Noah's Ark Children's Hospital for Wales Paediatric Post Standard Chemotherapy Immunisation Protocol (Solid Cancers and Leukaemia)

PROTOCOL :		
Time Post Treatment	Details	
6 months	 Diphtheria, Tetanus, Pertussis, Polio, Haemophilus influenzae type b (DTaP/IPV/Hib) with additional Hepatitis B for under 10 yr olds 	 < 10 years: One injection (Infanrix hexa®) =>10 years: One injection (Boostrix-IPV® or Repevax)²
	2. Meningitis C (Men C) ¹	 <10 years One injection (Menitorix®)² 2. =>10 years <u>Two</u> injections (Menveo® or Nimenrix® <u>and</u> Menitorix®)
	3. Pneumococcal conjugate vaccine (PCV)	One injection (Prevenar13®)
	4. Meningococcal B Vaccine 7	One injection (Bexsero®)
	5. MMR ³	One injection (Priorix® or M-M-RVaxPRO®)
	6. Human Papilloma Virus (HPV) ⁴	One injection (Gardasil®)
8 months	Human Papilloma Virus (HPV) ⁴	One injection (Gardasil®)
12 months	1. Human Papilloma Virus (HPV) ⁴	1. One injection (Gardasil®)
	2. MMR ³	2. One injection (Priorix® or M-M-RVaxPRO®)

Notes:

1. Give Men ACWY- conjugate vaccine (Menveo / Nimenrix) for children (any age) with splenic dysfunction/asplenia/complement deficiency: Uncommon.

2 Boostrix-IPV / Repevax do not have Hib cover. MenACWY has no Hib either - so have to use Menitorix to have Hib cover. "Extra" Hib in <10 years and Men in >10 years can be safely given.

3. Give one dose if the patient has received 2 doses prior to the start of chemotherapy. If unimmunized, or has received only one dose, they should receive 2 doses after completion of

chemotherapy. The second dose should be given 6 months after the first dose but can be given sooner in case of Measles outbreak.

4. Girls >13 to 14 years only. Girls/young women that completed a course before chemo need only one booster. If partially immunised (ie cancer diagnosed around time of routine vaccination) then 3 doses at 6, 12, 18 months.

5. Influenza vaccine is recommended annually in autumn for all patients receiving chemotherapy, and their household contacts. Inactivated vaccine for those still on chemo, and for those still within 6 months of completion of chemotherapy and parents/other adults. Live vaccine can be given to siblings/other children. Household contacts can also receive MMR and Varicella (even when patient on chemo)

6. BCG Vaccine: If patient has previously had BCG and is considered to be at high risk of tuberculosis: perform mantoux test and if negative, re-vaccinate. If patient has not previously had BCG vaccinate according to local policy.

7. Single dose if previously vaccinated. Children born before 1 May 2015 will need a full primary course of two doses. If Men B has never been received then give 1 month apart if age 1-9y or 2 months apart if age 10 and over.

General Notes:

During treatment, administration of non-live vaccines (ie vaccines other thanMMR, LAIV, BCG, VZV) may be considered, following the content and timing of the universal childhood immunisation schedule as closely as possible, provided that the child's general condition is stable (ie free from infection and major organ toxicity) and is expected to stay so for 3 weeks from immunisation. Although it is likely that responses will be suboptimal, some patients may achieve protective antibody levels. This may be important, for example, if the patient is at higher than usual risk of tetanus exposure.

Routine booster doses will not be needed if scheduled to be given within 1 year of above schedule.

Reference:

1.Immunisation of the Immunocompromised Child- Best Practice Statement (Royal College of Paediatrics and Child Health) 2002 ISBN 1-900954-67-2

2. Vaccinations For Paediatric Patients Treated With Standard-Dose Chemotherapy And Hematopoietic Stem Cell Transplantation (HSCT) Recipients. Dr Soonie R. Patel and Professor Paul T. Heath. (CCLG FINAL Version 10-12-14)