Package Leaflet: Information for the patient

METHYLPREDNISOLONE 500 MG POWDER AND SOLVENT FOR SOLUTION FOR INJECTION/INFUSION METHYLPREDNISOLONE 1000 MG POWDER AND SOLVENT FOR SOLUTION FOR INJECTION/INFUSION

Read all of this leaflet carefully before you start taking this medicin because it contains important information for you • Keep this leaflet. You may need to

- read it again

 If you have any further questions please ask your doctor or pharma This medicine has been prescribed for you. Do not pass it on to others. It may harm them even if their signs of
- illness are the same as yours
 If you get any side effects, talk to
 your doctor or pharmacist. This your doctor or pharmacist. This includes any side effects not listed in this leaflet.

What is in this leaflet:

what it is used for

2. What you need to know before you are given Methylprednisolone

3. How Methylprednisolone is given to

you 4. Possible side effects 5. How to store Methylprednisolone 6. Contents of the pack and other

WHAT METHYLPREDNISOLONE IS AND WHAT IT IS USED FOR

WMATITISUSED FOR Methylprednisolone contains methylprednisolone sodium succinate. Methylprednisolone belongs to a group of medicines called corticosteroids (steroids). Corticosteroids are produced naturally in your body and are important for many body functions.

important for many body function Boosting your body with extra corticosteroid such as Methylprednisolone can help follo surgery (e.g. organ transplants), ups of the symptoms of multiple sclerosis or other stressful condit

These include inflammatory or allergic conditions affecting the:

• brain caused by a tumour or

- . bowel and gut e.g. 'Crohn's disease'
- and 'ulcerative colitis'

 lungs caused by asthma, severe allergy or hypersensitivity, tuberculosis or breathing in (aspirating) world or stomach contents
- skin e.g. Stevens-Johnson

Methylprednisolone may be prescribed to treat conditions other than those listed above. Ask your doctor if you are unsure why you have been given this modified.

2. WHAT YOU NEED TO KNOW BEFORE YOU ARE GIVEN METHYLPREDNISOLONE

Do not use Methylprednisolone if: • you think you have ever suffered an allergic reaction, or any other type of

Do not use Methypredisionone if:

"you think you have ever suffered an
allergic reaction, or any other type of
reaction are trieging you've
Methypredisione, or any other
medicine containing a corticosteroid or
any of the ingredients in this medicine
(section) are of this interest contains a list
of ingredients), An allergic reaction may
cause a skin rash or reddening, sweller
face or lips or shortness of breath

"you have any finangal infection (such
as thresh), other than on the skin
which is not being treated

- which is not being treated

 you have recently had, or are about to have any vaccination

You must tell your doctor before you take this medicine if you have any of the following conditions.

Your doctor may have to monitor your treatment more closely, alter your dose or give you another medicine.

- Chickenpox, measles, shingles or a herpes eye infection. If you think you have been in contact with someone with chickenpox, measles or shingles and you have not already or shingles and you have not aiready had these illnesses, or if you are unsure if you had them. If you are not immune or you are a parent of a child receiving this medicine, avoid close contact with anyone with these infections. Seek medical advice if infections. Seek medical advice if you think you have been exposed to one of these infections or if a member of your household develops one of them. Heart failure for which you are being treated with digoxin.

 Worm infestation (e.g. threadworm)
- Worm infestation (e.g. threadworm)
 Severe depression or manic depression (bloolar disorder). This includes having had depression before while taking steroid medicines like Methylprednisolone, or having a family history of these illnesses or problems such as delusions, hallucinations or disorganised speech alter taking steroids
- speech after taking steroids
 Diabetes (or if there is a family
- methylprednisolone.

 Epilepsy, fits or seizures Glaucoma (increased pressure in the eye) or if there is a family history of glaucoma
- You have recently suffered a heart attack

Methylprednisolone sodium succinate

- Heart problems, including heart failure or infections
- Hypertension (high blood pressure)
 Hypothyroidism (an under-active thyroid)
- Joint infection
 Kaposi's sarcoma (a type of skin
- cancer)
 Kidney or liver disease
- cinical
 Muscle problems (pain or
 weakiness) have happened white
 weakiness) have happened white
 weakiness) have happened white
 Mysathenia gravis (a condition
 causing fired and weak muscles) or
 you are a women who has gone
 through the menopause
 Skin abscess
 Skinnach uter, diverticultis
 (inflammation of the boxel wall or
 other serious stomach or intestinal
 problems
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- and tender veins)

 Tuberculosis (TB) or if you have suffered tuberculosis in the past.

