Decreased carbohydrate tolerance Manifestations of latent diabetes mellitus Hyperglycemia

Increased requirements for insulin or oral hypoglycemic in diabetics

Hirsutism

Ophthalmic Posterior subcapsular cataracts

Increased intraocular pressure Glaucoma

Exophthalmos

Metabolic

Negative nitrogen balance due to protein catabolism

Cardiovascular

Myocardial repture following recent myocardial infraction (see warnings) Other

Hypersentivity Thromboembolism

Weight gain Increased appetite

Nausea Malaise

OVERDOSAGE

Reports of acute toxicity and / or death following overdosage of glucocorticoids are rare. In the event of overdosage, no specific sntidote is available; treatment is supportive and symptomatic. The oral LD 50 of dexamethasone in female mice was 6.5g/kg.

DOSAGE AND ASMINISTRATION

For oral administration

For oral administration DOSAGE REQUIREMENT ARE VARIABLE AND MUST BE INDIVIDUALIZED ON THE BASIS OF THE DISEASE AND THE RESPONSE OF THE FATIENT. The initial dosage varies from 0.75 to 9 mg a day depending on the disease being treated. In less severe

disease does lower than 0.75 mg may suffice, which in severe diseases does higher than 9 mg may be found to the control of th

satisfactory critical response codes into con-tablets and transfer the patient to other therapy.

After a favorable initial response, the proper maintenance dosage should be determined by decreasing the initial dosage in small amounts to the lowest dosage that maintains an adequate clinical response.

Patients should be observed closely for signs that might dosage adjustment, including changes in clinical status resulting from resistance resulting from the control of stress (e.g. status resulting from remissions or exacural) parties of stress (e.g. status resulting from remissions or exacural). During stress it may be necessary to increase dosage temporarily of stress (e.g. status resulting from remissions or exacural).

If the drug is to be stopped after than a few days of treatment, it usually should be withdrawn gradually. The following milligram facilitate changing to Dexamethasone from other gueccorticoids: Dexamethasone Methylprednisolone and Triamcinotone Prednisolone and Prednisone Hydrocortisone Dexamethasone Methylprednisone and Triamcinotone Prednisolone and Prednisone Hydrocortisone

Cortisone 0.75 mg = 4 mg = 5 mg = 20 mg = 25 mg

In acute, sleft-limited allergic disorder or acute exacerbations of chronic allergic disorders, the following dosage schedule combining parenteral and oral therapy is suggested. Dexamethasone sodium Phosphate Injection, 4 mg per ml:

First Day 1 or 2 ml. Intramuscularly

Dexamethasone tablets, 0.75 mg: Second Day

4 tablets in two divided doses.

Third Day 4 tablets in two divided doses

Fourth Day 2 tablets in two divided doses

Fifth Day 1 tablet

Sixth day 1 tablet

Seventh day No treatment

Eight day Follow-up visit

This schedule is designed to ensure therapy during acute episodes, while minimizing the risk of

This scinculus is designed to ensure unerapy uning acute episouses, white imminizing the risks of overdosage informed cases. In cerebral edema, Dexamethsone Sodium Phosphate injection is generally administered initially in a dosage of cerebral edema subside. Response is usually noted within 12 to 24 hours and dosage may be uosage (of reteoral Guerra) dayanda (paradually discontinued over a period of five to seven days. For palliative management of patients with recurrent or inoperable brain tumors, maintenance therapy with either Dexamethasone Sodium Phosphate injection or Dexamethasone tablets in a dosage of two mg two or given by the discontinuation of the patients of the patients

three times daily may be effective. Dexamethasone suppression tests. 1. Tests for Cushing's syndrome

Give 1.0 mg of Dexamethasone orally at 11:00 p.m. Blood is drawn for plasma cortisol determination at

Offset 10 mg or Desantenasone orany as 1500 p.m. 1500 p.

2. Test to distinguish cushing's syndrome due to pituitary ACTH excess from Cushing's syndrome due to

Give 2.0 mg of Dexamethasone orally every 6 hours of 48 hours. Twenty- four hour urine collections are made for determinations of 17-hydroxycorticosteriod excretion

HOW SUPPLIED

They are available as follows: DEXAMTM

DEXAMTM

8 mg & 4 mg tablets, 5 strips of 8 tablets each Injection of 8 mg in 2ml vial.

