## Immunisations on the UHL Neonatal Units

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### 1. Introduction and who this guideline applies to:

This guideline is aimed at all Health care professionals involved in the care of infants within the Neonatal Service.

Vaccinations are an important defence against infectious diseases. These guidelines have been produced to inform staff working within University Hospitals Leicester Neonatal service about the most up to date recommendations for the timing of infant immunisations. Immunisations are given as per the routine childhood immunisation schedule.

### **Key Points**

• The guidance given below is applicable to infants of ALL GESTATIONS<sup>1</sup> (additional immunisations for preterm infants below a certain gestation are no longer advocated and the previous advice no longer applies.)<sup>1</sup>

In all cases vaccinations should be administered unless specifically contraindicated e.g. live vaccines in immune-compromised babies, or those babies who haven't yet received a 'SCID not suspected' outcome after new born screening.

Vaccinations are given at the infant's postnatal age, not at their corrected gestational age

A summary of the UK immunisation schedule2 can be found at <u>https://www.gov.uk/government/publications/routine-childhood-immunisation-schedule</u>

### **Related documents:**

Newborn Screening for Severe Combined Immune Deficiency (SCID) UHL Neonatal Guideline Influenza Vaccination in Primary Immune Deficiency Patients UHL Childrens Hospital Guideline Hepatitis B and Syphilis Screening in Pregnancy UHL Obstetric Guideline Hepatitis C Screening in Pregnancy UHL Obstetric Guideline

### 2. When to immunise - What vaccine is given? How is it given?

Detailed information about the current routine immunisation schedule is available in the Green book: <u>https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book</u>

### Technique & site

The anterior aspect of the thigh(s) is the best site for vaccinations in the neonate. All vaccinations (except BCG and oral rotavirus) should be given by deep subcutaneous or intramuscular injection. In infants a size 23 or 25G needle should be used. Remember:

- Individual sites will be needed for the various injections; document which sites have been used for which injections.
- Sites to be used include anterior aspect of thigh, and deltoid if both thighs have been used.

### Notes:

**1. Prematurity** - All infants should be immunised according to their chronological age, irrespective of gestation. The incidence of apnoeas following vaccination is increased in infants who were born very prematurely<sup>3,4,5,6</sup>.

- Infants with all of these factors should have heart rate and saturation monitoring for 48-72 hours:
  - born at <29<sup>+0</sup> weeks
  - o receiving their immunisation on NNU
  - o having desaturations / bradycardias in the 72 hours pre-immunisation
- Additionally, babies in supplemental oxygen receiving their first immunisation in hospital should be monitored for 48-72 hours.
- Babies that have been discharged from NNU prior to receiving their first immunisation can be immunised in the community in the usual way.

If any baby has apnoea, bradycardia or desaturations following immunisation in hospital or at home subsequent immunisation in hospital should be considered and this decision informed by their response to previous immunisation. Adverse reactions need to be documented (see point 12).

### 3. Impact of SCID newborn screening

Babies screened locally have newborn screening for SCID and should not receive live vaccines until their screening outcome is known. There are 3 possible screening outcomes:

- **'SCID is not suspected'**: can received the standard immunisation schedule including live vaccines
- Intermediate result: needs repeat screening at 37 weeks or discharge, whichever is sooner. This outcome is more common among preterm babies. Until the repeat screen outcome is known they should not receive live vaccines, but this should not delay the receipt of other vaccines.
- 'SCID suspected' either at initial or repeat screening; blood needs to go to immunology for flow cytometry, which may need to be repeated at a later date. These babies should only receive live vaccines once Immunology have confirmed it is safe for them to do so; some babies may be able to receive rotavirus but not BCG.

# Newborn Screening for Severe Combined Immune Deficiency (SCID) UHL Neonatal Guideline

### 4. Meningitis B

(https://www.gov.uk/government/publications/meningococcal-the-green-book-chapter-22) all infants given this vaccine should receive 3 doses of post immunisation paracetamol following the dosage guidelines in the neonatal formulary.

### 5. Polio

(https://www.gov.uk/government/publications/polio-the-green-book-chapter-26)

The polio vaccine is now given in the inactivated form (IPV), as a component of the 6 in 1 vaccine on NNU. This inactivated vaccine is not excreted in a transmissible form and there is no risk to other infants.

