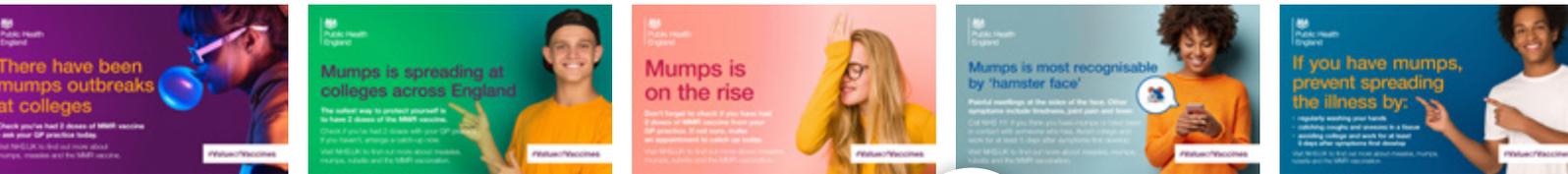




# Vaccine update



## Mumps outbreaks across England



In 2019 there were over 5,000 lab-confirmed cases of mumps in England, the highest number seen in a decade. The steep rise in cases has been largely driven by outbreaks in universities and colleges, with most of the cases in young people and adults aged 15 to 35 years. See the recent BBC article at [weblink 1](#) where students describe their experiences.

In fact, many of the cases in 2019 were seen in the so-called 'Wakefield cohorts' – young adults born in the late nineties and early 2000s who missed out on the MMR vaccine when they were children. Over 25,000 students who never received the MMR vaccine started university last autumn.

Mumps is a viral infection that used to be common in children before the introduction of the MMR vaccine. It is most recognisable by the painful swelling of the glands at the side of the face, giving a person with mumps a distinctive "hamster face" appearance. Other symptoms include headaches, joint pain and fever, which may develop a few days before the swelling.

Although most people usually recover without treatment from mumps, in some cases it can cause complications such as inflammation of the testicles, and in rare cases, meningitis and deafness.

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While the mumps component of the MMR vaccine is highly effective at protecting young children, immunity can wane over time. Therefore, older teenagers and adults who received two doses of MMR in childhood can still get mumps, particularly in close-contact settings such as universities.

However, high vaccination coverage helps limit the size, duration, and spread of mumps outbreaks. In addition, mumps in a vaccinated person is generally milder and much less likely to lead to complications and hospitalisation.

PHE is encouraging all students and young people who may have missed out on their MMR vaccine to contact their GP practice and arrange an appointment to catch-up as soon as possible.

### New digital resources available now

They are aimed at students in universities and colleges and designed for social media, websites, facebook, Instagram and digital display systems.

Visit Healthpublications website at [weblink 10](#) to download the share them now.



### Coverage is on the up!

Recent increases in coverage can be attributed to good quality commissioning, data and service provision and the valuable support of GPs, school teams and staff, working together to make sure all eligible secondary school aged children have their vaccines.

## TD/IPV Vaccine Coverage Annual Report 2018/19

A total of 140/152 Local Authorities (LAs) returned complete vaccine coverage data for the Td/IPV vaccination programme for Year 9 students (born between 1 September 2004 to 31 August 2005). Of these, 135 LAs delivered the programme exclusively in schools and 5 LAs delivered the programme in schools and GP practices. Vaccine coverage for Year 9 students 2018/19 was 87.6% compared to 85.5% in 2017/18, 83.0% in 2016/17 and 83.5% in 2015/16.

All LAs returned vaccine coverage data for Td/IPV vaccination for Year 10 students in 2018/19 (born between 1 September 2003 to 31 August 2004). Of these, 144 LAs delivered the programme exclusively in schools, 7 delivered the programme in schools and GP practices, and one exclusively through GP practices.

