Pneumococcal meningitis, the facts

This fact sheet provides information about pneumococcal meningitis and answers some frequently asked questions. This should be read in addition to our ‘Meningitis can affect anyone’ leaflet, which provides more information on signs and symptoms and emergency action to take. All our information can be found at www.MeningitisNow.org. You can also request any of our information materials by contacting our Meningitis Helpline on 0808 80 10 388.

Words highlighted in blue are explained in a glossary on the back page.

Key points

- Pneumococcal meningitis is a life-threatening infection
- Babies and young children under 18 months of age are most at risk
- Older adults and people with conditions that affect their immune system are also at increased risk
- Vaccines are available to help protect against pneumococcal meningitis

What is pneumococcal meningitis?

Pneumococcal meningitis is a life-threatening infectious disease that causes inflammation of the membranes that surround the brain and the spinal cord. These membranes are called the meninges – they help protect the brain from injury and infection. Meningitis strikes unexpectedly and the consequences can be devastating.

Pneumococcal meningitis is caused by a bacterium called the pneumococcus. There are over 95 strains (or serotypes), but only a minority commonly cause disease. The pneumococcus can also cause other serious infections such as pneumonia, septicaemia** and septic arthritis, and less serious infections such as otitis media, glue ear and sinusitis. Together these are known as pneumococcal disease or pneumococcal infection.

Can pneumococcal meningitis be prevented?

A Pneumococcal Conjugate Vaccine (PCV) is available as part of the routine immunisation schedule. It protects against 13 strains of pneumococcal bacteria. Babies born on or after 1st January 2020 are offered the vaccine at 12 weeks and 12-13 months.

A Pneumococcal Polysaccharide Vaccine (PPV) is also available. This protects against 23 strains of pneumococcal bacteria, but only has a limited period of protection and is not effective in the under 2s. This vaccine is offered to all people aged 65 years and over.

Both pneumococcal vaccinations are also recommended, when appropriate, for adults and children who are at increased risk of pneumococcal disease, for example, those with chronic respiratory disease, chronic heart disease, diabetes mellitus and those with cochlear implants. Anyone who has had pneumococcal disease, including meningitis, should actively seek vaccination.

For more information about all available vaccines to prevent meningitis download a copy of ‘Meningitis vaccines, the facts’ from our website or call the helpline.

Who gets pneumococcal meningitis and why?

Pneumococcal meningitis can affect any age group, but those at most risk are babies and young children under 18 months of age. Older adults and people with conditions that affect the immune system are also at increased risk. Meningitis may occur following head injury and damage to the meninges; on rare occasions this may be recurrent.

** septicaemia: many medical experts now use the term sepsis instead of septicaemia.
One of the main investigations carried out to test if someone has meningitis is a lumbar puncture. This allows the doctor to quickly make a diagnosis of meningitis by analysing the CSF that bathes the meninges. This fluid becomes infected when a patient has meningitis. Sometimes treatment with antibiotics is started because the patient’s condition is too serious for a lumbar puncture to be performed. In these cases the lumbar puncture can be done when the patient’s condition has improved.

If someone is seriously ill, they will require specialist care and treatment in an intensive care unit. Here the doctors and nurses can closely monitor their condition, respond to emergencies and provide immediate support when it is needed. Appropriate hospital care and treatment are essential if the patient is to make a good recovery.

What happens when there is a case?

Pneumococcal meningitis is reportable to public health, but is not considered to be contagious. Therefore, close contact with someone who has the illness poses no increased risk of infection. There is little chance of a second related case occurring.

What happens after pneumococcal meningitis?

Most people who get pneumococcal meningitis will make a good recovery, but around 30% can be left with severe and often permanent after-effects. However, the exact number of people who experience after-effects is not known.

The after-effects of meningitis usually happen because of damage to various areas of the brain, including the nerves responsible for hearing and sight. The serious and disabling after-effects are well recognised and include hearing loss or deafness, loss of vision or blindness, epilepsy and speech problems.

After-effects are often complicated and can require ongoing support (for life) from a wide range of health professionals and organisations.
Other people may experience one or more of a wide range of less noticeable but still significant after-effects. These can be temporary or permanent and include memory loss, anxiety, depression, headaches, learning difficulties and behaviour problems. Whatever the after-effect, mild or severe, meningitis can change a person’s life forever.

A booklet ‘Your guide’ provides more information about the after-effects of bacterial meningitis and meningococcal septicaemia in children. To request a copy or find out more about after-effects and the support Meningitis Now can offer, go to www.MeningitisNow.org or call our helpline.

This booklet can also be downloaded at www.MeningitisNow.org/recovery

Tragically, some patients will die despite receiving the best possible treatment and care. The death of someone close following meningitis or septicaemia can be traumatic, distressing and painful. If someone close to you has died, our helpline staff are there to listen, and can explain the different ways we are able to offer help and support.

Find out more

- **Meningitis Now**
  www.MeningitisNow.org
  Information about meningitis and the work of Meningitis Now.

- **NHS immunisation information**
  www.nhs.uk/conditions/vaccinations/
  Information about vaccines and NHS immunisation programmes.

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**Glossary**

**Bacteria / bacterium**
Single-celled micro-organisms, of which there are many types. Some types can cause disease in humans. One organism is called a bacterium and more than one are called bacteria.

**Cerebrospinal Fluid (CSF)**
A protective fluid that flows around the brain and spinal cord, helping to maintain healthy cells.

**Immunity / immune response**
The body’s ability to recognise and resist specific infectious diseases. The immune system responds to infection by producing antibodies.

**Inflammation**
A response of the body tissues to injury or irritation. The response is characterised by redness, swelling, heat and pain.

**Lumbar puncture**
A procedure to remove CSF from below the base of the spinal cord.

**Meninges**
Three protective membranes (layers of tissue) that surround the brain. These are called the dura mater, arachnoid mater and pia mater.

**Routine immunisation schedule**
A planned programme of vaccines which provides protection against a range of infectious diseases. For more information, visit www.nhs.uk

**Sepsis**
A life-threatening condition that arises when the body’s response to infection injures its own tissues and organs.

**Vaccine / vaccination**
A preparation, usually an injection, given to encourage the body to produce antibodies which help fight infectious disease. The preparation commonly contains a harmless extract prepared from the disease-causing organism.
Meningitis Now is here to help you.
We are saving lives and rebuilding futures through awareness, research and support.

We offer ongoing support for all those living with the impact of the disease. We support individuals, and their families, including those who have been bereaved, helping to rebuild lives after meningitis and meningococcal septicaemia.

We can:

• Listen; and answer your questions about meningitis and meningococcal septicaemia
• Talk to you about your individual experience and how we can tailor our help to you
• Provide support locally to you
• Put you in touch with others who have been through it too
• Support you and those closest to you; children, teenagers and adults
• Provide financial contributions towards unexpected costs following meningitis through our Rebuilding Futures Fund

If you have any questions, or are interested in finding out how we can help, please get in touch.

Meningitis Helpline: 0808 80 10 388 (UK)

Email: helpline@meningitisnow.org

We are proud of the work we do, but we can’t do it alone. We rely on voluntary donations and need help from people like you. Every penny, pound, hour and day given makes a big difference. Find out how you can help www.MeningitisNow.org

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References for the content of this fact sheet are available on our website.