

**SOLU-MEDROL- methylprednisolone sodium succinate injection, powder, for solution**

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Pharmacia & Upjohn Company LLC**

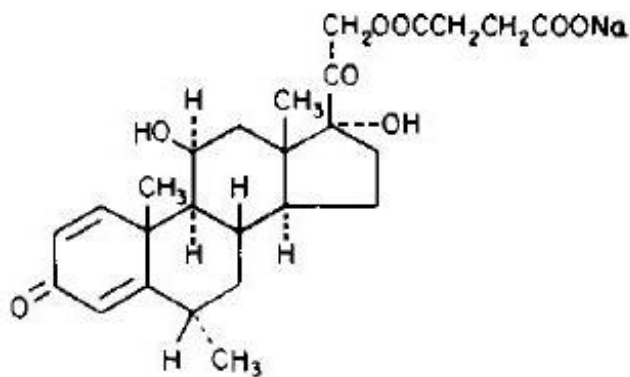
**SOLU-MEDROL® (methylprednisolone sodium succinate for injection, USP)**

**The formulations containing benzyl alcohol should not be used in neonates.  
For Intravenous or Intramuscular Administration**

**DESCRIPTION**

SOLU-MEDROL Sterile Powder is an anti-inflammatory glucocorticoid, which contains methylprednisolone sodium succinate as the active ingredient. Methylprednisolone sodium succinate, USP, is the sodium succinate ester of methylprednisolone, and it occurs as a white, or nearly white, odorless hygroscopic, amorphous solid. It is very soluble in water and in alcohol; it is insoluble in chloroform and is very slightly soluble in acetone.

The chemical name for methylprednisolone sodium succinate is pregna-1,4-diene-3,20-dione,21-(3-carboxy-1-oxopropoxy)-11,17-dihydroxy-6-methyl-monosodium salt, (6 $\alpha$ , 11 $\beta$ ), and the molecular weight is 496.53. The structural formula is represented below:



Methylprednisolone sodium succinate is soluble in water; it may be administered in a small volume of diluent and is well suited for intravenous use in situations where high blood levels of methylprednisolone are required rapidly.

SOLU-MEDROL is available in preservative and preservative-free formulations:

**Preservative-free Formulations**

**40 mg Act-O-Vial System (Single-Dose Vial)**—Each mL (when mixed) contains methylprednisolone sodium succinate equivalent to 40 mg methylprednisolone; also 1.6 mg monobasic sodium phosphate anhydrous; 17.46 mg dibasic sodium phosphate dried; and 25 mg lactose hydrous.

**125 mg Act-O-Vial System (Single-Dose Vial)**—Each 2 mL (when mixed) contains

methylprednisolone sodium succinate equivalent to 125 mg methylprednisolone; also 1.6 mg monobasic sodium phosphate anhydrous; and 17.4 mg dibasic sodium phosphate dried.

**500 mg Act-O-Vial System (Single-Dose Vial)**—Each 4 mL (when mixed) contains methylprednisolone sodium succinate equivalent to 500 mg methylprednisolone; also 6.4 mg monobasic sodium phosphate anhydrous; and 69.6 mg dibasic sodium phosphate dried.

**1 gram Act-O-Vial System (Single-Dose Vial)**—Each 8 mL (when mixed) contains methylprednisolone sodium succinate equivalent to 1 gram methylprednisolone; also 12.8 mg monobasic sodium phosphate anhydrous; and 139.2 mg dibasic sodium phosphate dried.

### Formulations preserved with Benzyl Alcohol

**500 mg Vial**—Each 8 mL (when mixed as directed) contains methylprednisolone sodium succinate equivalent to 500 mg methylprednisolone; also 6.4 mg monobasic sodium phosphate anhydrous; 69.6 mg dibasic sodium phosphate dried. This package does not contain diluent. Recommended diluent (Bacteriostatic water) contains benzyl alcohol as a preservative.

**1 gram Vial**—Each 16 mL (when mixed as directed) contains methylprednisolone sodium succinate equivalent to 1 gram methylprednisolone; also 12.8 mg monobasic sodium phosphate anhydrous; 139.2 mg dibasic sodium phosphate dried. This package does not contain diluent. Recommended diluent (Bacteriostatic water) contains benzyl alcohol as a preservative.

**2 gram Vial**—Each 30.6 mL (when mixed as directed) contains methylprednisolone sodium succinate equivalent to 2 grams methylprednisolone; also 25.6 mg monobasic sodium phosphate anhydrous; 278 mg dibasic sodium phosphate dried. This package does not contain diluent. Recommended diluent (Bacteriostatic water) contains benzyl alcohol as a preservative.

**2 gram Vial with Diluent**—Each 30.6 mL (when mixed as directed) contains methylprednisolone sodium succinate equivalent to 2 grams methylprednisolone; also 25.6 mg monobasic sodium phosphate anhydrous; 278 mg dibasic sodium phosphate dried. The packaged diluent (Bacteriostatic Water for Injection) contains benzyl alcohol as a preservative.

**IMPORTANT** — Use only the accompanying diluent or Bacteriostatic Water For Injection with Benzyl Alcohol when reconstituting SOLU-MEDROL.  
**Use within 48 hours after mixing.**

When necessary, the pH of each formula was adjusted with sodium hydroxide so that the pH of the reconstituted solution is within the USP specified range of 7 to 8.

### CLINICAL PHARMACOLOGY

Glucocorticoids, naturally occurring and synthetic, are adrenocortical steroids that are readily absorbed from the gastrointestinal tract.

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.

Methylprednisolone is a potent anti-inflammatory steroid with greater anti-inflammatory potency than prednisolone and even less tendency than prednisolone to induce sodium and water retention.

Methylprednisolone sodium succinate has the same metabolic and anti-inflammatory actions as methylprednisolone. When given parenterally and in equimolar quantities, the two compounds are equivalent in biologic activity. Following the intravenous injection of methylprednisolone sodium succinate, demonstrable effects are evident within one hour and persist for a variable period. Excretion of the administered dose is nearly complete within 12 hours. Thus, if constantly high blood levels are required, injections should be made every 4 to 6 hours. This preparation is also rapidly absorbed when administered intramuscularly and is excreted in a pattern similar to that observed after intravenous injection.

## **INDICATIONS AND USAGE**

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, the **intravenous or intramuscular use** of SOLU-MEDROL Sterile Powder is indicated as follows:

*Allergic states:* Control of severe or incapacitating allergic conditions intractable to adequate trials of conventional treatment in asthma, atopic dermatitis, contact dermatitis, drug hypersensitivity reactions, serum sickness, transfusion reactions.

*Dermatologic diseases:* Bullous dermatitis herpetiformis, exfoliative erythroderma, mycosis fungoides, pemphigus, severe erythema multiforme (Stevens-Johnson syndrome).

*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), congenital adrenal hyperplasia, hypercalcemia associated with cancer, nonsuppurative thyroiditis.

*Gastrointestinal diseases:* To tide the patient over a critical period of the disease in regional enteritis (systemic therapy) and ulcerative colitis.

*Hematologic disorders:* Acquired (autoimmune) hemolytic anemia, congenital (erythroid) hypoplastic anemia (Diamond-Blackfan anemia), idiopathic thrombocytopenic purpura in adults (intravenous administration only; intramuscular administration is contraindicated), pure red cell aplasia, selected cases of secondary thrombocytopenia.

*Miscellaneous:* Trichinosis with neurologic or myocardial involvement, tuberculous meningitis with subarachnoid block or impending block when used concurrently with appropriate antituberculous chemotherapy.

*Neoplastic diseases:* For the palliative management of leukemias and lymphomas.

*Nervous System:* Acute exacerbations of multiple sclerosis; cerebral edema associated with primary or metastatic brain tumor, or craniotomy.

*Ophthalmic diseases:* Sympathetic ophthalmia, uveitis and ocular inflammatory conditions unresponsive to topical corticosteroids.

*Renal diseases:* To induce diuresis or remission of proteinuria in idiopathic nephrotic syndrome or that due to lupus erythematosus.

*Respiratory diseases:* Berylliosis, fulminating or disseminated pulmonary tuberculosis when used concurrently with appropriate antituberculous chemotherapy, idiopathic eosinophilic pneumonias, symptomatic sarcoidosis.

*Rheumatic disorders:* As adjunctive therapy for short-term administration (to tide the patient over an acute episode or exacerbation) in acute gouty arthritis; acute rheumatic carditis; ankylosing spondylitis; psoriatic arthritis; rheumatoid arthritis, including juvenile rheumatoid arthritis (selected cases may require low-dose maintenance therapy). For the treatment of dermatomyositis, temporal arteritis, polymyositis, and systemic lupus erythematosus.

## **CONTRAINDICATIONS**

SOLU-MEDROL Sterile Powder is contraindicated:

- in systemic fungal infections and patients with known hypersensitivity to the product and its constituents. The SOLU-MEDROL 40 mg presentation includes lactose monohydrate produced from cow's milk. This presentation is therefore contraindicated in patients with a known or suspected hypersensitivity to cow's milk or its components or other dairy products because it may contain trace amounts of milk ingredients.
- for intrathecal administration. Reports of severe medical events have been associated with this route of administration.

Intramuscular corticosteroid preparations are contraindicated for idiopathic thrombocytopenic purpura.

Additional contraindication for the use of SOLU-MEDROL Sterile Powder preserved with benzyl alcohol:

Formulations preserved with benzyl alcohol are contraindicated for use in premature infants (see **WARNINGS** and **PRECAUTIONS, Pediatric Use**).

## **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 have not been

established, and corticosteroids are not approved for this use.

## General

**Formulations with preservative (see DESCRIPTION) contain benzyl alcohol, which is potentially toxic when administered locally to neural tissue.** Exposure to excessive amounts of benzyl alcohol has been associated with toxicity (hypotension, metabolic acidosis), particularly in neonates, and an increased incidence of kernicterus, particularly in small preterm infants. There have been rare reports of deaths, primarily in preterm infants, associated with exposure to excessive amounts of benzyl alcohol. The amount of benzyl alcohol from medications is usually considered negligible compared to that received in flush solutions containing benzyl alcohol. Administration of high dosages of medications containing this preservative must take into account the total amount of benzyl alcohol administered. The amount of benzyl alcohol at which toxicity may occur is not known. If the patient requires more than the recommended dosages or other medications containing this preservative, the practitioner must consider the daily metabolic load of benzyl alcohol from these combined sources (see **PRECAUTIONS, Pediatric Use**).

Injection of SOLU-MEDROL may result in dermal and/or subdermal changes forming depressions in the skin at the injection site. In order to minimize the incidence of dermal and subdermal atrophy, care must be exercised not to exceed recommended doses in injections. Injection into the deltoid muscle should be avoided because of a high incidence of subcutaneous atrophy.

Rare instances of anaphylactoid reactions have occurred in patients receiving corticosteroid therapy (see **ADVERSE REACTIONS**).

