



PARTICIPANT INFORMATION SHEET

The PCV15/PCV20 Study

Full title: Evaluation of higher valency pneumococcal vaccines (PCV15/ PCV20) compared to PCV13 given in homologous schedules at 3/4 months and 12 months ("1+1" schedule) and 2 months, 4 months and 12 months ("2+1" schedule) in infants.



You are invited to enrol your 2-month-old baby to take part in a study which will help guide decisions on future changes to the UK National Immunisation Schedule in relation to *Streptococcus pneumoniae* (pneumococcus) vaccines.

Before you decide whether you are interested in taking part it is important for you to understand why the research is being done and what it will involve. Please take time to read the following information carefully and discuss it with others if you wish. If anything is unclear or if you would like more information, please contact the study team.

The University of Nottingham Health Service, Cripps Health Centre,
University Park, NG7 2QW

Email: nnicb-nn.research@nhs.net. Telephone 0115 8227979

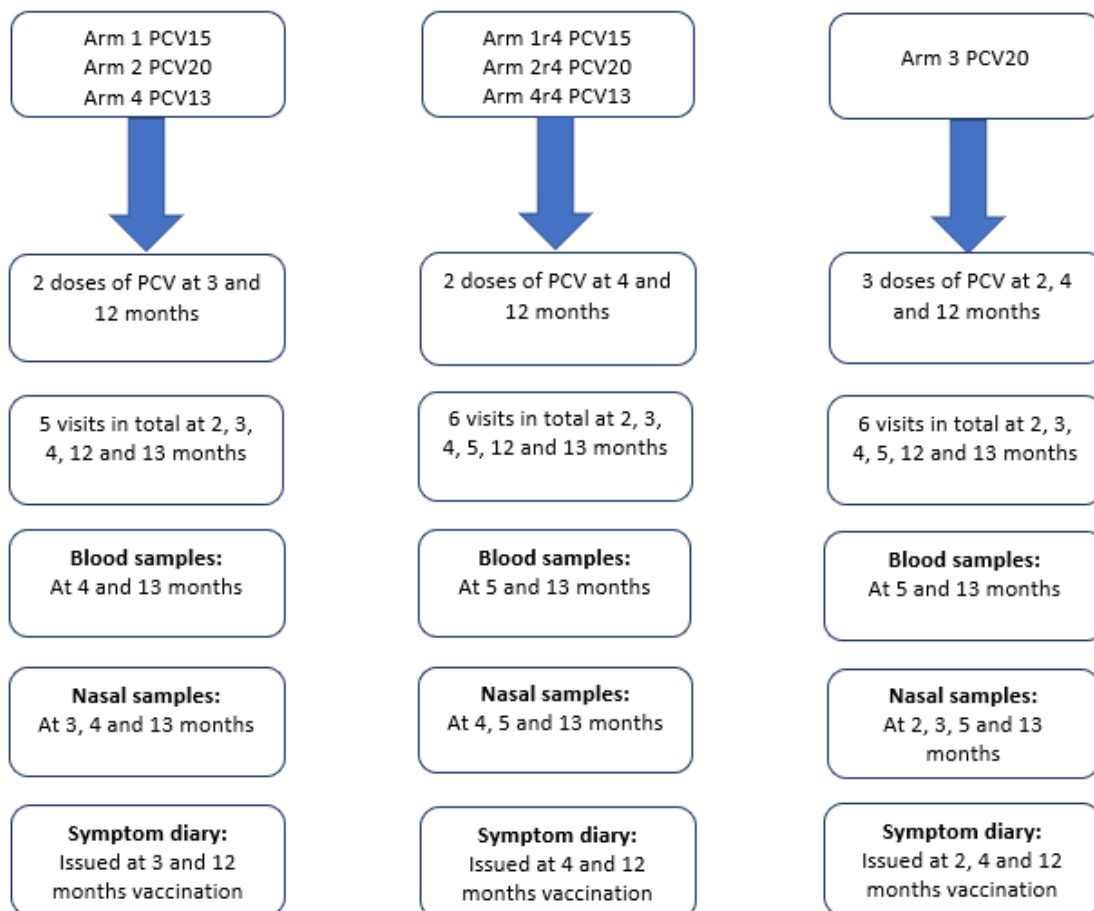
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Summary:

Study Overview:

- Goal: Evaluate protection by PCV15 and PCV20 compared to PCV13
- Participant: 600 healthy children (8 – 10 weeks old, unvaccinated)
- Routine vaccines: administered along with study vaccines
- Participant will be randomized to any of the 7 Arms mentioned below
- Study duration: 11 months
- Samples: Blood and nasal samples



Brief overview:

- Pneumonia, meningitis, and sepsis are serious (sometimes life-threatening) illnesses. They are particularly dangerous in young children, with babies under the age of two having highest risk of developing severe complications. They are all forms of pneumococcal disease, which is an infection caused by the bacteria *Streptococcus pneumoniae*, more commonly referred to as pneumococcal bacteria.
- The routine vaccine used currently in babies is PCV13 (Pneumococcal Conjugate Vaccine) that protects against 13 different types of pneumococcal bacteria and has proven effectiveness.
- However, there are over 90 different types of pneumococcal bacteria and we have seen an increase in disease caused by types not currently covered by the PCV13 vaccine.

What do we want to know? – To understand if the vaccines in the study (PCV15 and PCV20) can protect against more cases of serious disease in children and the adult population, than the existing vaccine PCV13.

Why has my child been invited to take part?

You have been approached because your child will shortly be due their routine immunisations and you live in an area where the study is being carried out.

If you have received this invitation through the post, it has been mailed to you either:

(i) by the Child Health Immunisation Service (CHIS) or other National Health Service equivalent databases within your local area. Please note: None of the study sites have been given your child's name or address through these databases. Please note that if you have opted out of contact from National Data Opt Out that does not apply to all NHS databases.

or

(ii) direct mailout can also be done by the local site to potential participants identified using the local site's birth registry information. This data is held at your local site only and is not transferred between sites.

Taking part in this study is voluntary.

Does my child need to take part?

No. Taking part in this research study is voluntary and if you decide to say no, it will not affect your child's routine care in any way.

What will happen if I don't want my child to carry on with the study?

If you did take part, you are also free to change your mind and withdraw your child at any time without giving an explanation. If you did withdraw your child from the study and a blood sample(s) has already been taken, we would use the sample(s) and data we have collected from your child in our analysis up until the point you informed us that you wanted to withdraw. If consent was obtained for storing samples for future research beyond the end of the study period, we will ask if you wish to withdraw from this also. We would not collect any further samples, but we may ask you to allow us to make a follow up phone call to check for any side effects your child may have had during their time in the study or after withdrawal.

If you withdraw from the study before receiving all the vaccinations till 12 months of age, as per the UK immunization we will inform you to contact your GP surgery to complete your child's immunization schedule.

Whatever you choose, it is important that you are happy with your decision, and it is not the role of the study team to help decide for you. We will help present the details of the study and answer all your questions so you can make an informed decision.

Can my child take part?

Infants must be due to receive their primary immunisations, aged 2 months (+ 2 weeks) for first vaccinations. Children with some medical conditions will not be able to take part. These include impaired immunity or if your baby has had a severe allergic reaction to anything. Other serious conditions may also prevent you from being part of the study. We will discuss this with you in more detail before we ask you to sign a consent form at the first visit.

Sometimes your baby may be eligible to take part but due to things like a high temperature 24 hours before vaccinations visits, taking antibiotics or receiving any other vaccines in the 14 days prior to study vaccines, may result in needing to delay their vaccinations until they are well again.

What will happen to my child if they take part in the study?

If you decide you might like to take part in the study, our study team will be available to answer your questions and make an appointment to see you and your baby.

We will talk about the study in detail, answer any further questions you may have and if you are willing to proceed, we will ask you to sign a consent form.

