

<ul style="list-style-type: none"> - Acute gouty arthritis - Psoriatic arthritis - Ankylosing spondylitis <p>Collagen diseases (immune complex diseases)</p> <ul style="list-style-type: none"> - Systemic lupus erythematosus (and lupus nephritis) - Acute rheumatic carditis - Systemic dermatomyositis (polymyositis) - Polyarteritis nodosa - Goodpasture's syndrome <p>Dermatologic diseases</p> <ul style="list-style-type: none"> - Pemphigus - Severe erythema multiforme (Stevens-Johnson syndrome) - Erythematous dermatitis - Bulbous dermatitis pelliformis - Severe seborrheic dermatitis - Severe psoriasis - Mycosis fungoides <p>Allergic states</p> <ul style="list-style-type: none"> - Control of severe or incapacitating allergic conditions intractable to adequate trials 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) <p>Ophthalmic diseases</p> <p>Severe acute and chronic allergic and inflammatory processes involving the eye, such as:</p> <ul style="list-style-type: none"> - Herpes zoster ophthalmicus - Iritis, iridocyclitis - Choroiditis - Diffuse posterior uveitis and choroiditis - Optic neuritis - Sympathetic ophthalmia <p>Otolaryngeal diseases</p> <ul style="list-style-type: none"> - To tide the patient over a critical period of the disease in: - Ulcerative colitis (systemic therapy) - Regional enteritis (systemic therapy) <p>Respiratory diseases</p> <ul style="list-style-type: none"> - Pulmonary sarcoidosis - Berylliosis - Fulminating or disseminated pulmonary tuberculosis when used concurrently with appropriate antituberculous chemotherapy - Loeffler's syndrome not manageable by other means - Aspiration pneumonia <p>Endocrine states</p> <ul style="list-style-type: none"> - To induce diabetes or remission of proteinuria in the nephrotic syndrome, without uremia, of the idiopathic type or that due to lupus erythematosus 	<p>Indication</p> <p>Posology</p> <p>The treatment should begin within eight hours of injury</p> <p>For patients initiated on treatment within 3 hours of injury</p> <p>Start with an I.V. bolus dose of 30 mg methylprednisolone per kilogram of body weight over a 15 minute period under continuous medical supervision.</p> <p>For patients initiated on treatment within 3 to 8 hours of injury</p> <p>Start with an I.V. bolus dose of 30 mg methylprednisolone per kilogram of body weight over a 15 minute period under continuous medical supervision.</p> <p>After the bolus injection can a 45 minute pause, followed by a continuous infusion of 0.4 mg/kg per hour for 23 hours.</p> <p>For the infusion pump, one should preferably choose another intravenous site than for the bolus injection.</p> <p>The administration rate of the bolus injection may only be used for this indication, under ECG-monitoring and with an available defibrillator.</p> <p>The administration of a high dose of methylprednisolone in bolus intravenously at doses of more than 500 mg over a period of less than 10 minutes) may cause arrhythmias, circulatory collapse and cardiac arrest.</p> <p>In other indications</p> <p>Initial dosage will vary from 10 to 500 mg depending on the clinical problem being treated. Larger doses may be required for short-term management of severe, acute conditions as bronchial asthma, serum sickness, urticarial transfusion reactions and acute exacerbations of multiple sclerosis. The initial dose, up to and including 250 mg, should be given intravenously over a period of at least 5 minutes and doses exceeding 250 mg, should be given over at least 30 minutes. Subsequent doses may be given intravenously at intervals determined by the patient's response and clinical condition. Corticosteroid therapy is an adjunct to, and not replacement for, conventional therapy.</p> <p>Dosage must be decreased or discontinued gradually when the drug has been administered for more than a few days. If a period of spontaneous remission occurs in a chronic condition, treatment should be discontinued. Routine laboratory studies, such as urinalysis, two-hour postprandial blood sugar, diastolic blood pressure and body weight, and a chest X-ray should be made at regular intervals during prolonged therapy. Upper GI X-rays are desirable in patients with an ulcer history or significant epigastric pain.</p> <p>Medical surveillance is also needed in case of interruption of chronic treatment.</p> <p>To administer by intravenous (or intramuscular) injection, prepare solution as directed.</p> <p>Caution: Corticosteroids should be used with caution in patients with seizure disorders.</p> <p>Paediatric population</p> <p>Dosage for children should be based upon the principles of dosing in adults (see above) and should be adjusted based on severity of the condition and clinical response. Treatment should be limited to the minimum dosage necessary to achieve a favourable response and for the shortest period of time. If a long term therapy the medicinal product is to be discontinued, it is advisable to reduce the dose gradually rather than to stop abruptly.</p> <p>Acute or chronic disease should be administered as a single dose on alternate days (see section 4.4).</p> <p>NOTE: Certain methylprednisolone sodium succinate formulations contain benzyl alcohol (see section 4.4 "Paediatric population").</p> <p>Elderly</p> <p>Treatment of elderly patients, particularly if long-term, should be planned bearing in mind the possibility of increased sensitivity to corticosteroids in old age, particularly osteoporosis, diabetes, hypertension, susceptibility to infection and thinning of skin (see section 4.4).</p> <p>Method of administration</p> <p>The solution of sodium succinate of methylprednisolone may be administered by intravenous or intramuscular injection or by intravenous infusion. Intravenous infusion is preferable for commencing treatment in cases of emergency.</p>
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<div> <div></div> <div>Solu-Medrol®</div> </div> <div> Methylprednisolone Sodium Succinate </div>	<div> <div></div> <div>3531</div> </div>
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40 mg – 125 mg – 250 mg Solution for injection 500 mg – 1000 mg Powder and solvent for solution for injection 40 mg – 125 mg - 500 mg – 1000 mg Powder and solvent for solution for injection	
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SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Solu-Medrol S.A.B. (- (Sine Alcohol) Benzylalcohol) Act-O-Vial 40 mg – 125 mg – 250 mg Powder and solvent for solution for injection
Solu-Medrol S.A.B. (- (Sine Alcohol) Benzylalcohol) 40 mg – 125 mg - 500 mg – 1000 mg Powder and solvent for solution for injection
Solu-Medrol S.A.B. (- (Sine Alcohol) Benzylalcohol) 40 mg – 125 mg - 500 mg – 1000 mg Powder and solvent for solution for injection (methylprednisolone)

