP OUT OF THE REACH OF CHILDREN

PEEL LABEL

NDC 0131-2228-43 1000 TABLETS

PREDNICEN-M
(PREDNISON)

Each tablet contains:
Prednisone _____ 5 mg.

CAUTION: Federal law prohibits dispensing without prescription.

Licensed under Patent 3,134,718

THE CENTRAL PHARMACAL COMPANY - SEYMOUR, INDIANA 47274

APPROVED DEC 9 1975

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KEEP OUT OF THE REACH OF CHILDREN

PEEL LABEL

Facial erythema.
Increased sweating.
May suppress reactions to skin tests.

Neurological.

Convulsions.
Increased intracranial pressure with papilledema (pseudotumor cerebri) usually after treatment.
Vertigo.
Headache.

Endocrine.

Menstrual irregularities.
Development of Cushingoid state.
Suppression of growth in children.
Secondary adrenocortical and pituitary unresponsiveness, particularly in times of stress, as in trauma, surgery or illness.
Decreased carbohydrate tolerance.
Manifestations of latent diabetes mellitus.
Increased requirements for insulin or oral hypoglycemic agents in diabetics.

Ophthalmic.

Posterior subcapsular cataracts.
Increased intraocular pressure.
Glaucoma.
Exophthalmos.

Metabolic.

Negative nitrogen balance due to protein catabolism.

DOSAGE AND ADMINISTRATION

1. Dosage should be individualized according to the severity of the disease and the response of the patient. For infants and children, the recommended dosage should be governed by the same considerations rather than by strict adherence to the ratio indicated by age or body weight.
2. Hormone therapy is an adjunct to, and not a replacement for, conventional therapy.
3. Dosage should be decreased or discontinued gradually when the drug has been administered for more than a few days.
4. The severity, prognosis and expected duration of the disease and the reaction of the patient to medication are primary factors in determining dosage.
5. If a period of spontaneous remission occurs in a chronic condition, treatment should be discontinued.
6. Blood pressure, body weight, routine laboratory studies, including 2-hour post-prandial blood glucose and serum potassium, and a chest X-ray should be obtained at regular intervals during prolonged therapy. Upper GI X-rays are desirable in patients with known or suspected peptic ulcer disease.

SPECIFIC DOSAGE RECOMMENDATION

The initial dosage of Prednisone may vary from 5 to 60 mg. per day depending on the specific disease entity 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, prednisone should be discontinued and the patient transferred to other appropriate therapy. **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.** After favorable response is noted, the proper maintenance dosage should be determined by decreasing the initial drug dosage in small increments 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. Included in the situations which may make dosage adjustments necessary are changes in clinical status secondary to remissions or exacerbations in the disease process, the patient's individual drug responsiveness, and the effect of patient exposure to stressful situations not directly related to the disease entity under treatment; in this latter situation it may be necessary to increase the dosage of prednisone for a period of time consistent with the patient's condition. If after long-term therapy the drug is to be stopped, it is recommended that it be withdrawn gradually rather than abruptly.

HOW SUPPLIED: Bottles of 100 and 1000 tablets.

THE CENTRAL PHARMACAL COMPANY
Seymour, Indiana 47274

Revised and Reissued July 1975

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PRECAUTIONS

Drug-induced secondary adrenocortical insufficiency may be minimized by gradual reduction of dosage. This type of relative 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.

The lowest possible dose of corticosteroid should be used to control the condition under treatment, and when reduction in dosage is possible, the reduction should be gradual.

Psychic derangements may appear when corticosteroids are used, ranging from euphoria, insomnia, mood swings, personality changes, and severe depression, to frank psychotic manifestations. Also, existing emotional instability or psychotic tendencies may be aggravated by corticosteroids.

Aspirin should be used cautiously in conjunction with corticosteroids in hypoprothrombinemia.

Steroids should be used with caution in nonspecific ulcerative colitis, if there is a probability of impending perforation, abscess or other pyogenic infection; diverticulitis; fresh intestinal anastomoses; active or latent peptic ulcer; renal insufficiency; hypertension; osteoporosis; and myasthenia gravis.

Growth and development of infants and children on prolonged corticosteroid therapy should be carefully observed.

ADVERSE REACTIONS

Fluid and Electrolyte Disturbances.

- Sodium retention.
- Fluid retention.
- Congestive heart failure in susceptible patients.
- Potassium loss.
- Hypokalemic alkalosis.
- Hypertension.

Musculoskeletal.

- Muscle weakness.
- Steroid myopathy.
- Loss of muscle mass.
- Osteoporosis.
- Vertebral compression fractures.
- Aseptic necrosis of femoral and humeral heads.
- Pathologic fracture of long bones.

Gastrointestinal.

- Peptic ulcer with possible perforation and hemorrhage.
- Pancreatitis.
- Abdominal distention.
- Ulcerative esophagitis.

Dermatologic.

- Impaired wound healing.
- Thin fragile skin.
- Petechiae and ecchymoses.
- Facial erythema.
- Increased sweating.
- May suppress reactions to skin tests.

Neurological.

- Convulsions.
- Increased intracranial pressure with papilledema (pseudotumor cerebri) usually after treatment.
- Vertigo.
- Headache.

Endocrine.

- Menstrual irregularities.
- Development of Cushingoid state.
- Suppression of growth in children.
- Secondary adrenocortical and pituitary unresponsiveness, particularly in times of stress, as in trauma, surgery or illness.
- Decreased carbohydrate tolerance.
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