



## COVID-19 vaccination and blood clotting

### Information about your vaccination

The UK vaccination programme has been very successful with more than 30 million people vaccinated and more than 6,000 lives already saved.

#### What is the concern?

Recently there have been reports of a very rare condition involving blood clots and unusual bleeding after vaccination. This is being carefully reviewed but the risk factors for this condition are not yet clear.

Although this condition remains extremely rare there appears to be a higher risk in people shortly after the first dose of the AstraZeneca (AZ) vaccine. Around 4 people develop this condition for every million doses of AZ vaccine doses given.

This is seen slightly more often in younger people and tends to occur between 4 days and 2 weeks following vaccination.

This condition can also occur naturally, and clotting problems are a common complication of COVID-19 infection. An increased risk has not yet been seen after other COVID-19 vaccines but is being carefully monitored.

#### What are the benefits and risks of the vaccination?

Age	Risk from COVID-19	Benefit of vaccination	Risk of vaccination
Over 50 years of age or with underlying medical conditions	<p><b>Low</b></p> <ul style="list-style-type: none"> <li>catching infection</li> <li>passing on infection</li> </ul> <p><b>Very high</b></p> <ul style="list-style-type: none"> <li>hospitalisation</li> <li>intensive care admission</li> <li>death</li> </ul> <p><b>Moderate</b></p> <ul style="list-style-type: none"> <li>Long COVID</li> </ul>	<p><b>One dose more than 80% reduction</b></p> <ul style="list-style-type: none"> <li>deaths</li> <li>hospitalisation</li> <li>intensive care</li> </ul> <p><b>Two doses more than 95% reduction</b></p> <ul style="list-style-type: none"> <li>deaths</li> </ul>	<p><b>Uncommon</b></p> <ul style="list-style-type: none"> <li>sore arm</li> <li>feeling tired</li> <li>headache</li> <li>general aches</li> <li>flu like symptoms</li> </ul> <p><b>Extremely rare</b></p> <ul style="list-style-type: none"> <li>clotting problems</li> </ul>
30 to 49 years of age	<p><b>High</b></p> <ul style="list-style-type: none"> <li>catching mild infection</li> <li>passing on infection</li> </ul> <p><b>Low</b></p> <ul style="list-style-type: none"> <li>hospitalisation</li> <li>intensive care admission</li> <li>death</li> </ul> <p><b>Moderate</b></p> <ul style="list-style-type: none"> <li>Long COVID</li> </ul>	<p><b>One dose between 60% and 70% reduction</b></p> <ul style="list-style-type: none"> <li>catching infection</li> <li>passing on infection</li> </ul> <p><b>Two doses more than 85% reduction</b></p> <ul style="list-style-type: none"> <li>catching and passing on infection</li> </ul>	<p><b>Common</b></p> <ul style="list-style-type: none"> <li>sore arm</li> <li>feeling tired</li> <li>headache</li> <li>general aches</li> <li>flu like symptoms</li> </ul> <p><b>Extremely rare</b></p> <ul style="list-style-type: none"> <li>clotting problems</li> </ul>
18 to 29 years of age	<p><b>Very high</b></p> <ul style="list-style-type: none"> <li>catching mild infection</li> <li>passing on infection</li> </ul> <p><b>Very low</b></p> <ul style="list-style-type: none"> <li>hospitalisation</li> <li>intensive care admission</li> <li>death</li> </ul> <p><b>Moderate</b></p> <ul style="list-style-type: none"> <li>Long COVID</li> </ul>	<p><b>One dose between 60% and 70% reduction</b></p> <ul style="list-style-type: none"> <li>catching infection</li> <li>passing on infection</li> </ul> <p><b>Two doses more than 85% reduction</b></p> <ul style="list-style-type: none"> <li>catching and passing on infection</li> </ul>	<p><b>Very common</b></p> <ul style="list-style-type: none"> <li>sore arm</li> <li>feeling tired</li> <li>headache</li> <li>general aches</li> <li>flu like symptoms</li> </ul> <p><b>Extremely rare</b></p> <ul style="list-style-type: none"> <li>clotting problems</li> </ul>