 Unusual stress

 Cushing's disease (condition caused by an excass of cortisol hormone in your body)

 Acute pancreatitis (inflammation the pancreas).

You must tell your doctor before you take this medicine if you have any of the conditions listed above.

Other medicines and Methylprednisolone

Always tell your doctor or pharmacist if you are taking any other medicines (including any you have bought without a prescription) as taking Methylorednisolone with other medicines could be harmful.

You should tell your doctor if you are taking any of the following medicines which can affect the way Methylprednisolone or other medicines works:

- Acetazolamide used to treat glaucoma, epilepsy and water retention
- retention

 Aminoglutethimide or
 Cyclophosphamide used for
 treating cancer

 Anticoagulants used to 'thin' the
 blood such as acenococoumarol,
 phenindione and warfarin

 Anticholinesterases used to treat
- myasthenia gravis (a muscle condition) such as distigmine and neostigmine

 • Antibiotics (such as erythromycin,
- Antivotics (such as eryfhromycin, clarithromycin or troleandomycin)
 Antidiabetics medicines used to treat high blood sugar. If you have diabetes, you may need to check your blood sugar more closely wher using methylprednisolone
- using methylprednisolone

 Antihypertensives medicines
 used to treat high blood pressure

 Aprepitant and Fosaprepitant
 used to prevent nausea and vomiting

 Aspirin and non-steroidal antiinflammatory medicines (also called
 NSAIDs) such as ibuprofen.
- In have any vaccination

 you are suffering from, or receiving beatment for relating the substitution of the substitution of
 - indigestion

 Ciclosporin used to treat conditions such as severe rheumatoid arthritis, severe psoriasis or following an organ or bone marrow transplant

 - marrow transplant

 Digoxin used for heart failure and/or irregular heart beat

 Dittiazem or mibefradil used for heart problems or high blood
 - pressure

 Ethinylestradiol and norethisterone an oral

 - norethisterone an oral contraceptive
 Isoniazid used to treat bacterial infections
 Ketoconazole or itraconazole used to treat fungal infections
 Mifepristone used for the medical termination of pregnancy
 Pancuronium or vercuronium other medicines called
 - other medicines called neuromuscular blocking agents which are used in some surgical
 - as diuretics (sometimes called water tablets), amphotericin B, xanthenes or beta2 agonists (e.g. medicines to treat asthma)

 - carrial review of the state and the state of the state of
 - cobicistat). Vaccines tell your doctor or nurse if you have recently had, or about to have any vaccination. You should not have 'live' vaccines while using this medicine.

Other vaccines may be less effective. If you are taking long term medication(s)

medication(s)
If you are being treated for diabetes, high blood pressure or water retention (cedema) tell your doctor as he/she may need to adjust the dose of the medicine used to treat these conditions.

Before you have any operation to your doctor, dentist or anaesthetist to you are being treated with Methylprednisolone.

If you require a test to be carried out by your doctor or in hospital it is important that you tell the doctor or nurse that you are taking Methylprednisolone as this medicine could affect the test results.

Pregnancy and breast-feeding
You must tell your doctor if you are
pregnant, think you might be pregna
or are trying to become pregnant as
this medicine could slow the baby's

Cataracts have been observed in Cataracts have been observed in infants born to mothers undergoing long-term treatment with corticosteroi during pregnancy. Tell your doctor if you are breast-feeding as small amounts of corticosteroid medicines may get into breast milk.

Methylprednisolone contains

Methylprednisotione communications and a medicine contains 1.6 mmol (37.2 mg) of sodium in each 500mg vial of methylprednisotione and 3.2 mmol (74.4 mg) of sodium in each 1000mg vial of methylprednisotione. If you are on a controlled sodium (asit) det tell your doctor in case your sodium in take needs to be adjusted.

3. HOW METHYLPREDNISOLONE IS GIVEN TO YOU

Steroid Cards Remember to always carry a Steroid Treatment Card. Make sure your doctor or pharmacist has filled out the details of your medicine, including the dose and how long you will require steroid treatment.

You should show your steroid card to anyone who gives you treatment (such as a doctor, nurse or dentist) while you are taking this medicine, and for 3 months after your last injection.