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

The active ingredient of Solu-Medrol is methylprednisolone. It is present in the form of methylprednisolone sodium succinate.

Powder and solvent for solution for injection (without benzyl alcohol):
Act-O-Vial system:
Solu-Medrol S.A.B. Act-O-Vial 40 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 40 mg methylprednisolone
Solu-Medrol S.A.B. Act-O-Vial 125 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 125 mg methylprednisolone

Solu-Medrol S.A.B. Act-O-Vial 250 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 250 mg methylprednisolone

Solu-Medrol S.A.B. Act-O-Vial 500 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 500 mg methylprednisolone

Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 1000 mg methylprednisolone

Powder and solvent for solution for injection (without benzyl alcohol):
Solu-Medrol S.A.B. 40 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 40 mg methylprednisolone

Solu-Medrol S.A.B. 125 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 125 mg methylprednisolone

Solu-Medrol S.A.B. 500 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 500 mg methylprednisolone

Solu-Medrol S.A.B. 1000 mg Powder and solvent for solution for injection: each vial contains methylprednisolone sodium succinate equivalent to 1000 mg methylprednisolone

Excipients with known effect:
Benzyl alcohol: Reconstituted solutions of Solu-Medrol, containing 9 mg of benzyl alcohol per ml, with the exception of reconstituted solutions of Solu-Medrol S.A.B. and S.A.B. Act-O-Vial (without benzyl alcohol).
Sodium:

- Solu-Medrol S.A.B. Act-O-Vial 40 mg Powder and solvent for solution for injection contains 11.27 mg sodium per Act-O-Vial.
- Solu-Medrol S.A.B. Act-O-Vial 125 mg Powder and solvent for solution for injection contains 16.52 mg sodium per Act-O-Vial.
- Solu-Medrol S.A.B. Act-O-Vial 250 mg Powder and solvent for solution for injection contains 32.56 mg sodium per Act-O-Vial.
- Solu-Medrol S.A.B. 40 mg Powder and solvent for solution for injection contains 8.73 mg sodium per vial.
- Solu-Medrol S.A.B. 125 mg Powder and solvent for solution for injection contains 14.60 mg sodium per bottle.
- Solu-Medrol 500 mg and 1000 mg S.A.B. Powder and solvent for solution for injection contains 58.39 mg sodium per vial.
- Solu-Medrol 1000 mg and 1000 mg S.A.B. Powder and solvent for solution for injection contains 116.78 mg sodium per vial.

Lactose: Reconstituted solutions of Solu-Medrol S.A.B. Act-O-Vial 40 mg Powder and solvent for injection and Solu-Medrol S.A.B. 40 mg Powder and solvent for solution for injection contain 25 mg of lactose per ml.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Each package contains a sterile powder for injection and a sterile solution for intravenous and intramuscular administration.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Glucocorticoids should only be considered as a purely symptomatic treatment, unless in case of some endocrine disorders, where they are used as substitution therapy.

Anti-inflammatory treatment

- 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

Cow's milk allergy (the following paragraphs only apply to Solu-Medrol S.A.B. Act-O-Vial 40 mg and Solu-Medrol S.A.B. 40 mg)

Solu-Medrol S.A.B. Act-O-Vial 40 mg and Solu-Medrol S.A.B. 40 mg contain lactose produced from bovine origin as an excipient and may hepatotoxicity, erythema-betae) reported. The level to onset can be several weeks or longer. In the majority of case reports resolution of the adverse events has been observed after treatment was discontinued. Therefore, appropriate monitoring is required.

