

SPINA BIFIDA AND OTHER NEURAL TUBE DEFECTS

Every woman, even before she's pregnant, wants her baby to be healthy.

No one likes to think that anything will happen to their baby.

But every day in England and Wales, at least two babies are conceived with neural tube defects such as spina bifida.

Spina bifida and other neural tube defects are caused when the neural tube, which goes on to become the baby's spine, does not form properly. With spina bifida, for example, one or more of the bones in the spine fails to develop properly and leaves a gap, meaning that the spinal cord and nerves are damaged. This affects babies in different ways, but could mean a future of dependence on other people, being unable to walk or control their bladder.

Potentially, everyone's baby is at risk:

- whatever your age
- whether you are a first-time mother or have already got healthy children
- even if spina bifida doesn't run in your family and you are in the best of health

AGAINST SPINA BIFIDA IF YOU ACT BEFORE YOU CAN HELP PROTECT YOUR BABY YOU GET PREGNANT

your child the best possible chance of not having a Fortunately, there is something you can do to give neural tube defect.

of folic acid at the time their baby's spine is with neural tube defects by helping to make sure can greatly reduce the chance of a baby being born these conditions. forming reduce the risk of having a baby with that the spine develops properly. Medical studies have shown that women who increase their intake Research shows that a B vitamin called folic acid

supplement every day. They are easy to find in month's supply. They are also easy to take markets and cost around one pound for one pharmacies, health food shops and most supertolic acid to benefit your baby is to take a folic acid The simplest way to make sure you get enough

although folic acid supplement is trom spina bifida protect your baby enough to help difficult to get it would be very may eat every day, can be found in mal daily diet through your nor many foods you important because A folic acid



WHAT YOU NEED TO KNOW ABOUT FOLIC ACID

→ What is folic acid:

ment and is also used to fortify some foods, such beans, oranges and yeast and beef extracts. variety of foods such as brussels sprouts, green ones by looking at the label). Folic acid is also Folic acid is a B vitamin. It is available as a suppleknown as tolate when it occurs naturally in a as bread and breakfast cereals (you can tell which

► How do you get enough folic acid?

could normally expect to eat three times the amount you in one day is estimated that you need your daily diet - in fact, it than you can get from defects like spina bifida against neural tube To protect your baby you need more folic acid

other health professionals should do three things: recommend that if you could become pregnant, you Because of this doctors and





written as 400 mcg, 400 μg or 0.4	supplement (this may also be	take a 400 microgram folic acid
4 mg)		

- added folic acid ('fortified' breads and cereals). choose breads and breakfast cereals which have Look for information about this on the label
- · eat more of the foods which are naturally high in folic acid and do not overcook them.

give you the right amount of folic acid, as you may which contains 400mcg folic acid only. minerals. The best way is to take a supplement end up taking too much of other vitamins and need. Do not be tempted to take more of these to folic acid but are likely to contain less than you Multivitamin supplements may also contain some

When is the right time to start taking extra

ing the development of your baby's spine, take the most vital developments in your baby, includ-400 mcg of folic acid each day. This is because it is baby or not, you should take a supplement of the twelfth week of pregnancy. Doctors and other From the time you stop using contraception until realise that you are pregnant place very soon after conception, even before you difficult to tell exactly when you conceive. Some of health professionals recommend that if you could become pregnant, whether you are trying for a

> sure you have enough folic acid in your body until the twelfth week of pregnancy to make from the time you stop using contraception at the right time. So you need to take a folic acid supplement

Is a folic acid supplement really necessary?

every day to get enough. would need to eat five portions of brussels sprouts prevent neural tube defects. For example, you enough of the foods which contain folic acid every day to give you the amount needed to help Yes it is because it would be very difficult to eat

acid is lost when food is stored for a long time. especially if vegetables are boiled for a long time Folic acid is also destroyed when food is cooked Even then you could not be sure because folic

baby is to take a 400 mcg folic acid supplegetting the right amount to help protect your So the only way to be sure that you are

Can folic acid be barmful?