In patients receiving the 40 mg presentation of SOLU-MEDROL during the treatment for acute allergic conditions and where these symptoms worsen or any new allergic symptoms occur, consideration should be given to the potential for hypersensitivity reactions to cow's milk ingredients (see **CONTRAINDICATIONS**). If appropriate, administration of SOLU-MEDROL should be stopped, and the patient's condition should be treated accordingly. Alternative treatments, including the use of corticosteroid formulations that do not contain ingredients produced from cow's milk, should be considered for acute allergy management, where appropriate.

Increased dosage of rapidly acting corticosteroids is indicated in patients on corticosteroid therapy who are subjected to any unusual stress before, during, and after the stressful situation.

Results from one multicenter, randomized, placebo-controlled study with methylprednisolone hemisuccinate, an intravenous corticosteroid, showed an increase in early (at 2 weeks) and late (at 6 months) mortality in patients with cranial trauma who were determined not to have other clear indications for corticosteroid treatment. High doses of systemic corticosteroids, including SOLU-MEDROL, should not be used for the treatment of traumatic brain injury.

## Cardio-renal

Average and large doses of corticosteroids 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.

Literature reports suggest an apparent association between the use of corticosteroids and left ventricular free wall rupture after a recent myocardial infarction; therefore, therapy with corticosteroids should be used with great caution in these patients.

There have been cases reported in which concomitant use of amphotericin B and hydrocortisone was followed by cardiac enlargement and congestive heart failure (see **CONTRAINDICATIONS** and **PRECAUTIONS, Drug Interactions, Amphotericin B injection and potassium-depleting agents**).

## **Endocrine**

Hypothalamic-pituitary adrenal (HPA) axis suppression, Cushing's syndrome, and hyperglycemia. Monitor patients for these conditions with chronic use.

Corticosteroids can produce reversible HPA axis suppression with the potential for glucocorticosteroid insufficiency after withdrawal of treatment. 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 reinstated.

## **Immunosuppression and Increased Risk of Infection**

Corticosteroids, including SOLU-MEDROL, suppress the immune system and increase the risk of infection with any pathogen, including viral, bacterial, fungal, protozoan, or helminthic pathogens. Corticosteroids can:

- Reduce resistance to new infections
- Exacerbate existing infections
- Increase the risk of disseminated infections
- Increase the risk of reactivation or exacerbation of latent infections
- Mask some signs of infection

Corticosteroid-associated infections can be mild but can be severe and at times fatal. The rate of infectious complications increases with increasing corticosteroid dosages.

A study has failed to establish the efficacy of methylprednisolone sodium succinate in the treatment of sepsis syndrome and septic shock. The study also suggests that treatment of these conditions with methylprednisolone sodium succinate may increase the risk of mortality in certain patients (i.e., patients with elevated serum creatinine levels or patients who develop secondary infections after methylprednisolone sodium succinate).

Monitor for the development of infection and consider SOLU-MEDROL withdrawal or dosage reduction as needed.

## **Tuberculosis**

If SOLU-MEDROL is used to treat a condition in patients with latent tuberculosis or tuberculin reactivity, reactivation of the disease may occur. Closely monitor such patients for reactivation. During prolonged SOLU-MEDROL therapy, patients with latent

tuberculosis or tuberculin reactivity should receive chemoprophylaxis.

### ***Varicella Zoster and Measles Viral Infections***

Varicella and measles can have a serious or even fatal course in non-immune patients taking corticosteroids, including SOLU-MEDROL. In corticosteroid-treated patients who have not had these diseases or are non-immune, particular care should be taken to avoid exposure to varicella and measles:

- If a SOLU-MEDROL-treated patient is exposed to varicella, prophylaxis with varicella zoster immune globulin (VZIG) may be indicated. If varicella develops, treatment with antiviral agents may be considered.
- If a SOLU-MEDROL-treated patient is exposed to measles, prophylaxis with immunoglobulin (IG) may be indicated.

### ***Hepatitis B Virus Reactivation***

Hepatitis B virus reactivation can occur in patients who are hepatitis B carriers treated with immunosuppressive dosages of corticosteroids, including SOLU-MEDROL. Reactivation can also occur infrequently in corticosteroid-treated patients who appear to have resolved hepatitis B infection.

Screen patients for hepatitis B infection before initiating immunosuppressive (e.g., prolonged) treatment with SOLU-MEDROL. For patients who show evidence of hepatitis B infection, recommend consultation with physicians with expertise in managing hepatitis B regarding monitoring and consideration for hepatitis B antiviral therapy.

### ***Fungal Infections***

Corticosteroids, including SOLU-MEDROL, may exacerbate systemic fungal infections; therefore, avoid SOLU-MEDROL use in the presence of such infections unless SOLU-MEDROL is needed to control drug reactions. For patients on chronic SOLU-MEDROL therapy who develop systemic fungal infections, SOLU-MEDROL withdrawal or dosage reduction is recommended.

### ***Amebiasis***

Corticosteroids, including SOLU-MEDROL, may activate latent amebiasis. Therefore, it is recommended that latent amebiasis or active amebiasis be ruled out before initiating SOLU-MEDROL in patients who have spent time in the tropics or patients with unexplained diarrhea.

### ***Strongyloides Infestation***

Corticosteroids, including SOLU-MEDROL, should be used with great care in patients with known or suspected *Strongyloides* (threadworm) infestation. In such patients, corticosteroid-induced immunosuppression may lead to *Strongyloides* hyperinfection and dissemination with widespread larval migration, often accompanied by severe enterocolitis and potentially fatal gram-negative septicemia.

### ***Cerebral Malaria***

Avoid corticosteroids, including SOLU-MEDROL, in patients with cerebral malaria.

## Drug-Induced Liver Injury

Rarely, high doses of cyclically pulsed intravenous methylprednisolone (usually for the treatment of exacerbations of multiple sclerosis at doses of 1 gram/day) can induce a toxic form of acute hepatitis. The time to onset of this form of steroid-induced liver injury can be several weeks or longer. Resolution has been observed after discontinuation of treatment. However, serious liver injury can occur, sometimes resulting in acute liver failure and death. Discontinue intravenous methylprednisolone if toxic hepatitis occurs. Since recurrence has occurred after re-challenge, avoid use of high dose intravenous methylprednisolone in patients with a history of toxic hepatitis caused by methylprednisolone.

## Vaccination

**Administration of live or live, attenuated vaccines is contraindicated in patients receiving immunosuppressive doses of corticosteroids. Killed or inactivated vaccines may be administered. However, the response to such vaccines can not be predicted.** Immunization procedures may be undertaken in patients receiving corticosteroids as replacement therapy, e.g., for Addison's disease.

## Neurologic

Reports of severe medical events have been associated with the intrathecal route of administration (see **ADVERSE REACTIONS, Gastrointestinal and Neurologic/Psychiatric**).

## Ophthalmic

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 bacteria, fungi, or viruses. The use of oral corticosteroids is not recommended in the treatment of optic neuritis and may lead to an increase in the risk of new episodes. Corticosteroids should be used cautiously in patients with ocular herpes simplex because of corneal perforation. Corticosteroids should not be used in active ocular herpes simplex.

## Kaposi's Sarcoma

Kaposi's sarcoma has been reported to occur in patients receiving corticosteroid therapy, most often for chronic conditions. Discontinuation of corticosteroids may result in clinical improvement of Kaposi's sarcoma.

## PRECAUTIONS

### General

This product, like many other steroid formulations, is sensitive to heat. Therefore, it should not be autoclaved when it is desirable to sterilize the exterior of the vial.

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

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.

### **Cardio-renal**

Caution is required in patients with systemic sclerosis because an increased incidence of scleroderma renal crisis has been observed with corticosteroids, including methylprednisolone.

As sodium retention with resultant edema and potassium loss may occur in patients receiving corticosteroids, these agents should be used with caution in patients with congestive heart failure, hypertension, or renal insufficiency.

### **Endocrine**

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 reinstated.

Metabolic clearance of corticosteroids is decreased in hypothyroid patients and increased in hyperthyroid patients. Changes in thyroid status of the patient may necessitate adjustment in dosage.

### **Gastrointestinal**

Steroids should be used with caution in active or latent peptic ulcers, diverticulitis, fresh intestinal anastomoses, and nonspecific ulcerative colitis, since they may increase the risk of a perforation. Signs of peritoneal irritation following gastrointestinal perforation in patients receiving corticosteroids may be minimal or absent.

There is an enhanced effect due to decreased metabolism of corticosteroids in patients with cirrhosis.

### **Musculoskeletal**

Corticosteroids decrease bone formation and increase bone resorption both through their effect on calcium regulation (i.e., decreasing absorption and increasing excretion) and inhibition of osteoblast function. This, together with a decrease in the protein matrix of the bone secondary to an increase in protein catabolism, and reduced sex hormone production, may lead to inhibition of bone growth in pediatric patients and the development of osteoporosis at any age. Special consideration should be given to patients at increased risk of osteoporosis (i.e., postmenopausal women) before initiating corticosteroid therapy.

Local injection of a steroid into a previously infected site is not usually recommended.

### **Neurologic-psychiatric**

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 corticosteroids 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**).

An acute myopathy has been observed with the use of high doses of corticosteroids, most often occurring in patients with disorders of neuromuscular transmission (e.g., myasthenia gravis), or in patients receiving concomitant therapy with neuromuscular blocking drugs (e.g., pancuronium). This acute myopathy is generalized, may involve ocular and respiratory muscles, and may result in quadriplegia. Elevations of creatine kinase may occur. Clinical improvement or recovery after stopping corticosteroids may require weeks to years.

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.

### **Ophthalmic**

Intraocular pressure may become elevated in some individuals. If steroid therapy is continued for more than 6 weeks, intraocular pressure should be monitored.

### **Tumor Lysis Syndrome**

In post marketing experience, tumor lysis syndrome (TLS) has been reported in patients with malignancies, including hematological malignancies and solid tumors, following the use of systemic corticosteroids alone or in combination with other chemotherapeutic agents. Patients at high risk of TLS, such as patients with tumors that have a high proliferative rate, high tumor burden and high sensitivity to cytotoxic agents, should be monitored closely and appropriate precautions should be taken.

### **Information for Patients**

Patients should be warned not to discontinue the use of corticosteroids abruptly or without medical supervision, to advise any medical attendants that they are taking corticosteroids, and to seek medical advice at once should they develop fever or other signs of infection.

Persons who are on corticosteroids should be warned to avoid exposure to chicken pox or measles. Patients should also be advised that if they are exposed, medical advice should be sought without delay.

### **Drug Interactions**

*Aminoglutethimide:* Aminoglutethimide may lead to a loss of corticosteroid-induced adrenal suppression.

*Amphotericin B injection and potassium-depleting agents:* When corticosteroids are administered concomitantly with potassium-depleting agents (i.e., amphotericin B, diuretics), patients should be observed closely for development of hypokalemia. There have been cases reported in which concomitant use of amphotericin B and hydrocortisone was followed by cardiac enlargement and congestive heart failure.