### 6. Rotavirus vaccine

(https://www.gov.uk/government/publications/rotavirus-the-green-book-chapter-27b) is a live. attenuated vaccine given orally. Two doses are required. The first is given between  $6^{+0}$  weeks and  $14^{+6}$  weeks post-delivery, the second must be given by  $23^{+6}$  weeks. The two doses must be given at least 4 weeks apart. The weakened virus is excreted in stools and there is a low risk of transmission to people changing the nappy. Good hand washing following nappy changes should prevent transmission.

- Rotavirus vaccine can be given at the usual time to babies who are still inpatients on NNU
- Try to coordinate with 8 week vaccinations if possible
- Contra-indicated in babies with SCID (severe combined immunodeficiency) or awaiting SCID screening outcome - see SCID screening section.
- Contraindicated in babies who have had or are at high risk of getting • intussusception. If baby has had abdominal surgery discuss with neonatal consultant prior to immunisation with rotavirus vaccine
- Contra-indicated in immunosuppressed infants (e.g. SCID, maternal anti-• TNF $\alpha$  treatment in pregnancy where the infant is currently < 6months old, maternal Tocilizumab (used as a Covid treatment) or other immunosuppressant biologics)

### 7. Influenza

(https://www.gov.uk/government/publications/influenza-the-green-book-chapter-19) can be given as an intramuscular inactivated quadrivalent vaccine or as a live attenuated intranasal influenza vaccine.

Children aged six months to less than two years of age in clinical risk groups (Table 1) should be offered inactivated quadrivalent influenza vaccine. Prematurity on its own is not a qualifying risk factor. Those who have not received influenza vaccine previously should be offered a second dose of vaccine, at least four weeks later. The inactivated influenza vaccines are interchangeable.

The first dose is licensed to be given after 6 months chronological age and a 0.5ml dose is given. Please advise GPs of the need to do this in the immunisations section of the Badger discharge letter. Currently the live attenuated intranasal influenza vaccine is not recommended for infants under 2 years old<sup>1</sup>.

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Table 1: Influenza vaccination eligibility				
Age	Eligibility	Vaccine available		
6 months to <2 years*	CLD / BPD	Quadrivalent		
	Congenital heart disease	inactivated flu vaccine		
	Liver disease			
	Kidney disease			
	Immunosuppressed			
2 years to <18 years	Everyone***	Live attenuated		
		intranasal vaccine		
		(LAIV)		
		(Fluenz <sup>™</sup> Tetra) <sup>**</sup>		
*Repeat quadrivalent inactivated flu vaccine after at least 4 weeks				
**if LAIV medically contraindicated give quadrivalent inactivated flu vaccine				
*** See annual flu letters for England and the Devolved Administrations for the cohorts				
of children not in clinical risk groups that are eligible for influenza vaccination for the				
coming/current season.				

Household contacts of babies with risk factors listed in Table 1 should be advised to have an influenza immunisation as soon as possible.

### 8. Steroids

Infants who have received a standard 10 day 'DART' steroid regime or a Premilock steroid regime can receive the usual vaccination schedule. For babies that have received prolonged (>10 days) or multiple courses of steroids please refer to the neonatal pharmacist so that the total steroid exposure can be calculated. This will inform decisions as to whether live vaccination (e.g. BCG) needs to be delayed for 3 months after the cessation of steroids in accordance with the 'green book'<sup>1</sup>. In practice infants receiving prolonged courses of steroid are unlikely to receive the rotavirus vaccine because of the time frame in which it needs to be given.

### Please seek public health advice for discussion of any special cases-Health Protection Agency East Midlands South Health Protection Unit-

### 9. BCG vaccination

(<u>https://www.gov.uk/government/publications/tuberculosis-the-green-book-chapter-32</u>) mothers whose infants will need BCG vaccination are informed of this during their antenatal care and the BCG immunisation is given by St. Peters Health Centre or by their GP. Community BCG vaccination is organised by the TB nurse.

High risk patients are those with ethnic origin outside North America, Europe and Australia/NZ, and those with a family history of TB. If current family members have been on treatment for TB for <2 weeks then baby may need preventive treatment – discuss with TB nurses.

Contraindications to BCG vaccination are known immunodeficiency e.g.