Year 10 coverage for the Td/IPV booster vaccine to the end of August 2019 was 86.0% compared to 82.9% in 2017/18, 81.7% in 2016/17 and 74.9% in 2015/16

## MenACWY Vaccine Coverage Annual Report 2018/19

A total of 140/152 Local Authorities (LAs) returned complete vaccine coverage data for the MenACWY vaccination programme for Year 9 students (born between 1 September 2004 to 31 August 2005). Of those 140 LAs, 135 delivered the programme exclusively in schools and five delivered the programme in schools and GP practices. Vaccine coverage for Year 9 students in 2018/19 was 88.0% compared to 86.2% in 2017/18, 83.6% in 2016/17 and 84.1% in 2015/16.

All LAs returned vaccine coverage data for MenACWY vaccination for Year 10 students in 2018/19 (born between 1 September 2003 to 31 August 2004). 144 LAs delivered the programme exclusively in schools, 7 delivered the programme in schools and GP practices, and one through GP practices only.

Year 10 coverage for the MenACWY vaccine up to the end of August 2019 was 86.7% compared to 84.6% in 2017/18, 82.5% in 2016/17 and 77.2% in 2015/16.

## Pertussis vaccination programme for pregnant women update: vaccine coverage in England, October to December 2019

Pertussis vaccine coverage in pregnant women for the third quarter of 2019/20 averaged 72.1%, 0.4% percentage points higher than coverage for the same quarter in 2018/19. This follows a similar increase in coverage beginning in September alongside the influenza season (where there are increased opportunities and signposting for pre-natal pertussis vaccine).

During October to December, prenatal pertussis vaccine coverage by NHS England Local Team ranged from 56.7% (London, October) to 82.9% (Yorkshire and Humber, December).

GPs, practice nurses, obstetricians and midwives should continue to encourage pregnant women to receive the pertussis vaccine, ideally between weeks 20 and 32 of their pregnancy (but up to term) to optimise protection for their babies from birth.

Maternity units not offering pertussis vaccines to pregnant women should continue to discuss its importance, making use of available resources and sign-post the woman to her GP to receive the vaccine.

## **Cumulative shingles vaccine coverage report to end of December: England**

Cumulative coverage at the end of December 2019 for cohorts first offered shingles vaccine prior to the fiscal year 2018-19 was highest among 76 year olds (76.6%) and lowest among 71 (45.0%), who became eligible last year.

Cumulative vaccine coverage estimates for adults that became eligible for the shingles vaccine during quarter 2 (born between 1 July and 31 September) and evaluated at the end of December 2019 was 28.8% for the 70 year old routine cohort and 27.8% for the 78 year old catch-up cohort, compared to 28.6% and 28.5% for the 70 and 78 year olds respectively in quarter 2 last year.

Meanwhile, adults that became eligible for the shingles vaccine during quarter 1 (from 1 April 2019 to 30 June 2019) and evaluated at the end of December 2019 is 33.7% for the 70 year old routine cohort and 32.7% coverage for the 78 year old catch-up cohorts, compared to 28.6% and 28.5% for the 70 and 78 year olds respectively in quarter 2 last year.

Shingles vaccine coverage estimates for those turning 70 and 78 years old during quarter 2 is similar to quarter 2 last year. Vaccine coverage cannot be compared with estimates prior to 2018 to 2019 estimates due to the new eligible criteria and the coverage calculation methodology.

Coverage among adults turning 70 and 78 years old during the quarter 2 is 7.7 and 6.5 percentage points greater than coverage achieved by those who turned 70 and 78 at the same respective timepoint in quarter 1 at 23 September 2019. This may be due to the convenience of adults receiving both the shingles and influenza vaccines at the same time.

While it is important to ensure that individuals who become eligible for the shingles vaccine have the opportunity to get vaccinated in the year they become eligible, improving coverage among previously eligible cohort is equally important as these individuals remain at risk and are more likely to develop more severe outcomes. It is therefore reassuring to see that these cohorts are still being vaccinated and that coverage among those who became eligible five years ago is high.

# Vaccine supply

## Routine vaccination programme

### Children's flu vaccines for the 2019/20 children's flu programme

The following vaccines remain available to order by providers of the children's flu programme in England via the ImmForm website: Please refer to the ImmForm website at [weblink 11](#) for the most up to date information on ordering for both vaccines. Please refer to guidance from your respective health departments for arrangements in Scotland, Wales and Northern Ireland.

