

Adult Occupational Immunizations

Massachusetts Recommendations and Requirements for 2013

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 ≤ 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 (Consider HCP with “indeterminate” or “equivocal” immunity as susceptible)..

Varicella: All HCP should be immune to varicella. Evidence of immunity to varicella for HCP include: documentation of 2 doses of vaccine, ≥ 2 months 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 at 0, 1, and 6 months. 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 intermediate endemicity) should be tested for HBsAg and anti-HBc/anti-HBs to determine infection status prior to vaccination.

Meningococcal: Quadrivalent meningococcal vaccine (MCV4 or MenACY-CRM) (IM) is recommended for microbiologists ≤ 55 years old who are routinely exposed to *N. meningitidis* isolates. MPSV (SC) is recommended for those $>$ age 55 years. Those who remain at high 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 toll-free at 1-888-658-2850.

Recommended Immunizations For Teachers and Day Care Staff¹

Vaccine	Recommendation
MMR ² (Measles, Mumps, Rubella)	2 doses of MMR, 4 weeks apart, for adults born \geq 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. \geq 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.

² Proof 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 Proof of immunity to varicella includes documentation of 2 doses of varicella-containing vaccine; a reliable history of varicella disease (physician diagnosis; or personal recall) or serologic evidence of immunity.

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.

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 proof 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 [606 CMR 7.09(11)]	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. 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 and 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	If born before 1957, at least 1 dose of MMR on or after 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 or more years since last tetanus vaccine.

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

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

Information on Vaccines for Travelers

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