Attending the visits will be either a doctor or a nurse and on the days that we are taking a blood sample.

We will give your baby all of their vaccinations as outlined in table 2 and stay with you for at least 15 minutes after vaccination to make sure they are ok.

On the first visit we expect to be with you for about 1.5-2 hours. Further visits will take between 30 minutes and an hour.

You will be involved in the study for approximately 11 months in total. The study will continue until all participants at all sites around the UK have completed their final study visits.

The findings of the research will be written up in an academic publication and presented to the government to advise whether changes to the national immunisation schedule are advisable. Your child will not be identifiable in this publication.

Who is doing this study?

This study is being sponsored by the University of Oxford and coordinated by the Oxford Vaccine Group (OVG) which include scientists, doctors, nurses and play assistants who investigate infectious diseases and vaccines. The University of Nottingham Health Service, Cripps Health Centre is one of several sites across the UK recruiting to the study.

Funding has been received from NISEC, the National Immunization Schedule Evaluation Consortium. The funder will have no influence on study decisions or the results from the study.

What are we researching?

In this study, we would like to learn more about two vaccines that protect against diseases caused by pneumococcal bacteria.

The current vaccine given to 3 month and 12-month-old babies in the UK is called PCV13, and as its name suggests it provides protection against 13 of these types of bacteria. PCV13 has been very effective in reducing severe pneumococcal disease in children under 2 years of age since its introduction in 2010.

However, disease caused by different types of the pneumococcal bacteria not protected against by the PCV13 vaccine have increased, lessening the overall impact of the immunisation programme.

The vaccines we would like to research within this study are called PCV15 and PCV20. As their names suggest, they protect against 15 and 20 types of the pneumococcal bacteria.

In November 2022 the PCV15 vaccine was approved by the Medicines and Healthcare products Regulatory Agency for use in infants, children, and adolescents from 6 weeks of age to less than 18 years of age in the UK. PCV15 may be given to infants as part of the routine immunisation schedule.

In September 2024 the PCV20 vaccine was approved by the Medicines and Healthcare products Regulatory Agency for use in infants, children, and adolescents from 6 weeks of age to less than 18 years of age in the UK. PCV20 is not currently included in the UK national immunisation schedule. Compared to the current PCV vaccination given as a part of UK infant immunisation schedule, PCV15 and PCV20 may provide better protection to both children and the adult population against pneumococcal disease.

In addition, we would also like to look at the effectiveness of receiving three doses of PCV20 at 2, 4 and 12 months of age.

Recent findings from the “Lion MenB” study show that giving the 4CMenB vaccine (which protects against a serious infection called meningitis B) at 2 and 3 months of age, instead of 2 and 4 months,

helps protect babies earlier without affecting how well the vaccine works in the long run. To make this new timing work, the first dose of the PCV13 vaccine (which protects against pneumonia and other infections) was given at 4 months instead of 3 months for LionMenB study.

As a result, the UK has updated its infant immunization schedule: babies born after 01 July 2025 will be given the 4CMenB vaccine earlier at 3 months and the first PCV dose at 4 months.

In August 2025, the UK government announced the introduction of a chickenpox (varicella) vaccination programme in England, commencing in January 2026. To align with the revised national immunisation schedule, all participants will be offered either the MMR (the combined measles, mumps, rubella vaccine) or MMRV (the combined measles, mumps, rubella, and varicella vaccine) in accordance with the current national immunisation schedule at the time.

The current PCV15/PCV20 study will allow to compare how well a 1+1 schedule of PCV15 and PCV20 works when given at 4 months versus 3 months.

Will compensation be offered?

If study visits occur in the participant's homes, reimbursement will not be provided. If the parents/legal guardians need to travel with the participant to attend appointments at a study site location, they will be reimbursed for their travel expenses at a flat rate of £25 per visit attended.

If the parent/legal guardian withdraws consent for their child's continued participation in the trial or is withdrawn for any other reason, they will still be compensated for any trial visits they attended in a clinical setting.

