

**Patient
Information**

Magnesium sulfate (MgSO₄) in pregnancy

Introduction

This leaflet has been written to give you information about a medicine called magnesium sulfate.

Magnesium sulfate (MgSO₄) is a medicine offered to women whose baby will be born between 24 and 30 weeks of pregnancy, as we know that it can protect some babies from developing cerebral palsy. You have been given this leaflet to read as either a decision has been made by the doctor that your baby needs to be born early, or you have gone into premature labour and it is believed that having the magnesium sulfate would be of benefit to you and your unborn baby.

What are the risks to my baby if it is born early?

Every year over 8,500 women in the UK give birth early because of complications with their pregnancy. About 1% of these babies are born before 30 weeks.

Being told that you might give birth early can be a confusing and worrying time for you and your family. Your doctors and midwife will talk to you about the risks of early birth and can help you to make decisions about you and your baby's care. Being born early can mean that some babies may have a higher risk of breathing difficulties and developing an infection. Babies who are born early can also have difficulty with maintaining a good body temperature and feeding properly. In most babies, these problems will get better with the help of the neonatal doctors and nurses.

A small number of babies can develop long term problems because they have been born prematurely. This can affect their brain and could result in cerebral palsy or problems with sight and hearing.

Reference No.

GHPI1373_04_20

Department

Maternity

Review due

April 2023

**Patient
Information**

What is cerebral palsy?

Cerebral palsy is a general term describing conditions that cause problems with movement. It is caused by harm to the brain at any stage of development and there is a higher risk of this when a baby has been born prematurely.

Cerebral palsy will affect children in different ways and to different degrees. It can often take time to work out how a child is affected and babies who are born prematurely will need to have regular check-ups to monitor their development. About 1 in 10 babies who are born before 30 weeks develop a form of cerebral palsy.

Although cerebral palsy cannot be cured, there is support available from specialist teams to help those affected by the condition.

What can be done to prevent cerebral palsy?

Unfortunately, we do not know how to stop babies developing cerebral palsy. We do know that giving magnesium sulfate to women whose baby may be born prematurely can reduce the risk that their baby will develop cerebral palsy.

What are the risks of taking magnesium sulfate?

Women who are given magnesium sulfate may experience some short-term effects. The most common side effect is feeling very hot and nauseous at the start of taking the medicine. You may also get a headache. These side effects disappear very quickly. You will be monitored for the less common side effects, such as low blood pressure or problems with your breathing.

There are no known risks to a premature baby when the mother is given magnesium sulfate.

Does magnesium sulfate stop all babies getting cerebral palsy?

No, some babies will still go on to develop cerebral palsy, even though their mothers have been given magnesium sulfate.

Patient Information

Research has shown that magnesium sulfate is very effective at reducing the risk of developing cerebral palsy by half, in infants who are born before 30 weeks gestation. It may also be of some benefit for babies who are born between 30 and 34 weeks gestation, but we are less sure of how much it would reduce the risk of cerebral palsy developing.

Is every woman offered magnesium sulfate?

Magnesium sulfate may not be suitable for all women. It may be offered to women who are between 24 to 30 weeks pregnant and who are likely to give birth within the next 24 hours. Your doctor and midwife will discuss this with you. You can ask them questions about how magnesium sulfate can protect your baby.

Magnesium sulfate needs to be given at sometime within the 24 hours before giving birth for it to have full effect, but it still may have some benefit if given at any time before birth. If your baby needs to be born urgently (within the hour) then you may not get the full course of magnesium sulfate or giving magnesium sulfate may not be an option.

How will I be given magnesium sulfate?

The doctor or midwife will insert an intravenous drip in your arm. The first dose will be given to you as a single amount over 10 to 20 minutes and then a second dose is given to you continuously over the next 24 hours via an electronic pump. You will be monitored closely throughout. If you do not have your baby within the following 24 hours, the team may consider giving you another dose of magnesium sulfate.

Do I have to have magnesium sulfate?

You do not have to accept this treatment and your decision will not affect the care you and your baby receive.

Where can I get more information on premature birth and what this means for my baby?

You can talk to your doctor and midwives for more information about magnesium sulfate, pre-term labour and what this means for your baby.

It is important that you feel that you have all of the information you need to make the right decisions for you and your baby.

You can also ask your midwife to arrange for you to meet with a neonatologist (a newborn baby doctor) who can answer your questions about what you can expect to happen to your baby when it is born. You may also be able to visit the Neonatal Intensive Care Unit to see where your baby will be cared for after birth.

Further information

Bliss

Tel: 0500 618 140 – Freephone from landlines

Monday to Friday, 9:00am to 9:00pm

Website: www.bliss.org.uk

Bliss, the special care baby charity, provides a wealth of information and support to the families of premature and sick babies.

Content reviewed: April 2020