Vaccine	Manufacturer
Fluenz Tetra®	AstraZeneca
Quadrivalent Influenza Vaccine (split virion, inactivated) (QIVe)	Sanofi Pasteur

### Expiry dates for Fluenz Tetra® issued in 2019/20

Batch	Expiry date 2020
LJ2149	8 January
LJ2168	9 January
LJ2169	10 January
LJ2334	16 January
LJ2515	27 January
LK2526	06 February
LK2527	10 February
LK2979	13 February
LK2980	20 February
LK2981	27 February
LK2982	2 March
LL2196	5 March
LL2197	12 March
LL2198	16 March
LL2199	20 March
LL2567	26 March
LM3089	31 March
LL2570	1 April

Batch numbers and associated expiry dates of Fluenz Tetra® for all batches issued this season are set out in the table below. Batches that have now expired are marked in red. Please ensure that the expiry date is always checked before use and that expired stock is disposed of in line with local policies. Any disposed stock should be recorded through the ImmForm stock incident page at [weblink 2](#).

#### Providing a second dose of flu vaccine after all Fluenz Tetra® has expired

If you still need to give a second dose of flu vaccine four weeks after the first dose (for example, for children in clinical risk groups aged two to under nine years who have not received influenza vaccine before), then it is safe and effective to give inactivated vaccine as a second dose where Fluenz Tetra® is no longer available.

#### All influenza vaccines for the 2019/20 season

Information on all influenza vaccines that have been marketed in the UK for the 2019/20 season are available at [weblink 3](#). Please refer to the flu letter at [weblink 4](#) for information on which vaccines are eligible for reimbursement in the 2019/20 season.

## Maternal Pertussis programme – change to dTaP/IPV vaccine

The maternal pertussis immunisation programme commenced in October 2012, initially using Repevax<sup>®</sup> vaccine (dTaP/IPV). From July 2014, Boostrix<sup>®</sup>-IPV (dTaP/IPV) has been supplied. Repevax<sup>®</sup> is now available to order through ImmForm for use in the maternal pertussis immunisation programme instead of Boostrix<sup>®</sup>-IPV.

This is a temporary change and it is anticipated that supplies will revert back to Boostrix<sup>®</sup>-IPV in autumn 2020. This change is necessary as PHE is running down all stock of Repevax<sup>®</sup> before the introduction of Boostrix<sup>®</sup>-IPV across both the maternal pertussis and the pre-school booster programmes. There is no other change to the maternal pertussis immunisation programme, further details about this programme can be found in chapter 24 of the Green Book at [weblink 5](#).

## PCV13 schedule change reminder

As published in issue 303 (Dec 2019), the PCV13 routine immunisation schedule changed on the 1 January 2020. The change means that babies born on or after 1 January 2020 will have one priming dose of PCV13 at the age of 12 weeks, followed by a booster dose at the age 12 months. Babies born on or before the 31 December 2019 will continue to be offered two priming doses at the age of 8 and 16 weeks, followed by a booster dose at the age 12 months. Further information is available at [weblink 6](#).

Please ensure that you keep the change in schedule in mind when ordering Prevenar13 from ImmForm and do not order too much. We recommend that customers hold a maximum of 2-4 weeks stock to minimise the potential for wastage.

## Update to Bexsero Patient Information Leaflet

Every pack of Bexsero (Meningitis B vaccine; 10 doses) is supplied with a pad of ten Patient Information Leaflets (PILs), as well as there being a single PIL inside each Bexsero pack. Since late-September 2019, an updated version of the PIL pad has been distributed with Bexsero orders. Please dispose of the single PIL from inside the pack, as it will be out-of-date.

We will advise further when the PIL supplied in the pack is in line with the PIL pad.

## MMR vaccine ordering

There are currently two different vaccines available to order for the MMR programme, MMRvaxPRO<sup>®</sup> and Priorix<sup>®</sup>. Orders for Priorix<sup>®</sup> are capped at 20 packs per order per week for accounts in England and Wales. Controls are also in place for Scottish customers. This is needed to rebalance central supplies.