If you are admitted to hospital for any reason always tell your doctor or nurs that you are taking Methylprednisolon You can also wear a medic-alert had call also wear a medic-alert bracelet or pendant to let medical staff know that you are taking a steroid if you have an accident or become unconscious.

unconscious.

Dosage information

Your doctor will decide on the site of injection, how many injections you will receive depending on the condition being treated and its severity. Your doctor will inject the lowest dose for the shortest possible time to get effective relief of your symptoms.

when the properties of the pro

Elderly
Treatment will normally be the same as for younger adults. However your doctor may want to see you more regularly to check how you are getting on with this medicine.

Children

Children
Corticosteroids can affect growth in
children so your doctor will prescribe
the lowest dose that will be effective for

Do not drink grapefruit juice while being treated with Methylprednisolone.

If you are given more Methylprednisolone than you should If you think you have been given too many injections please speak to your doctor immediately.

Stopping/reducing the dose of your Methylprednisolone Your doctor will decide a suitable time

- Your doctor will decide a suitable time to stop treatment. If you will need to come off this treatment slowly if you:

 have had repeated doses of controsteroid for more than 3 weeks

 have been given high doses of Methylpredisciption, over 32 mg daily, even if it is only for 3 weeks or less already had a course of controsteroid tablets or injections in the last veer.
- corticosteroid tablets or injections in the last year

 already had problems with your adrenal glands (adrenocortical insufficiory) before you started this treatment.



≽< ····· Information for the Healthcare Professional

Professional Methylprednisolone 500mg & 1000mg powder and solvent for solution for injection/infusion

Characteristics.

Presentation: Each vial of powder contains the equivalent of either 500mg or 1000mg of methylprechisolone as the sodium succinate salt. The 500mg vials come with an ampoule containing 7.8ml of water for injections. The .cmi of water for injections. The 1000mg vials come with a vial 1000mg tontaining 15.6ml of water for injections Therapeutic Indications
Treatment of any condition in which rapid and intense corticosteroid effect is required.

Dosage and Method of

Methylprednisolone may be administered i.v. or i.m. For emergency use the preferred method is i.v. injection; doses above 250mg should

Methylpredrisolone may be administed iv. or im. For emergency use the preferred method is iv. injection, doses above 256mg should be used to the preferred method is iv. injection, doses above 256mg should be given over at least 5 minutes. Subsequent doses may be given iv. or im. at intervals dictated by the patients response and childral condition. Corticosteroid therapy is an adjunct b, and not replacement for, convenional therapy. Decision of method is the properties of the preferred interval the properties of the previous decision of the

the condition, up to 1g/day for graft

You will need to come off this medicine slowly to avoid withdrawal symptoms. These symptoms may include lichly skin, fever, muscle and joint pains, runny nose, sticky eyes, sweating and weight loss.

reduced tell your doctor immediately. Mental health problems while taking Methylprednisolone Mental health problems can happen while taking steroids like Methylprednisolone (see also section 4, Possible Side Effects). * These illnesses can be serious * Usually they start within a few days or weeks of starting the medicine * They are more likely to happen at

- They are more likely to happen at
- high doses

 Most of these problems go away if the dose is lowered or the medicine is stopped. However, if the problems do happen they might need treatment.

Talk to a doctor if you (or someone using this medicine) show any signs of mental problems. This is particularly important if you are depressed, or mental problems. This is particularly important if you are depressed, or might be thinking about suicides. In a few crases mental problems have happened when doses are being lovered or stopped. If you have any further questions on the use of this medicine, ask your doctor or pharmacals.

If you have any further questions on the use of this medicine, ask your doctor or pharmacals.

It was all medicines, this medicine can cause side-effects, although not everybody gets them. Your doctor will have given you this medicine for a large given you this problems.

4. Possible side effects

could become serious.