High doses of corticosteroids may cause acute pancreatitis.

The effect of glucocorticoids is more significant in cases of cirrhosis.

Musculoskeletal effects

Acute myopathy has been reported with the use of high corticosteroid doses, usually in patients with disorders of neuromuscular transmission (for example, myasthenia gravis), or in patients receiving concomitant treatment with anticholinergic drugs, and/or with muscle relaxants (for example, pancuronium). This acute myopathy is generalized, can affect eye muscles and respiratory muscles and can result in quadriplegia.

Increased creatine kinase levels can occur. After discontinuation of the corticosteroid treatment, the rise may take weeks to years before clinical improvement or recovery occurs.

Osteoporosis is a common but rarely recognised side effect associated with the long-term, high-dose use of glucocorticoids.

Pharmacological doses of glucocorticoids administered for prolonged periods may result in hypothalamic-pituitary-adrenal (HPA) axis suppression (secondary adrenocortical insufficiency). The degree and duration of adrenocortical insufficiency is variable among patients and depends on the dose, frequency, and site of administration. The degree of glucocorticoid therapy. This effect may be minimised by alternate-day treatment.

In addition, acute adrenal insufficiency with a fatal outcome may occur if glucocorticoids are withdrawn abruptly.

Drug-induced secondary adrenocortical insufficiency may be minimized by gradual reduction of dosage. The 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 reinstated.

Steroid "withdrawal syndrome," seemingly unrelated to adrenocortical insufficiency, may also occur following abrupt discontinuation of glucocorticoids. This syndrome includes symptoms such as: anorexia, nausea, vomiting, lethargy, headache, fever, joint pain, desquamation, myalgia, weight loss, and/or hypotension. These effects are thought to be due to the sudden change in glucocorticoid concentration rather than to low corticosteroid levels.

Because glucocorticoids can produce or aggravate Cushing's syndrome, they should be avoided in patients with this syndrome.

The effect of corticosteroids is enhanced in patients with hypothyroidism.

Metabolism and nutrition

Corticosteroids, including methylprednisolone, may increase blood glucose, worsen pre-existing diabetes, and predispose those on long-term corticosteroid therapy to diabetes mellitus. These patients should be treated while under close medical supervision, and for the shortest period possible.

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Important drug or substance interactions/effects with methylprednisolone

Medicinal product class or type

1-MEDICINAL PRODUCT or SUBSTANCE

Antibacterial - ISONIAZID	CYP3A4 INHIBITOR. In addition, there is a potential effect of methylprednisolone increasing the effect of the numerous effects of glucocorticoids after administration and clearance of isoniazid.
Antibiotic; Antitubercular - RIFAMPIN	CYP3A4 INDUCER

Anticoagulants (oral)	The effect of methylprednisolone on oral anticoagulation may increase the effect of enanthracid as well as diminished effects of anticoagulants when administered concomitantly with corticosteroids. Coagulation indices should therefore be monitored to maintain the desired anticoagulant effects.
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Anticonvulsants - CARBAMAZEPINE	CYP3A4 INDUCER (and SUBSTRATE)
Anticonvulsants - PHENOBARBITAL - PHENYTOIN	CYP3A4 INDUCERS

Anticholinergics - NEURICOMMULAR BLOCKING AGENTS

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Corticosteroids in breast milk may suppress growth and interfere with endogenous glucocorticoid production in nursing infants. This medicinal product should only be used while breastfeeding following careful evaluation of the ratio of benefits to risks for the mother and the infant.

Fertility

Corticosteroids have been shown to impair fertility in animal studies (see section 5.3).

4.7 Effects on ability to drive and use machines

Solu-Medrol has a minor influence on the ability to drive and use machines. Undesirable effects such as dizziness, vertigo, visual disturbances, and fatigue are possible after treatment with corticosteroids. If affected, patients should not drive or use machines.

4.8 Undesirable effects

Safety profile summary

The following undesirable side effects are typical of methylprednisolone sodium succinate. Hypersensitivity reactions may occur at the start of treatment (see section 4.4). Serious infections, including opportunistic infections, may also occur during treatment with corticosteroids. Other side effects include: convulsions, pathological fractures and vertebral spondylitis, gastric and duodenal ulcers, peptic ulcers, tendon rupture, tendon tendons, psychiatric disorders or manifestations, Cushing's syndrome, steroid withdrawal syndrome, hypertension, myopathy, glaucoma, subcapsular cataract, decreased glucose tolerance, rash, fluid retention, abdominal pain, nausea, headaches and dizziness.

The following side effects have been reported with the following contraindicated routes of administration: intravenous, intramuscular, arachnoiditis, meningitis, gastrointestinal disorder/bladder dysfunction, headache, meningitis, paraparesis/paraplegia, convulsions, sensory disturbances. The frequency of these side effects is not known.

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