What happens in the study?

The study is looking to recruit 600 healthy babies who;

- Are 8-10 weeks of age, healthy and were born after 37 weeks gestational age
- Have not yet received their first vaccinations

This study involves:

- Two doses of either PCV15, PCV20, or PCV13, or three doses of PCV20 along with their other routine vaccines as outlined in Table 2
- 5 or 6 visits over an 11-month period if receiving two doses of either PCV15, PCV20, or PCV13 or 6 visits over an 11-month period if receiving three doses of PCV20
- 2 blood samples taken at different time points
- 3 samples of nasal secretions with a small paper swab if receiving two doses of either PCV15, PCV20, or PCV13 or 4 samples of nasal secretions with a small paper swab if receiving three doses of PCV20
- Completion of a symptom diary after the 3 or 4 month and 12-month vaccinations (on the day of vaccination and for the following 6 days) if receiving two doses of either PCV15, PCV20, or PCV13
- Completion of a symptom diary after the 2, 4 month and 12-month vaccinations (on the day of vaccination and for the following 6 days) if receiving three doses of PCV20

Infants will be randomly assigned to one of four different treatment groups (as outlined in Figure 1). Infants in groups 1, 2 and 4 will be further randomized to receive first dose of PCV13/15/20 at three months or four months

All participants will have two blood samples taken at 4 or 5 and 13 months of age. Children receiving two doses of PCV will have 3 nasal samples while children receiving 3 doses of PCV will have 4 nasal samples taken throughout the study period as explained in table 1.1, 1.2 and 1.3.

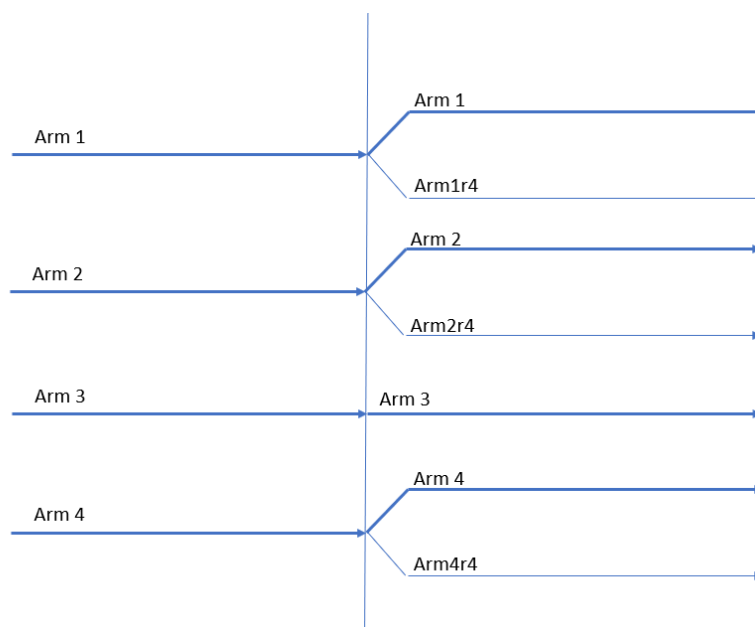


Figure 1: Randomisation diagram

Arm 1, 2, 4 – first dose of PCV at 3 months of age; Arm 1r4, 2r4, 4r4 – first dose of PCV at 4 months of age

Table 1.1: General overview of study visits and sampling timelines for ARMs 1, 2 and 4

Visit Number	V1 2 months + 2 weeks	V2 3months + 2 weeks	V3 4 months + 2 weeks	V3A 5 months + 2 weeks	V4 12 months + 2 weeks	V5 13 months + 2 weeks
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ARM 1 – PCV 15 (3 and 12 months) ARM 2 – PCV 20 (3 and 12 months) ARM 4 – PCV 13 (3 and 12 months)				No Visit		
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Table 1.2: General overview of study visits and sampling timelines for ARM 3