SCID, Chronic Granulomatous Disease) Maternal anti-TNFα treatment in pregnancy where the infant is currently < 6months old, maternal Tocilizumab (used as a Covid treatment) or other immunosuppressant biologics). Where infant is awaiting SCID screening outcome – see SCID screening section. If unclear discuss with neonatal consultant.

### 10. Hepatitis B vaccination

(<u>https://www.gov.uk/government/publications/hepatitis-b-the-green-book-chapter-18</u>) - All pregnant women are offered antenatal screening for hepatitis B. The hepatitis B virus has three major structural antigens: surface antigen (HBsAg), core antigen (HBcAg), and e antigen (HBeAg). All mothers who are HBsAg+ve are infectious.

Immunisation reduces the risk that an infant born to a mother who is hepatitis B +ve will develop chronic active hepatitis or hepatocellular carcinoma as a young adult. Higher risk infants receive 250 international units Hepatitis B immunoglobulin IM within 24 hours of birth (see table below). Prior to vaccination +/- immunoglobulin blood samples from the baby should be sent to virology for hepatitis serology and PCR.

Table 2: Which babies need HB vaccination +/- HB immunoglobulin				
Hepatitis B status of mother	Baby should receive			
	Hepatitis B vaccine	HBIG		
Mother is HBsAg positive and HBeAg positive	Yes	Yes		
Mother is HBsAg positive, HBeAg negative and anti-HBe negative	Yes	Yes		
Mother had acute hepatitis B during pregnancy	Yes	Yes		
Mother is HBsAg positive and anti-HBe positive	Yes	No		
Mother is HBsAg positive and known to have an HBV DNA level equal or above 1x10 <sup>6</sup> IUs/ml in any antenatal sample during this pregnancy (regardless of HBeAg and anti-HBe status)	Yes	Yes		
Mother is HBsAg positive and baby weighs 1500g or less	Yes	Yes		

### Hepatitis B vaccination of pre-term babies

Response to Hepatitis B vaccine is lower in pre-term, low-birth weight babies so it is important that premature infants receive the full paediatric dose of hepatitis B vaccine on schedule. Babies born to mothers infected with hepatitis B, with a birthweight of 1500g or less, should receive HBIG in addition to the vaccine, regardless of the e-antigen status or viral load of the mother. As the benefit of

vaccination is high in this group of infants, vaccination should not be withheld or delayed.

### For all babies born to Hepatitis B +ve mothers

- Complete formatted referral letter to Consultant Paediatrician (Ext 15525) (Appendix A)
- Inform Hepatitis B Specialist Nurse on ext 15990
- NNU follow up is not needed unless there are additional neonatal problems.
- At NIPE check please write clearly on the immunisation, all the relevant details related to giving the vaccine.

### **Other Hepatitis B Risk Factors**

Check that there are no other concerns with mum (Hepatitis C / HIV / IV drug use)

 If either mum or dad are Hepatitis C +ve, HIV +ve or IV drug users then the baby should receive Hepatitis B immunisation (but immunoglobulin only if they qualify as per Table 2)

# Post-exposure schedule and follow-up for the selective neonatal Hepatitis B programme

Babies born to hepatitis B infected mothers should be vaccinated using an accelerated immunisation schedule with a dose of hepatitis-B containing vaccine at birth, 4 weeks and 8 weeks of age. As the routine childhood immunisation programme includes hepatitis B, these infants will receive monovalent vaccine at birth and 4 weeks, but hexavalent hepatitis B-containing vaccine instead of monovalent vaccine at 8 weeks. They should then receive additional hexavalent vaccine doses at 12 and 16 weeks.

A further dose of monovalent HB vaccine is given at one year of age, alongside a test for HBsAg. Testing at one year of age is important to identify babies who have become chronically infected with hepatitis B despite vaccination, and will allow prompt referral for further management. This testing can be carried out at the same time as the dose at one year of age is given, or soon after.

A further dose of hepatitis B-containing vaccine at 3 years and 4 months is no longer recommended for those children who have completed their routine primary immunisations with the hexavalent hepatitis B-containing vaccine.

**Maternal treatment** – some mothers may require treatment for Hepatitis B, this will be dealt with by the obstetric team, further details can be found in the Hepatitis B and Syphilis Screening in Pregnancy UHL Obstetric Guideline Hepatitis B & Syphilis Screening in Pregnancy; Hepatitis C Screening in Pregnancy UHL Obstetric Guideline available on insite.

