

INFORMATION PAPER

Military Vaccine Agency
14 July 2009

SUBJECT: Dosage and Dosing Schedule of Specific Vaccines Administered in Accession Settings

1. Purpose. To describe the dosage and the dosing schedule of hepatitis vaccines and tetanus toxoid, diphtheria toxoid, and acellular pertussis (Tdap) vaccines when administered in accession settings.

2. Facts.

a. Accessions may include personnel who are 17 years of age or older, and therefore, must be screened by age to ensure they receive age-appropriate doses (pediatric/adolescent vs. adult) of hepatitis and Tdap vaccines.

b. The age-specific doses and dosing schedule of the hepatitis vaccines are as follows:

Monovalent Hepatitis A Vaccine (HAVRIX (GlaxoSmithKline (GSK)) or VAQTA (Merck))

Age of Recruit	Number of Doses	Vaccine Dosage and Schedule
18 years of age or younger	One initial dose and one booster dose	Administer an initial dose of 0.5 mL and a booster dose of 0.5 mL between 6 to 12 months later
19 years of age or older	One initial dose and one booster	Administer an initial dose of 1.0 mL and a booster dose of 1.0 mL between 6 to 12 months later

Monovalent Hepatitis B Vaccine (ENGERIX-B (GSK) or RECOMBIVAX-HB (Merck))

Age of Recruit	Number of Doses	Vaccine Dosage and Schedule
19 years of age or younger	Three dose series	Administer an initial dose of 0.5 mL and then the next two doses of 0.5 mL at 1 month and 6 months from the initial dose
20 years of age or older	Three dose series	Administer an initial dose of 1.0 mL and then the next two doses of 1.0 mL at 1 month and 6 months from the initial dose

Bivalent (Combination) Hepatitis A and Hepatitis B Vaccine (TWINRIX (GSK))

Age of Recruit	Number of Doses	Vaccine Dosage and Schedule
18 years of age or older	Three dose series	Administer an initial dose of 1.0 mL and then the next two doses of 1.0 mL at 1 month and 6 months from the initial dose

c. Age-specific doses (adult vs. pediatric/adolescent) must also be administered when the vaccine schedule includes both the monovalent and bivalent hepatitis vaccines. The mixed regimen of vaccines that induce adequate immunity against hepatitis A and hepatitis B are shown below. The individual vaccines within the combinations below can be administered in any sequence, if proper minimum timing between doses is observed. When Twinrix is part of the regimen, maintain the dose spacing requirement for Twinrix.

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Mixed Regimen of Vaccines to Complete Hepatitis A and B Series*			
Age of Recruit	Hepatitis A and B (Twinrix)	Hepatitis A (HAVRIX or VAQTA)	Hepatitis B (Engerix B or Recombivax-HB)
17 years of age		2 doses hep A (0.5 mL)	+ 3 doses hep B (0.5 mL)
18 years of age		2 doses hep A (0.5 mL)	+ 3 doses hep B (0.5 mL)
	1 dose Twinrix (1.0 mL)	+ 1 dose hep A (0.5 mL)	+ 2 doses hep B (0.5 mL)
	2 doses Twinrix (1.0 mL)	+ 1 dose hep A (0.5 mL) administered 6 months after 2 nd dose of Twinrix	+ 1 dose hep B (0.5 mL) administered 6 months after 2 nd dose of Twinrix
19 years of age		2 doses hep A (1.0 mL)	+ 3 doses hep B (0.5 mL)
	1 dose Twinrix (1.0 mL)	+ 2 doses hep A (1.0 mL)	+ 2 doses hep B (0.5 mL)
	2 doses Twinrix (1.0 mL)	+ 1 dose hep A (1.0 mL)	+ 1 dose hep B (0.5 mL)
20 years of age or older		2 doses hep A (1.0 mL)	+ 3 doses hep B (1.0 mL)
	1 dose Twinrix (1.0 mL)	+ 2 doses hep A (1.0 mL)	+ 2 doses hep B (1.0 mL)
	2 doses Twinrix (1.0 mL)	+ 1 dose hep A (1.0 mL) administered 6 months after 2 nd dose of Twinrix	+ 1 dose hep B (1.0 mL) administered 6 months after 2 nd dose of Twinrix

* Guidance provided by the National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention (CDC), 28 Sep 2007, and CDC's "Epidemiology and Prevention of Vaccine-Preventable Disease," 11th Ed, May 2009.

d. The age-specific doses and dosing schedule of the tetanus toxoid, diphtheria toxoid, and acellular pertussis vaccines are as follows:

Vaccine Name (Manufacturer)	Age	Number of Doses	Vaccine Dosage and Schedule
BOOSTRIX (GSK)	10 through 64 years of age	One single booster dose	Administer a single 0.5 mL booster dose of vaccine
ADACEL (Sanofi-Pasteur)	11 through 64 years of age	One single booster dose	Administer a single 0.5 mL booster dose of vaccine

3. References.

a. CDC disease information at: www.cdc.gov/vaccines.

b. Multiple resources (e.g., links to product inserts, Vaccine Information Statements) assembled by the Military Vaccine Agency at: www.vaccines.mil.

Ms. Hayley Hughes/(703)-681-5101

Approved by: LTC Patrick Garman