Visit Number	V1 2 months + 2 weeks	V2 3 months + 2 weeks	V3 4 months + 2 weeks	V3A 5 months + 2 weeks	V4 12 months + 2 weeks	V5 13 months + 2 weeks
ARM 3 – PCV 20 (2, 4 and 12 months)						

Table 1.3: General overview of study visits and sampling timelines for ARMs 1r4, 2r4, and 4r4

Visit Number	V1 2 months + 2 weeks	V2 3 months + 2 weeks	V3 4 months + 2 weeks	V3A 5 months + 2 weeks	V4 12 months + 2 weeks	V5 13 months + 2 weeks
ARM 1r4 – PCV 15 (4 and 12 months) ARM 2r4 – PCV 20 (4 and 12 months) ARM 4r4 – PCV 13 (4 and 12 months)						

- Consent form signed,  - Axillary Temperature,  - Vaccination,  - Paracetamol administered,
 -Nasal Sample,  - Blood Sample,  - Diary

Table 2: Study and routine vaccinations

* For babies that have not had MenB vaccine at Visit 2

Vaccination Plan						
Arms	Visit 1 Age 2 months	Visit 2 Age 3 months	Visit 3 Age 4 months	Visit 3 (A) Age 5 months	Visit 4 Age 12 months	Visit 5 Age 13 months
1 – PCV 15 (3 and 12 mo.) 2 – PCV 20 (3 and 12 mo.) 4 – PCV 13 (3 and 12 mo.)	6:1 Rota MenB	6:1 Rota PCV MenB	6:1 (MenB)*		MenB MMR or MMRV** PCV	
1r4 – PCV 15 (4 and 12 mo.) 2r4 – PCV 20 (4 and 12 mo.) 4r4 – PCV 13 (4 and 12 mo.)	6:1 Rota MenB	6:1 Rota MenB	6:1 PCV		MenB MMR or MMRV** PCV	
3 – PCV20 (2, 4 and 12mo.)	6:1 Rota MenB PCV 20	6:1 Rota MenB	6:1 (MenB)* PCV20		MenB MMR or MMRV** PCV20	
Current UK immunization schedule	6:1 Rota MenB	6:1 Rota MenB	6:1 PCV13		MenB MMR or MMRV** PCV13	

** depending on the standard national immunisation schedule at the time of the visit

The short forms of the vaccine names used in the above table are explained here:

6in1 – Is a **combined vaccine containing** diphtheria, tetanus, acellular pertussis (whooping cough), Haemophilus influenzae b, hepatitis B, and inactivated polio vaccines

PCV13: pneumococcal conjugated vaccine

Rotarix: rotavirus vaccine

MenB: meningococcal B vaccine

MMR: measles, mumps, rubella vaccine

MMRV: measles, mumps, rubella and varicella vaccine

Randomisation

The arm that your child is allocated to is decided by chance, like tossing a coin. In this study, we will use a computer programme to allocate the group and there will be a 25% chance that your child will enter a particular group. Infants in groups 1, 2 and 4 will be further randomized to receive first dose of PCV13/15/20 at three months (same as group 1, 2 and 4) or four months (group 1r4, 2r4 or 4r4).

The study is an open label-study, this means you will be informed about the PCV vaccines your child will be given when allocated in any of the group. Neither you, nor the study team will be able to change which vaccine your child is given.

Sample collections and diaries

Blood sample:

In order to understand the effect of the vaccines your child will have 2 blood samples. (See Table 1.1, 1.2 and 1.3).

The blood samples will allow us to see how your child's immune system has responded to their vaccinations.

We will take up to 4mls of blood (less than a teaspoon) when your child is under 5 months, up to 5mls of blood when 5 months of age and up to 6mls of blood after they turn 1 year of age.

We will use local anaesthetic cream to help numb the skin prior to taking the blood samples (note these take 45 minutes to work). The cream blocks the nerve signals in the skin where it is applied and helps to reduce any pain. The study team will explain how to use the cream before the visits. The study team will have a maximum of 2 attempts when taking blood. If the first attempt is unsuccessful, it is your decision whether we have another attempt or not. If no blood sample is obtained, an additional visit (to attempt venepuncture again) may be rescheduled for another day within the visit timelines, with parental/legal guardian consent.

