

Medications and Disease based Immunization Recommendations for Adults*

Medications (Disease state)	Vaccines they usually need (use in combination with age specific vaccination)	Vaccines that are contraindicated
Anti-retrovirals (Patients with HIV)	Influenza shot, pneumococcal (PCV13, PPSV23), Hepatitis B, 4vHPV or 9vHPV begin series up to 26 years	Intranasal influenza & zoster***
Cardiac medications including anti-hypertensives, anti-arrhythmics, diuretics, statins, anti-coagulants**, platelet aggregation inhibitors, etc. (CHD, CAD, CHF, arrhythmias, angina, but NOT hypertension alone)	Influenza vaccine, PPSV23	Intranasal influenza
Peg interferon alpha, ribavirin, boceprevir or telaprevir (Hepatitis C)	Influenza shot, Hepatitis A, Hepatitis B, PPSV23	Intranasal influenza
Adefovir, entecavir, tenofovir, interferon alpha or peg-interferon alpha, lamivudine, telbivudine (Hepatitis B)	Influenza shot, Hepatitis A, PPSV23	Intranasal influenza
Naltrexone, <i>acamprosate</i> pentoxifylline, (Chronic liver disease)	Influenza shot, Hepatitis A, Hepatitis B, PPSV23	Intranasal influenza
DDAVP, Aminocaproic acid, tranexamic acid, IV factors (Hemophilia)	Influenza shot**, Hepatitis A**	Intranasal influenza
Disulfiram, naltrexone, and acamprosate (Alcoholism)	Influenza shot, PPSV23	Intranasal influenza
Sulfonylureas, metformin, insulin, etc. (Diabetes)	Influenza shot, PPSV23, Hepatitis B, Tdap/Td	Intranasal influenza
Chantix, Zyban (Cigarette smoking)	Influenza shot, PPSV23	Intranasal influenza
Azithromycin 1 gram single dose, acyclovir or valacyclovir, Podofilox 0.5% solution, Imiquimod 5% (STD treatment)	Influenza shot, Hepatitis B, 4vHPV or 9vHPV begin series up to 26 years	Intranasal influenza
Phosphate binders, erythropoietin, renally reduced dosages of medications (Chronic renal failure)	Influenza shot, pneumococcal (PCV13, PPSV23), Hepatitis B	Intranasal influenza
Corticosteroids, methotrexate, cyclosporine, tacrolimus, chemotherapy etc (Patients that are immunosuppressed)	Influenza shot, pneumococcal (PCV13, PPSV23), 4vHPV or 9vHPV (up to 26 years), Hib (post-SCT)	All live vaccines****
Hydroxyurea, Nitric Oxide, Arginine, deferoxamine (Sickle Cell disease)	Influenza shot, Hib (if never received), MenACWY, MenB, pneumococcal (PCV13, PPSV23)	Intranasal influenza
Albuterol, Advair, fluticasone, Salmeterol, Spiriva, etc. (COPD /Asthma)	Influenza shot, PPSV23	Intranasal influenza
Prenatal vitamins (Pregnancy or planning pregnancy)	Influenza shot, Tdap (for pertussis coverage) during every pregnancy prefer weeks 27-36 and all close contacts of young infants	All live vaccines, also HPV is not recommended in pregnancy
Eculizumab (Terminal compliment deficiency)	MenACWY, MenB, [children: pneumococcal and hib)	Intranasal influenza
Travel medications some vaccines are on the routine list and are listed here, others may also be indicated based on travel location, pharmacists in CT can not administer them, but should refer patients to travel clinic	Hepatitis A (travel to any location other than US, western Europe, Australia, New Zealand, Canada, Scandinavia, or Japan), MMR (if measles endemic area), Meningococcal (meningitis belt)	None
<p>*Note these medications are commonly used for these indications, so patients can be identified by the medications to potentially screen them to determine if they meet criteria. Many of these medications may have other uses as well. Finally, patient should also be screened for age appropriate immunizations. **According to the ACIP, when an IM vaccine is indicated for a patient with a bleeding disorder or a person receiving anticoagulant therapy, the vaccine should be administered IM if, in the opinion of a physician familiar with the patient's bleeding risk, the vaccine can be administered with reasonable safety. If the patient receives antihemophilia or similar therapy, IM vaccinations can be scheduled shortly after such therapy is administered. A fine needle should be used and firm pressure applied to the site, without rubbing, for ≥2 minutes. The patient or family should be instructed concerning the risk for hematoma from the injection. *** Depending on age and degree of immunosuppression from HIV MMR, Varicella may also be contraindicated. ****Exception Zoster with some low dose immunosuppression meds</p>		

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Adult Immunizations based upon AGE that should be verified patients are up to date

Age	Vaccines that should be screened for	Vaccines that are contraindicated OR not indicated for age
College bound (also see young adult section)	MMR (Proof of 2 lifetime doses for measles and rubella – only available as part of MMR for full-time college entry, except if born prior to 1957, or doing education completely online) MCV ACYW (if not within 5 yrs of college matriculation & living in dorms) Varicella (2 doses in a lifetime for full-time college entry, except if born prior to 1980 or confirmed disease or doing education completely online) Hepatitis B (although not required, students informed of the disease and made aware of vaccine) Tdap (if poss exposure to young infants or if > 10 yrs since last Td) HPV (3 doses: females 2vHPV, 4vHPV, or 9vHPV up to 26 yrs; males 4vHPV or 9vHPV up to 21 yrs routine/26 yrs high risk) Influenza (all)	Zoster vaccine is not indicated in this age group
Young adults (not in college) 19 – 50 years	Influenza (all) Tdap (poss exposure to young infants or if > 10 yrs since last Td); HPV (3 doses: females 2vHPV, 4vHPV, or 9vHPV up to 26 yrs; males 4vHPV or 9vHPV up to 21 yrs routine/26 yrs high risk) Varicella (2 lifetime doses; born before 1980 only need if healthcare worker or planning pregnancy) MMR (2 lifetime doses)	Zoster vaccine is not indicated in this age group
50 – 60 years	Influenza (all) Tdap (if > 10 yrs since last Td and never received Tdap) PCV13 is FDA approved in this age group, but not currently routinely rec by ACIP MMR (If born after 1957 -2 lifetime doses) Zoster is FDA approved in this age group, but not rec by ACIP	Intranasal influenza is not indicated in the age group
60 – 65 years	Influenza (all) Zoster (all) Tdap (if > 10 yrs since last Td and never received Tdap) PCV13 is FDA approved in this age group, but not currently routinely rec by ACIP	Intranasal influenza is not indicated in the age group
65 years and older	Influenza (all) PCV13 & PPSV23 (all) Zoster (all) Tdap (if > 10 yrs since last Td and never received Tdap)	Intranasal influenza is not indicated in the age group
*"All" indicates routine recommendation based on age as long as no additional contraindications.		

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