Marketed by: Getwell Oncology Pvt. Ltd.

(A unit of Getwell)

464, Udyog Vihar, Phase -V, Gurgaon -122 016, Haryana, India.

For Injection: Manufactured by: Getwell Pharmaceuticals

474, Udyog Vihar, Phase -V, Gurgaon -122 016, Haryana, India.

For Tablet: Manufactured by: **Drugfarm Laboratories** Plot No. 907, M.I.E. Bahadurgarh - 124 507, Haryana, India.

0700DD

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For the use of Registered Medical Practitioner or Hospital or a Laboratory only.

Dexamethasone Sodium Phosphate Injection IP

Dexamethasone Tablets IP



Rx only

WARNING

In patients on corticosteroid therapy subjected to unusual stress, increased dosage of rapidly acting In patients on corticosteroid therapy subjected to unusual stress, increased dosage of rapidly acting corticosteroids before, during and after the stressful situation is indicated. Drug-induced secondary adrenocortical insufficiency may result from too rapid withdrawal of corticosteroids and may be minimized by gradual reduction of dosage. This type of relative insufficiency may persist for months after discountinuation of therapy: therefore, if any situation of stress occurring during that period, hormone therapy should be reinstituted. If the patient is receiving steroids already, dosage may have to be increased. Since mineralocorticoid served may be impaired, salt and / or a mineralocorticoid should be administered concurrently. (See precautions). Corticosteroids may mass 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. Moreover, corticosteroids may affect the nitroblue-tetrazolium test for bacterial infection and produce false negative results.

In cerebral malaria, a double -blind trial has shown that the use of corticosteroids is associated with prolongation of coma and a higher incidence of pneumonia and gastrointestinal bleeding. Corticosteroids may activate latent amebiasis. Therefore, it is recommended that latent or active amebasis be ruled out before initiating corticosteroid therapy in any patient who has spent time in the tropics or any patient with unexplained diarrhea.

Prolonged used 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 corticosteriods, use of these drugs in pregnancy or in women of childbearing potential requires that the anticipated benefits be weighed against the possible hazards to the mother and embrya of fetus. Infants born of mothers who have received substantial doses of corticosteroids during pregnancy should be carefully observed for signs of hypoadrealism.

Corticosteriods appear in breast milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other unwanted effects. Mothers taking pharmacologic doses of corticosteroids should be advised not to nurse.

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

Administration of live virus vaccines, including smallpox, is contraindicated in individuals receiving immunosuppressive doses of corticosteroids. In inactivated viral or bacterial vaccines are administered to individuals receiving immunosuppressive doses of corticosteroids the expected serum antibother response may not be obtained. However, immunization procedures may be undertaken in patients who are receiving corticosteroids as replacement therapy, e.g., For Addison's disease.

Patients who are on drugs which suppress the immune system are more susceptible to infections than healthy individuals. Chickenpox and measles, for example, can have a more serious or even total course in non-immune patients on corticosteroids. In such patients who have not had these diseases, particular care should be taken to avoid exposure. The risk of developing a disseminated infection varies among individuals and can be related to the dose, route and duration of corticosteroids administration as well as to the underlying disease. If exposed to chickenpox, prophylaxis with varicella zoster immunoglobulin (VZIG) may be indicated. If chickenpox develops, treatment with antiviral agents may be considered. If exposed to measles, prophylaxis with immunoglobulin (IG) may be indicated. (See the respective package inserts for VZIG and IG for complete prescribing information.).

Similarly corticosteroids should be used with great care in patients with known or suspected Samuanly Unitionselonia sidulu de useu who gleat carle in juatelies want known or suspection strongyloides (Ihreadworm) infestation. In such patients corticosteroid-induced immunosuppresssion may lead to strongyloides hyperinfection and dissemination with widespread larval migration, often accompanied by severe entercoolitis and potentially fatal gram—regative septicemia.

e use of DEXAM™ tablets/ injections in active tuberculosis should be restricted to those cases fulminating or disseminated tuberculosis in which the corticosteroid is used for the management of the disease in conjunction with an appropriate antituberculous regimen.