*Antibiotics:* Macrolide antibiotics have been reported to cause a significant decrease in corticosteroid clearance (see **Drug Interactions**, *Hepatic Enzyme Inhibitors*).

*Anticholinesterases:* Concomitant use of anticholinesterase agents and corticosteroids

may produce severe weakness in patients with myasthenia gravis. If possible, anticholinesterase agents should be withdrawn at least 24 hours before initiating corticosteroid therapy.

*Anticoagulants, oral:* Coadministration of corticosteroids and warfarin usually results in inhibition of response to warfarin, although there have been some conflicting reports. Therefore, coagulation indices should be monitored frequently to maintain the desired anticoagulant effect.

*Antidiabetics:* Because corticosteroids may increase blood glucose concentrations, dosage adjustments of antidiabetic agents may be required.

*Antitubercular drugs:* Serum concentrations of isoniazid may be decreased.

*Cholestyramine:* Cholestyramine may increase the clearance of corticosteroids.

*Cyclosporine:* Increased activity of both cyclosporine and corticosteroids may occur when the two are used concurrently. Convulsions have been reported with this concurrent use.

*Digitalis glycosides:* Patients on digitalis glycosides may be at increased risk of arrhythmias due to hypokalemia.

*Estrogens, including oral contraceptives:* Estrogens may decrease the hepatic metabolism of certain corticosteroids, thereby increasing their effect.

*Hepatic Enzyme Inducers (e.g., barbiturates, phenytoin, carbamazepine, rifampin):* Drugs which induce cytochrome P450 3A4 enzyme activity may enhance the metabolism of corticosteroids and require that the dosage of the corticosteroid be increased.

*Hepatic Enzyme Inhibitors (e.g., ketoconazole, macrolide antibiotics such as erythromycin and troleandomycin):* Drugs which inhibit cytochrome P450 3A4 have the potential to result in increased plasma concentrations of corticosteroids.

*Ketoconazole:* Ketoconazole has been reported to significantly decrease the metabolism of certain corticosteroids by up to 60%, leading to an increased risk of corticosteroid side effects.

*Nonsteroidal anti-inflammatory agents (NSAIDs):* Concomitant use of aspirin (or other nonsteroidal anti-inflammatory agents) and corticosteroids increases the risk of gastrointestinal side effects. Aspirin should be used cautiously in conjunction with corticosteroids in hypoprothrombinemia. The clearance of salicylates may be increased with concurrent use of corticosteroids.

*Skin tests:* Corticosteroids may suppress reactions to skin tests.

*Vaccines:* Patients on prolonged corticosteroid therapy may exhibit a diminished response to toxoids and live or inactivated vaccines due to inhibition of antibody response. Corticosteroids may also potentiate the replication of some organisms contained in live attenuated vaccines. Routine administration of vaccines or toxoids should be deferred until corticosteroid therapy is discontinued if possible (see **WARNINGS, Immunosuppression and Increased Risk of Infection, Vaccination**).

## **Carcinogenesis, Mutagenesis, Impairment of Fertility**

No adequate studies have been conducted in animals to determine whether corticosteroids have a potential for carcinogenesis or mutagenesis.

Steroids may increase or decrease motility and number of spermatozoa in some patients.

Corticosteroids have been shown to impair fertility in male rats.

## **Pregnancy**

### **Teratogenic effects**

Corticosteroids have been shown to be teratogenic in many species when given in doses equivalent to the human dose. Animal studies in which corticosteroids have been given to pregnant mice, rats, and rabbits have yielded an increased incidence of cleft palate in the offspring. There are no adequate and well-controlled studies in pregnant women. Corticosteroids should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Infants born to mothers who have received corticosteroids during pregnancy should be carefully observed for signs of hypoadrenalism.

This product contains benzyl alcohol as a preservative.

Benzyl alcohol can cross the placenta. See **PRECAUTIONS: Pediatric use.**

## **Nursing Mothers**

Systemically administered corticosteroids appear in human milk and could suppress growth, interfere with endogenous corticosteroid production, or cause other untoward effects. Because of the potential for serious adverse reactions in nursing infants from corticosteroids, a decision should be made whether to continue nursing, or discontinue the drug, taking into account the importance of the drug to the mother.

## **Pediatric Use**

Some formulations of this product contain benzyl alcohol as a preservative (see **DESCRIPTION**). Carefully examine vials to determine formulation that is being used.

Benzyl alcohol, a component of this product, has been associated with serious adverse events and death, particularly in pediatric patients. The "gasping syndrome" (characterized by central nervous system depression, metabolic acidosis, gasping respirations, and high levels of benzyl alcohol and its metabolites found in the blood and urine) has been associated with benzyl alcohol dosages >99 mg/kg/day in neonates and low-birth-weight neonates. Additional symptoms may include gradual neurological deterioration, seizures, intracranial hemorrhage, hematologic abnormalities, skin breakdown, hepatic and renal failure, hypotension, bradycardia, and cardiovascular collapse. Although normal therapeutic doses of this product ordinarily delivers amounts of benzyl alcohol that are substantially lower than those reported in association with the "gasping syndrome", the minimum amount of benzyl alcohol at which toxicity may occur is not known. The risk of benzyl alcohol toxicity depends on the quantity administered and the hepatic capacity to detoxify the chemical. Premature and low-birth-weight infants, as well as patients receiving high dosages, may be more likely to develop toxicity. Practitioners administering this and other medications containing benzyl alcohol should consider the combined daily metabolic load of benzyl alcohol from all sources.

The efficacy and safety of corticosteroids in the pediatric population are based on the well-established course of effect of corticosteroids which is similar in pediatric and adult populations. Published studies provide evidence of efficacy and safety in pediatric patients for the treatment of nephrotic syndrome (>2 years of age), and aggressive lymphomas and leukemias (>1 month of age). Other indications for pediatric use of corticosteroids, e.g., severe asthma and wheezing, are based on adequate and well-controlled trials conducted in adults, on the premises that the course of the diseases and their pathophysiology are considered to be substantially similar in both populations.

The adverse effects of corticosteroids in pediatric patients are similar to those in adults (see **ADVERSE REACTIONS**). Like adults, pediatric patients should be carefully observed with frequent measurements of blood pressure, weight, height, intraocular pressure, and clinical evaluation for the presence of infection, psychosocial disturbances, thromboembolism, peptic ulcers, cataracts, and osteoporosis. Pediatric patients who are treated with corticosteroids by any route, including systemically administered corticosteroids, may experience a decrease in their growth velocity. This negative impact of corticosteroids on growth has been observed at low systemic doses and in the absence of laboratory evidence of HPA axis suppression (i.e., cosyntropin stimulation and basal cortisol plasma levels). Growth velocity may therefore be a more sensitive indicator of systemic corticosteroid exposure in pediatric patients than some commonly used tests of HPA axis function. The linear growth of pediatric patients treated with corticosteroids should be monitored, and the potential growth effects of prolonged treatment should be weighed against clinical benefits obtained and the availability of treatment alternatives. In order to minimize the potential growth effects of corticosteroids, pediatric patients should be titrated to the lowest effective dose.

Hypertrophic cardiomyopathy may develop after administration of methylprednisolone to prematurely born infants, therefore appropriate diagnostic evaluation and monitoring of cardiac function and structure should be performed.

## **Geriatric Use**

Clinical studies did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

## **ADVERSE REACTIONS**

The following adverse reactions have been reported with SOLU-MEDROL or other corticosteroids:

*Allergic reactions:* Allergic or hypersensitivity reactions, anaphylactoid reaction, anaphylaxis, angioedema.

*Blood and lymphatic system disorders:* Leukocytosis.

*Cardiovascular:* Bradycardia, cardiac arrest, cardiac arrhythmias, cardiac enlargement, circulatory collapse, congestive heart failure, fat embolism, hypertension, hypertrophic

cardiomyopathy in premature infants, myocardial rupture following recent myocardial infarction (see **WARNINGS**), pulmonary edema, syncope, tachycardia, thromboembolism, thrombophlebitis, vasculitis.

*Dermatologic:* Acne, allergic dermatitis, burning or tingling (especially in the perineal area after intravenous injection), cutaneous and subcutaneous atrophy, dry scaly skin, ecchymoses and petechiae, edema, erythema, hyperpigmentation, hypopigmentation, impaired wound healing, increased sweating, rash, sterile abscess, striae, suppressed reactions to skin tests, thin fragile skin, thinning scalp hair, urticaria.

*Endocrine:* Decreased carbohydrate and glucose tolerance, development of cushingoid state, glycosuria, hirsutism, hypertrichosis, increased requirements for insulin or oral hypoglycemic agents in diabetes, manifestations of latent diabetes mellitus, menstrual irregularities, secondary adrenocortical and pituitary unresponsiveness (particularly in times of stress, as in trauma, surgery, or illness), suppression of growth in pediatric patients.

*Fluid and electrolyte disturbances:* Congestive heart failure in susceptible patients, fluid retention, hypokalemic alkalosis, potassium loss, sodium retention.

*Gastrointestinal:* Abdominal distention, bowel/bladder dysfunction (after intrathecal administration), elevation in serum liver enzyme levels (usually reversible upon discontinuation), hepatomegaly, increased appetite, nausea, pancreatitis, peptic ulcer with possible perforation and hemorrhage, perforation of the small and large intestine (particularly in patients with inflammatory bowel disease), ulcerative esophagitis.

*Hepatobiliary:* Hepatitis (see **WARNINGS, Drug-Induced Liver Injury**).

*Metabolic:* Negative nitrogen balance due to protein catabolism.

*Musculoskeletal:* Aseptic necrosis of femoral and humeral heads, Charcot-like arthropathy, loss of muscle mass, muscle weakness, osteoporosis, pathologic fracture of long bones, postinjection flare (following intra-articular use), steroid myopathy, tendon rupture, vertebral compression fractures.

*Neurologic/Psychiatric:* Convulsions, depression, emotional instability, euphoria, headache, increased intracranial pressure with papilledema (pseudotumor cerebri) usually following discontinuation of treatment, insomnia, mood swings, neuritis, neuropathy, paresthesia, personality changes, psychic disorders, vertigo. Arachnoiditis, meningitis, paraparesis/paraplegia, and sensory disturbances have occurred after intrathecal administration (see **WARNINGS, Neurologic**).

*Ophthalmic:* Exophthalmos, glaucoma, increased intraocular pressure, posterior subcapsular cataracts, rare instances of blindness associated with periocular injections.

*Other:* Abnormal fat deposits, decreased resistance to infection, hiccups, increased or decreased motility and number of spermatozoa, injection site infections following non-sterile administration (see **WARNINGS**), malaise, moon face, weight gain.

## **OVERDOSAGE**

Treatment of acute overdosage is by supportive and symptomatic therapy. For chronic overdosage in the face of severe disease requiring continuous steroid therapy, the dosage of the corticosteroid may be reduced only temporarily, or alternate day

treatment may be introduced.

