

Dexamethasone Sodium Phosphate Injection, USP

Rx Only

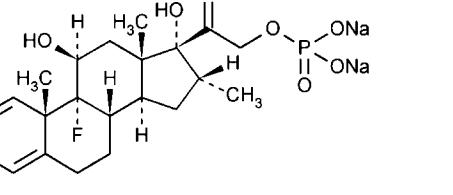
DESCRIPTION

Dexamethasone Sodium Phosphate Injection, USP is a water-soluble inorganic ester of dexamethasone which produces a rapid response even when injected intramuscularly.

Dexamethasone Sodium Phosphate, $C_{21}H_{28}Na_3O_9P$, has a molecular weight of 516.41 and chemically is $\text{Pregn}-4\text{-ene}-3, 20\text{-dione}-9, 17\text{-dihydroxy}-16\text{-methyl}-21\text{-}(\text{phosphonoxy})$, disodium salt, (11 β), 16 α .

It occurs as a white to creamy white powder, is exceedingly hygroscopic, is soluble in water and its solutions have a pH between 7.0 and 8.5.

It has the following structural formula:



Dexamethasone Sodium Phosphate Injection, USP is available in 4 mg/mL.

Each mL of Dexamethasone Sodium Phosphate injection contains Dexamethasone Sodium Phosphate, USP equivalent to 4 mg of Dexamethasone Phosphate. Made isotonic with sodium citrate. pH adjusted with citric acid or sodium hydroxide.

ACTIONS

Naturally occurring glucocorticoids (hydrocortisone), 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

A. Intravenous or intramuscular administration. When oral therapy is not feasible and the strength, dosage form, and route of administration of the drug reasonably lend the preparation to the treatment of the condition, those products labeled for intravenous or intramuscular use are indicated as follows:

1. Endocrine disorders. Primary or secondary adrenocortical insufficiency (hydrocortisone or cortisone is the drug of choice; synthetic analogs may be used in conjunction with mineralocorticoids where applicable; in infancy, mineralocorticoid supplementation is of particular importance). Acute adrenocortical insufficiency (hydrocortisone or cortisone is the drug of choice; mineralocorticoid supplementation may be necessary, particularly when synthetic analogs are used).

Preoperatively and in the event of serious trauma or illness, in patients with known adrenal insufficiency, or when adrenocortical reserve is doubtful. Shock unresponsive to conventional therapy if adrenocortical insufficiency exists or is suspected. 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: Post-traumatic osteoarthritis.

Synovitis of osteoarthritis.

Rheumatoid arthritis, including juvenile rheumatoid arthritis (selected cases may require low-dose maintenance therapy). Acute and subacute bursitis.

Epicondylitis.

Acute nonspecific tenosynovitis.

Acute gouty arthritis.

Ankylosing spondylitis.

3. Collagen diseases. During an exacerbation or as maintenance therapy in selected cases of:

Systemic lupus erythematosus.

Acute rheumatic carditis.

4. Dermatologic diseases.

Pemphigus.

Severe erythema multiforme (Stevens-Johnson Syndrome).

Exfoliative dermatitis.

Bullous dermatitis herpetiformis.

Severe seborrheic dermatitis.

Severe psoriasis.

Mycosis fungoides.

5. Allergy states. Control of severe or incapacitating allergic conditions intractable to adequate treatment of conventional treatment in:

Bronchial asthma.

Contact dermatitis.

Atopic dermatitis.

Serum sickness.

Seasonal or perennial allergic rhinitis.

Drug hypersensitivity reactions.

Urticarial transfusion reactions.

Acute noninfectious laryngeal edema (epinephrine is the drug of first choice).

6. Ophthalmic diseases.

Severe acute and chronic allergic and inflammatory processes involving the eye, such as:

Herpes zoster ophthalmicus.

Iritis, iridocyclitis.

Chorioretinitis.

Diffuse posterior uveitis and choroiditis.

Optic neuritis.

Sympathetic ophthalmia.

Anterior segment inflammation.

Allergic conjunctivitis.

Allergic corneal marginal ulcers.

Keratitis.

7. Gastrointestinal diseases. To tide the patient over a critical period of the disease in:

Ulcerative colitis (systemic therapy).

Regional enteritis (systemic therapy).

8. Respiratory diseases.

Symptomatic Sarcoidosis.

Berylliosis.

Fulminating or disseminated pulmonary tuberculosis when used concurrently with appropriate anti-tuberculosis chemotherapy.

Loeffler's syndrome not manageable by other means.

Aspiration pneumonitis.

9. Hematologic disorders.

Acquired (autoimmune) hemolytic anemia.

Idiopathic thrombocytopenic purpura in adults (I.V. only; I.M. administration is contraindicated).

Secondary thrombocytopenia in adults.

Erythroblastopenia (RBC anemia).

Congenital (erythroid) hypoplastic anemia.

10. Neoplastic diseases. For palliative management of:

Leukemias and lymphomas in adults.

Acute leukemia of childhood.