If conrticosteriods 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 chemoprophylauxies. Understood the properties upon the properties upon the properties upon the properties and left ventricular free the properties upon the properties upon the properties and left ventricular free the properties are the properties and left ventricular free the properties are t

wall rupture after a recent myocardial infarction, therefore, therapy with corticosteriods should be used with great caution in these patients.

DESCRIPTION

Glucocorticoids are adrenocortical steroids, whether naturally occurring or synthetic, are readily absorbed from the gastrointestinal tract.

Dexamethasone a synthetic adrenocortical steriod, is a white to practically white, odorless, crystalline powder. It is stable in air. It is practically insoluble in water. The molecular weight is 392.47. It is designated chemically as 9 fluoro-11 (beta), 17,21- trihydroxy-16(alpha) methylpregna-1, 4-diene-3, 20-dione. The empirical formula is $C_{22}H_{20}FO_3$ and the structural formula is :

COMPOSITION

Fach uncoated tablet contains: Dexamethasone IP

4mg & 8mg

Dexamethasone Sodium Phosphate IP Eqv. to Dexamethasone Phosphate

0.15% w/v Methylparaben IP Propylparaben IP 0.02% w/v (As Preservatives)

Water for injection IP

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 including dexamethasone are primarily used for their potent anti-inflammatory effects in disorders of

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

At equipotent anti-inflammatory doses, dexamethasone almost completely lacks the sodium retaining property of hydrocortisone and closely related derivatives of hydrocortisone.

INDICATIONS

Lithocorme disorders

Trimary or secondary adrenocortical insufficiency (hydrocortisone or cortisone is the first choice; synthetic analogs may be used in conjunction with mineralcocrticoids where applicable, in infancy mineralcocrticoids 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

Rheumatoid arthritis, including juvenile rheumatoid arthritis (selected cases may required low dose maintenance therapy)

Ankylosing spondylitis

Acute and subacute bursitis

Acute nonspecific tenosynovitis Acute gouty arthiritis

Post-traumatic osteoarthritis

Synovitis of osteoarthritis Epicondylitis

3. Collagen Diseases

During an exacerbation or as maintenance therepy 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

Severe sehorrheic dermatitis

5. Allergic States

Control of severe or incapacitating allergic conditions intractable to adequate trials of conventional

treatment: Seasonal or perennial allergic rhinitis

Bronchial asthma Contract dermatitis

Atopic dermatitis Serum sickness

Drug hypersensitivity reactions

6. Ophthalmic Dis

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

Newsymmov prosecutes and the symmometric survival of the symmometric symmometr

antituberculous chemotherapy Aspiration pneumonitis

8. Hematologic Disorders Idiopathic thrombocytopenic purpura in adults

Secondary thrombocytopenia in adults Acquired (automimmune) hemolytic anemia Erythroblastopenia (RBC anemia)

Congential (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

To tide the patient over a critical period of the disease in:

Ulcerative colitis Regional enteritis

12. Cerabral Edema associated with primary or metastatic brain tumor, craniotomy, or head injury. Use in cerebral edema is not a substitute for careful neurosurgical evaluation and definitive management such as neurosurgery or other specific therapy.

13. Miscellaneous

15. Ameetinateus meningitis with subarachnoid block or impending block when used concurrently with appropriate antitube-culous chemotherapy.
Trichinoiss with neurologic myocardial involvement.

14. Diagnostic testing of adrenocortical hyperfunction.

CONTRAINDICATIONS

Systemic fungal infections Hypersensitivity to this d

PRECAUTIONS

Following prolonged therapy, withdrawal of corticosteroids may result in symptoms of the corticosteroid withdrawal syndrome including fever, myalgia, arthralgia and malaise.

This may occur in patients even without evidence of adrenal insufficiency.

This may occur in patients even without evidence of adrenal insufficiency. Corricos is an enhanced effect of corticosteriods in patients with bypothyroidism and in those with cirrhosis. Corticosteriods should be used cautiously in patients with ocular herpes simplex because of possible or patients. corneal perforation.

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

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.

Co-administration of thalidomide with DEXAM™ tablets / injection should be employed cautiously, as toxic epidermal necrolysis has been reported with concomitant use.