## **DOSAGE AND ADMINISTRATION**

**NOTE: Some of the SOLU-MEDROL formulations contain benzyl alcohol (see DESCRIPTION, WARNINGS and PRECAUTIONS, Pediatric Use)**

**Because of possible physical incompatibilities, SOLU-MEDROL should not be diluted or mixed with other solutions.**

Use only the accompanying diluent or Bacteriostatic Water For Injection with Benzyl Alcohol when reconstituting SOLU-MEDROL (see **DESCRIPTION**).

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

This preparation may be administered by intravenous injection, by intravenous infusion, or by intramuscular injection, the preferred method for initial emergency use being intravenous injection. Following the initial emergency period, consideration should be given to employing a longer acting injectable preparation or an oral preparation.

There are reports of cardiac arrhythmias and/or cardiac arrest following the rapid administration of large intravenous doses of SOLU-MEDROL (**greater than 0.5 gram administered over a period of less than 10 minutes**). Bradycardia has been reported during or after the administration of large doses of methylprednisolone sodium succinate, and may be unrelated to the speed or duration of infusion. When high dose therapy is desired, the recommended dose of SOLU-MEDROL Sterile Powder is 30 mg/kg **administered intravenously over at least 30 minutes**. This dose may be repeated every 4 to 6 hours for 48 hours.

In general, high dose corticosteroid therapy should be continued only until the patient's condition has stabilized; usually not beyond 48 to 72 hours.

In other indications, initial dosage will vary from 10 to 40 mg of methylprednisolone depending on the specific disease entity being treated. However, in certain overwhelming, acute, life-threatening situations, administrations in dosages exceeding the usual dosages may be justified and may be in multiples of the oral dosages.

*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 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. 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 the corticosteroid 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.

SOLU-MEDROL may be administered by intravenous or intramuscular injection or by intravenous infusion, the preferred method for initial emergency use being intravenous injection. To administer by intravenous (or intramuscular) injection, prepare solution as

directed. The desired dose may be administered intravenously over a period of several minutes. If desired, the medication may be administered in diluted solutions by adding Water for Injection or other suitable diluent (see below) to the **Act-O-Vial** and withdrawing the indicated dose.

To prepare solutions for intravenous infusion, first prepare the solution for injection as directed. This solution may then be added to indicated amounts of 5% dextrose in water, isotonic saline solution, or 5% dextrose in isotonic saline solution. From a microbiological point of view, unless the method of opening/reconstitution/dilution precludes the risk of microbial contamination, the product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user. Chemical and physical stability of the further diluted product has been demonstrated within 4 hours of preparation if stored below 25°C or within 24 hours of preparation if stored at 2°C to 8°C.

In pediatric patients, the initial dose of methylprednisolone may vary depending on the specific disease entity being treated. The range of initial doses is 0.11 to 1.6 mg/kg/day in three or four divided doses (3.2 to 48 mg/m<sup>2</sup>bsa/day).

The National Heart, Lung, and Blood Institute (NHLBI) recommended dosing for systemic *prednisone, prednisolone, or methylprednisolone* in pediatric patients whose asthma is uncontrolled by inhaled corticosteroids and long-acting bronchodilators is 1–2 mg/kg/day in single or divided doses. It is further recommended that short course, or "burst" therapy, be continued until the patient achieves a peak expiratory flow rate of 80% of his or her personal best or until symptoms resolve. This usually requires 3 to 10 days of treatment, although it can take longer. There is no evidence that tapering the dose after improvement will prevent a relapse.

Dosage may be reduced for infants and children but should be governed more by the severity of the condition and response of the patient than by age or size. It should not be less than 0.5 mg per kg every 24 hours.

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, determination of 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 dyspepsia.

In 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 (see **PRECAUTIONS, Neurologic-psychiatric**).

*For the purpose of comparison, the following is the equivalent milligram dosage of the various glucocorticoids:*

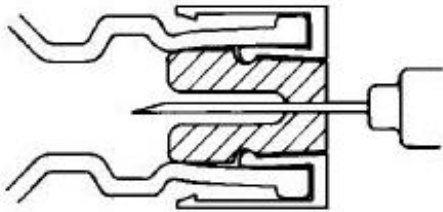
Cortisone, 25	Triamcinolone, 4
Hydrocortisone, 20	Paramethasone, 2
Prednisolone, 5	Betamethasone, 0.75
Prednisone, 5	Dexamethasone, 0.75
Methylprednisolone, 4	



*These dose relationships apply only to oral or intravenous administration of these compounds. When these substances or their derivatives are injected intramuscularly or into joint spaces, their relative properties may be greatly altered.*

## **DIRECTIONS FOR USING THE ACT-O-VIAL SYSTEM**

1. Press down on plastic activator to force diluent into the lower compartment.
2. Gently agitate to effect solution.
3. Remove plastic tab covering center of stopper.
4. Sterilize top of stopper with a suitable germicide.
5. Insert needle **squarely through center** of stopper until tip is just visible. Invert vial and withdraw dose.



## **STORAGE CONDITIONS**

Protect from light.

Store unreconstituted product at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].

Store reconstituted solution (not further diluted) at controlled room temperature 20° to 25°C (68° to 77°F) [see USP], and use it within 48 hours.

See section **DOSAGE AND ADMINISTRATION**, for storage of further diluted solution.

## **HOW SUPPLIED**

SOLU-MEDROL Sterile Powder preserved with benzyl alcohol is available in the following packages:

### **500 mg (Multi-Dose Vial)**

8 mL NDC 0009-0758-01

### **2 gram Vial (Single-Dose Vial)**

NDC 0009-0850-01

### **1 gram (Multi-Dose Vial)**

16 mL NDC 0009-0698-01

### **2 gram Vial with Diluent (Single-Dose Vial)**

NDC 0009-0796-01

SOLU-MEDROL Sterile Powder **preservative-free** is available in the following packages:

### **40 mg Act-O-Vial System (Single-Dose Vial)**

25 x1 mL NDC 0009-0039-28

### **1 gram Act-O-Vial System (Single-Dose Vial)**

8 mL NDC 0009-0018-20

**125 mg Act-O-Vial System (Single-Dose Vial)**

25 × 2 mL NDC 0009-0047-22

**500 mg Act-O-Vial System (Single-Dose Vial)**

4 mL NDC 0009-0003-02

This product's label may have been updated. For current full prescribing information, please visit [www.pfizer.com](http://www.pfizer.com).



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New York, NY 10017

LAB-0161-20.0  
Revised: March 2024

**PRINCIPAL DISPLAY PANEL - 500 mg Vial Label**

NDC 0009-0758-01

**Multi-dose vial.**

**Discard unused portion.**

**Solu-Medrol®**

(methylprednisolone sodium succinate for injection, USP)

**500 mg\* per vial**

This Package Does Not Contain Diluent.  
Recommended Diluent (Bacteriostatic Water for Injection) Contains Benzyl Alcohol as a Preservative.

**Rx only**

**IMPRINT AREA**

LOT/EXP  
PAA143686

(01)00300090758011  
FPO GS1 Data Bar Limited (RSS) - 10 mil

For Intramuscular or Intravenous Use Only  
Store at controlled room temperature  
20° to 25°C (68° to 77°F) [see USP].  
Protect from light.  
Reconstitute with 8 mL Bacteriostatic Water for  
Injection with Benzyl Alcohol. Store solution at  
controlled room temperature 20° to 25°C  
(68° to 77°F) [see USP] and use within 48 hours  
after mixing. Protect from light.  
**DOSAGE AND USE:**  
See accompanying prescribing information.  
\*Once reconstituted with 8 mL of Bacteriostatic  
Water for Injection, the resultant concentration is  
62.5 mg per mL. Lyophilized in container.

Reconstituted: \_\_\_\_\_  
Distributed by Pharmacia & Upjohn Co  
Division of Pfizer Inc, NY, NY 10017

NDC 0009-0758-01

Multi-dose vial.  
Discard unused portion.

**Solu-Medrol®**  
(methylprednisolone sodium  
succinate for injection, USP)  
**500 mg\* per vial**

This Package Does Not Contain Diluent.  
Recommended Diluent (Bacteriostatic Water  
for Injection) Contains Benzyl Alcohol as a  
Preservative.

**Rx only**

**PRINCIPAL DISPLAY PANEL - 500 mg Vial Carton**

NDC 0009-0758-01

**1 Vial**  
**Multi-dose vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone  
sodium succinate  
for injection, USP)

**500 mg\***  
**per vial**

For Intramuscular or  
Intravenous Use Only

This Package Does Not Contain  
Diluent. The Recommended  
Diluent (Bacteriostatic Water  
for Injection) Contains Benzyl  
Alcohol as a Preservative.

**Rx only**

**Pfizer Injectables**



PAA143420

500 mg\* per vial  
 (methylprednisolone sodium succinate for injection, USP)  
**Solu-Medrol®**  
 Multi-dose vial. Discard unused portion.  
 1 Vial  
 GTIN: 003 009 075 8011

NO VARNISH  
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PAA143420

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Protect from light.

Reconstitute with 8 mL Bacteriostatic Water for Injection with Benzyl Alcohol. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours after mixing. **Protect from light.**

**DOSAGE AND USE:**  
 See accompanying prescribing information.

\* Each 8 mL (when mixed with 8 mL of diluent) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 500 mg. Also contains monobasic sodium phosphate anhydrous, 6.4 mg; dibasic sodium phosphate dried, 69.6 mg.

When necessary, pH was adjusted with sodium hydroxide. Lyophilized in container.

NDC 0009-0758-01

1 Vial  
 Multi-dose vial.  
 Discard unused portion.  
**Solu-Medrol®**  
 (methylprednisolone sodium succinate for injection, USP)  
**500 mg\* per vial**

For Intramuscular or Intravenous Use Only

This Package Does Not Contain Diluent. The Recommended Diluent (Bacteriostatic Water for Injection) Contains Benzyl Alcohol as a Preservative.

Rx only

**Pfizer** Injectables



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 New York, NY 10017

LOT/EXP/SN

IMPRINT AREA  
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**PRINCIPAL DISPLAY PANEL - 1 gram Vial Label**

NDC 0009-0698-01

**Multi-dose vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**1 gram\* per vial**

For Intramuscular or  
Intravenous Use Only

This Package Does Not Contain Diluent.  
Recommended Diluent (Bacteriostatic  
Water for Injection) Contains Benzyl  
Alcohol as a Preservative.

**Rx only**

**Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Protect from light.**

Reconstitute with 16 mL Bacteriostatic Water for Injection with Benzyl Alcohol. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) [see USP] and use within 48 hours after mixing. **Protect from light.**

**DOSAGE AND USE:**  
See accompanying prescribing information.

\* Once reconstituted with 16 mL of Bacteriostatic Water for Injection, the resultant concentration is **62.5 mg per mL**. Lyophilized in container.