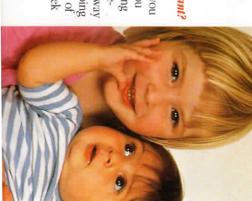
side-effects in women of child-bearing age, even if that your body gets rid of naturally if you take they take it for many years. It is one of the vitamins No. All the research shows that folic acid has no more than you need.

cist if you are already taking any medicine. If you suffer from epilepsy and are planning a pregnancy Always ask for advice from a doctor or pharma-

important to get it is particularly

▼ What if I'm already pregnant?

of pregnancy. so until the end of and continue doing should start taking your twelfth week ments straight away folic acid suppleare pregnant, you If you find out you



ment beyond this time. continue taking a supple-There is no need to

remember that most babies weeks pregnant and have are born in perfect health not taken folic acid you are more than twelve Please do not worry if

Where can you get supplements?

and most supermarkets. It cies, health food stores supplements from pharma-You can buy folic acid

is also possible to get folic acid supplements on them unless you qualify for free prescriptions. prescription. However, it is usually cheaper to buy

and you only need one tablet a day of the right strength (400 mcg). Folic acid supplements are small, easy to take

ments, so you have a choice. Make sure you get and remember that supplements which contain folic one that contains the right amount, that is 400 mcg, There are different brands of folic acid suppleacid only are the best

advice in this leaflet, you can spina bifida. By following the of neural tube defects like We don't know how to prevent reduce the risk to your baby. all birth defects but we do know how to reduce the risk



FOODS HIGH IN FOLIC ACID (50mcg per serving and above)

bread, spring greens, broccoli, green cooked kidney, kale, spinach, granary sprouts, beef extract, yeast extract, Cooked black eyed beans, brussels



FOLIC ACID CONTENT* FOODS WITH MEDIUM

15-50mcg per serving)

chick peas, potatoes, iceberg lettuce, baked beans, wholemeal bread, cabbage oranges, peas, orange juice, parsnips, yogurt, white bread, eggs, brown rice. Cooked soya beans, cauliflower, cooked



FOLIC ACID FOODS FORTIFIED WITH

ly 90mcg of folic acid. A few leading one own-label soft grain bread which is brands of bread are also fortified. of one of these will provide approximate-Bread: most supermarket chains stock fortified with folic acid. A 2 slice serving



over 100mcg per 30g serving. to always check the label. Some have widely different levels so it is important Cereals: many cereals are fortified but to



could harm your baby. should not eat it if you are pregnant or also contains high levels of vitamin A which planning to become pregnant because it Warning: liver is rich in folic acid but you

** Remember over-cooking destroys folion



in order of folic acid content per serving

A note on serving sizes

according to the average portion size for that food. For most green vegeta bles for example, this is 90g, but is 175g for potatoes and 70g for peas. extract on a level teaspoon. Bread is estimated on the basis of 2 slices, rice 180g and beef and yeast For the purposes of this table, folic acid content has been calculated

Defects, Report from an Expert Advisory Group – Department of Health, McCance & Widdowson, 5th Edition; Folic Acid and the Prevention of Neural Tube and Social Services, Northern Ireland. Scottish Office Home & Health Department, Welsh Office, Department of Health References: Food Portion Sizes, 1993, MAFF; The Composition of Food,

you advice if: Ask your pharmacist or family doctor to give

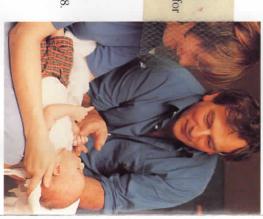
- you're still not sure about the advice in this
- you're already pregnant
- you're already taking medicine prescribed by your doctor, especially if it is to treat epilepsy
- if you have spina bifida or there is a history of spina bifida or another neural tube defect in your family or that of your partner.

and planning a pregnancy from: You can get further information about folic acid

- Your family doctor, practice nurse, health visitor or pharmacist
- the Health Information Service free phone line 0800 66 55 44

bifida contact: about spina nformation or further

Peterborough Spina Bifida and PE1 2UQ 42 Park Road ASBAH House (ASBAH) Hydrocephalus Tel: 01733 555988. The Association for



INGREDIENT IN MAKING BABIES FOLIC ACID - AN ESSENTIAL

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