Nasal (Mucosal) fluid sampling:

We will also collect samples of nasal secretions at 3 of the study visits if receiving two doses of either PCV 15, PCV 20, or PCV 13. We will collect samples of nasal secretions at 4 of the study visits if receiving three doses of PCV20. This will be done using a paper nose swab, which looks like soft paper. This will be inserted up the nostril and then the outside of the nose is pressed gently closed with a finger, so it touches the passage of the nostril for 60 seconds. The procedure may tickle a bit but is painless. These swabs will give us information about how the immune system in the nose changes after vaccination.



Figure 1: a nasal fluid sampling swab - this is a paper like sampling swab that has a smaller end to take the sample, and a larger end to hold the swab.

Diary:

After your child's vaccinations at 3 or 4 months and 12 months, if receiving two doses of either PCV15, PCV20, or PCV13, we will ask you to fill in an electronic or paper diary for 7 days. After your child's vaccinations at 2, 4 and 12 months, if receiving three doses of PCV20 we will ask you to fill in an electronic or paper diary for 7 days. A thermometer and a ruler will be given to record if your child has a temperature or any reactions following their vaccinations.

Participation in future research

If you have answered Yes to questions 12 and 13 in the Informed Consent Form you may be contacted about future ethically approved research studies for which your child may be suitable and about studies in the future that are related to this study. All contact in relation to such future participation in research will only come from this study team in the first instance. If you wish you can be removed from the register of participation in future research at any time.

Your contact details will be held securely, in a participant management database separate from the PCV15/PCV20 study clinical database on a password protected computer in the Oxford Vaccine Group accessible by delegated Oxford Vaccine Group Staff.

What are the possible side effects of the vaccines and of blood sampling?

Blood Sampling:

The blood sampling may be uncomfortable but will be performed by trained staff and anaesthetic (numbing) cream will be provided to reduce any pain. There may be some short-term bleeding and/or bruising following the blood sampling.

Vaccines:

During this study, apart from the PCV vaccines, all vaccines are given at the same time point that your child will receive them with your GP or nurse (see table 2). With those vaccines, the side effects are the same for all children. It is expected that children may experience some redness and mild swelling where the injection is given. Fever, irritability, sleepiness or reduced sleep, reduced feeding, diarrhoea or a rash are often seen. These reactions are usually mild and short-lived. Much less frequently, children may develop a high temperature (>40 degrees) which resolves after a day. Very occasionally, infants may become pale, floppy and less responsive than normal (hypotonic-hypo responsive episode) following their vaccinations. This can occur immediately or up to 48 hours after vaccinations.

If this does occur, it will normally resolve without long-term consequences and does not usually happen again with further doses.

Very rarely, children can also have allergic reactions. An immediate, severe allergic reaction (anaphylaxis) can result in a rash, swelling of the body and breathing difficulties. The study team will observe your child for 15 minutes following their vaccinations as this is the time when most allergic reactions are expected to happen. The study team members carry medicine to treat these reactions (adrenaline) and are trained to administer it should such a reaction occur.

Information on specific vaccines

With the **MenB** vaccine, there is a higher risk of your child developing a fever when compared with the other vaccines in the UK schedule. This is more common (~ 7 in 10 cases) when given at the same time as the other routine immunisations. Therefore, as per recommendations we will advise you to give your child 3 doses of paracetamol, 6 hours apart after they have received this vaccine.

The **Rotarix vaccine** is a weakened form of rotavirus itself and so can cause mild symptoms of diarrhoea, nausea and irritability.

The **MMR/MMRV** will often have a delayed reaction and around 7 to 11 days in the case of MMR, 5 to 12 days in the case of MMRV after the injection your child may feel a bit unwell or develop a high temperature for 2-3 days.