### **11. Coronavirus vaccinations**

Multiple vaccines against SARS-COV-2 were developed in 2020 and started to be administered in 2021 with prioritisation according to risk profiles. Fortunately, initial

concerns that SARS-COV-2 infection might be more severe in preterm babies were not realised, with no deaths attributable to SARS-CoV-2 reported in neonates in the UK between March and April, 2020<sup>8</sup>.

The situation around coronavirus vaccination is liable to change and up to date information from JCVI or government websites should be sought.

### **12. Documentation**

All immunisations given and reason for any omissions should be written in the 'Child Health Record' (red book) and in the immunisation section on BadgerNet. Clearly document what has been given; how much; site(s) of any injections; who administered the immunisations; and the vaccination batch number and expiry date.

Note: Whenever an immunisation is carried out on NNU output PDF from badger. Attached form to email addressed to <a href="https://www.updates.org">lpt.childhealthrecords@nhs.net</a>

so details can be entered onto the Child Health Computer.

### 13. Consent

Consent by someone with legal parental responsibility and capacity **MUST** have given prior to administering any vaccinations. It should be recorded that vaccinations have been discussed and consent given.

### 14. Information on childhood vaccination

For those with parental responsibility can be found at:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/85 1521/PHE 11490 IMM up to one year A5 booklet Dec2019.pdf

### 15. Adverse Reactions - MUST be documented.

Treatment will depend on the clinical problem. Any child who has a clinically significant adverse event following immunisation (AEFI) in hospital should return to hospital for their second immunisation. A yellow card should be completed online at <a href="https://yellowcard.mhra.gov.uk/">https://yellowcard.mhra.gov.uk/</a>

Form IMM18: Notification of an Adverse Reaction to Immunisation (Appendix B) should be completed and sent to: The Immunisation Officer, Child Health Services, Bridge Park Plaza, Bridge Park

Road, Thurmaston, Leicester, LE4 8PQ

Or emailed to <a href="mailto:childhealthrecords@leicspart.nhs.uk">childhealthrecords@leicspart.nhs.uk</a>

### 16. Education & Training

None

### **17. References**

1. Department of Health. Immunisation against infectious disease. The UK Immunisation programme.

https://www.gov.uk/government/collections/immunisation-against-infectious-disease-thegreen-book

2. UK Immunisation Schedules https://www.gov.uk/government/publications/routine-childhood-immunisation-schedule

3. Bonhoeffer, J, Siegrist, C-A and Heath, PT. Immunisation of premature infants. Archives of Disease in Childhood 2006; 91: 929-935.

4. Pfister, RE, Aeschbach, V, Niksic-Stuver, V et al. Safety of DTaP-based combined immunization in very-low-birth-weight premature infants: frequent but mostly benign cardiorespiratory events. Journal of Pediatrics 2004; 145; 58-66.

5. Schulzke, S, Heininger, U, Lucking-Famira, M et al. Apnoea and bradycardia in preterm infants following immunisation with pentavalent or hexavalent vaccine. European Journal of Pediatrics 2005; 164; 432-435.

6. Lee, J, Robinson, JL and Spady, DW. Frequency of apnea, bradycardia and desaturations following first diphtheria-tetanus-pertussis-inactivated polio-Haemophilus influenza type B immunization in hospitalized preterm infants. BMC Pediatrics 2006: 6:20.

### 7. UHL Insite document library

Hepatitis B & Syphilis Screening in Pregnancy; Maternity Unit Care Pathways for the Management of Positive Results including Hepatitis C

8. Gale C, Quigley MA, Placzek A, Knight M, Ladhani S, Draper ES et al. Characteristics and outcomes of neonatal SARS-CoV-2 in the United Kingdom: a prospective national cohort study using active surveillance. Lancet Child Adolesc Health 2021; 5: 113-21 doi:10.1016/S2352-4642(20)30342-4.

http://insitetogether.xuhl-

tr.nhs.uk/pag/pagdocuments/Hepatitis%20B%20and%20Syphilis%20Screening%20in%20Pr egnancy%20UHL%20Obstetric%20Guideline.pdf

