SOLU-CORTEF®
(hydrocortisone sodium succinate for injection, USP)
For Intravenous or Intramuscular Administration

DESCRIPTION
SOLU-CORTEF Sterile Powder is an anti-inflammatory glucocorticoid that contains hydrocortisone sodium succinate as the active ingredient. SOLU-CORTEF Sterile Powder is available in several packages for intravenous or intramuscular administration.

100 mg Plain
Vials containing hydrocortisone sodium succinate equivalent to 100 mg hydrocortisone, 0.8 mg monobasic sodium phosphate anhydrous, 8.73 mg dibasic sodium phosphate dried. SOLU-CORTEF 100 mg plain does not contain diluent (see DOSAGE AND ADMINISTRATION, Preparation of Solutions).

ACT-O-VIAL® System (Single-Dose Vial) in four strengths:

<table>
<thead>
<tr>
<th>Strength</th>
<th>100 mg</th>
<th>250 mg</th>
<th>500 mg</th>
<th>1000 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each 2 mL contains (when mixed):</td>
<td>equiv. to 100 mg Hydrocortisone</td>
<td>equiv. to 250 mg Hydrocortisone</td>
<td>equiv. to 500 mg Hydrocortisone</td>
<td>equiv. to 1000 mg Hydrocortisone</td>
</tr>
<tr>
<td>Hydrocortisone sodium succinate</td>
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<tr>
<td>Monobasic sodium phosphate anhydrous</td>
<td>0.8 mg</td>
<td>2 mg</td>
<td>4 mg</td>
<td>8 mg</td>
</tr>
<tr>
<td>Dibasic sodium phosphate dried</td>
<td>8.73 mg</td>
<td>21.8 mg</td>
<td>44 mg</td>
<td>87.32 mg</td>
</tr>
</tbody>
</table>

The diluent, as part of the packaging presentation for the ACT-O-VIAL® system, is comprised of Water for Injection only, and does not contain any preservative.

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.

The chemical name for hydrocortisone sodium succinate is pregn-4-ene-3,20-dione,21-(3-carboxy-1-oxopropoxy)-11,17-dihydroxy-, monosodium salt, (11β)- and its molecular weight is 484.52.

The structural formula is represented below:
Hydrocortisone sodium succinate is a white or nearly white, odorless, hygroscopic amorphous solid. It is very soluble in water and in alcohol, very slightly soluble in acetone, and insoluble in chloroform.

**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 anti-inflammatory effects in disorders of many organ systems.

Hydrocortisone sodium succinate has the same metabolic and anti-inflammatory actions as hydrocortisone. When given parenterally and in equimolar quantities, the two compounds are equivalent in biologic activity. The highly water-soluble sodium succinate ester of hydrocortisone permits the immediate intravenous administration of high doses of hydrocortisone in a small volume of diluent and is particularly useful where high blood levels of hydrocortisone are required rapidly. Following the intravenous injection of hydrocortisone 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.

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

**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-CORTEF 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, perennial or seasonal allergic rhinitis, 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, select 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
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-CORTEF Sterile Powder is contraindicated in systemic fungal infections and patients with known hypersensitivity to the product and its constituents.

Intramuscular corticosteroid preparations are contraindicated for idiopathic thrombocytopenic purpura. SOLU-CORTEF Sterile Powder is contraindicated for intrathecal administration. Reports of severe
medical events have been associated with this route of administration.

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

Injection of SOLU-CORTEF 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).

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

Results from one multicenter, randomized, placebo-controlled study with methylprednisolone hemisuccinate, an IV 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-CORTEF, 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 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.

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 glucocorticoid 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 reinstituted.

Infections

General

Patients who are on corticosteroids are more susceptible to infections than are healthy individuals. There may be decreased resistance and inability to localize infection when corticosteroids are used.
Infection with any pathogen (viral, bacterial, fungal, protozoan, or helminthic) in any location of the body may be associated with the use of corticosteroids alone or in combination with other immunosuppressive agents.

These infections may be mild, but can be severe and at times fatal. With increasing doses of corticosteroids, the rate of occurrence of infectious complications increases. Corticosteroids may also mask some signs of current infection. Do not use intra-articularly, intrabursally, or for intratendinous administration for local effect in the presence of acute local infection.