PCV15

With PCV15 vaccine it has been observed that infants and children from 6 weeks to less than 2 years of age receiving the vaccine might get some mild side effects which includes fever, irritability, drowsiness, tenderness at the immunisation site, and decreased appetite. These mild side effects should not be of concern but if you do have any concern please contact the study team using the contact details on page 1 of this document.

PCV20

As with PCV15, PCV20 also might cause some mild side effects including redness, swelling, pain at the immunization site, fever, loss of appetite, irritability and lethargy. These mild side effects should not be of concern but if you do have any concern please contact the study team using the contact details on page 1 of this document.

Are there any benefits to taking part?

By taking part in this study, your child will receive all their routine vaccinations up to and including 12 months of age at the study specific site, and children in arm 3 will receive an additional dose of PCV20. You will also have access to a 24- hour paediatric study doctor for the duration of the study.

If your child receives either PCV15 or PCV20 they will be immunized against more types of pneumococcal bacteria than if they had received the PCV13 only.

What will happen to information collected in the study?

Data Protection:

We will collect information about your child's health to assess if they would be able to take part in this study. Initially we use an online screening questionnaire. For those participants who proceed to take part in the study, the data from the screening questionnaire will be kept with their study records. For those who do not proceed to participate in the study, all answers from the screening questionnaire will be kept until the end of the study recruitment period and we will then be deleted.

Your child will be given a study number, which will be used on study paperwork and all samples. Any paper notes will be held securely at the study site. With your permission, we may need to obtain information from your child's medical records to confirm medical history or vaccinations received. We will inform your child's GP practice/health visitor that your child is taking part in the study and that we will be giving all the routine vaccinations up to and including 12 months of age. The services responsible for recording all childhood vaccines given in the UK will be informed of the vaccines your child has received in this study.

UK General Data Protection Regulation (GDPR) requires that we state the legal basis for processing information about you. Medical research is regarded as "a task in the public interest". The University of Oxford is the 'data controller' and is responsible for looking after your information and using it properly. We will be using information from you and your child's medical records, namely GP records, NHS England, CHIS and other central NHS registries to undertake this study.

We will use as little personally identifiable information as possible. We will store the research data and any electronic research documents with personal information, such as consent forms, securely in password protected computers within OVG with authorised access only, for up to 25 years after the end of the study, or as per national regulatory requirements. Your email address is required for electronic diaries, for them to function. Only site research staff and sponsor data managers will have access to view your email address, and you will need to consent to this. Your email address will be deleted at the end of the study when no longer required. It will not be possible to identify your child in any publication or report.

The University of Nottingham Health Service, Cripps Health Centre will use your and your child's name and contact details to contact you about the research study and make sure that relevant information about the study is recorded for your child's care, and to oversee the quality of the study. Individuals from The University of Nottingham Health Service, Cripps Health Centre and regulatory organisation may look at your child's medical and research records to check the accuracy of the research study. The only people in The University of Nottingham Health Service, Cripps Health Centre or <University of Oxford> who will have access to information that identifies you and your child will be people who need to contact you about the study, or the care of your child, or to monitor/audit the data collection process. The people who analyse the information collected and the samples will not be able to identify your child and will not be able to find out your child's name or your contact details. If you withdraw from the study, we will keep the information about your child that we have already obtained, including blood samples and symptom diary data, but if you prefer you can request for the samples to be

destroyed (they may already have been analysed). We may contact you about future studies if you have indicated this on the consent form.

We will keep your contact details confidentially to inform you about the results of the research. Once the research has been published, we will only keep your child's date of birth and name to allow us to identify your child should you make an enquiry about the study. Files will be confidentially destroyed when storage is no longer required.

Data protection regulation provides you with control over your personal data and how it is used. When you agree to your information being used in research, however, some of those rights may be limited so that the research is reliable and accurate. You can find out more about how we use your information by contacting The University of Nottingham Health Service, Cripps Health Centre either by telephone on 0115 822 7979 by emailing nnicb-nn.research@nhs.net.