In certain medical conditions medicines like Methylprednisolone (steroids) should not be stopped abruptly. If you suffer from any of the following symptoms seek IMMEDIATE medical attention. Your doctor will then decide whether you should continue taking your medicine:

- Allergic reactions such as skin rash, swelling of the face or wheezing and difficulty breathing. This type of side effect is rare, but can be serious Pancreatitis, stomach pain spreading to your back, possibly accompanied by vomiting, shock and loss of consciousness
- loss of consciousness
 Burst or bleeding ulcers,
 symptoms of which are stomach pai
 (especially if it seems to spread to
 your back), bleeding from the back
 passage, black or bloodstained
 stools and/or womiting blood
 Infections. This medicine can hide
- metablosis has signs and symphomics of some infections, or reduce your resistance to the infection, so that they are hard to diagnose at an early stage. Symptoms might include a reased temperature and feeling a make the size of the si or change the signs and symptoms
- sharp chest pain, breathlessness and coupling up blood of Raised pressure within the skull of children (pseudoumc creater) symptoms of which are headsches with ventiling, lack of energy and drowsiness. This side-effect usually occurs after readment is subpred in Thromosphile Blood colors or thromotosis in a leg vein), symptoms of which include partial swollen, red and kender veins.

If you experience any of the following side effects, or notice any other unusual effects not mentioned in this leaflet, tell your doctor straight away.

common: affects 1 to 10 users in 100 not known: frequency cannot be estimated from the available data.

Blood, heart and circulation

- which are headaches, or generally feeling unwell.
 not known

 Problems with the pumping of your heart (heart failure) symptoms of
 which are swollen ankles, difficulty in
 breathing and palpitations
- breathing and palpitations (awareness of heart beat) or irregular or very fast or slow pulse Low blood pressure symptoms may include dizziness, fainting, light-headedness, blurred vision, a rapid, or irregular heartbeat (palpitations), general weakness
- general weakness

 Increased numbers of white blood cells (leucocytisis)

 Increased clotting of the blood.
- Body water and salts

- and salt content.

 not known

 Cramps and spasms, due to the loss of potassium from your body. In rare cases this can lead to congestive heart failure (when the heart cannot pump properly).

 Digestive system common

- Nausea (feeling sick) or vomiting (being sick)
 Diarrhoea
 Thrush in the guillet (discomfort when gualifaction)
- swallowing)
 Indigestion
 Bloated stor

- Abdominal pain
 Hiccups.

 Ears
 not known
 A feeling of dizziness or spinning
- (vertigo). Eyes common

- infections
 Protruding of the eyeballs
 (exophthalmos)
 Disease of the retina and choroid
 membrane.
 General disorders
 common
- Poor wound healing.
 not known
- not known

 Feeling tired or unwell

 Skin reactions at the site of injection.

 Hormones and metabolic system
- Hormones and metabolic system common

 Slowing of normal growth in infants, children and adolescents which may be permanent
 Round or moon-shaped face (Cushingoid facies).
- Irregular or no periods in women
- Increased appetite and weight gain
 Diabetes or worsening of existing diabetes
- Diabetes or worsering of existing diabetes
 Priolonged therapy can lead to lower levels of some hormones which in turn can cause low blood pressure and dizziness. This effect may presist for morbits
 The amount of certain chemicals (enzymes) called transamirassis (enzymes) called transamirassis (enzymes) called transamirassis procytabetes that help the body digest drugs and other subclarous in your body may be raised after treatment with a corticosteroid. The change is usually small and the enzyme levels return to normal after your modicine has Geidern diarulary from your system. You will not notice any symptoms if this happense, but if his happense happense.
- from your system. You will not notice any symptoms if this happens, but it will show up if you have a blood test.

 A disorder causing accumulation of fat tissue on local parts of the body (lipomatosis).

 Immune system common

- Increased susceptibility to infections.
 not known Suppression of reactions to skin tests, such as that for tuberculosis Liver not known
- Methylprednisolone can damage your liver, hepatitis and increase of liver enzymes have been reported.

 Muscle and bone issues

- Muscle and bone issues common

 Britle bones (bones break easily)

 Muscle weakness.

 Muscle weakness.

 Muscle weakness.

 Muscle weakness

 Tom muscle tendons causing pain and/or swelling

 Muscle carmos or spasms.

Muscle cramps or spasms.
 Nerves and mood issues

common
Steroids including methylprednisolone
can cause serious health problems.
These are common in both adults and
children. They can affect about 5 in
every 100 people taking medicines like
methylprednisolone.

- methylprednisolone.

 Feeling depressed

 Feeling high (mania), or moods that
 go up and down

 Feeling anxious, having problems
 steeping, difficulty in thinking or
 being confused and losing your
 memory
- Feeling, seeing or hearing things which do not exist. Having strange and frightening thoughts, changing how you act or having feelings of being alone.

