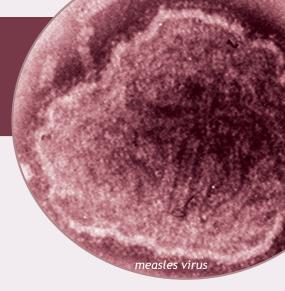
Measles

- ▶ an acute infection caused by the measles virus, Rubeola
- ▶ one of the most contagious diseases known to man
- ▶ 30 million people are affected each year
- ▶ 50 people die from the disease every hour



Symptoms

Measles symptoms develop 9 - 11 days following infection and last up to 14 days. Initial symptoms include fever, headache, runny nose, cough and conjunctivitis (red, watery eyes). The rash usually starts on day 4 and lasts up to 10 days. The flat red or brown blotches appear first on the forehead and spread downwards over the face, neck and body.

Spreading measles

Although measles is usually a childhood disease, anyone who has not been immunised, through vaccination or infection with the virus, can become infected at any time in their life, especially where the virus is endemic. The virus is caught through direct contact with, or through coughs or sneezes from, an infected person. It remains active and contagious in the air or on infected surfaces for up to two hours.

Treatments

There is no specific treatment for measles. Patients are advised to drink plenty of fluid and can take paracetamol to reduce the fever. Children do not usually die as a direct result of measles infection, but from its complications. These are more likely to occur in those aged under 5 or over 20.

Complications

Complications from measles are quite common as the virus weakens the body's immune defences. The most serious complications include:

- blindness
- severe diarrhoea and dehydration

- severe respiratory infection (5 10 % cases)
- ear infection (5 15 % cases)
- ▶ inflammation of the brain (encephalitis) 1 in 1000 cases, resulting in brain damage in a quarter of those affected.

SSPE (subacute sclerosing pan-encephalitis) is the most severe complication of measles, although it is rare (occurring in 1 in 10,000 cases). SSPE usually occurs on average 8 years after the initial illness and is a slowly progressive brain infection, which can last for years and eventually results in death.

Immunity is for life

Vaccination or infection with the virus leads to permanent immunity. The disease is now rare in the UK because of high levels of immunisation. Measles vaccine is one of the components of the combined MMR (measles, mumps and rubella) vaccine, which contains three live attenuated viruses. There are two licensed MMR vaccines: Priorix (GlaxoSmithKline) and MMR II (Aventis Pasteur). There is no single antigen measles vaccine licensed in the UK.

Measles cases in 2006

There are reports of 449 confirmed cases of measles in England and Wales to the end of May 2006. This compares to 438 cases for the whole of 2003 and will therefore represent the highest number of cases in one year since the current method of monitoring began in 1995. This year also recorded the first death of measles in the UK in this century.

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