Further information about your rights with respect to your personal data is available at <https://compliance.web.ox.ac.uk/individual-rights>. Contact details of the sponsor's data protection office: The Information Compliance Team, University of Oxford, Wellington Square Oxford OX1 2JD; data.protection@admin.ox.ac.uk.

What will happen to the samples collected in the study?

Blood and nasal samples collected at the visits will be transported to the laboratory in a cool bag, processed at The University of Nottingham Health Service, Cripps Health Centre and frozen within 24 hours of collection to be stored at The University of Nottingham Health Service, Cripps Health Centre. All frozen samples will be shipped to OVG laboratory. Blood samples will then be sent to other laboratories in the UK and Europe for analysis. Samples will be labelled with a number, not your child's name. No genetic analysis will be undertaken for this study. However, we may also ask you whether part of the blood or nasal samples remaining after the study tests have been done, may be stored in the Oxford Vaccine Group library of samples ("Biobank"). If you agree to this, we will provide you with the relevant information booklet and ask you to sign a separate consent form. If you decide to consent to Biobank, then storing samples for genetic analysis is an option. If you decide otherwise, your left-over samples will be destroyed after the end of the study. You can opt out of having samples stored in the Biobank and still take part in the study.

Who to contact if I have a concern or wish to complain?

If you wish to complain about any aspect of the way in which you have been approached or treated during this study, you should contact your local study team at 0115 822 7979 or email nnicb-nn.research@nhs.net. You may also contact the University of Oxford RGEA (Research Governance and Ethics Assurance) at RGEA.Sponsor@admin.ox.ac.uk.

The investigators recognise the important contribution that volunteers make to medical research and will make every effort to ensure your safety and wellbeing. The University of Oxford, as the research sponsor, has appropriate insurance in place in the unlikely event that you suffer any harm as a direct consequence of your taking part in this study. If something does go wrong, you are harmed during the research, and this is due to someone's negligence, then you may have grounds for legal action for compensation. While the Sponsor will cooperate with any claim, you may wish to seek independent

legal advice to ensure that you are properly represented in pursuing any complaint. The study doctor can advise you of further clinical action and refer you to a doctor within the NHS for treatment, if necessary. NHS indemnity operates in respect of the clinical treatment which is provided.

The Patient Advisory Liaison Service (PALS) is a confidential NHS service that can provide you with support for any complaints or queries you may have regarding the care you receive as an NHS patient. PALS is unable to provide information about this research study.

If you wish to contact the PALS team please contact 0115 883 9570 or email nnicb-nn.patientexperience@nhs.net.

What happens at the end of the study?

We will inform your GP practice and the CHIS when you complete (or withdraw from) the study. We will provide the study findings on our website; a summary of this will be sent to you with a link, to enable you to access the full information.

Who has reviewed this study?

Research Ethics Committee must approve all research studies of this sort. This project has been approved by Research Ethics Committee of South Central - Hampshire A (REC reference: 24/SC/0222). The Oxford Vaccine Group Patient and Public Involvement group has reviewed the main participant-facing documents associated with this study (study information booklet, consent form, lay summary, invitation letter and advertising materials).

What should I do now if I am interested in taking part?

You do not need to make a final decision straight away. If you decide for your child to take part in this study or have any questions, you can:

- Access information via our website <https://www.ovg.ox.ac.uk/studies/pcv/unhs>
- Contact the research team by the phone number or e-mail address given below.
- Complete the online screening questionnaire: <https://www.ovg.ox.ac.uk/studies/pcv/unhs>

If your response reaches us after the study has finished recruitment, we will let you know.

A postcard reminder may be posted to you by the Child Health Information Service, or another equivalent NHS database, as described above. If we do not hear from you after this, we will assume that you do not want to take part.

Thank you for taking the time to read this information sheet and considering being involved. Members of the study team will be happy to discuss the study with you and answer any questions you may have.

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Yours Sincerely,

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Honorary Senior Clinical Lecturer