The alternative MMR vaccine, MMRvaxPRO<sup>®</sup>, remains available to order without restriction. If you specifically require additional Priorix<sup>®</sup> stock, for example because you serve communities that do not accept vaccines that contain porcine gelatine then please contact the ImmForm Helpdesk for assistance at [helpdesk@immform.org.uk](mailto:helpdesk@immform.org.uk) or 0844 376 0040.

## The EU Falsified Medicines Directive (FMD) and Delegated Regulation as applicable to PHE supplied vaccines for the national immunisation programme

Full information on FMD as it applies to centrally supplied vaccines for the National Immunisation Programme can be found in the April 2019 edition of Vaccine update at [weblink 7](#). ImmForm vaccines in FMD-compliant packs (i.e. subject to the requirements of the Delegated Regulation) are being distributed for all centrally-supplied products (see table on the following page).

We would encourage all of our customers to visit the GOV.UK page on FMD at [weblink 8](#) and spend some time becoming familiar with the content and links to various other guidance documents on the implementation of the legislation.

Product	Brand name	FMD-compliant packs will be issued which require verification and decommissioning
Pneumococcal conjugate vaccine (PCV)	Prevenar13	Live
DTaP/IPV vaccine for pregnant women	Boostrix-IPV	Live
Meningococcal Group ACWY vaccine	Nimenrix	Live
Measles-Mumps-Rubella (MMR) vaccine	MMR VaxPRO	Live
DTaP/IPV/Hib/HepB vaccine	Infanrix Hexa	Live
Tuberculosis vaccine (BCG)	BCG Vaccine AJV	Live
Meningococcal Group B vaccine	Bexsero	Live
Shingles (Herpes zoster) vaccine	Zostavax	Live
Hib/MenC vaccine	Menitorix	Live
Measles-Mumps-Rubella (MMR) vaccine	Priorix	Live
Rotavirus vaccine	Rotarix	Live
Human papillomavirus (HPV) vaccine	Gardasil	Live
DTaP/IPV vaccine for infants and pregnant women	Repevax	Live
Td/IPV vaccine	Revaxis	Live

Product	Brand name	FMD-compliant packs will be issued which require verification and decommissioning
LAIV	Fluenz Tetra	Live
Quadrivalent inactivated flu vaccine (QIVe)	Quadrivalent Influenza Vaccine (split virion, inactivated)	Live
Purified protein derivative (Mantoux test)	Tuberculin PPD-2TU	All stock will be in non-FMD packs (as it is unlicensed in UK)

**Please note that the barcode on Rotarix batch AROLC284AA (exp. 31/05/2021) is non-serialised and therefore cannot be verified or decommissioned.**

If you have identified yourself to PHE as being exempt from decommissioning under Article 23 of the Delegated Regulation and this has been agreed, then you will be supplied with decommissioned vaccine.

Please see our guidance for more information on the roles and responsibilities in relation to FMD and the Delegated Regulation, regarding vaccines and other medicines centrally supplied by PHE to the NHS and other customers. This document is accessible via GOV.UK at [weblink 9](#).

## Early notice: Easter and spring bank holiday delivery and order cut-off changes

Due to the Easter Holidays, there will not be any deliveries or order processing by Movianto UK on Friday **10 April 2020** or **Monday 13 April 2020**.

For all Easter and spring bank holidays, order cut-offs will be earlier for some customers with delivery days falling after the bank holidays, to allow enough time for order processing. Please see the tables below for revised order cut-off and delivery dates in bold.

Customers are reminded to be prepared for the break in deliveries and to order accordingly. Please make sure you have enough room in your fridge for any additional vaccine you wish to stock over this holiday period. Out of Schedule deliveries cannot be arranged for failure to place orders in good time.