Reconstituted: \_\_\_\_\_

Distributed by Pharmacia & Upjohn Co  
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NDC 0009-0698-01

**Multi-dose vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**1 gram\* per vial**

For Intramuscular or  
Intravenous Use Only

This Package Does Not Contain Diluent.  
Recommended Diluent (Bacteriostatic  
Water for Injection) Contains Benzyl  
Alcohol as a Preservative.

**Rx only**

**PRINCIPAL DISPLAY PANEL - 1 gram Vial Carton**

NDC 0009-0698-01

**1 Vial**  
**Multi-dose vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone  
sodium succinate)

for injection, USP)

**1 gram\***  
**per vial**

For Intramuscular or  
Intravenous Use Only

This Package Does Not Contain  
Diluent. The Recommended  
Diluent (Bacteriostatic Water  
for Injection) Contains Benzyl  
Alcohol as a Preservative.

**Rx only**

***Pfizer Injectables***



**PRINCIPAL DISPLAY PANEL - 2 gram Vial Label**

NDC 0009-0796-01

**Single use vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**2 grams\* per vial**

For Intramuscular or  
Intravenous Use Only

The Enclosed Packaged Diluent  
(Bacteriostatic Water for Injection)  
Contains Benzyl Alcohol as a  
Preservative.

**Rx only**

**LOT/EXP**  
**P A A 0 4 5 3 9 8**

**Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].**  
**Protect from light.**

Reconstitute with 30 mL of the accompanying Bacteriostatic Water for Injection. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours after mixing.  
**Protect from light.**

**DOSAGE AND USE:**  
See accompanying prescribing information.  
\* Each 30.6 mL (when reconstituted) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 2 grams. Lyophilized in container.

Reconstituted: \_\_\_\_\_

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**NDC 0009-0796-01**

**Single use vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**2 grams\* per vial**

For Intramuscular or  
Intravenous Use Only

The Enclosed Packaged Diluent  
(Bacteriostatic Water for Injection)  
Contains Benzyl Alcohol as a  
Preservative.

**Rx only**

**N 0 0 3 0 0 0 9 - 0 7 9 6 - 0 1 3**  
**F P O - R S S 1 0 M I L**

**PRINCIPAL DISPLAY PANEL - 2 gram Vial Carton**

NDC 0009-0796-01

**Single use vial.**  
**Discard unused portion.**

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)



**2 grams\* per vial**

For Intramuscular or Intravenous Use Only

The Enclosed Packaged Diluent (Bacteriostatic Water for Injection)  
Contains Benzyl Alcohol as a Preservative.

***Pfizer Injectables***

**Rx only**

Single use vial.  
Discard unused portion.

NDC 0009-0796-01

# Solu-Medrol<sup>®</sup>

(methylprednisolone sodium succinate for injection, USP)

## 2 grams\* per vial

For Intramuscular or Intravenous Use Only

The Enclosed Packaged Diluent (Bacteriostatic Water for Injection)  
Contains Benzyl Alcohol as a Preservative.

**Pfizer** *Injectables*

Rx only



3 0009-0796-01 3

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New York, NY 10017





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GTTN: 00300090796013

For Intramuscular or Intravenous Use Only

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**2 grams\* per vial**

PAA067858

Single use vial.  
Discard unused portion.

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**2 grams\* per vial**

For Intramuscular or Intravenous Use Only

The Enclosed Packaged Diluent (Bacteriostatic Water for Injection)  
Contains Benzyl Alcohol as a Preservative.

**Pfizer** Injectables

Store at controlled room temperature  
20° to 25°C (68° to 77°F) [see USP].  
Protect from light.

This package also contains one 30 mL vial of Bacteriostatic Water for Injection containing per mL: Benzyl Alcohol, 9.45 mg added as preservative.

Mix only with accompanying diluent. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours after mixing.

Protect from light.

**DOSAGE AND USE:**

See accompanying prescribing information.

\* Each 30.6 mL (when mixed with 30 mL of diluent) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 2 grams. Also contains monobasic sodium phosphate anhydrous, 25.6 mg; dibasic sodium phosphate dried, 278 mg; benzyl alcohol added as preservative, 273 mg.

When necessary, pH was adjusted with sodium hydroxide.

Lyophilized in container.

NDC 0009-0039-30

**1 mL Act-O-Vial®**

**Solu-Medrol®**

(methylprednisolone sodium succinate for injection, USP)

**40 mg\* per vial**

**Preservative-Free**

**Rx only**



**PRINCIPAL DISPLAY PANEL - 40 mg Vial Carton**

NDC 0009-0039-28

Contains 25 of NDC 0009-0039-30

**Single-Dose Vial.**

**Discard unused portion.**

**25-1 mL Act-O-Vial® Systems**

**Solu-Medrol®**

(methylprednisolone sodium succinate for injection, USP)

**40 mg\* per vial**

For Intramuscular or Intravenous Use Only

**Preservative-Free**

**Pfizer Injectables**

**Rx only**

Single-Dose Vial.  
Discard unused portion.  
25-1 mL Act-0-Vial® Systems

NDC 0009-0039-28  
Contains 25 of NDC 0009-0039-30

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**40 mg\* per vial**

For Intramuscular or Intravenous Use Only  
Preservative-Free

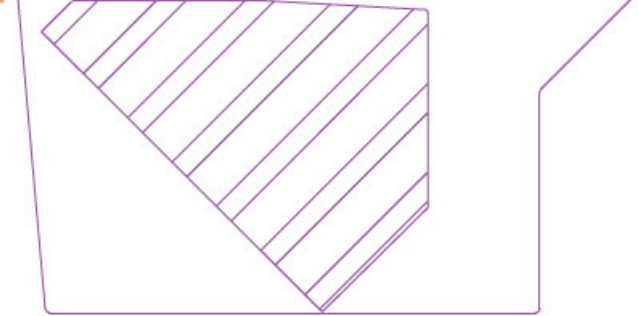
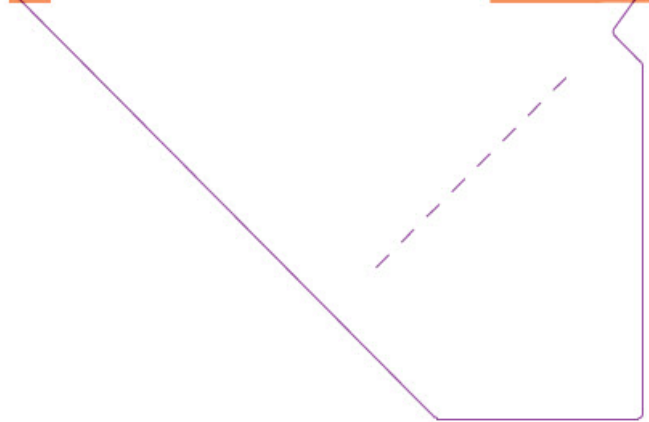
**Pfizer** Injectables

Rx only

FPO UPC @ 100%

3 00090 03928 8

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NY, NY 10017



LOT/EXP/NSN

GTTN: 00900090039288

PP 0128 - 10 ml  
PAA143418

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Single-Dose Vial.  
Discard unused portion.  
25-1 mL Act-0-Vial® Systems

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**40 mg\* per vial**

For Intramuscular or Intravenous Use Only  
Preservative-Free

**Pfizer** Injectables

PAA143418

Single-Dose Vial.  
Discard unused portion.  
25-1 mL Act-0-Vial® Systems

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Protect from light.

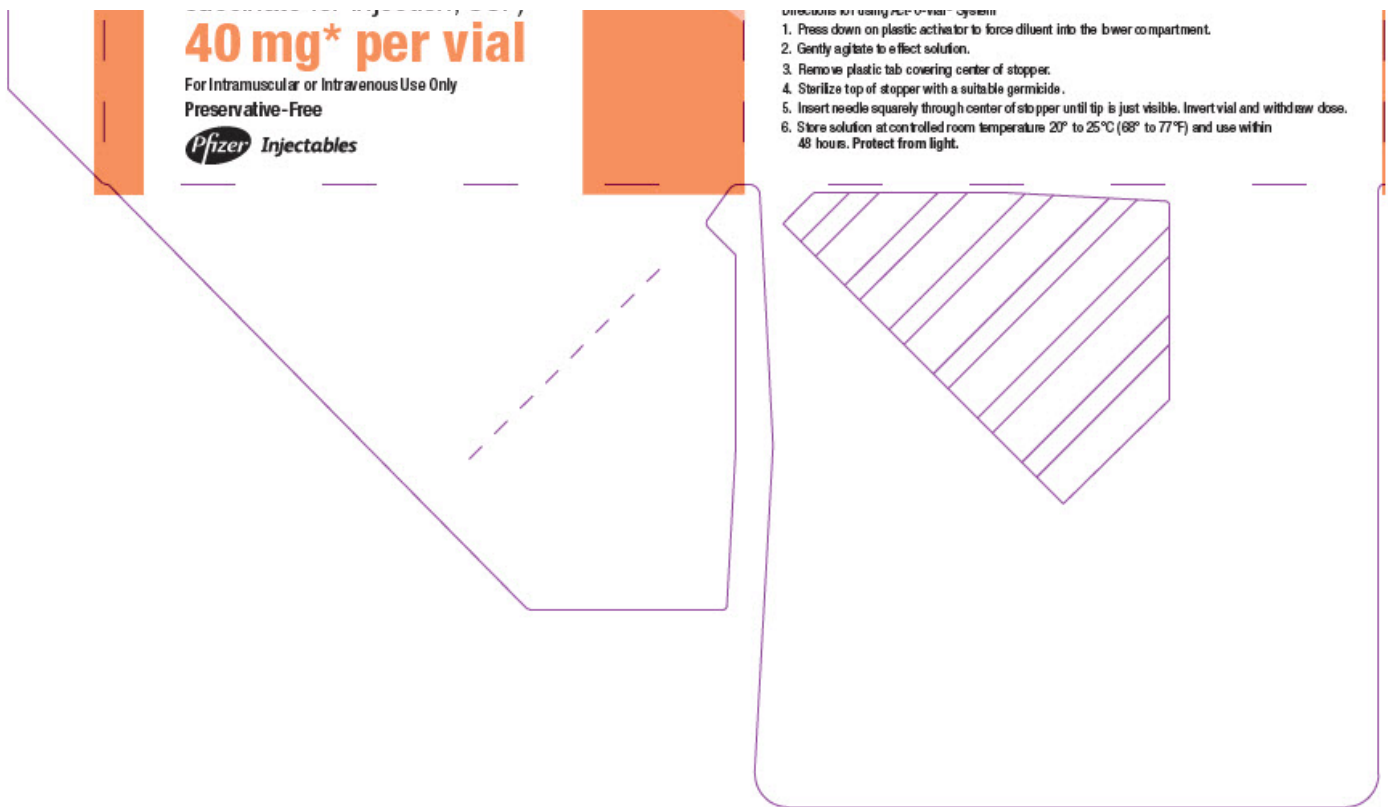
**DOSAGE AND USE:**  
See accompanying prescribing information.

