## An estimated 1 in 7 five years olds are not immunised against MMR

As hundreds of thousands of parents across England prepare their children to start primary school in the next few weeks, Public Health England (PHE) is warning that 1 in 7 five year olds may not be fully up-to-date with some routine immunisations, with the figure rising to around 1 in 4 children in London.

These worrying estimates, released as part of PHE's Value of Vaccines campaign, show that some 4 and 5 year olds are starting school at unnecessary risk of serious diseases compared to the majority of their classmates, prompting a call for parents to check their child's Red Book to ensure their children are up-to-date with scheduled immunisations.

In the UK, dose 1 of the MMR vaccine, which protects against Measles, Mumps and Rubella, is usually given to infants at around 12 months of age. A second dose is given before school, usually at 3 years and 4 months of age, to ensure best protection. Two doses of MMR in a lifetime are needed for a person to be considered fully protected. The 4-in-1 pre-school booster is also usually offered at 3 years and 4 months of age and protects against diphtheria, whooping cough, tetanus and polio.

Around 680,000 five-year-olds start school in England each year according to <a href="Department for Education figures">Department for Education figures</a>. Based on percentage uptake from <a href="Latest">latest</a> <a href="Vaccination coverage figures">Vaccination coverage figures</a>\* PHE estimates that:

- over 30,000 (around 1 in 19) five year olds may still need to receive their first dose of MMR, leaving them significantly more at risk compared to pupils who are fully vaccinated
- around 90,000 (or 1 in 7) five year olds in England may still need to receive their second dose of MMR vaccine. Almost 30,000 of these children are in London, meaning that around 1 in 4 primary school starters in the capital don't have the full protection that the MMR vaccine offers
- around 100,000 (or 1 in 8) five year olds in England may still need their 4-in-1 pre-school booster that protects against diphtheria, whooping cough, tetanus and polio

This means that more than 5% of five year olds are starting reception year having not received any MMR. This leaves them at high risk of measles at a time when outbreaks of the disease are occurring across the country.

Dr Mary Ramsay, Head of Immunisation at PHE, said:

It's a real concern that so many young children — as many as a quarter of a reception class in some areas — could be starting school without the full protection that the NHS childhood

immunisation programme offers for free.

We know that parents want the best protection for their children and so many may be unaware that their child is not up-to-date. We're urging all parents of primary school starters to check their child's Red Book now to make sure there is a record of two MMR doses and the 4-in-1 booster vaccine. If not, parents should contact their GP practice to arrange any further vaccinations that are needed.

We're particularly concerned about children being at greater risk of measles. We're continuing to see outbreaks of the disease occurring in communities across the country, many linked to visiting European countries over the summer holidays.

The vast majority of those affected are not fully immunised and vaccine preventable diseases spread more easily in schools. It's crucial that children have maximum protection as they begin to mix with other children at the start of their school journey.

We often think that these diseases are confined to the past, but the World Health Organisation has recently confirmed that measles is no longer eliminated in England. Whilst tetanus and polio are still rare thanks to the success of the NHS childhood immunisation programme, over the past few years we've also seen cases of whooping cough and diphtheria in school-aged children.

To check that your child has received all their vaccines on schedule, visit the <a href="NHS website">NHS website</a> and refer to your child's Red Book. If in any doubt, contact your GP practice.

It's never too late for a child to be immunised. PHE's catch-up call for primary school starters follows the issue of a new GP contract from NHS England and Improvement which also encourages 10 and 11 year olds to be caught up with any missing MMR vaccinations prior to them reaching secondary school age.

- 1. <u>Vaccination Coverage Report</u>, <u>January to March 2019</u>
- 2. 2019 General Medical Services (GMS) Contract
- 3. Approximate estimates of children aged 5 with routine vaccinations outstanding, as at end of March 2019

Region	5y DTaP- IPV% coverage	5y DTaP- IPV% number missing	5y MMR1% coverage	5y MMR1% number missing	5y MMR2% coverage	5y MMR2% number missing
England	85.6%	101,000	94.9%	36,000	87.2%	90,000
North East	91.1%	3,000	97.2%	1,000	91.9%	2,000

North West Yorkshire and the Humber	88.8%	10,000	95.9%	4,000	89.4%	9,000
	89.9%	7,000	95.9%	3,000	90.5%	7,000
East Midlands	88.4%	7,000	96.4%	2,000	89.0%	7,000
West Midlands	85.6%	10,000	95.7%	3,000	87.6%	9,000
East of England	88.2%	9,000	96.1%	3,000	89.8%	8,000
London	75.9%	31,000	91.4%	11,000	77.8%	28,000
South East	84.1%	17,000	93.9%	7,000	87.2%	14,000
South West	89.9%	6,000	96.1%	2,000	90.9%	5,000

## Measles signs and symptoms

Measles is a highly infectious viral illness that can be very unpleasant and sometimes lead to serious complications. It's now uncommon in the UK because of the effective MMR vaccination programme. Although usually a mild illness in children, measles can be more severe in adults.

The initial symptoms of measles develop around 10 days after a person is infected. These can include:

- cold-like symptoms, such as a runny nose, sneezing, and a cough
- sore, red eyes that may be sensitive to light
- a high temperature (fever), which may reach around 40°C (104°F)
- a few days later, a red-brown blotchy rash will appear. This usually starts on the head or upper neck, before spreading outwards to the rest of the body

Symptoms usually resolve in about 7 to 10 days. Complications include pneumonia, ear infections, brain inflammation (encephalitis) and even death.