Usual order cut-off day (by 11.55am)	Easter Holiday order cut-off dates (by 11.55 am; revisions are in bold)	Delivery Date
Wednesday	Wednesday 1 April 2020	Friday 3 April 2020
Thursday	Thursday 2 April 2020	Monday 6 April 2020
Friday	Friday 3 April 2020	Tuesday 7 April 2020
Monday	Monday 6 April 2020	Wednesday 8 April 2020

Usual order cut-off day (by 11.55am)	Easter Holiday order cut-off dates (by 11.55 am; revisions are in bold)	Delivery Date
Tuesday	Tuesday 7 April 2020	Thursday 9 April 2020
<b>Wednesday</b>	<b>Not applicable</b>	<b>No deliveries, Good Friday 10 April 2020</b>
<b>Thursday</b>	<b>Not applicable</b>	<b>No deliveries, Easter Monday 13 April 2020</b>
<b>Friday</b>	<b>Wednesday 8 April 2020</b>	<b>Tuesday 14 April 2020</b>
<b>Monday</b>	<b>Thursday 9 April 2020</b>	<b>Wednesday 15 April 2020</b>
Tuesday	Tuesday 14 April 2020	Thursday 16 April 2020
Wednesday	Wednesday 15 April 2020	Friday 17 April 2020
Thursday	Thursday 16 April 2020	Monday 20 April 2020

**For the Early May Bank Holiday, there will not be any deliveries or order processing by Movianto UK on Friday 8 May 2020. The following changes apply:**

Usual order cut-off day (by 11.55am)	Easter Holiday order cut-off dates (by 11.55 am; revisions are in bold)	Delivery Date
Wednesday	Wednesday 29 April 2020	Friday 1 May 2020
Thursday	Thursday 30 April 2020	Monday 4 May 2020
Friday	Friday 1 May 2020	Tuesday 5 May 2020
Monday	Monday 4 May 2020	Wednesday 6 May 2020
Tuesday	Tuesday 5 May 2020	Thursday 7 May 2020
<b>Wednesday</b>	<b>Not applicable</b>	<b>No deliveries, Early May Bank Holiday, Friday 8 May 2020</b>
<b>Thursday</b>	<b>Wednesday 6 May 2020</b>	<b>Monday 11 May 2020</b>
<b>Friday</b>	<b>Thursday 7 May 2020</b>	<b>Tuesday 12 May 2020</b>
Monday	Monday 11 May 2020	Wednesday 13 May 2020
Tuesday	Tuesday 12 May 2020	Thursday 14 May 2020
Wednesday	Wednesday 13 May 2020	Friday 15 May 2020
Thursday	Thursday 14 May 2020	Monday 18 May 2020

**For the late Spring May Bank Holiday, there will not be any deliveries or order processing by Movianto UK on Monday 25 May 2020. The following changes apply:**

Usual order cut-off day (by 11.55am)	Easter Holiday order cut-off dates (by 11.55 am; revisions are in bold)	Delivery Date
Thursday	Thursday 14 May 2020	Monday 18 May 2020
Friday	Friday 15 May 2020	Tuesday 19 May 2020
Monday	Monday 18 May 2020	Wednesday 20 May 2020
Tuesday	Tuesday 19 May 2020	Thursday 21 May 2020
Wednesday	Wednesday 20 May 2020	Friday 22 May 2020
<b>Thursday</b>	<b>Not applicable</b>	<b>No deliveries, Spring Bank Holiday Monday 25 May 2020</b>
<b>Friday</b>	<b>Thursday 21 May 2020</b>	<b>Tuesday 26 May 2020</b>
<b>Monday</b>	<b>Friday 22 May 2020</b>	<b>Wednesday 27 May 2020</b>
Tuesday	Tuesday 26 May 2020	Thursday 28 May 2020
Wednesday	Wednesday 27 May 2020	Friday 29 May 2020
Thursday	Thursday 28 May 2020	Monday 1 June 2020

# Non-centrally supplied

## – for the non routine programmes

### HEPATITIS A VACCINE

#### Adult

- **GSK:** Havrix Adult PFS singles and packs of 10 are available
- **Sanofi Pasteur:** Avaxim is available
- **MSD:** VAQTA Adult is available

#### Paediatric

- **GSK:** Havrix Paediatric PFS singles are currently unavailable. Resupply expected at the end of February 2020
- **GSK:** Havrix Paediatric PFS packs of 10 are available
- **MSD:** VAQTA Paediatric is available

### HEPATITIS B VACCINE

#### Adult

- **GSK:** Supplies of Engerix B PFS singles and packs of 10 are available
- **GSK:** Engerix B vials singles are available
- **GSK:** Engerix B vials packs of 10 are unavailable
- **GSK:** Fendrix is available
- **MSD:** HBVAXPRO 10 µg is out of stock until further notice
- **MSD:** HBVAXPRO 40 µg is out of stock until further notice

