Adult Occupational Immunizations Massachusetts Recommendations and Requirements for 2015

Recommended Immunizations For Health Care Personnel (HCP)			
Vaccine	Recommendations in Brief		
Influenza	1 dose of flu vaccine every flu season.		
Tdap/Td (Tetanus, diphtheria, pertussis)	1 dose of Tdap as soon as possible, then Td boosters every 10 years.		
MMR (Measles, mumps, rubella)	2 doses of MMR, ≥ 28 days apart or documented laboratory-confirmed immunity to measles and mumps and rubella.		
Varicella	2 doses of varicella vaccine, or serologic proof of immunity, or history of varicella disease		
Hepatitis B	3-dose series (see footnote)		
Meningococcal	1 dose of quadrivalent meningococcal vaccine for microbiologists who are routinely exposed to <i>N. meningitidis</i> isolates.		

Health care personnel (HCP) include full- and part-time staff with or without direct patient contact, including physicians, students, and volunteers who work in inpatient, outpatient and home-care settings. See Immunization of Health-Care Personnel - Recommendations of the ACIP. www.cdc.gov/mmwr/pdf/rr/rr6007.pdf

Influenza: All HCP should receive annual flu vaccine. Give inactivated flu vaccine (IIV) to any HCP. Give live, attenuated influenza vaccine (LAIV) to non-pregnant healthy HCP \leq 49 years of age. IIV is preferred over LAIV for HCP in close contact with severely immunosuppressed persons when patients require a protective environment.

Tetanus/Diphtheria/Pertussis (Td/Tdap): All HCP, regardless of age, should receive a single dose of Tdap as soon as feasible if they have not previously received Tdap, and regardless of the interval since last Td dose.

Measles, Mumps, Rubella (MMR): All HCP should be immune to measles, mumps, and rubella. Documentation of immunity: a) 2 doses of MMR on or after the 1st birthday, and at least 1 month apart; or b) laboratory evidence of immunity to measles and mumps and rubella or laboratory confirmation of each disease (Consider HCP with "indeterminate" or "equivocal" immunity as susceptible).Varicella: All HCP should be immune to varicella. Evidence of immunity to varicella for HCP includes: documentation of 2 doses of vaccine, ≥ 4 weeks

apart; laboratory evidence of immunity or laboratory confirmation of disease; diagnosis of history of varicella disease or herpes zoster by a health-care provider, including school or occupational health nurse.

Hepatitis B: HCP should receive 3 doses hepatitis B vaccine on a 0, 1, and 6 month schedule. Test for hepatitis B surface antibody (anti-HBs) 1–2 months after 3rd dose to document immunity. HCP and trainees in certain populations at high risk for chronic hepatitis B (e.g., those born in countries with high and moderate endemicity, behavioral risk factors, immunosuppression, liver disease of unknown etiology) should be tested for HBsAg and anti-HBc/anti-HBs to determine infection status prior to vaccination. See CDC Guidance for Evaluating Health-Care Personnel for Hepatitis B Virus Protection and for Administering Postexposure Management www.cdc.gov/mmwr/PDF/rr/rr6210.pdf

Meningococcal: Quadrivalent meningococcal conjugate vaccine (MCV4) is recommended for microbiologists 55 years and younger who are routinely exposed to *N. meningitidis* isolates. MCV4 is preferred over quadrivalent meningococcal polysaccharide vaccine (MPSV4) for those 56 and older who have been vaccinated previously with MCV4 or anticipate multiple doses. Microbiologists of all ages who remain at risk should be revaccinated every 5 years.

These guidelines are based on the recommendations of the Advisory Committee on Immunization Practices (ACIP). For specific ACIP recommendations, refer to the full statements at www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/index.html; visit the MDPH website at www.mass.gov/dph/imm; or call MDPH 617-983-6800.

Information on Vaccines for Travelers

Visit www.cdc.gov/travel/default.aspx or call the CDC Travel Hotline at 877-394-8747.