\* Each mL (when mixed) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 40 mg. Also contains lactose hydrate, 25 mg; monobasic sodium phosphate anhydrous, 1.6 mg and dibasic sodium phosphate dried, 17.46 mg.

When necessary, pH was adjusted with sodium hydroxide.

Lyophilized in container.

Directions for using Act-0-Vial® System



## PRINCIPAL DISPLAY PANEL - 40 mg Vial Label - Act-O-Vial System

NDC 0009-0039-33

**Rx ONLY**

**SOLU-MEDROL®**  
**Methylprednisolone Sodium**  
**Succinate for Injection, USP**  
**Single-Dose Vial**

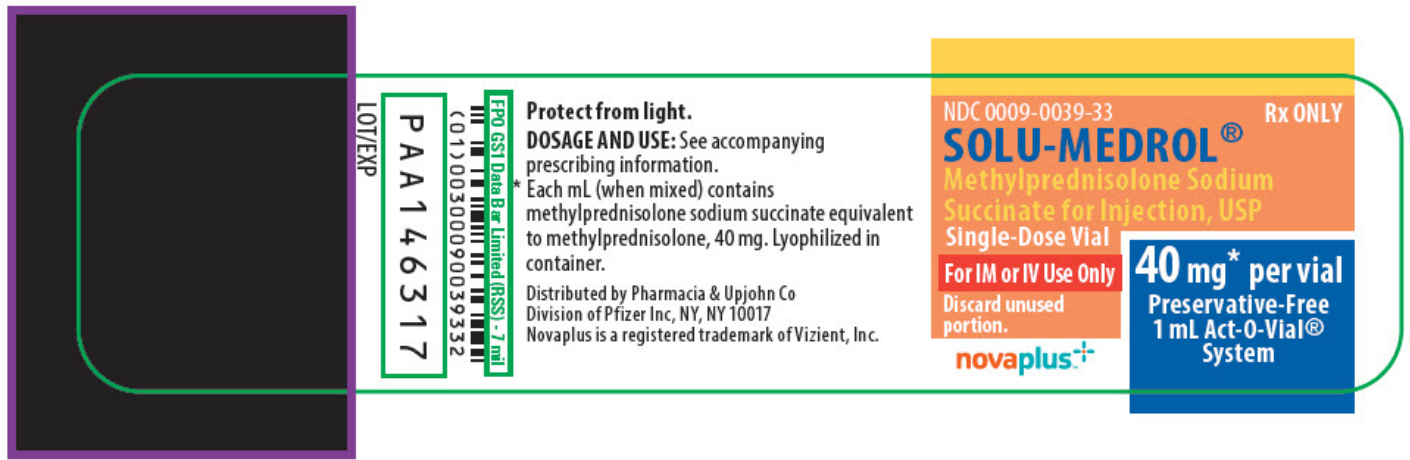
**For IM or IV Use Only**

**Discard unused**  
**portion.**

**40 mg\* per vial**

**Preservative-Free**  
**1 mL Act-O-Vial®**  
**System**

**novaplus™ +**



## PRINCIPAL DISPLAY PANEL - 40 mg Vial Carton - Act-O-Vial System

NDC 0009-0039-32

Contains 25 of NDC 0009-0039-33

**SOLU-MEDROL®**  
**Methylprednisolone Sodium**  
**Succinate for Injection, USP**

**40mg\* per vial**

**Preservative-Free**

**25-1 mL Act-O-Vial®**  
**Systems**

**For Intramuscular or Intravenous Use Only**

**Single-Dose Vials**

Discard unused portion.

**Rx ONLY**

**novaplus™<sup>+</sup>**

NDC 0009-0039-32  
Contains 25 of NDC 0009-0039-33

**SOLU-MEDROL®**  
Methylprednisolone Sodium  
Succinate for Injection, USP

For Intramuscular or Intravenous Use Only

**40mg\* per vial**  
Preservative-Free  
25-1 mL Act-O-Vial®  
Systems

**Single-Dose Vials**

Discard unused portion.

Rx ONLY

**novaplus+**



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Novaplus is a registered trademark of Valent, Inc.



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GTIN: 0030000039325

LOT/EXP/NS

**novaplus+**

Rx ONLY

Discard unused portion.

**Single-Dose Vials**

**40mg\* per vial**  
Preservative-Free  
25-1 mL Act-O-Vial®  
Systems

**SOLU-MEDROL®**  
Methylprednisolone Sodium  
Succinate for Injection, USP  
For Intramuscular or Intravenous Use Only

NDC 0009-0039-32  
Contains 25 of NDC 0009-0039-33

NDC 0009-0039-32  
Contains 25 of NDC 0009-0039-33

**SOLU-MEDROL®**  
Methylprednisolone Sodium

**40mg\* per vial**

PAA146318

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Protect from light.

**DOSAGE AND USE:**

See accompanying prescribing information.

\* Each mL (when mixed) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 40 mg. Also contains lactose hydrates, 25 mg; monobasic sodium phosphate anhydrous, 1.6 mg and dibasic sodium phosphate dried, 17.46 mg.

When necessary, pH was adjusted with sodium hydroxide.



**Succinate for Injection, USP**

**For Intramuscular or Intravenous Use Only**

Single-Dose Vials  
Discard unused portion.  
Rx ONLY  
**novaplus+**

**Preservative-Free**  
25-1 mL Act-O-Vial®  
Systems

Lyophilized in container.

Directions for using Act-O-Vial® System

1. Press down on plastic activator to force diluent into the lower compartment.
2. Gently agitate to effect solution.
3. Remove plastic tab covering center of stopper.
4. Sterilize top of stopper with a suitable germicide.
5. Insert needle squarely through center of stopper until tip is just visible. Invert vial and withdraw dose.
6. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours.  
**Protect from light.**

## PRINCIPAL DISPLAY PANEL - 125 mg Vial Label

NDC 0009-0047-25

**2 mL Act-O-Vial®**

**Solu-Medrol®**

(methylprednisolone sodium succinate for injection, USP)

**125 mg\* per vial**

**Preservative-Free**  
**Rx only**

LOT/EXP  
PAA143685

PROGS1 Data Bar Limited (RSS) - 7 mill  
001200300090047252

For Intramuscular or Intravenous Use Only  
**Single-Dose Vial. Discard unused portion.**  
**Protect from light.**  
**DOSAGE AND USE:** See accompanying prescribing information.  
\* Each 2 mL (when mixed) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 125 mg. Lyophilized in container.  
Distributed by Pharmacia & Upjohn Co  
Division of Pfizer Inc, NY, NY 10017

NDC 0009-0047-25  
2 mL Act-O-Vial®  
**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**125 mg\* per vial**  
**Preservative-Free Rx only**

**PRINCIPAL DISPLAY PANEL - 125 mg Vial Carton**

NDC 0009-0047-22

Contains 25 of NDC 0009-0047-25

**Single-Dose Vial.**

**Discard unused portion.**

**25-2 mL Act-O-Vial® Systems**

**Solu-Medrol®**

(methylprednisolone sodium  
succinate for injection, USP)

**125 mg\* per vial**

For Intramuscular or Intravenous Use Only

**Preservative-Free**

***Pfizer Injectables***

**Rx only**

Single-Dose Vial.  
Discard unused portion.  
25-2 mL Act-O-Vial® Systems

NDC 0009-0047-22  
Contains 25 of NDC 0009-0047-25

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**125 mg\* per vial**

For Intramuscular or Intravenous Use Only  
Preservative-Free

**Pfizer** Injectables

Rx only

FPO UPC @ 100%

3 00090 04722 1

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NY, NY 10017

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LOT/EXP/SN  
GTTN: 00300090047221

Single-Dose Vial.  
Discard unused portion.  
25-2 mL Act-O-Vial® Systems

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**125 mg\* per vial**

For Intramuscular or Intravenous Use Only  
Preservative-Free

**Pfizer** Injectables

FAA143419

Single-Dose Vial.  
Discard unused portion.  
25-2 mL Act-O-Vial® Systems

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Protect from light.  
DOSAGE AND USE:  
See accompanying prescribing information.  
\* Each 2 mL (when mixed) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 125 mg. Also contains monobasic sodium phosphate anhydrous, 1.6 mg and dibasic sodium phosphate dried, 17.4 mg.  
When necessary, pH was adjusted with sodium hydroxide.  
Lyophilized in container.

Succinate for Injection, USP)  
**125 mg\* per vial**  
For Intramuscular or Intravenous Use Only  
Preservative-Free  
**Pfizer** Injectables

Directions for using Act-O-Vial® System

1. Press down on plastic activator to force diluent into the lower compartment.
2. Gently agitate to effect solution.
3. Remove plastic tab covering center of stopper.
4. Sterilize top of stopper with a suitable germicide.
5. Insert needle squarely through center of stopper until tip is just visible. Invert vial and withdraw dose.
6. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours. Protect from light.

**PRINCIPAL DISPLAY PANEL - 125 mg Vial Label - Act-O-Vial System**

NDC 0009-0047-27

**Rx ONLY**

**SOLU-MEDROL®**  
**Methylprednisolone Sodium**  
**Succinate for Injection, USP**  
**Single-Dose Vial**

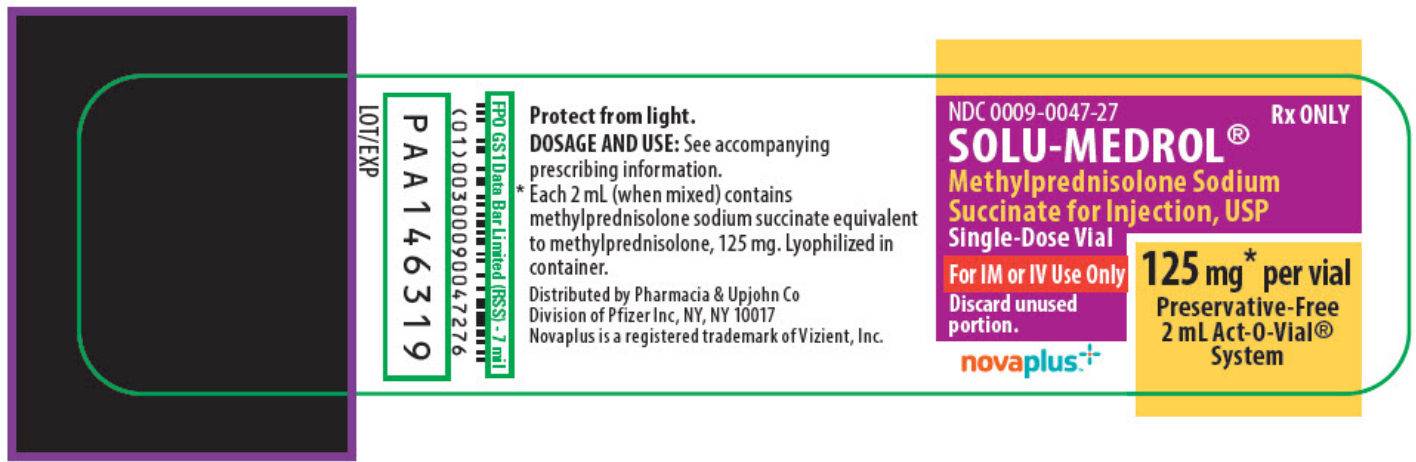
**For IM or IV Use Only**

**Discard unused**  
**portion.**

**125 mg\* per vial**

**Preservative-Free**  
**2 mL Act-O-Vial®**  
**System**

**novaplus™ +**



## PRINCIPAL DISPLAY PANEL - 125 mg Vial Carton - Act-O-Vial System

NDC 0009-0047-26

Contains 25 of NDC 0009-0047-27

**SOLU-MEDROL®**  
**Methylprednisolone Sodium**  
**Succinate for Injection, USP**

**125 mg\* per vial**

**Preservative-Free**

**25-2 mL Act-O-Vial®**  
**Systems**

**For Intramuscular or Intravenous Use Only**

**Single-Dose Vials**

Discard unused portion.

