Influenza is a highly contagious viral infection that causes debilitating illness, hospitalizations, and deaths every year. In 2014, influenza and its complications (including pneumonia) was the third leading cause of death in New York City (NYC), accounting for 2,220 deaths. Certain groups are at greater risk for influenza complications (see page 38), including people aged 65 and older, who account for more than half of all flu-related hospitalizations and about 90% of associated deaths in the US.

Vaccination is the best protection against influenza and its complications. During the 2014-2015 flu season, vaccination averted an estimated 2 million influenza cases and 67,000 related hospitalizations in the US. Despite the proven benefit of vaccination, only 57% of NYC adults aged 50 and older received influenza vaccine in 2014. As of early November 2015, nationwide vaccination rates were well below Healthy People 2020 targets for children younger than 18 (39% vs 70% target) and for adults aged 65 and older (60% vs 70% target).
Vaccination coverage is highest when physicians strongly recommend flu vaccine to their patients and are vaccinated themselves. Increase coverage in your practice by taking the following steps:

- Strongly recommend and offer vaccination for all patients aged 6 months and older as soon as vaccine is available, especially for patients at higher risk for influenza and its complications (Boxes 1 and 2).
- Ensure that you and your entire staff are vaccinated to protect yourselves and your patients who may be vulnerable to infection.
- Enlist clinical staff to help explain the benefits and side effects of vaccination to patients.

**BOX 1. IMPORTANT GROUPS TO VACCINATE**

- Children younger than age 5, especially those younger than 2 years old
- Adults aged 65 years and older
- Pregnant women (and women up to 2 weeks postpartum)
- Residents of nursing homes and other long-term care facilities
- American Indians and Alaskan Natives
- People with certain high-risk medical conditions (Box 2)
- Health care workers
- Household contacts and caregivers of
  - Children younger than 5 years, especially those younger than 6 months
  - Adults aged 65 years and older
  - People with certain medical conditions (Box 2)

**BOX 2. MEDICAL CONDITIONS THAT INCREASE RISK FOR SEVERE COMPLICATIONS**

- Asthma and chronic lung disease (eg, COPD, cystic fibrosis)
- Heart disease (eg, congenital heart disease, congestive heart failure, and coronary artery disease)
- Renal, hepatic, neurologic/neuromuscular, hematologic, metabolic, or endocrine disorders, including diabetes
- Weakened immune system due to disease or medication (eg, HIV/AIDS, cancer, chronic steroid use)
- Long-term aspirin therapy in people younger than 19 years old because of risk for Reye syndrome after influenza infection
- Morbid obesity (body mass index ≥40)

Administration vaccine during the office visit or refer patients for vaccination as soon as vaccine is available. Adults aged 18 and older may be referred to pharmacies that offer vaccination services, but bear in mind that deferring vaccination to another visit or referring to other vaccinators may result in missed opportunities. Continue vaccinating until vaccine expires—although influenza season typically begins in early fall and continues through May, influenza viruses can circulate at any time of year.

**STRESS THE IMPORTANCE OF INFLUENZA VACCINATION**

Provider recommendation is the strongest predictor of whether patients receive needed vaccines. Explain the benefits of vaccination and answer any questions the patient may have (Box 3).

- Ensure that everyone on your staff who has patient contact gives the same affirmative messages and correct information about flu vaccination.
- Tell patients why you and your family get vaccinated each year.
- Let patients know that influenza vaccination is covered by many insurance plans and is available at no cost under the Affordable Care Act (ACA), though a copayment for an office visit and restrictions about in-network providers may apply.
- Offer patients informative handouts to read in the waiting room and to take home (Resources: Patient Education Materials).

**VACCINATE CHILDREN AS EARLY AS POSSIBLE**

Young children can transmit influenza within their families and the community, so child vaccination indirectly protects everyone through herd immunity. This is especially important to protect infants younger than 6 months, who are at higher risk for serious influenza-related complications but are too young to be vaccinated.

CDC recommends that children 6 months through 8 years be given a second dose of vaccine this season if they have not received at least 2 doses of flu vaccine in the past. All other children should receive 1 dose of flu vaccine. Before vaccinating, give parents the CDC Vaccine Information Statement (available in multiple languages), as required by law (Resources: Patient Educational Materials—CDC, IAC). Strongly encourage household contacts and child care providers to get vaccinated.

**VACCINATE PREGNANT WOMEN AGAINST INFLUENZA AND PERTUSSIS**

Influenza can be dangerous to pregnant women and their infants who are too young to receive the vaccine. The American Congress of Obstetricians and Gynecologists (ACOG), American Academy of Family Physicians (AAFP), CDC’s Advisory Committee on Immunization Practices (ACIP), and numerous other medical associations recommend influenza...
vaccination during pregnancy as the standard of care. In NYC, however, only 72.5% of providers offered or recommended vaccination to pregnant patients in 2013 (unpublished Pregnancy Risk Assessment Monitoring Systems data).

Strongly recommend and offer vaccination to all pregnant patients in any trimester as soon as flu vaccine is available (Box 418-23). Women whose providers offered or recommended flu vaccine are almost 8 times more likely to be vaccinated during pregnancy than women who do not receive the recommendation (unpublished data).