#### Paediatric

- **GSK:** Engerix B Paediatric singles are available
- **MSD:** HBVAXPRO 5µg are available

### COMBINED HEPATITIS A & B VACCINE

- **GSK:** Limited supplies of Twinrix Adult singles and packs of 10 are available
- **GSK:** Twinrix Paediatric is available
- **GSK:** Ambirix is available

### COMBINED HEPATITIS A & TYPHOID VACCINE

- **Sanofi Pasteur:** Viatim is available

### TYPHOID VACCINE

- **Sanofi Pasteur:** Typhim is available
- **PaxVax:** Vivotif is available

## RABIES VACCINE

- **GSK:** Supply of Rabipur is currently available
- **Sanofi Pasteur:** Rabies BP is currently out of stock. An alternative vaccine is available, please contact Sanofi Pasteur directly for more information

## PPV (PNEUMOCOCCAL POLYSACCHARIDE VACCINE)

- **MSD:** Limited supplies of Pneumococcal Polysaccharide Vaccine vials are available. (Please see page 12 of the Bug Special Vaccine Update. Issue 300, October 2019 for further information)
- **MSD:** Supplies of PNEUMOVAX 23 PFS are currently unavailable. Resupply is expected in May 2020

## PNEUMOCOCCAL POLYSACCHARIDE CONJUGATE VACCINE

- **Pfizer:** Prevenar 13 is available

## VARICELLA ZOSTER VACCINE

- **GSK:** Varilrix is currently available
- **MSD:** VARIVAX is currently available
- **MSD:** ZOSTAVAX is currently available

## DIPHTHERIA, TETANUS AND POLIOMYELITIS (INACTIVATED) VACCINE

- **Sanofi Pasteur:** Revaxis is available

## MMR

- **MSD:** Limited supply of MMRvaxPro is currently available
- **GSK:** Supply of Priorix is currently available.

## MENINGITIS ACWY VACCINE

- **GSK:** Supply of Menveo is available
- **Pfizer:** Nimenrix is currently available

## YELLOW FEVER

- **Sanofi Pasteur:** Stamaril is available

## HUMAN PAPILLOMAVIRUS VACCINE

- **MSD:** Limited supply of GARDASIL is available
- **MSD:** Gardasil 9 is currently available
- **GSK:** Cervarix is currently available

## CHOLERA VACCINE

- **Valneva:** Dukoral is available

## JAPANESE ENCEPHALYTIS VACCIN

- **Valneva:** Ixiaro is available  
Vaccine supply contact details: Valneva UK, Tel: 01252 761 007

## Web links

- weblink 1 <https://www.bbc.co.uk/news/health-51493496>
- weblink 2 <https://portal.immform.dh.gov.uk/Logon.aspx?returnurl=%2fVaccineSupply%2fVaccineSupply%2fStock-Incident%2fAdd-Stock-incident.aspx>
- weblink 3 <https://www.gov.uk/government/publications/influenza-vaccine-ovalbumin-content>
- weblink 4 [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/788903/Annual\\_national\\_flu\\_programme\\_2019\\_to\\_2020\\_.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/788903/Annual_national_flu_programme_2019_to_2020_.pdf)
- weblink 5 <https://www.gov.uk/government/publications/pertussis-the-green-book-chapter-24>
- weblink 6 <https://www.gov.uk/government/publications/vaccine-update-issue-303-december-2019-pcv-special-edition>
- weblink 7 <https://www.gov.uk/government/publications/vaccine-update-issue-293-april-2019>
- weblink 8 <https://www.gov.uk/guidance/implementing-the-falsified-medicines-directive-safety-features>
- weblink 9 <https://www.gov.uk/government/publications/fmd-guidance-for-recipients-of-phe-supplied-vaccines>
- weblink 10 <https://www.healthpublications.gov.uk/Home.html>
- weblink 11 <https://portal.immform.dh.gov.uk/Logon.aspx?returnurl=%2f>