 Skin
 common

Acne
 Bruising

- . Thinning of skin (skin atrophy).
- Thinning of skin (skin atrophy). not known
 Structh marks (skin striae)
 Small purpleired patches on the skin
 Pale or darker patches on your skin, or raised patches which are unusual colour
 Excessive growth of bodily and facial hair
- hair Rash, itching, hives
- Increased sweating.
 Additionally the tearing of heart muscles has been observed in patients taking methylprednisolone following a heart attack.

Withdrawal symptoms
A 'withdrawal syndrome' may occur, see Section 3 for more information

If you experience any of the side effects listed above tell your docto straight away.

Reporting of side effects If you get any side effects, talk to your doctor or nurse. This includes any possible side effects not listed in this leaflet.

you can also report side effects direct (see details below). By reporting side effects you can help provide more information on the safety of this medicine.

United Kingdom
Report any unwanted side-effects via the Yellow Card Scheme at: www.mhra.gov.uk/yellowcard.

www.mina.gov.uk/yellowcard.
Ireland
Reports may be made to HPRA
Pharmacovigilance, Earlsfort Centre,
Earlsfort Terace, (RL - Dublin 2
Tel: +353 1 6764971; Fax: +353 1
6762517
Website: www.hpra.ie;
E-mail: medsafety@hpra.ie.

5. How to store Methylprednisolone

This medicine must not be used after the expiry date shown on the packaging. The expiry date refers to the last day of the month.

the last day of the month. Keep vials/ampoules in the outer carlon to protect from light. The doctor or pharmacist will keep the medicine in a safe place where children cannot reach or see it. The reconstituted methylprednisolone solution and water for injections should be used immediately and any remainder discarded.

Your doctor or nurse will ensure that your medicine is used and disposed of

6. CONTENTS OF THE PACK AND OTHER INFORMATION

What Methylprednisolone powder for solution for injection/infusion

contains
This medicine contains
methylprednisolone sodium succinate
as the active ingredient:

Methylprednisolone 500mg powder and solvent for solution for injection infusion: injection/infusion:
Each vial of powder contains 663mg
methylprednisolone sodium succinate
(equivalent to 500mg
methylprednisolone).
Each ampoule of solvent contains
7.8ml of water for injections.

Methylprednisolone 1000mg powder and solvent for solution for

and solvent for solution for implication/instance. Each visi of powder contains 1326mg Each visi of powder condains successful equivalent to 1000mg methylgrednisotions). Each visi of solvent contains 15 dimit water for injections. Methylgrednisotion powder for solution for injections in the injection of the inj

Injections.

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≽<----> In graft rejection reactions following transplantation doses of up to 1000mg per day have been used to suppress rejection crises, with 500mg to 1000mg most commonly used for acute

most commonly used for audie rejection. Refer to the Summary of Product Characteristics for the suggested dosage schedules for odelmas due to brain tumour. In the treatment of acute exacerbations of multiple schemosis in adults, the recommended dose is 1000ing daily for 3 des, given as in It reflacion vote it sensitives of the schemosis in adults, the recommended dose is 1000ing daily for a design daily in the schemosis of the

For graft rejection reactions following transplantation, 10 to 20mg/kg/day for up to 3 days, to a maximum of 1 g/day, is recommended.

up to 3 days, to a maximum of 1 platy, is recommended.
In the treatment of status sathmaticus, in the treatment of status sathmaticus, in the treatment of the 3 days is recommended.
Elderly: Methylpredisiolone is primarily used in each short term conditions. Treatment should consider the more sersious consequences of the more sersion consequences of the more sersion is required.
Pharmaceutical information:
Contains sodium phosphate as buffer. The powder should be reconstituted in the water for injections supplied. After each mild in solution contains the equivalent of \$3.6 mg of Methylpredisiolosione. The reconstituted solution may be diluted

with 5% destrose in water, soboric saline solution, or 5% destrose in isotoric saline solution, To 34% destrose in isotoric saline solution. To avoid drugs the reconstitute oblition should be administered separately, only in the dilusers mentioned. Storage Precautions: Keep visidiamprose in the outler carron to protect from light. Nature of Container: Type I galas wisis with budy nabble stopper and aluminum lip-cap. Container: Type I galas wisis with budy nabble stopper and aluminum lip-cap. To Use and Handling: Please nefer to Dosing instructions. For single unit, Unusus disultant must be discarded immediately.