Fungal infections

Corticosteroids may exacerbate systemic fungal infections and therefore should not be used in the presence of such infections unless they are needed to control drug reactions. 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).

Special pathogens

Latent disease may be activated or there may be an exacerbation of intercurrent infections due to pathogens, including those caused by Amoeba, Candida, Cryptococcus, Mycobacterium, Nocardia, Pneumocystis, and Toxoplasma.

It is recommended that latent amebiasis or active amebiasis be ruled out before initiating corticosteroid therapy in any patient who has spent time in the tropics or in any patient with unexplained diarrhea.

Similarly, corticosteroids 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.

Corticosteroids should not be used in cerebral malaria. There is currently no evidence of benefit from steroids in this condition.

Tuberculosis

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

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

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 cannot be predicted. Immunization procedures may be undertaken in patients who are receiving corticosteroids as replacement therapy (e.g., for Addison's disease).

Viral infections

Chicken pox and measles can have a more serious or even fatal course in pediatric and adult patients on corticosteroids. In pediatric and adult patients who have not had these diseases, particular care should be taken to avoid exposure. The contribution of the underlying disease and/or prior corticosteroid treatment to the risk is not known. If exposed to chicken pox, prophylaxis with varicella zoster immune globulin (VZIG) may be indicated. If exposed to measles, prophylaxis with immunoglobulin (IG) may be
indicated. (See the respective package inserts for complete VZIG and IG prescribing information.) If chicken pox develops, treatment with antiviral agents should be considered.

Neurologic
Reports of severe medical events have been associated with the intrathecal route of administration (see ADVERSE REACTIONS, 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.

PRECAUTIONS

General
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.

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.

Cardio-renal
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 reinstituted. 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 non-specific 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 (e.g., 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**

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. Elevation 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.

**Other**

Pheochromocytoma crisis, which can be fatal, has been reported after administration of systemic corticosteroids. In patients with suspected pheochromocytoma, consider the risk of pheochromocytoma crisis prior to administering corticosteroids.

**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 (e.g., 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 PRECAUTIONS: 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 that 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 that 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 drugs (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: Infections, 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.

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

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.

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-CORTEF 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.

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), epidural lipomatosis.

Ophthalmic: Central serous chorioretinopathy, exophthalmoses, glaucoma, increased intraocular
**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**

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

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.

Therapy is initiated by administering SOLU-CORTEF Sterile Powder intravenously over a period of 30 seconds (e.g., 100 mg) to 10 minutes (e.g., 500 mg or more). In general, high dose corticosteroid therapy should be continued only until the patient's condition has stabilized, usually not beyond 48 to 72 hours. When high dose hydrocortisone therapy must be continued beyond 48–72 hours, hypernatremia may occur. Under such circumstances, it may be desirable to replace SOLU-CORTEF with a corticoid such as methylprednisolone sodium succinate which causes little or no sodium retention.

The initial dose of SOLU-CORTEF Sterile Powder is 100 mg to 500 mg, depending on the specific disease entity being treated. However, in certain overwhelming, acute, life-threatening situations, administration in dosages exceeding the usual dosages may be justified and may be in multiples of the oral dosages.

This dose may be repeated at intervals of 2, 4, or 6 hours as indicated by the patient's response and clinical condition.

*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 that maintains an adequate clinical response is reached. Situations that 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.

In pediatric patients, the initial dose of hydrocortisone may vary depending on the specific disease entity being treated. The range of initial doses is 0.56 to 8 mg/kg/day in three or four divided doses (20 to 240 mg/m²bsa/day). 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.

**Preparation of Solutions**

100 mg Plain

For intravenous or intramuscular injection, prepare solution by aseptically adding **not more than 2 mL** of Bacteriostatic Water for Injection or Bacteriostatic Sodium Chloride Injection to the contents of one vial. **For intravenous infusion**, first prepare solution by adding **not more than 2 mL** of Bacteriostatic Water for Injection to the vial; this solution may then be added to 100 to 1000 mL of the following: 5% dextrose in water (or isotonic saline solution or 5% dextrose in isotonic saline solution if patient is not on sodium restriction).

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.