**Rx ONLY**

**novaplus™<sup>+</sup>**

NDC 0009-0047-26  
Contains 25 of NDC 0009-0047-27

**SOLU-MEDROL®**  
Methylprednisolone Sodium  
Succinate for Injection, USP

For Intramuscular or Intravenous Use Only

**125mg\* per vial**  
Preservative-Free  
25-2 mL Act-0-Vial®  
Systems

Single-Dose Vials  
Discard unused portion.  
Rx ONLY  
**novaplus+**



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Novaplus is a registered trademark of Vidant, Inc.



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**novaplus+**  
Rx ONLY  
Discard unused portion.  
Single-Dose Vials

**SOLU-MEDROL®**  
Methylprednisolone Sodium  
Succinate for Injection, USP  
**125mg\* per vial**  
Preservative-Free  
25-2 mL Act-0-Vial®  
Systems  
For Intramuscular or Intravenous Use Only

NDC 0009-0047-26  
Contains 25 of NDC 0009-0047-27

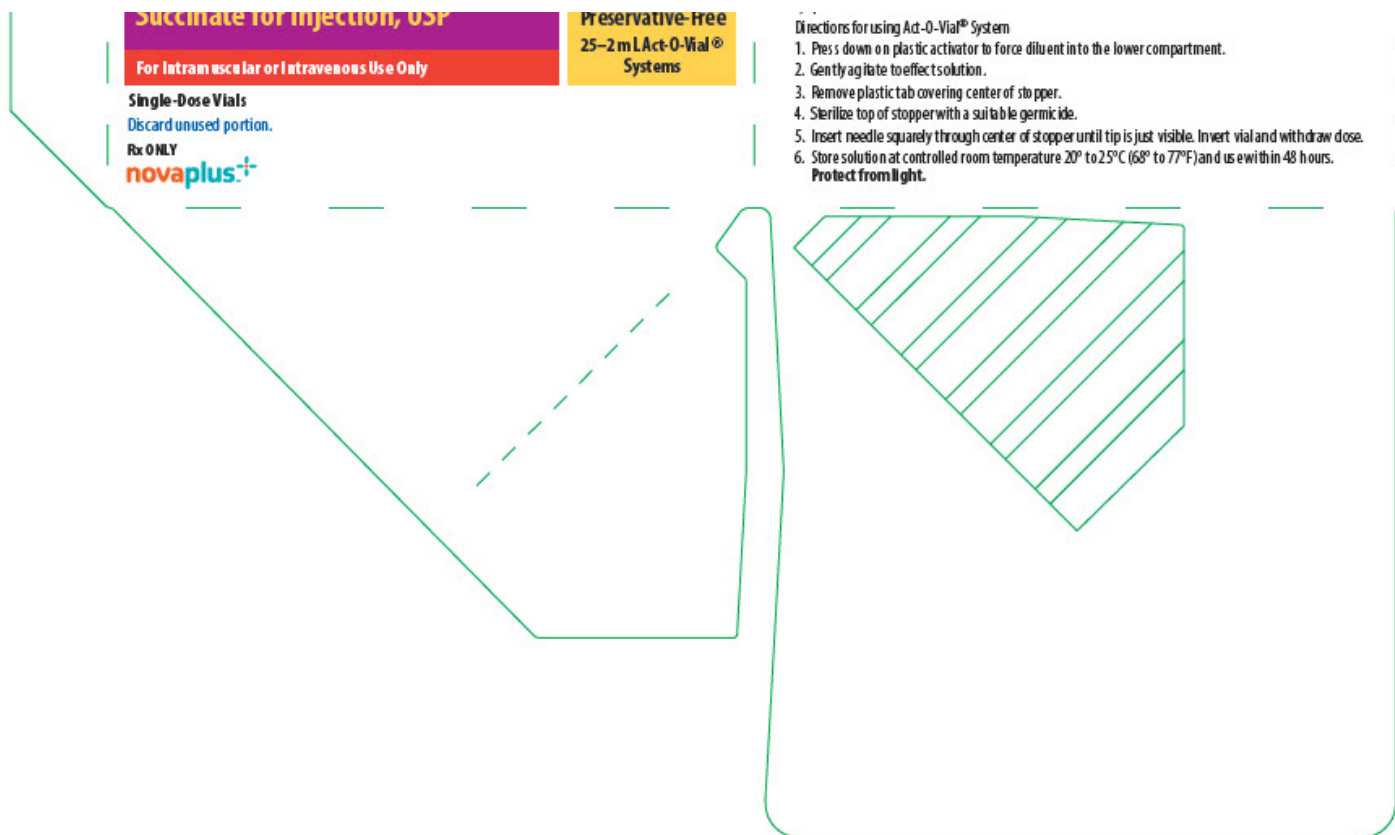
NDC 0009-0047-26  
Contains 25 of NDC 0009-0047-27

**SOLU-MEDROL®**  
Methylprednisolone Sodium  
Succinate for Injection, USP

**125mg\* per vial**

PAA146320

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Protect from light.  
**DOSE AND USE:**  
See accompanying prescribing information.  
\* Each 2 mL (when mixed) contains methylprednisolone sodium succinate equivalent to methylprednisolone, 125 mg. Also contains monobasic sodium phosphate anhydrous, 1.6 mg and dibasic sodium phosphate dried, 17.4 mg.  
When necessary, pH was adjusted with sodium hydroxide.  
Lyophilized in container.



## PRINCIPAL DISPLAY PANEL - 500 mg Vial Label - Act-O-Vial System

**Single-Dose Vial.**

**Discard unused portion.**

**4 mL Act-O-Vial®**

NDC 0009-0003-02

**Solu-Medrol®**

(methylprednisolone sodium succinate for injection, USP)

**500 mg\* per vial**

**Preservative-Free**

**Rx only**

**PRINCIPAL DISPLAY PANEL - 500 mg Vial Carton - Act-O-Vial System**

NDC 0009-0003-02

**Single-Dose Vial.**  
**Discard unused portion.**  
**4 mL Act-O-Vial®**

**Solu-Medrol®**  
(methylprednisolone  
sodium succinate  
for injection, USP)

**500 mg\***  
**per vial**

For Intramuscular or  
Intravenous Use Only

**Preservative-Free**

**Rx only**

***Pfizer Injectables***





PAA143681  
 FPO 2D - 20 ml

**500 mg\* per vial**  
 (methylprednisolone sodium succinate for injection, USP)  
**Solu-Medrol®**  
 4 mL Act-O-Vial®  
 Single-Dose Vial. Discard unused portion.  
 GTIN: 003009000302

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PAA143681

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].  
 Protect from light.

**DOSAGE AND USE:**  
 See accompanying prescribing information.

\* Once reconstituted with 4 mL of the diluent, the resultant concentration is 125 mg per mL. Also contains monobasic sodium phosphate anhydrous, 6.4 mg and dibasic sodium phosphate dried, 69.6 mg.

When necessary, pH was adjusted with sodium hydroxide.

Lyophilized in container.  
 Directions for using Act-O-Vial® System

1. Press down on plastic activator to force diluent into the lower compartment.
2. Gently agitate to effect solution.
3. Remove plastic tab covering center of stopper.
4. Sterilize top of stopper with a suitable germicide.
5. Insert needle squarely through center of stopper until tip is just visible. Invert vial and withdraw dose.
6. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours after mixing. **Protect from light.**

Single-Dose Vial.  
 Discard unused portion.  
 4 mL Act-O-Vial®

**Solu-Medrol®**  
 (methylprednisolone sodium succinate for injection, USP)

**500 mg\* per vial**

For Intramuscular or Intravenous Use Only

Preservative-Free



NDC 0009-0003-02

Single-Dose Vial.  
 Discard unused portion.  
 4 mL Act-O-Vial®

**Solu-Medrol®**  
 (methylprednisolone sodium succinate for injection, USP)

**500 mg\* per vial**

For Intramuscular or Intravenous Use Only

Preservative-Free

Rx only



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 New York, NY 10017

**PRINCIPAL DISPLAY PANEL - 1 gram Vial Label - Act-O-Vial System  
 Single-Dose Vial.**

**Discard unused portion.  
8 mL Act-O-Vial®**

NDC 0009-0018-20

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**1 gram\* per vial**

**Preservative-Free  
Rx only**

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**LOT/EXP**

**PAA 143689**

**For Intramuscular or Intravenous Use Only**  
**Store solution at controlled room temperature 20° to 25°C (68° to 77°F) [see USP] and use within 48 hours after mixing. Protect from light.**  
**DOSAGE AND USE:** See accompanying prescribing information.  
\* Once reconstituted with 8 mL of the Diluent, the resultant concentration is 125 mg per mL.  
Lyophilized in container.  
Distributed by Pharmacia & Upjohn Co  
Division of Pfizer Inc, NY, NY 10017

Single-Dose Vial. NDC 0009-0018-20  
Discard unused portion.  
8 mL Act-O-Vial®  
**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)  
**1 gram\* per vial**  
Preservative-Free Rx only

## **PRINCIPAL DISPLAY PANEL - 1 gram Vial Carton - Act-O-Vial System**

NDC 0009-0018-20

**Single-Dose Vial.**  
**Discard unused portion.**  
**8 mL Act-O-Vial®**

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**1 gram\*  
per vial**

For Intramuscular or  
Intravenous Use Only

**Preservative-Free  
Rx only**

***Pfizer Injectables***



PAA143683  
FPO 2D - 20 ml

1 gram\* per vial  
(methylprednisolone sodium succinate for injection, USP)  
**Solu-Medrol®**  
8 mL Act-0-Vial®  
Single-Dose Vial. Discard unused portion.  
GTN : 00300090018207

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PAA143683

Store at controlled room temperature 20° to 25°C (68° to 77°F) [see USP].  
Protect from light.

**DOSAGE AND USE:**  
See accompanying prescribing information.

\* Once reconstituted with 8 mL of the diluent, the resultant concentration is 125 mg per mL. Also contains monobasic sodium phosphate anhydrous, 12.8 mg and dibasic sodium phosphate dried, 139.2 mg.