## UHL Newborn Screening for Severe Combined Immune Deficiency (SCID) UHL

**Neonatal Guideline** 

## UHL Influenza Vaccination in Primary Immune Deficiency Patients UHL **Childrens Hospital Guideline**

### **18. Monitoring Compliance**

What will be measured to monitor compliance	How will compliance be monitored	Monitoring Lead	Frequency	Reporting arrangements
Appropriate immunisations provided there are no contra- indications and parental consent	Audit			

### 19. Key Words

Adverse reaction, BCG, Coronavirus, Hepatitis B, Influenza, Meningitis B, Polio, Rotavirus, SCID, Steroids, Vaccination

The Trust recognises the diversity of the local community it serves. Our aim therefore is to provide a safe environment free from discrimination and treat all individuals fairly with dignity and appropriately according to their needs. As part of its development, this policy and its impact on equality have been reviewed

and no detriment was identified.

CONTACT AND REVIEW DETAILS				
Guideline Lead (Name and Title) L Stachow - Clinical pharmacist J Fawke - Consultant		2) (	Executive Lead Chief Medical Officer	
Details of Changes made during review:				
Date	Issue Number	Reviewed By	Description Of Changes (If Any)	
6/2/2007	1	Dr S Ghosh, Dr P Monk	Original document	
2/2/2010	2	Clinical guidelines coordinator (EMB)		
2/7/2013 - 15/10/2013	3	Neonatal Guidelines Meeting Neonatal Governance Meeting (ratified)	(comments invited by email)	
08/07/2014	4	Clinical guidelines coordinator (REM)	Edits	
10/11/2016 Jan 2016	5	J Fawke & L Stachow Neonatal guidelines meeting		
June 2017	6	Neonatal Guidelines lead - REM	Text / hyperlinks revised	
Sept 2017- Feb 2018	7	LS author / REM	Text / hyperlinks revised appendices added	
May 2021	8	L Stachow & J Fawke Neonatal Governance Meeting	Guideline update ratified	

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May 2023	9	Ruth Radcliffe, J Fawke, L Stachow Neonatal guidelines group March 2023 Neonatal governance group March 2023 Women's quality & safety board April 2023	Added reference to SCID screening in intro and added a new SCID screening section Added related documents Chronic Granulomatous Disease & awaiting SCID screening added to contraindications to BCG vaccination Hepatitis B vaccination information changed from - Higher risk infants receive 200 international units Hepatitis B immunoglobulin IM within 12 hours of birth to - Higher risk infants receive 250 international units Hepatitis B immunoglobulin IM within 24 hours of birth. Updated documentation section to include, reason for any omission and document in the immunisation section on BadgerNet. Digital documentation information updated
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## Appendix A: Hepatitis B Form