**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.

Further dilution is not necessary for intravenous or intramuscular injection. For intravenous infusion, first prepare solution as just described. The **100 mg** solution may then be added to 100 to 1000 mL of 5% dextrose in water (or isotonic saline solution or 5% dextrose in isotonic saline solution if patient is not on sodium restriction). The **250 mg** solution may be added to 250 to 1000 mL, the **500 mg** solution may be added to 500 to 1000 mL, and the **1000 mg** solution to 1000 mL of the same diluents. In cases where administration of a small volume of fluid is desirable, 100 mg to 3000 mg of SOLU-CORTEF may be added to 50 mL of the above diluents. The resulting solutions are stable for at least 4 hours and may be administered either directly or by IV piggyback.

When reconstituted as directed, pH's of the solutions range from 7 to 8 and the tonicities are: 100 mg ACT-O-VIAL, 0.36 osmolar; 250 mg ACT-O-VIAL, 500 mg ACT-O-VIAL, and 1000 mg ACT-O-VIAL, 0.57 osmolar. (Isotonic saline=0.28 osmolar.)

**HOW SUPPLIED**
SOLU-CORTEF Sterile Powder is available in the following packages:

100 mg Plain—NDC 0009-0825-01
100 mg ACT-O-VIAL (Single-Dose Vial) 250 mg ACT-O-VIAL (Single-Dose Vial)
   2 mL—NDC 0009-0011-03 2 mL—NDC 0009-0013-05
25 × 2 mL—NDC 0009-0011-04 25 × 2 mL—NDC 0009-0013-06
500 mg ACT-O-VIAL (Single-Dose Vial)—NDC 0009-0016-12
1000 mg ACT-O-VIAL (Single-Dose Vial)—NDC 0009-0005-01

STORAGE CONDITIONS
Store unreconstituted product at controlled room temperature 20° to 25°C (68° to 77°F).
Store solution at controlled room temperature 20° to 25°C (68° to 77°F) and protect from light. Use solution only if it is clear. Unused solution should be discarded after 3 days.

This product's label may have been updated. For current full prescribing information please visit www.pfizer.com

PRINCIPAL DISPLAY PANEL - 100 mg Vial Label
NDC 0009-0825-01
Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)
100 mg*
For IM or IV use
Preservative-Free
Rx only
Reconstituted ________________
Distributed by Pharmacia & Upjohn Co
Division of Pfizer Inc, NY, NY 10017

PRINCIPAL DISPLAY PANEL - 100 mg Vial Carton

NDC 0009-0825-01

1 Vial

Solu-Cortef®
(hydrocortisone
sodium succinate
for injection, USP)

100 mg*

For intramuscular or intravenous use
Preservative-Free
Rx only

Pfizer Injectables
Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)

100 mg*
For Intramuscular or Intravenous use
Preservative-Free

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

Dosage and Use:
See accompanying prescribing information.
Usual adult dose: 100 mg repeated as necessary. Dissolve in not more than 2 mL to form a solution. Use solution only if it is clear. Discard solution after three days. Protect solution from light.

Each vial contains hydrocortisone sodium succinate equivalent to 100 mg of hydrocortisone. Also contains monobasic sodium phosphate anhydrous, 0.6 mg; dibasic sodium phosphate dried, 8.73 mg. When necessary, pH was adjusted with sodium hydroxide. Lyophilized in container.

Distributed by Pfizer Inc
NY, NY 10017

NDC 0009-0825-01

1 mL Act-O-Vial®
NDC 0009-0011-03

Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)

100 mg*

For IM or IV use
Preservative-Free
Rx only

PRINCIPAL DISPLAY PANEL - 100 mg Single-Dose Vial Carton

NDC 0009-0011-04
Contains 25 of NDC 0009-0011-03

25–2 mL Act-O-Vial® Systems
Single-Dose Vials

Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)

100 mg*

For intramuscular or intravenous use

Preservative-Free

Pfizer Injectables
Rx only
PRINCIPAL DISPLAY PANEL - 250 mg Single-Dose Vial Label

Single-Dose Vial
2 mL Act-O-Vial®
NDC 0009-0013-05

Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)

250 mg*

For IM or IV use
Preservative-Free
Rx only
PRINCIPAL DISPLAY PANEL - 250 mg Single-Dose Vial Carton

NDC 0009-0013-05

Single-Dose Vial
2 mL Act-O-Vial®

Solu-Cortef®
(hydrocortisone
sodium succinate
for injection, USP)

250 mg*

For intramuscular or
intravenous use

Preservative-Free

Rx only

Pfizer Injectables
Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)
500 mg*
For intramuscular or intravenous use
Preservative-Free
Rx only

PRINCIPAL DISPLAY PANEL - 500 mg Single-Dose Vial Carton
NDC 0009-0016-12
Single-Dose Vial
4 mL Act-O-Vial®
Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)
500 mg*
For intramuscular or intravenous use
Preservative-Free
Rx only
Pfizer Injectables
Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)
500 mg*
For intramuscular or intravenous use
Preservative-Free

Pfizer Injectables

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

DOSAGE AND USE:
See accompanying prescribing information.
Usual adult dose: 250 mg repeated as necessary.

