

Vaccine Name	Who should be Vaccinated?	When should the Vaccine be given? (any vaccine can be given with another)	What are the risks/contraindications? (mild illness is not a contraindication)
<p>Influenza (Flu)</p> <p>FLULAVAL Trivalent inactivated influenza vaccine (TIV) <i>Given as a shot in the muscle.</i></p> <p>FLUMIST Live attenuated influenza vaccine (LAIV) <i>Given as a spray through the nose.</i></p>	<p>Note: Live intranasal flu vaccine (Flumist) may not be given to some of the persons listed below; see contraindications listed in far right column. In addition, Westmoreland can administer Flumist to children ages 2 to 17, or anyone under the age of 49 with no contraindications.</p> <ul style="list-style-type: none"> • All persons who want to reduce the likelihood of becoming ill with influenza or of spreading it to others. • Persons age 50yrs and older. [shot only] • Persons with medical problems (e.g., heart disease, lung disease, diabetes, renal dysfunction, hemoglobinopathy, and immunosuppression). [shot only] • Persons with any condition that compromises respiratory function or the handling of respiratory secretions or that can increase the risk of aspiration (e.g., cognitive dysfunction, spinal cord injury, seizure disorder, or other neuromuscular disorder). [shot only] • Persons living in chronic care facilities. [shot only] • Persons who work or live with high-risk people. • Women who will be pregnant during the influenza season (December–spring). [If currently pregnant, shot only] • All healthcare personnel and other persons who provide direct care to high-risk people. • Household contacts and out-of-home caregivers of children age 0–59m. • Travelers at risk for complications of influenza who go to areas where influenza activity exists or who may be among people 	<ul style="list-style-type: none"> • Give 1 dose every year in the fall or winter. • Begin vaccination services as soon as vaccine is available and continue until the supply is depleted. • Continue to give vaccine to unvaccinated adults throughout the influenza season (including when influenza activity is present in the community) and at other times when the risk of influenza exists. • If 2 or more of the following live virus vaccines are to be given— LAIV, MMR, Var, and/or yellow fever vaccine—they should be given on the same day. If they are not, space them by at least 28d. 	<p>Contraindications</p> <ul style="list-style-type: none"> • Previous anaphylactic reaction to this vaccine, to any of its components, or to eggs. • For Flumist only, age 50 years or older, pregnancy, asthma, reactive airway disease or other chronic disorder of the pulmonary or cardiovascular system; an underlying medical condition, including metabolic disease such as diabetes, renal dysfunction, and hemoglobinopathy; a known or suspected immune deficiency disease or current receipt of immunosuppressive therapy. <p>Precautions</p> <ul style="list-style-type: none"> • Moderate or severe acute illness. • For shot only, history of Guillain-Barré syndrome (GBS) within 6wks of previous shot. • For Flumist only, history of GBS within 6wks of a previous influenza vaccination.

	<p>from areas of the world where there is current influenza activity (e.g., on organized tours). [shot only]</p> <ul style="list-style-type: none"> • Students or other persons in institutional settings (e.g., residents of dormitories or correctional facilities). 		
<p>Pneumonia</p> <p>PNEUMOVAX23 Pneumococcal Polysaccharide (PPV) <i>Given as a shot either in the muscle or under the skin.</i></p>	<ul style="list-style-type: none"> • Persons age 65yrs and older. • Persons who have chronic illness or other risk factors, including chronic cardiac or pulmonary disease, chronic liver disease, alcoholism, diabetes, CSF leak, as well as people living in special environments or social settings (including Alaska Natives and certain American Indian populations). • Those at highest risk of fatal pneumococcal infection, including persons who <ul style="list-style-type: none"> ○ have anatomic asplenia, functional asplenia, or sickle cell disease ○ have an immunocompromising condition, including HIV infection, leukemia, lymphoma, Hodgkin's disease, multiple myeloma, generalized malignancy, chronic renal failure, or nephrotic syndrome ○ are receiving immunosuppressive chemotherapy (including corticosteroids) ○ have received an organ or bone marrow transplant ○ are candidates for or recipients of cochlear implants. 	<ul style="list-style-type: none"> • Give 1 dose if unvaccinated or if previous vaccination history is unknown. • Give a 1-time revaccination at least 5yrs after 1st dose to persons <ul style="list-style-type: none"> ○ age 65yrs and older if the 1st dose was given prior to age 65yrs ○ at highest risk of fatal pneumococcal infection or rapid antibody loss (see the 3rd bullet in the box to left for listings of persons at highest risk) 	<p>Contraindication</p> <ul style="list-style-type: none"> • Previous anaphylactic reaction to this vaccine or to any of its components. <p>Precaution</p> <ul style="list-style-type: none"> • Moderate or severe acute illness.
<p>Zoster (Shingles)</p> <p>ZOSTAVAX (Zos) <i>Given as a shot under the skin.</i></p>	<p>All persons age 60yrs and older who do not have contraindications. Provisional recommendations are online at www.cdc.gov/vaccines/recs/provisional/default.htm#acip.</p>		
<p>Hepatitis B</p>	<ul style="list-style-type: none"> • All persons through age 18yrs. 	<ul style="list-style-type: none"> • Give 3 doses on a 0, 1, 	<p>Contraindication</p>