When necessary, pH was adjusted with sodium hydroxide.

Lyophilized in container.

Directions for using Act-0-Vial® System

1. Press down on plastic activator to force diluent into the lower compartment.
2. Gently agitate to effect solution.
3. Remove plastic tab covering center of stopper.
4. Sterilize top of stopper with a suitable germicide.
5. Insert needle squarely through center of stopper until tip is just visible. Invert vial and withdraw dose.
6. Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and use within 48 hours after mixing. **Protect from light.**

NDC 0009-0018-20

Single-Dose Vial.  
Discard unused portion.  
8 mL Act-0-Vial®

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**1 gram\* per vial**

For Intramuscular or Intravenous Use Only

Preservative-Free

Rx only

**Pfizer** Injectables

Single-Dose Vial.  
Discard unused portion.  
8 mL Act-0-Vial®

**Solu-Medrol®**  
(methylprednisolone sodium succinate for injection, USP)

**1 gram\* per vial**

For Intramuscular or Intravenous Use Only

Preservative-Free

**Pfizer** Injectables



3 00090 01820 7

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New York, NY 10017

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**PRINCIPAL DISPLAY PANEL - 2 grams Vial Label - 0850**

NDC 0009-0850-01

Single-Dose Vial.  
Discard unused portion.

Solu-Medrol®  
(methylprednisolone sodium  
succinate for injection, USP)

2 grams\* per vial

This Package Does Not Contain  
Diluent.  
Recommended Diluent (Bacteriostatic  
Water for Injection) Contains Benzyl  
Alcohol as a Preservative.

Rx only

**IMPRINT AREA**

LOT/EXP  
PAA133444  
(01)10300090850019  
FPO - GS1 Data Bar Truncated (RSS) - 10 mill

For Intramuscular or Intravenous Use Only  
**Store at controlled room temperature  
20° to 25°C (68° to 77°F) [see USP].  
Protect from light.**  
Reconstitute with 30 mL Bacteriostatic Water  
for Injection with Benzyl Alcohol. Store solution  
at controlled room temperature 20° to 25°C  
(68° to 77°F) [see USP] and use within 48 hours  
after mixing. **Protect from light.**  
**DOSAGE AND USE:**  
See accompanying prescribing information.  
\* Once reconstituted as directed with 30 mL of  
Bacteriostatic Water for Injection, the resultant  
solution contains methylprednisolone sodium  
succinate equivalent to 2 grams of  
methylprednisolone in 30.6 mL  
(65.4 mg per mL). Lyophilized in container.  
Reconstituted: \_\_\_\_\_  
Distributed by Pharmacia & Upjohn Co  
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NDC 0009-0850-01

**Single-Dose Vial.  
Discard unused portion.**  
**Solu-Medrol®**  
(methylprednisolone sodium  
succinate for injection, USP)  
**2 grams\* per vial**

**This Package Does Not Contain  
Diluent.  
Recommended Diluent (Bacteriostatic  
Water for Injection) Contains Benzyl  
Alcohol as a Preservative.**

**Rx only**

## PRINCIPAL DISPLAY PANEL - 2 grams Vial Carton - 0850

NDC 0009-0850-01

1 Vial  
Single-Dose Vial.  
Discard unused portion.

Solu-Medrol®  
(methylprednisolone sodium  
succinate for injection, USP)

2 grams\* per vial

For Intramuscular or Intravenous Use Only

This Package Does Not Contain Diluent.

The Recommended Diluent (Bacteriostatic Water for Injection)

Contains Benzyl Alcohol as a Preservative.

Pfizer Injectables

Rx only



## SOLU-MEDROL

methylprednisolone sodium succinate injection, powder, for solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0009-0758
<b>Route of Administration</b>	INTRAVENOUS, INTRAMUSCULAR		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
<b>METHYLPREDNISOLONE SODIUM SUCCINATE</b> (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)	METHYLPREDNISOLONE	500 mg in 1 mL

**Inactive Ingredients**

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	6.4 mg in 1 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	69.6 mg in 1 mL

**Packaging**

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0758-01	1 in 1 CARTON	04/02/1959	
1		8 mL in 1 VIAL; Type 0: Not a Combination Product		

**Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	

**SOLU-MEDROL**

methylprednisolone sodium succinate injection, powder, for solution

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0009-0698
<b>Route of Administration</b>	INTRAVENOUS, INTRAMUSCULAR		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
<b>METHYLPREDNISOLONE SODIUM SUCCINATE</b> (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)	METHYLPREDNISOLONE	1 g in 1 mL

**Inactive Ingredients**

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	12.8 mg in 1 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	139.2 mg in 1 mL

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0698-01	1 in 1 CARTON	04/02/1959	
1		16 mL in 1 VIAL; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	

## SOLU-MEDROL

methylprednisolone sodium succinate kit

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0009-0796
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## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0796-01	1 in 1 CARTON; Type 0: Not a Combination Product	04/02/1959	01/31/2021

## Quantity of Parts

Part #	Package Quantity	Total Product Quantity
Part 1	1 VIAL	30.6 mL
Part 2	1 VIAL	30.6 mL

## Part 1 of 2

### METHYLPREDNISOLONE SODIUM SUCCINATE

methylprednisolone sodium succinate injection, powder, for solution

### Product Information

Route of Administration	INTRAVENOUS, INTRAMUSCULAR
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## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>METHYLPREDNISOLONE SODIUM SUCCINATE</b> (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)	METHYLPREDNISOLONE	2 g in 30.6 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	25.6 mg in 30.6 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	278 mg in 30.6 mL

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		30.6 mL in 1 VIAL; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	01/31/2021

## Part 2 of 2

### DILUENT

water and benzyl alcohol injection, powder, for solution

### Product Information

<b>Route of Administration</b>	INTRAVENOUS
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### Inactive Ingredients

Ingredient Name	Strength
<b>WATER</b> (UNII: 059QF0KO0R)	
<b>BENZYL ALCOHOL</b> (UNII: LKG8494WBH)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		30.6 mL in 1 VIAL; Type 0: Not a Combination Product		



## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	01/31/2021

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	01/31/2021

## SOLU-MEDROL

methylprednisolone sodium succinate injection, powder, for solution

### Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0009-0039
Route of Administration	INTRAVENOUS, INTRAMUSCULAR		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>METHYLPREDNISOLONE SODIUM SUCCINATE</b> (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII: X4W7ZR7023)	METHYLPREDNISOLONE	40 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	1.6 mg in 1 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	17.46 mg in 1 mL
<b>LACTOSE MONOHYDRATE</b> (UNII: EWQ57Q8I5X)	25 mg in 1 mL

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0039-28	25 in 1 CARTON	04/02/1959	
1	NDC:0009-0039-30	1 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:0009-0039-32	25 in 1 CARTON	04/02/1959	
2	NDC:0009-0039-33	1 mL in 1 VIAL; Type 0: Not a Combination Product		

## Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
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Category	Citation	Date	Date
NDA	NDA011856	04/02/1959	

## SOLU-MEDROL

methylprednisolone sodium succinate injection, powder, for solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0009-0047
<b>Route of Administration</b>	INTRAVENOUS, INTRAMUSCULAR		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>METHYLPREDNISOLONE SODIUM SUCCINATE</b> (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)	METHYLPREDNISOLONE	125 mg in 2 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	1.6 mg in 2 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	17.4 mg in 2 mL

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0047-22	25 in 1 CARTON	04/02/1959	
1	NDC:0009-0047-25	2 mL in 1 VIAL; Type 0: Not a Combination Product		
2	NDC:0009-0047-26	25 in 1 CARTON	04/02/1959	
2	NDC:0009-0047-27	2 mL in 1 VIAL; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	

## SOLU-MEDROL

methylprednisolone sodium succinate injection, powder, for solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0009-0003	
<b>Route of Administration</b>	INTRAVENOUS, INTRAMUSCULAR			
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>	
METHYLPREDNISOLONE SODIUM SUCCINATE (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)		METHYLPREDNISOLONE	500 mg in 4 mL	
<b>Inactive Ingredients</b>				
<b>Ingredient Name</b>			<b>Strength</b>	
SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)			6.4 mg in 4 mL	
SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM (UNII: GR686LBA74)			69.6 mg in 4 mL	
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:0009-0003-02	1 in 1 CARTON	04/02/1959	
1		4 mL in 1 VIAL; Type 0: Not a Combination Product		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>	
NDA	NDA011856	04/02/1959		

## SOLU-MEDROL

methylprednisolone sodium succinate injection, powder, for solution

<b>Product Information</b>				
<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0009-0018	
<b>Route of Administration</b>	INTRAVENOUS, INTRAMUSCULAR			
<b>Active Ingredient/Active Moiety</b>				
<b>Ingredient Name</b>		<b>Basis of Strength</b>	<b>Strength</b>	
METHYLPREDNISOLONE SODIUM SUCCINATE (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)		METHYLPREDNISOLONE	1 g in 8 mL	
<b>Inactive Ingredients</b>				
<b>Ingredient Name</b>			<b>Strength</b>	

<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	12.8 mg in 8 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	139.2 mg in 8 mL

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0018-20	1 in 1 CARTON	04/02/1959	
1		8 mL in 1 VIAL; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	

## SOLU-MEDROL

methylprednisolone sodium succinate injection, powder, for solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0009-0850
<b>Route of Administration</b>	INTRAVENOUS, INTRAMUSCULAR		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>METHYLPREDNISOLONE SODIUM SUCCINATE</b> (UNII: LEC9GKY20K) (METHYLPREDNISOLONE - UNII:X4W7ZR7023)	METHYLPREDNISOLONE	2 g in 30.6 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS</b> (UNII: KH7I04HPUU)	25.6 mg in 30.6 mL
<b>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM</b> (UNII: GR686LBA74)	278 mg in 30.6 mL

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0009-0850-01	1 in 1 CARTON	12/06/2019	
1		30.6 mL in 1 VIAL; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA011856	04/02/1959	

**Labeler** - Pharmacia & Upjohn Company LLC (618054084)

## Establishment

Name	Address	ID/FEI	Business Operations
Pharmacia & Upjohn Company LLC		618054084	ANALYSIS(0009-0003, 0009-0018, 0009-0039, 0009-0047, 0009-0698, 0009-0758, 0009-0796, 0009-0850) , MANUFACTURE(0009-0003, 0009-0018, 0009-0039, 0009-0047, 0009-0698, 0009-0758, 0009-0796, 0009-0850) , API MANUFACTURE(0009-0003, 0009-0018, 0009-0039, 0009-0047, 0009-0698, 0009-0758, 0009-0796, 0009-0850) , PACK(0009-0003, 0009-0018, 0009-0039, 0009-0047, 0009-0698, 0009-0758, 0009-0796, 0009-0850) , LABEL(0009-0003, 0009-0018, 0009-0039, 0009-0047, 0009-0698, 0009-0758, 0009-0796, 0009-0850)

Revised: 6/2024

Pharmacia & Upjohn Company LLC