

INFLUENZA Annual vaccination is recommended for all persons the benefits of flu vaccination 2010 aged ≥6 months. High-dose is an option for persons aged ≥65. *High-dose vaccine was 24.2% more effective in preventing flu in adults 65 years of age and older relative to a standard-dose vaccine. 5.3 million. 2.6 million **85,000**. The ACIP no longer recommends that egg-allergic recipients be observed for 30 minutes following vaccination. Patients with a known history of severe egg allergy, any symptom other than hives, should be vaccinated in a setting under the supervision of a provider. For more information https://www.cdc.gou/vaccines/yog/flu/index.html
"High dose flu vaccine: DiaSranados A, Dunning A, Kimmel M. et al. Efficacy of High-Dose versus Standard-Dose Influenza Vaccine in Older Adults. N Engl :

"High dose fluenza" A 2014

"High dose fluenza" A 20

The Advisory Committee on Immunization Practices (ACIP) reviewed Flumist data in February 2018.

ACIP voted to reintroduce LAIV4 as an option for the 2018-19 season.

AAP and CDC each support the use of LAIV4 for the 2018-19 influenza season with the aim of achieving adequate vaccination coverage and optimal protection in children of all ages, the AAP is making the following recommendations:

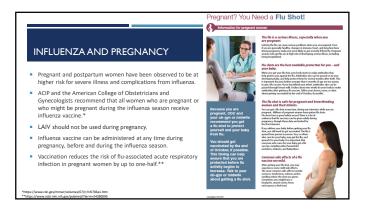
Annual influenza vaccination is recommended for everyone 6 months and older.

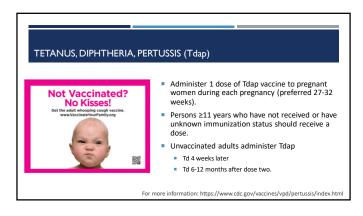
For the 2018-19 season, the AAP recommends inactivated influenza vaccine (IIV3/4) as the primary choice for all children because the effectiveness of LAIV4:

was inferior against A/H1N1 during past seasons; and

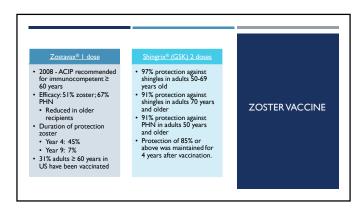
is unknown against A/H1N1 for this upcoming season.

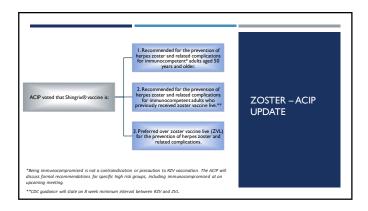
LAIV4 may be offered for children who would not otherwise receive an influenza vaccine.





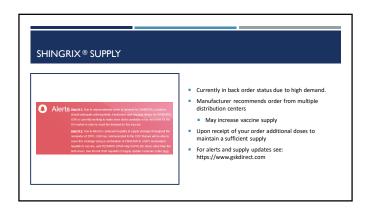




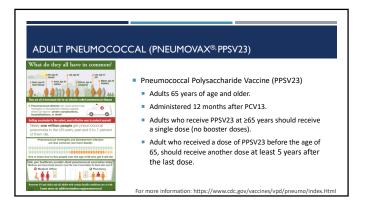


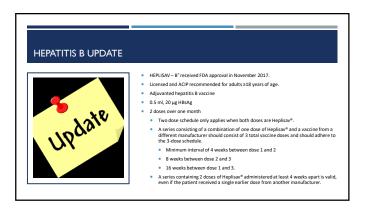
KEY DIFFERENCES Zostavax® (MERCK) Shingrix® (GSK) Stored in freezer (-58° to 5° F) Stored in fridge (35° to 46° F) Subcutaneous (SC) Intramuscular (IM) Two doses 8 weeks apart Single dose Previously recommended for everyone 60 Recommended for everyone 50 and older Not contraindicated in people who are and older immunocompromised Contraindicated in people who are ■ Preferred over Zostavax®





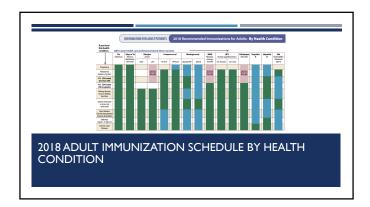
PNEUMOCOCCAL CONJUGATE (PREVNAR®, PCV 13) Until 2000, pneumococcal infections caused 60,000 cases of invasive disease annually. Up to 40% of these infections were caused by drug-resistant streptococcus pneumonine. Pneumococcal bacteria are resistant to one or more antibiotics in 30% of cases. Adults 265 who have not received PPSV23 or have an unknown vaccination history should receive a dose of PCV13. Adults 265 who have received one or more doses of PPSV23 should receive a dose of PCV13. PCV13 and PPSV23 should not be administered simultaneously.





Provides earlier seroprotection Primary and secondary endpoint Heplisav produced 90.1% seroprotection rate in 12 weeks (two doses). Primary endpoint data in Type 2 Diabetes - Heplisav 90% seroprotection rate in 12 weeks (two doses). HEPUSAV-B may reduce impact of low adherence in high-risk adults. May increase adherence with 2-dose schedule over 1 month.