Recommended Immunizations For Teachers and Day Care Staff ¹			
Vaccine	Recommendation		
MMR ² (Measles, Mumps, Rubella)	2 doses of MMR, 4 weeks apart, for adults born ≥ 1957. 1 dose for adults born outside of the U.S. < 1957. Adults born in the U.S. < 1957 are considered immune		
Varicella ³	2 doses of varicella vaccine, 4 weeks apart, for adults born in the U.S. ≥ 1980, or born outside the U.S. regardless of year of birth. Adults born < 1980 are considered immune		
Hepatitis B ⁴	3 doses		
Td/Tdap ⁵ (Tetanus, diphtheria, pertussis)	1 dose of Tdap as soon as possible, then Td booster every 10 years		
Annual Influenza	Annual influenza vaccine for everyone 6 months of age and older		

¹ All full- and part-time teachers, student teachers, and staff.

⁵ All adults should receive a single dose of Tdap, especially those who have close contact with infants <12 months of age (e.g., day care staff). There is no minimum interval between Tdap and a previous dose of Td.

Massachusetts Immunization Requirements for Select Occupational Groups ^{1,2}			
Group and Regulation	Requirement	Vaccination/Proof of Immunity	
Health care personnel assigned to maternal- newborn areas (105 CMR 130.626) (Circular letter : DHQ 11-90-300)	Immunity to measles and rubella	At least one dose of vaccine on or after 12 months of age; serologic evidence of immunity to rubella and measles. DPH no longer accepts physician-diagnosed disease as acceptable evidence of immunity.	
Employees of licensed health care facilities [105 CMR 130.325; 105 CMR 140.150; 105 CMR 150.002 (D)(8)]	Annual influenza vaccination	Licensed health care facilities shall offer influenza vaccine at no cost to all employees and ensure that an employee who declines vaccination signs a statement declining vaccination and affirming that s/he received information about the risks and benefits of vaccination.	
Staff of licensed group and family day cares and programs for school age children	Immunity to measles, mumps and rubella	Those born in or after 1957, regardless of country of birth: 2 doses of MMR (or 2 doses of measles-containing vaccine) and 1 dose each of mumps and rubella vaccine at \geq 12 months of age; or serologic evidence of immunity to measles, mumps and rubella.	
[606 CMR 7.09(11)]		Those born before 1957 in the U.S. are considered immune.	
		Those born before 1957 in countries other than the U.S.: 1 dose of MMR; or serologic evidence of immunity to measles, mumps <u>and</u> rubella.	
		Physician-diagnosed disease is <u>not</u> acceptable proof of immunity.	
Camp staff age 18 years and older [CMR 430.152 (B)]	Immunity to measles, mumps and rubella; tetanus/diphtheria vaccine	Unless born before 1957, 2 doses of measles, 1 dose of mumps and 1 dose of rubella vaccines ≥12 months of age; serologic evidence of immunity to measles, mumps and rubella. At least 3 doses of DTaP/DTP/DT/Td. A booster of Td or Tdap is required if ≥10 years since last tetanus vaccine.	
Workers exposed to sewage [314 CMR 12.05(10)]		Workers exposed to sewage, as all other adults, should be vaccinated against diphtheria and tetanus, including a single dose of Tdap. Polio, typhoid, hepatitis A and hepatitis B vaccines are not routinely recommended for this group. ³	

¹MA Immunization Requirements for College: www.mass.gov/eohhs/docs/dph/cdc/immunization/guidelines-ma-school-requirements.pdf

² Evidence of immunity to measles, mumps **and** rubella is required for staff of licensed group and family day care centers (see table below). MMR vaccine is recommended for teachers and staff in other school settings.

³ Evidence of immunity to varicella includes documentation of 2 doses of varicella-containing vaccine; a reliable history of varicella disease (MD diagnosis or personal recall), serologic evidence of immunity or laboratory confirmation of disease.

⁴ Federal OSHA regulations require some employers to offer hepatitis B vaccine to childcare staff whose responsibilities include first aid. Serologic evidence of immunity may be substituted for immunization.

²Federal Occupational Safety and Health Administration (OSHA) regulations may include other immunization requirements for workers in certain occupational settings.

³ ACIP Hepatitis A Recommendations (5/9/2006) <u>www.cdc.gov/mmwr/PDF/rr/rr5507.pdf</u>; ACIP Hepatitis B Recommendations for Adults 12/8/2006) <u>www.cdc.gov/mmwr/PDF/rr/rr5516.pdf</u>; and adapted & updated from ACIP Adult Immunizations (11/15/1991;40[RR-12]:1-52).