

### Vaccinations

This table provides a run-down of diseases for which vaccination is recommended as part of the basic vaccination scheme. The complications of these diseases are compared with the complications that are seen to occur where the child has been vaccinated and are offset against potential side effects of vaccination. As a patient you can report side effects of medicines as well as vaccines to the Federal Agency for Medicines and Health Products at [fagg.be](http://fagg.be).

Disease	Severe complications		Vaccine side effect
	If disease contracted	If vaccinated	
Diphtheria (croup) <ul style="list-style-type: none"> <li>• Severe laryngitis involving risk of suffocation.</li> <li>• The bacteria releases a toxin that affects nerves (paralysis) and may result in myocarditis (inflammation of the heart muscle) and death.</li> </ul>	Myocarditis 5/10 Paralysis: 4-10/100 Mortality rate: 20 % (in under-5s) 5-10 % (5-40 age group)	-	Combined 6-in-1 vaccine • 10 % local swelling, redness, pain or fever. • In case of booster jab later on in life: sometimes swelling of the limb. This fully clears up after a few days.
Tetanus <ul style="list-style-type: none"> <li>• Is caused by bacteria that exists in earth and street litter.</li> <li>• Causes muscle spasms. May take a serious turn resulting in muscular respiratory paralysis and death.</li> </ul>	Mortality rate: 10-80%	-	Combined 6-in-1 vaccine • 10 % local swelling, redness, pain or fever. • In case of booster jab later on in life: sometimes swelling of the limb. This fully clears up after a few days.
Whooping cough <ul style="list-style-type: none"> <li>• Respiratory infection by bacteria that produces toxins.</li> <li>• Exhausting coughing fits which may result in brain damage brought on by respiratory distress.</li> </ul>	Babies under 12 months of age: Temporary apnea (cessation of breathing): 60 % Pneumonia: 10 % Convulsions: 1-3 % Brain damage: 1-3 ‰ Permanent damage: 5 ‰ Mortality rate: 1%	-	Combined 6-in-1 vaccine • 10 % local swelling, redness, pain or fever. • In case of booster jab later on in life: sometimes swelling of the limb. This fully clears up after a few days.

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<p>Poliomyelitis (infantile paralysis)</p> <ul style="list-style-type: none"> <li>• Paralysis occurs in 1 out of 100/200 infected persons.</li> <li>• Globally eradicated since vaccination, except for a few countries.</li> </ul>	<p>0.1-1 % paralysis Mortality rate: 10-30 % of those paralysed</p>	-	<p>Combined 6-in-1 vaccine</p> <ul style="list-style-type: none"> <li>• 10 % local swelling, redness, pain or fever.</li> <li>• In case of booster jab later on in life: sometimes swelling of the limb. This fully clears up after a few days.</li> </ul>
<p>Hepatitis B</p> <ul style="list-style-type: none"> <li>• Acute or chronic hepatitis (inflammation of the liver).</li> <li>• Risk of developing chronic infection: &lt; 12 months: 15-95 % 1-5 age group: 20-50 % over-5s: 5-10 %</li> </ul>	<ul style="list-style-type: none"> <li>• 1 in 4 chronic carriers develop liver cirrhosis or cancer of the liver</li> </ul>	-	<p>Combined 6-in-1 vaccine</p> <ul style="list-style-type: none"> <li>• 10 % local swelling, redness, pain or fever.</li> <li>• In case of booster jab later on in life: sometimes swelling of the limb. This fully clears up after a few days.</li> </ul>
<p>Haemophilus Influenzae type b</p> <ul style="list-style-type: none"> <li>• Causes bacterial meningitis, general sepsis (blood poisoning). Especially children under the age of 4 are at risk.</li> </ul>	<p>Damage to nervous system: 15 %-30 % Deafness: 15 % Mortality rate: 5 %</p>	- -	<p>Combined 6-in-1 vaccine</p> <ul style="list-style-type: none"> <li>• 10 % local swelling, redness, pain or fever.</li> <li>• In case of booster jab later on in life: sometimes swelling of the limb. This fully clears up after a few days.</li> </ul>