IMMUNIZATION RECOMMENDATIONS - BY **HEALTH CONDITION**



PNEUMOCOCCAL VACCINE FOR HIGH RISK

Single dose of PCV13 should be given to adults ≥19 years with certain medical conditions, that have not received previously received PCV13.

- Chronic renal failure and nephrotic syndrome
- Cochlear implant(s)
 Congenital or acquired immunodeficiencies
- CSF leaks
- Generalized malignancy
- HIV infection
- Hodgkin disease
- Latrogenic immunosuppression solid organ transplant Multiple myeloma
- Leukemia or lymphoma
- Siddle cell disease and other hemaglobinopathies
 For more information: https://www.cdc.gov/vaccines/vpd/pneumo/index.Html

Pneumococcal polysaccharide vaccine recommendations for persons 2 years of age or older with the following conditions.

- Alcoholism
 Asplenia
 Cochlear implant
 Congenital immunodeficiency

- Congenital immunodeficiency
 CSF leaks
 Chronic illness (heart, lung, liver)
 Environments or settings with increased risk
 HIV infection
 Individuals 19-64 who smoke cigarettes
- Leukemia
 Routine PPSV23 use is no longer recommended for Alaska
 Natives or American Indians aged <55 years unless they
 have medical indications for PPSV23.

MENINGOCOCCAL (MENACWY, MCV4)

- Complement component deficiency (e.g., C5-C9, properdin, factor H, factor D, or are taking soliris®)
- Functional or anatomic asplenia
 - Adults at increased risk because of complement component deficiencies and persons with functional or anatomic
 asplenia should receive a two-dose primary series 2 months apart and then get a booster dose every 5 years.
- Microbiologist who is routinely exposed to Neisseria meningitidis (the causal pathogen)
- Traveling or residing in countries in which the disease is common
- Part of a population identified to be at increased risk because of a serogroup A, C, W or Y meningococcal disease outbreak
- A first-year college student living in a residence hall
- Military recruit

For more information https://www.cdc.gov/vaccines/vpd/mening/hcp/who-vaccinate-hcp.htm

MENINGOCOCCAL BVACCINE

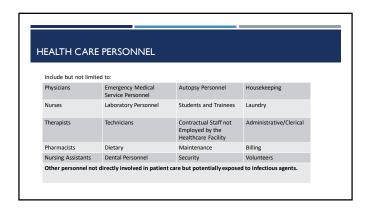
Adults should get serogroup B meningococcal vaccine if:

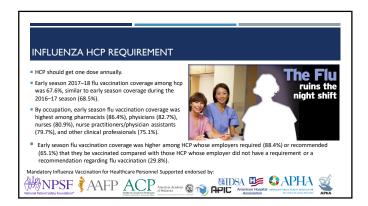
- They have complement component deficiency (e.g., C5-C9, properdin, factor H, factor D, or are taking Soliris®).
- They have functional or anatomic asplenia.
- They are a microbiologist who is routinely exposed to Neisseria meningitidis (the causal pathogen).
- They are part of a population identified to be at increased risk because of a serogroup B meningococcal disease outbreak.

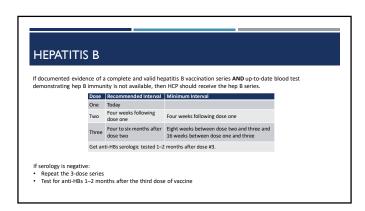
For more information https://www.cdc.gov/vaccines/vpd/mening/hcp/who-vaccinate-hcp.h

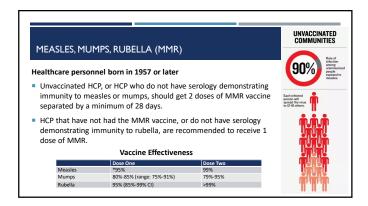
HEPATITIS B Seek care in a clinic for sexually transmitted diseases, HIV testing or treatment, or drug treatment Diabetes (Type 1 or 2) and are under the age of 60 Kidney disease Dialysis patient IV drug use HIV MSM Prisoner in a correctional facility Sex with more than one partner Have sex with or live in the same house as a person with hepatitis B virus infection Live or travel for more than 6 months a year in countries where hep B is common

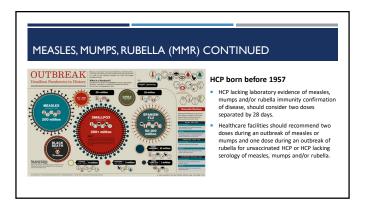
HEALTHCARE WORKER IMMUNIZATION RECOMMENDATIONS

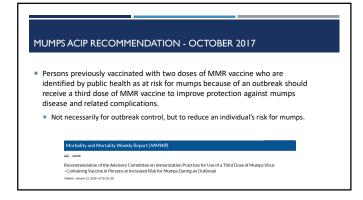


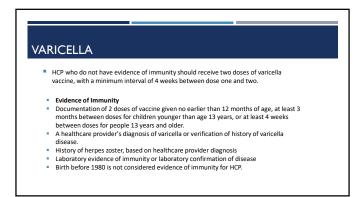












Represent NDIIS adult immunization data.

NORTH DAKOTA
ADULT
IMMUNIZATION
RATES

Immunization rates only reflect adults participating with the NDIIS.

Immunization rates may include adults that have moved or gone elsewhere.