* Each 4 mL (when mixed) contains
hydrocortisone sodium succinate
equivalent to 500 mg of hydrocortisone.

Distributing by
Pharmacia & Upjohn Co
Division of Pfizer Inc,
NY, NY, 10017

IMPRINT AREA
READS THIS WAY
NO VARNISH
NO INK
NO COPY

PRINCIPAL DISPLAY PANEL - 1000 mg Single-Dose Vial Label
Single-Dose Vial
8 mL Act-O-Vial®
NDC 0009-0005-01

Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)

1000 mg*
For IM or IV use
Preservative-Free
Rx only

PRINCIPAL DISPLAY PANEL - 1000 mg Single-Dose Vial Carton
NDC 0009-0005-01

Single-Dose Vial
8 mL Act-O-Vial®

Solu-Cortef®
(hydrocortisone sodium succinate for injection, USP)

1000 mg*
For intramuscular or intravenous use
Preservative-Free
Rx only

Pfizer Injectables
SOLU-CORTEF
hydrocortisone sodium succinate injection, powder, for solution
### Product Information

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Route of Administration</th>
<th>Item Code (Source)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMAN PRESCRIPTION DRUG</td>
<td>INTRAMUSCULAR, INTRAVENOUS</td>
<td>NDC:0009-0825</td>
</tr>
</tbody>
</table>

### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCORTISONE SODIUM SUCCINATE (UNII: 50LQB69S1Z) (HYDROCORTISONE - UNIEW4MX0X7BJ)</td>
<td>HYDROCORTISONE</td>
<td>100 mg in 2 mL</td>
</tr>
</tbody>
</table>

### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)</td>
<td>0.8 mg in 2 mL</td>
</tr>
<tr>
<td>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM (UNII: GR686LBA74)</td>
<td>8.73 mg in 2 mL</td>
</tr>
</tbody>
</table>

### Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0009-0825-01</td>
<td>1 in 1 CARTON</td>
<td>04/27/1955</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>2 mL in 1 VIAL; Type 0: Not a Combination Product</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Marketing Information

<table>
<thead>
<tr>
<th>Marketing Category</th>
<th>Application Number or Monograph Citation</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
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</thead>
<tbody>
<tr>
<td>NDA</td>
<td>NDA009866</td>
<td>04/27/1955</td>
<td></td>
</tr>
</tbody>
</table>

### SOLU-CORTEF

**hydrocortisone sodium succinate injection, powder, for solution**

### Product Information

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<tr>
<th>Product Type</th>
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<tbody>
<tr>
<td>HUMAN PRESCRIPTION DRUG</td>
<td>INTRAMUSCULAR, INTRAVENOUS</td>
<td>NDC:0009-0011</td>
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</tbody>
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### Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCORTISONE SODIUM SUCCINATE (UNII: 50LQB69S1Z) (HYDROCORTISONE - UNIEW4MX0X7BJ)</td>
<td>HYDROCORTISONE</td>
<td>100 mg in 2 mL</td>
</tr>
</tbody>
</table>

### Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
</table>

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**Note:** The document contains detailed information about the product, including its active and inactive ingredients, route of administration, and packaging details.
SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU) 0.8 mg in 2 mL
SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM (UNII: GR686LBA74) 8.73 mg in 2 mL

Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
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<th>Marketing End Date</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0009-0011-04</td>
<td>25 in 1 CARTON</td>
<td>04/27/1955</td>
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</tr>
<tr>
<td>1</td>
<td>NDC:0009-0011-03</td>
<td>2 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Marketing Information

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SOLU-CORTEF
hydrocortisone sodium succinate injection, powder, for solution