<p>BRANDS MAY BE USED INTERCHANGEABLY (HepB) Given as a shot in the muscle.</p>	<ul style="list-style-type: none"> All adults wishing to obtain immunity against hepatitis B virus infection. High-risk persons, including household contacts and sex partners of HBsAg-positive persons; injecting drug users; sexually active persons not in a long-term, mutually monogamous relationship; men who have sex with men; persons with HIV; persons seeking evaluation or treatment for an STD; patients receiving hemodialysis and patients with renal disease that may result in dialysis; healthcare personnel and public safety workers who are exposed to blood; clients and staff of institutions for the developmentally disabled; inmates of long-term correctional facilities; and certain international travelers. Persons with chronic liver disease. <p>Note: Provide serologic screening for immigrants from endemic areas. If patient is chronically infected, assure appropriate disease management. Screen sex partners and household members; give HepB at the same visit if not already vaccinated.</p>	<p>6m schedule.</p> <ul style="list-style-type: none"> Alternative timing options for vaccination include 0, 2, 4m and 0, 1, 4m. There must be at least 4wks between doses #1 and #2, and at least 8wks between doses #2 and #3. Overall, there must be at least 16wks between doses #1 and #3. <p>Schedule for those who have fallen behind: If the series is delayed between doses, DO NOT start the series over. Continue from where you left off</p>	<ul style="list-style-type: none"> Previous anaphylactic reaction to this vaccine or to any of its components. <p>Precaution</p> <ul style="list-style-type: none"> Moderate or severe acute illness.
<p>Hepatitis A</p> <p>BRANDS MAY BE USED INTERCHANGEABLY (HepA) Given as a shot in the muscle.</p>	<ul style="list-style-type: none"> All persons wishing to obtain immunity to hepatitis A virus infection. Persons who travel or work anywhere EXCEPT the U.S., Western Europe, New Zealand, Australia, Canada, and Japan. Persons with chronic liver disease; injecting and non-injecting drug users; men who have sex with men; people who receive clotting-factor concentrates; persons who work with hepatitis A virus in experimental lab settings (not routine medical laboratories); and food handlers when health authorities or private employers determine vaccination to be appropriate. <p>Note: Prevacination testing is likely to be cost effective for persons older than age 40yrs, as well as for younger persons in certain</p>	<ul style="list-style-type: none"> Give 2 doses. The minimum interval between doses #1 and #2 is 6m. If dose #2 is delayed, do not repeat dose #1. Just give dose #2. 	<p>Contraindication</p> <ul style="list-style-type: none"> Previous anaphylactic reaction to this vaccine or to any of its components. <p>Precautions</p> <ul style="list-style-type: none"> Moderate or severe acute illness. Safety during pregnancy has not been determined, so benefits must be weighed against potential risk.