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<p>Pneumococcal disease</p> <ul style="list-style-type: none"> <li>• Pneumococcus is a bacteria that comes in various types .</li> <li>• It is a major cause of bacterial meningitis and inflammation of the middle ear.</li> </ul>	<p>General sepsis, meningitis, pneumonia. Mortality rate: 30% in case of meningitis</p>		<p>The pneumococcal vaccine used does not protect against all types of pneumococcus but it does protect against those that cause severe diseases and are very common.</p> <ul style="list-style-type: none"> <li>• 1/5 local swelling, redness pain or fever</li> <li>• Severe side effects are rare.</li> </ul>
<p>Rotaviral enteritis</p> <ul style="list-style-type: none"> <li>• Infection which often causes diarrhoea, vomiting and fever in toddlers and preschoolers.</li> <li>• Hospital admission is sometimes necessary as a result of dehydration.</li> </ul>	<p>Dehydration Mortality rate: In Western countries: very low</p>		<ul style="list-style-type: none"> <li>• 3 % diarrhoea, vomiting</li> </ul>
<p>Rubella (aka German measles or three-day measles)</p> <ul style="list-style-type: none"> <li>• Usually not severe in children but in case of infection during pregnancy there is a risk of miscarriage or congenital defects.</li> </ul>	<p>Low platelet count: 1/3000 Encephalitis: 1/6000 9/10 babies infected in 1st three months of pregnancy have birth defects (deafness, blindness, heart defects)</p>	<p>- -</p>	<p>Combined measles-mumps-rubella (MMR) vaccine • 1/10: general malaise and fever possibly involving skin rash • Up to 1/100: inflammation of salivary gland • 5/100: swollen glands • 1/20000-30000: low platelet count • 0-3/100 joint reactions in children</p>

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<p>Measles</p> <ul style="list-style-type: none"> <li>• Highly infectious disease involving high fever and red blotches on skin.</li> <li>• 1 in 5 (20 %) has complications</li> </ul>	<p>Pneumonia: 3,87,3 %                      Convulsions: 0.3-0.5%                      Encephalitis: 0.5-1‰                      Chronic progressive encephalitis: 0.5-2/100000                      Mortality rate: 1-2.5/10,000</p>	<p>-                       0.02-190/100000 1/1 million                       1/1 million</p>	<p>Combined measles-mumps-rubella (MMR) vaccine</p> <ul style="list-style-type: none"> <li>• 1/10 general malaise and fever possibly involving skin rash</li> <li>• Up to 1/100 inflammation of salivary gland</li> <li>• 5/100 swollen glands</li> <li>• 1/20000-30000 low platelet count</li> <li>• 0-3/100 joint reactions in children</li> </ul>
<p>Mumps</p> <ul style="list-style-type: none"> <li>• Viral infection that presents like a cold.</li> <li>• Typical are the swollen parotid glands.</li> </ul>	<p>Encephalitis: &lt; 1 %                      Inflammation of the testes (testicles): 20 % (in men past puberty)                      Mortality rate: 1/10000</p>	<p>1/1million                       -</p>	<p>Combined measles-mumps-rubella (MMR) vaccine</p> <ul style="list-style-type: none"> <li>• 1/10: general malaise and fever possibly involving skin rash</li> <li>• Up to 1/100: inflammation of salivary gland</li> <li>• 5/100: swollen glands</li> <li>• 1/20000-30000: low platelet count</li> <li>• 0-3/100 joint reactions in children</li> </ul>
<p>Meningococcal infection</p> <ul style="list-style-type: none"> <li>• Severe bacterial disease which may present as meningitis, encephalitis or general sepsis.</li> </ul>	<p>Permanent damage: 30% (deafness, motor problems and learning and behavioural problems)                      Mortality rate: 20%</p>	<p>-</p>	<p>Meningococcus C-vaccine</p> <ul style="list-style-type: none"> <li>• 1/10: local swelling, redness, pain or fever.</li> </ul> <p>Reduced appetite</p>