Product Information

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<tr>
<td>Route of Administration</td>
<td>INTRAMUSCULAR, INTRAVENOUS</td>
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<td></td>
<td></td>
<td>NDC:0009-0013</td>
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Active Ingredient/Active Moiety

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<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCORTISONE SODIUM SUCCINATE (UNII: 50LQB69S1Z)</td>
<td>HYDROCORTISONE</td>
<td>250 mg in 2 mL</td>
</tr>
<tr>
<td>(HYDROCORTISONE - UNII:WHX0X7BPJ)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)</td>
<td>2 mg in 2 mL</td>
</tr>
<tr>
<td>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM (UNII: GR686LBA74)</td>
<td>21.8 mg in 2 mL</td>
</tr>
</tbody>
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Packaging

<table>
<thead>
<tr>
<th>#</th>
<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0009-0013-05</td>
<td>1 in 1 CARTON</td>
<td>04/27/1955</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>NDC:0009-0013-06</td>
<td>2 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>NDC:0009-0013-06</td>
<td>25 in 1 PACKAGE</td>
<td>04/27/1955</td>
<td></td>
</tr>
</tbody>
</table>
SOLU-CORTEF
hydrocortisone sodium succinate injection, powder, for solution

Product Information

Product Type: HUMAN PRESCRIPTION DRUG
Route of Administration: INTRAMUSCULAR, INTRAVENOUS

Active Ingredient/Active Moiety

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCORTISONE SODIUM SUCCINATE (UNII: 50LQB69S1Z) (HYDROCORTISONE - UNIEW4X0X7BPJ)</td>
<td>HYDROCORTISONE</td>
<td>500 mg in 4 mL</td>
</tr>
</tbody>
</table>

Inactive Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)</td>
<td>4 mg in 4 mL</td>
</tr>
<tr>
<td>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM (UNII: GR686LBA74)</td>
<td>44 mg in 4 mL</td>
</tr>
</tbody>
</table>

Packaging

<table>
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<tr>
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<th>Item Code</th>
<th>Package Description</th>
<th>Marketing Start Date</th>
<th>Marketing End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NDC:0009-0016-12</td>
<td>1 in 1 CARTON</td>
<td>04/27/1955</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>4 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product</td>
<td></td>
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</tr>
</tbody>
</table>

SOLU-CORTEF
hydrocortisone sodium succinate injection, powder, for solution
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<tr>
<td>Route of Administration</td>
<td>INTRAMUSCULAR, INTRAVENOUS</td>
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<tr>
<td>Item Code (Source)</td>
<td>NDC:0009-0005</td>
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## Active Ingredient/Active Moiety

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<th>Ingredient Name</th>
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<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCORTISONE SODIUM SUCCINATE (UNII: 50LQB69S1Z) (HYDROCORTISONE - UNIEW4X0X7BPJ)</td>
<td>HYDROCORTISONE</td>
<td>1000 mg in 8 mL</td>
</tr>
</tbody>
</table>

## Inactive Ingredients

<table>
<thead>
<tr>
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<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS (UNII: KH7I04HPUU)</td>
<td>8 mg in 8 mL</td>
</tr>
<tr>
<td>SODIUM PHOSPHATE, DIBASIC, UNSPECIFIED FORM (UNII: GR686LBA74)</td>
<td>87.32 mg in 8 mL</td>
</tr>
</tbody>
</table>

## Packaging

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<tr>
<td>1</td>
<td>NDC:0009-0005-01</td>
<td>1 in 1 CARTON</td>
<td>04/27/1955</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>8 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product</td>
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<td>04/27/1955</td>
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</tbody>
</table>

## Labeler

Pharmacia and Upjohn Company LLC (618054084)

## Establishment

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>ID/FEI</th>
<th>Business Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacia and Upjohn Company LLC</td>
<td>618054084</td>
<td>ANALYSIS(0009-0005, 0009-0011, 0009-0013, 0009-0016, 0009-0825), API MANUFACTURE(0009-0005, 0009-0011, 0009-0013, 0009-0016, 0009-0825), LABEL(0009-0005, 0009-0011, 0009-0013, 0009-0016, 0009-0825), MANUFACTURE(0009-0005, 0009-0011, 0009-0013, 0009-0016, 0009-0825), PACK(0009-0005, 0009-0011, 0009-0013, 0009-0016, 0009-0825)</td>
<td></td>
</tr>
</tbody>
</table>

Revised: 12/2019