Aspirar should be used cautiously in conjunction with corticosteroids in hypoprothrombinemia Steriods should be used with caution in nonspecific ulcerative colitis, it there is a probability of impending perforation, absecs, or other pyrogenic infection, diverticulitis, fresh intestinal anastomoses, active or latent peptic ulcer, renal insufficiency, hypertension, osteoporosis and myasthenia gravis. Signs of corticosteroids may be minimal or absent. Fat ambolism has been reported as a possible complication of hypercortisonism. hypercortisonism.

When large doses are given, some authorities advise that corticosteroids be taken with meals and antacids

Make between meals to help to prevent peptic ulcar.

Maken between meals to help to prevent peptic ulcar.

Maken between meals to help to prevent peptic ulcar.

Cytochrome P450 3A4 (CYP3A4) enzyme inducers, such as phenytoin, barbiturates (e.g. Phenobarbital), carbamazepine, and rifampin may enhance the metabolic clearance of corticosteroids, resulting in decreased blood levels and lessened physiologic activity, thus requiring and increase in corticosteroids decreased blood levels and lessened physiologic activity, thus requiring and increase in corticosteroids

dosage.

Dexamethasone is metabolized by CYP 3A4, Concomitant administration of dexamethasone with inducers of CYP 3A4 (as listed above) has the potential to result in decreased plasma concentrations of dexamethasone in addition, concomitant administration of dexamethasone with known inhibitors of CYP 3A4 (e.g. Ketoconazole, marcrolide antibiotics such as erythromycin) has the potential to result in increased plasma concentrations of dexamethasone. Effect of other drugs on the metabolism of dexamethasone may interfere with dexamethasone suppression tests, which should be interpreted with caution during administration of such drugs.

Dexamethasone is moderate inducer of CYP 3A4, Co-administration of dexamethasone with other drugs.

that are metabolized CYP 3A4 (e.g Indinavir, erythromycin) may increase their clearance, resulting decreased plasma concentrations,
In post-marketing experience, there have been reports of both increases and decreases in phenytoin levels

in post-manching concordaministration, leading alterations in seizure control.

Although ketonozole alone can inhibit adrenal corticosteroid synthesis and may cause adrenal insufficiency

3.4A, ketoconzole alone can inhibit adrenal corticosteroid synthesis and may cause adrenal insufficiency

Symposium of the control of the cont

False – negative results in the dexamethasone suppression test (DST) in patients being treated with indomethacin have been reported. Thus, result of the DST should be interpreted with caution in these The prothrombin time should be checked frequently in patients who are receiving corticosteriods and

The profunction must sandiu be cucked frequently in patients who are receiving. Concludences commaring an intermediate the same time because of reports that work cortesteroids have altered the response to these anticoagulants. Studies have shown that the usual effect produced by adding corticosteroids in inhibition of response to commarins, although that they have been some confluence profut of portions to commarine, although the relative to the confluence of the confluence o substantiated by studies.

When corticosteroids are administered concomitantly with potassium-depleting diureties, patients should be observed closely for development of hypokalemia,

Information for patients
Susceptible patients who are on immunosuppressant doses of corticosteroids should be warned to avoid
exposure to chickenpox or measles. Patients should also be advised that if they are exposed, medical advice should be sought without delay. Pediatric Use

Growth and development of pediatric on prolonged corticosteroid therapy should be carefully followed.

ADVERSE REACTIONS

Fluid and Electrolyte Disturbances

Sodium retention

Fluid retention
Congestive heart failure in susceptible patients
Potassium loss

Hypokalemic alkalosis

Hypertension Musculoskeletal

Muscle weakness Sterioid myopathy Loss of muscle mass

Osteoporosis

Vertebral compression fractures
Aseptic necrosis of femoral and humeral heads
Pathologic fracture of long bones

Tendon rupture

Peptic ulcer with possible perforation and hemorrhage

Perforation of the small and large bowel, particularly in patients with inflammatory

bowel disease. Pancreatitis

Abdominal distention

Ulcerative esophagitis

Dermatologic Impaired wound healing

Thin fragile skin Petechiae and ecchymoses

Ervthema

Increased sweating May suppress reactions to sk urticaria, angioneurotic edema ctions to skin tests, other cutaneous reactions, such as allergic dermatitis,

Neurologic

Convulsions

Increased intracranial pressure with papilledema (pseudotumor cerebral) usually after treatment Vertigo

Headache Psychic disturbances

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.