11. Edematous states. To induce diuresis or remission of proteinuria in the nephrotic syndrome, without uremia, of the idiopathic type or that due to lupus erythematosus.

12. Nervous system. Acute exacerbations of multiple sclerosis.

13. Miscellaneous.

Tuberculous meningitis with subarachnoid block or impending block when used concurrently with appropriate anti-tuberculosis chemotherapy. Trichinosis with neurologic or myocardial involvement.

Diagnostic testing of adrenocortical hyperfunction.

Cerebral edema of diverse etiologies in conjunction with adequate neurological evaluation and management.

B. Intra-articular or soft tissue administration. When the strength and dosage form of the drug lend the preparation to the treatment of the condition, those products labeled for intra-articular or soft tissue administration are indicated as adjunctive therapy for short-term administration (to tide the patient over an acute episode or exacerbation) in:

Synovitis osteoarthritis.

Rheumatoid arthritis.

Acute and subacute bursitis.

Acute gouty arthritis.

Epicondylitis.

Acute nonspecific tenosynovitis.

Post-traumatic osteoarthritis.

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, also in 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 followed.

Patients who are on immunosuppressive doses of corticosteroids should be warned to avoid exposure to chickenpox or measles and, if exposed, to obtain medical advice.

Intra-articular injection of a corticosteroid may produce systemic as well as local effects.

Appropriate examination of any joint fluid present is necessary to exclude a septic process.

A marked increase in pain accompanied by local swelling, further restriction of joint motion, fever, and malaise are suggestive of septic arthritis. If this complication occurs and the diagnosis of sepsis is confirmed, appropriate antimicrobial therapy should be instituted.

Local injection of a steroid into a previously infected joint is to be avoided. Corticosteroids should not be injected into unstable joints.

Although controlled clinical trials have shown corticosteroids to be effective in speeding the resolution of acute exacerbations of multiple sclerosis they do not show that they affect the ultimate outcome or natural history of the disease. The studies do show that relatively high doses of corticosteroids are necessary to demonstrate a significant effect. (See Dosage and Administration Section).

Since complications of treatment with glucocorticoids are dependent on the size of the dose and the duration of treatment a risk/benefit decision must be made in each individual case as to dose and duration of treatment and as to whether daily or intermittent therapy should be used.

C. Intralesional administration. When the strength and dosage form of the drug lend the preparation to the treatment of the condition, those products labeled for intralesional administration are indicated for:

Keloids.

Localized hypertrophic, infiltrated, inflammatory lesions of: lichen planus, psoriatic plaques.

Granuloma annulare, and lichen simplex chronicus (neurodermatitis).

Discoid lupus erythematosus.

Necrobiosis lipoidica diabetorum.

Alopecia areata.

They also may be useful in cystic tumors of an aponeurosis tendon (ganglia).

CONTRAINDICATIONS

Systemic fungal infections.

WARNINGS

Serious Neurologic Adverse Reactions with Epidural Administration

Serious neurologic events, some resulting in death, have been reported with epidural injection of corticosteroids. Specific events reported include, but are not limited to, spinal cord infarction, paraplegia, quadriplegia, cortical blindness, and stroke. These serious neurologic events have been reported with and without use of fluoroscopy. The safety and effectiveness of epidural administration of corticosteroids are necessary to demonstrate a significant effect. (See Dosage and Administration Section).

Since complications of treatment with glucocorticoids are dependent on the size of the dose and the duration of treatment a risk/benefit decision must be made in each individual case as to dose and duration of treatment and as to whether daily or intermittent therapy should be used.

HOW SUPPLIED/STORAGE AND HANDLING

Dexamethasone Sodium Phosphate Injection, USP 4 mg/mL is available as:

Product Code

Unit of Sale

Strength

Each

RF727610 NDC 76045-210-00

Unit of 24

4 mg/mL

1 mL pre-filled disposable single-dose syringe

This product is RFID-enabled.

Store at 20°C to 25°C (68°F to 77°F) [See USP Controlled Room Temperature.]

Protect from light. Sensitive to heat – Do not autoclave.

Do not place syringe on a sterile field.

INSTRUCTIONS FOR USE

Figure 1: Outer Packaging and Prefilled Syringe

Outer Package

Plunger Rod

Label (Do not remove)

Syringe Barrel

Luer Lock Collar (Do not remove)

Syringe Tip Cap

NOTES:

- Do not introduce any other fluid into the syringe at any time.

- Do not dilute for IV push.

- Do not re-sterilize the syringe.

- Do not use this product on a sterile field.

- This product is for single dose only.

1. Inspect the outer packaging (blister pack) to confirm the integrity of the packaging. Do not use if the blister pack or the prefilled syringe has been damaged.

2. Remove the syringe from the outer packaging. (See Figure 2)

Figure 2

Posterior subcapsular cataracts

Increased intraocular pressure

Glaucoma

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

Metabolic:

Negative nitrogen balance due to protein catabolism

Miscellaneous:

Hyperpigmentation or hypopigmentation

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