	groups with a high prevalence of hepatitis A virus infection.		
Tetanus, diphtheria, pertussis (Td, Tdap) Given as a shot in the muscle.	<ul style="list-style-type: none"> All adults who lack written documentation of a primary series consisting of at least 3 doses of tetanus- and diphtheria-toxoid-containing vaccine. A booster dose of tetanus- and diphtheria-toxoid-containing vaccine may be needed for wound management as early as 5yrs after receiving a previous dose. Using tetanus toxoid (TT) instead of Td or Tdap is not recommended. In pregnancy, when indicated, give Td or Tdap in 2nd or 3rd trimester. If not administered during pregnancy, give Tdap in immediate postpartum period. <p>For Tdap only:</p> <ul style="list-style-type: none"> All adults younger than age 65yrs who have not already received Tdap. Healthcare personnel who work in hospitals or ambulatory care settings and have direct patient contact and who have not received Tdap. Adults in contact with infants younger than age 12m (e.g., parents, grandparents younger than age 65yrs, childcare providers, and healthcare personnel) who have not received a dose of Tdap should be prioritized for vaccination. 	<ul style="list-style-type: none"> For persons who are unvaccinated or behind, complete the primary series with Td (spaced at 0, 1–2m, 6–12m intervals). One-time dose of Tdap may be used for any dose if age 18–64yrs. Give Td booster every 10yrs after the primary series has been completed. For adults age 18–64yrs, a 1-time dose of Tdap is recommended to replace the next Td. Intervals of 2yrs or less between Td and Tdap may be used. <p>Note: The two Tdap products are licensed for different age groups: Adacel™ (sanofi) for use in persons age 11–64yrs and Boostrix® (GSK) for use in persons age 10–18yrs.</p>	<p>Contraindications</p> <ul style="list-style-type: none"> Previous anaphylactic reaction to this vaccine or to any of its components. For Tdap only, history of encephalopathy within 7d following DTP/DTaP. <p>Precautions</p> <ul style="list-style-type: none"> Moderate or severe acute illness. GBS within 6wks of receiving a previous dose of tetanus-toxoid-containing vaccine. Unstable neurologic condition. History of arthus reaction following a previous dose of tetanus- and/or diphtheria-toxoid-containing vaccine, including MCV4. <p>Note: Use of Td/Tdap is not contraindicated in pregnancy. Either vaccine may be given during trimester #2 or #3 at the provider's discretion.</p>
Polio (IPV) Given as a shot in the muscle or under the skin.	<ul style="list-style-type: none"> Not routinely recommended for persons age 18yrs and older. <p>Note: Adults living in the U.S. who never received or completed a primary series of polio vaccine need not be vaccinated unless they intend to travel to areas where exposure to wild-type virus is likely (i.e., India, Pakistan, Afghanistan, and Nigeria). Previously vaccinated adults can receive one booster dose if traveling to polio endemic areas.</p>		<p>Contraindication</p> <ul style="list-style-type: none"> Previous anaphylactic or neurologic reaction to this vaccine or to any of its components. <p>Precautions</p> <ul style="list-style-type: none"> Moderate or severe acute illness. Pregnancy.

<p>Varicella (Chickenpox)</p> <p>(Var)</p> <p>Given as a shot under the skin.</p>	<ul style="list-style-type: none"> All adults without evidence of immunity. <p>Note: Evidence of immunity is defined as written documentation of 2 doses of varicella vaccine; born in the U.S. before 1980 (exceptions: healthcare personnel and pregnant women); a history of varicella disease or herpes zoster based on healthcare-provider diagnosis; laboratory evidence of immunity; and/or laboratory confirmation of disease.</p>	<ul style="list-style-type: none"> Give 2 doses. Dose #2 is given 4–8wks after dose #1. If the second dose is delayed, do not repeat dose #1. Just give dose #2. If 2 or more of the following live virus vaccines are to be given—LAIV, MMR, Var, and/or yellow fever vaccine—they should be given on the same day. If they are not, space them by at least 28d. 	<p>Contraindications</p> <ul style="list-style-type: none"> Previous anaphylactic reaction to this vaccine or to any of its components. Pregnancy or possibility of pregnancy within 4wks. Persons immunocompromised because of malignancy and primary or acquired cellular immunodeficiency, including HIV/AIDS (although vaccination may be considered if CD4+ T-lymphocyte counts are greater than or equal to 200 cells/μL. See MMWR 2007;56,RR-4). <p>Precautions</p> <ul style="list-style-type: none"> If blood, plasma, and/or immune globulin (IG or VZIG) were given in past 11m. Moderate or severe acute illness. <p>Note: For those on high-dose immunosuppressive therapy, consult your pharmacist/prescriber.</p>
<p>Meningitis</p> <p>Meningococcal conjugate vaccine (MCV4)</p> <p>Given as a shot in the muscle.</p> <p>Polysaccharide vaccine (MPSV)</p> <p>Given as a shot under the skin.</p>	<ul style="list-style-type: none"> All persons age 11 through 18yrs. College freshmen living in a dormitory. Persons with anatomic or functional asplenia or with terminal complement component deficiencies. Persons who travel to or reside in countries in which meningococcal disease is hyperendemic or epidemic (e.g., the “meningitis belt” of Sub-Saharan Africa). Microbiologists routinely exposed to isolates of <i>N. meningitidis</i>. 	<ul style="list-style-type: none"> Give 1 dose. If previous vaccine was MPSV, revaccinate after 5yrs if risk continues. Revaccination after MCV4 is not recommended. MCV4 is preferred over MPSV for persons age 55yrs and younger, although MPSV is an 	<p>Contraindication</p> <ul style="list-style-type: none"> Previous anaphylactic or neurologic reaction to this vaccine or to any of its components, including diphtheria toxoid (for MCV4). <p>Precautions</p> <ul style="list-style-type: none"> Moderate or severe acute illness. For MCV4 only, history of Guillain-Barré syndrome