	2. Child Health Records Departmen Address	it	H1 GP copy & Medical notes
Child at risk of Notification to he	f Hepatitis B infectior althcare professiona	n from birth - first vaccin I to deliver subsequent v	ation given. /accine doses.
Dear Doctor I would like to inform you of an ir vaccine. The first dose has beer following reason ( <i>please tick</i> ):	ifant who is at risk of Hepat n given (see details below).	itis B infection and requires a fu This infant is at risk of Hepatiti	Il course of hepatitis B is B infection for the
1. Mother has Hepatitis B Infection		This infant needs to complete vaccination. It is of vital impurachieved that the second and weeks and 8 weeks after the at 12 months is also required should be a monovalent hepic combined in the routine Infance.	e a course of hepatitis B ortance for full protection to be d third doses are given exactly 4 e first dose is given. A booster do l. Doses at 4 weeks and 12 mont atitis B vaccine. Other doses are nrix –Hexa vaccination.
2. Father or close household cont	act has Hepatitis B	Child requires full course of be ensured that all routine time – Infanrix-Hexa prote no additional monovalen required. A blood test at 1	of hepatitis B vaccine- it should immunisations are given on ects against hepatitis B and t hep b vaccines are 2 months is not required.
Maternal Details (affix label)		Maternal Hepatitis Status:	
Surname:	First name:	HBsAntigen	Negative Unknown
DOB:	NHS number	HBeAntigen	
Hospital No:		Anti-HBe	
		Viral Load:iu/ml	l
		Viral Load:iu/m Acute Hepatitis In Pregnand	l cy Yes/No
Infant Details (affix label)		Viral Load:iu/m Acute Hepatitis In Pregnand Hep B Immunoglobulin gin	y Yes/No
Infant Details (affix label) Surname:	-irst name:	Viral Load:iu/m Acute Hepatitis In Pregnand Hep B Immunoglobulin gir Batch No:	l zy Yes/No ven: Yes/No Thigh: Left/Right
Infant Details (affix label) Surname:	First name:	Viral Load:iu/m Acute Hepatitis In Pregnand Hep B Immunoglobulin gir Batch No: Date:	ven: Yes/No Thigh: Left/Right Time:
Infant Details (affix label) Surname: I DOB: I Hospital No:	First name:	Viral Load:iu/mi Acute Hepatitis In Pregnand Hep B Immunoglobulin gir Batch No: Date: Hep B vaccine given:	ven: Yes / No Thigh: Left / Right Time: Yes / No
Infant Details (affix label) Surname: I DOB: I Hospital No:	First name: NHS number	Viral Load:iu/mi Acute Hepatitis In Pregnand Hep B Immunoglobulin gir Batch No: Date: Hep B vaccine given: Batch No:	ven: Yes / No Thigh: Left / Right Time: Yes / No Thigh: Left / Right
Infant Details (affix label) Surname: I DOB: I Hospital No:	First name:	Viral Load:iu/mi Acute Hepatitis In Pregnand Hep B Immunoglobulin gin Batch No: Date: Hep B vaccine given: Batch No: Date:	ven: Yes / No Thigh: Left / Right Time: Yes / No Thigh: Left / Right Time:

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# Appendix B: IMM18 Form Notification of an Adverse Reaction to Immunisation

minumsution			
Bridge Park Plaza Bridge Park Road	Leicester, Leicestershire and Rutland		
Thurmaston Leicester LE4 8PQ	Specialist Commu	unity Child Health Services	
Telephone: 0116 225 252 Fax: 0116 225 5233	s		
Direct Dial 0116 22	5 3989		IMM18
NOTIFICATION OF	AN ADVERSE REACTION TO	IMMUNISATION (SEE OVERLEAF FOR COMPLE	TION NOTES)
<u>CHILD'S DETAILS</u>	(PLEASE COMPLETE ALL DETAILS IN	BLOCK CAPITALS)	
Sumame:		Forename:	
Date of Birth:	. ,=====	Computer Ref No (if known):	
Address:		T	
		- NHIÊ Na (î kasua):	20
	Postcode:		
GP:		Surgery:	
DETAILS OF IMMUN	VISATION AND REACTION		
Vaccine			
Programme			
Batch No			
Expiry Date			
Manufacturer			
Given by - Name in F	Soll:	Designation	
Given by - Name in r	un		
Date Given:			
COMMENTS			
Name in Full:		Designation:	
Signed:		Date:	
Have you informed th	ne Committee on safety and m	edicine (completed yellow card) Yes/No	

#### NOTIFICATION OF AN ADVERSE REACTION TO IMMUNISATION

#### COMPLETION NOTES

The form should be completed with the following details:

#### 1. <u>Child's Details</u>

- a. Sumame
- b. Forename
- c. Date of birth
- d. Computer reference number (if known)
- e. Child's NHS number
- f. Child's address and postcode
- g. Name of child's Family Practitioner
- h. Surgery usually attended

#### 2. Details of Immunisation and Reaction

- Programme and dose(s) of immunisation given in plain language, eg 1st Primary Programme Diphtheria, Tetanus, Pertussis and Polio
- b. Date course given
- c. Batch numbers
- d. Expiry date
- e. Manufacturer
- f. Given by
- g. Comments this should be a brief account of the reaction experienced and any follow up action taken
- Signed and dated the form should be signed and dated by the Doctor in attendance at the session when the vaccination was given (include designation and full name)

Following completion, the form should be forwarded to:

The Immunisation Manager Child Health Services Bridge Park Plaza Bridge Park Road Thurmaston LEICESTER LE4 8PQ				
Copy IMM18 placed in office file	Date:///			
Original IMM18 sent to: Prescribing Advisor at appropriate PCT	Date://			
Outstanding Immunisation Appointment:				
Outcome: NFA OTHER:	Date://			