<p>Measles, mumps, rubella</p> <p>(MMR)</p> <p>Given as a shot under the skin.</p>	<ul style="list-style-type: none"> • Persons born in 1957 or later (especially those born outside the U.S.) should receive at least 1 dose of MMR if there is no serologic proof of immunity or documentation of a dose given on or after the first birthday. • Persons in high-risk groups, such as healthcare personnel, students entering college and other post-high school educational institutions, and international travelers, should receive a total of 2 doses. • Persons born before 1957 are usually considered immune, but proof of immunity (serology or vaccination) may be desirable for healthcare personnel. • Women of childbearing age who do not have acceptable evidence of rubella immunity or vaccination. 	<p>acceptable alternative.</p> <ul style="list-style-type: none"> • Give 1 or 2 doses (see criteria in 1st and 2nd bullets in box to left). • If dose #2 is recommended, give it no sooner than 4wks after dose #1. • If a pregnant woman is found to be rubella susceptible, administer MMR postpartum. • If 2 or more of the following live virus vaccines are to be given—LAIV, MMR, Var, and/or yellow fever vaccine— they should be given on the same day. If they are not, space them by at least 28d. 	<p>(GBS).</p> <p>Contraindications</p> <ul style="list-style-type: none"> • Previous anaphylactic reaction to this vaccine or to any of its components. • Pregnancy or possibility of pregnancy within 4wks. • Persons immunocompromised because of cancer, leukemia, lymphoma, immunosuppressive drug therapy, including high-dose steroids or radiation therapy. <p>Note: HIV positivity is NOT a contraindication to MMR except for those who are severely immunocompromised (i.e., CD4+ T-lymphocyte counts are less than 200 cells/μL).</p> <p>Precautions</p> <ul style="list-style-type: none"> • If blood, plasma, and/or immune globulin were given in past 11m. • Moderate or severe acute illness. • History of thrombocytopenia or thrombocytopenic purpura. <p>Note: If PPD (tuberculosis skin test) and MMR are both needed but not given on same day, delay PPD for 4–6wks after MMR.</p>
<p>Cervical Cancer</p> <p>GARDASIL Human papillomavirus (HPV)</p>	<p>All previously unvaccinated women through age 26yrs.</p>	<ul style="list-style-type: none"> • Give 3 doses on a 0, 2, 6m schedule. • There must be at least 4wks between doses #1 and #2 and at least 12wks between doses 	<p>Contraindication</p> <ul style="list-style-type: none"> • Previous anaphylactic reaction to this vaccine or to any of its components. <p>Precaution</p> <ul style="list-style-type: none"> • Data on vaccination in

<p>Given as a shot in the muscle.</p>		<p>#2 and #3. Overall, there must be at least 24wks between doses #1 and #3.</p>	<p>pregnancy are limited. Vaccination should be delayed until after completion of the pregnancy.</p>
---------------------------------------	--	--	--