Administer Tdap vaccine during the visit. Tdap protects pregnant women against pertussis and safeguards their newborns in the first few months of life through transplacental transfer of antibodies. In 2014 and 2015, NYC saw an increase in pertussis cases, mainly among unvaccinated infants whose mothers had not received Tdap during pregnancy. In NYC in 2011, only 38% of women received Tdap before, during, or after a recent pregnancy. Studies from England indicate that vaccination during pregnancy confers about 90% protection against pertussis for infants. CDC and ACOG suggest that Tdap be administered between 27 and 36 weeks of gestation, to maximize antibody transfer, although the vaccine may be given at any time during pregnancy. See ACIP’s complete Tdap vaccination recommendations at Pregnancy and Whooping Cough: Vaccine Effectiveness.

GET VACCINATED EARLY AND ENSURE YOUR STAFF DOES THE SAME

All health care workers should receive vaccine as soon as it becomes available to protect themselves, their families, and their patients from influenza infection and transmission. Because of recent state vaccination requirements, 81% of NYC health care workers in regulated facilities were vaccinated in 2015-2016 (unpublished data).

Vaccination requirements:

- When the New York State Commissioner of Health declares that influenza is prevalent, Articles 28, 36, and 40 health care and residential facility personnel must document the influenza vaccination status of all health care workers and provide masks for unvaccinated workers and ensure they are worn in the presence of patients or residents.

- Many health care facilities must also report health care workers’ vaccination status to the Centers for Medicare & Medicaid Services (CMS) using the National Healthcare Safety Network Platform. See CMS Reporting Requirements (Resources) for more information.

THIS SEASON’S VACCINES

Trivalent inactivated influenza vaccine (IIV3) consists of 2 influenza A strains and 1 influenza B strain and includes changes from last season’s influenza A (H3N2) and influenza B viruses: A/California/7/2009 (H1N1)pdm09-like virus A/Hong Kong/4801/2014 (H3N2-like virus) (new strain) B/Brisbane/60/2008-like (B/Victoria lineage) virus

BOX 3. ANSWERING QUESTIONS ABOUT THE IMPORTANCE OF VACCINATION

Question: Why do I need a flu vaccine every year?
Response: Influenza viruses are always changing, and the vaccine is usually changed to match predicted strains. The 2016-17 vaccine has been updated with influenza virus strains, so last year’s vaccine will not fully protect you.

Question: I’ve had influenza in the past—doesn’t that give me immunity now?
Response: No. Circulating influenza viruses can change from year to year, so you may not be immune to the current strains if you’ve never been exposed to them before. And even if this year’s strains are the same as last year’s, immunity from the vaccine declines over time. Also, some virus strains are more severe than others.

Question: Does the flu vaccine really prevent influenza?
Response: Yes, it does. No vaccine is 100% effective, but vaccination is still your best defense against influenza and its complications. If you get vaccinated and still get influenza, the illness may be less severe.

Question: Isn’t influenza a minor illness?
Response: No. Even active, healthy people can get very sick for a week or more, and can even be hospitalized. And even if you do recover fast, you may have infected other people, including young children, older people, pregnant women, and people with serious medical conditions. Influenza can have dangerous consequences for them.

Question: Why do I need the vaccine if other people get vaccinated? Won’t I be protected?
Response: No. We encounter many people each day and we can’t assume that they’ve all been vaccinated. It’s better to get vaccinated yourself. It not only protects you, it protects people who are too young to be vaccinated or can’t be vaccinated because of a medical condition.

BOX 4. REASONS TO GIVE INFLUENZA VACCINE IN ANY TRIMESTER OF PREGNANCY

- Pregnant women are 4 times more likely to have an influenza-related hospitalization than nonpregnant women.
- Influenza increases the risk of premature labor and delivery.
- Vaccination prevents influenza infection through transplacental antibody transfer in infants younger than 6 months, who are at high risk of influenza-related hospitalization but too young to be vaccinated.
- Vaccination with inactivated vaccine during pregnancy is safe in any trimester. Inactivated flu vaccine
  - has been given to millions of pregnant women without harm,
  - is available in single-dose preparation without thimerosal for pregnant women.
**Quadrivalent influenza vaccine**, available in inactivated (IIV4) form, will also contain a B strain, the B/Phuket/3073/2013-like (B/Yamagata lineage) virus.30

**Recombinant** (recombinant hemagglutinin [RIV3]) and **cell culture-based** (ccIIV4) vaccines, which contain a very small amount of egg protein, are also available this season for age-appropriate patients with egg allergy.

**Vaccines for people aged 65 and older** include standard-dose and high-dose vaccines, and a new adjuvanted seasonal flu vaccine (FLUAD™).31

In a large US study, high-dose vaccine was 22% more effective in preventing both probable influenza and influenza-related hospital admissions than standard-dose vaccine in people aged 65 and older.32

While CDC has not recommended preferential use of any of these vaccines, the NYC Health Department recommends that you use either high-dose vaccine, based on the study results, or adjuvanted flu vaccine in patients aged 65 and older, who may not mount a strong immune response to standard-dose vaccines.

**Live-attenuated influenza vaccine** (LAIV) is not recommended for use this season by CDC and ACIP because of lower effectiveness demonstrated for the past 3 flu seasons. Last season, the preliminary estimate of vaccine effectiveness for LAIV against any virus was 3% (95% CI -49% to 37%) and for IIV was 63% (95% CI 52% to 72%) in people aged 2 through 17 years.36 The reason for the poorer overall performance of LAIV compared with IIV is not well understood. If you purchased or pre-ordered LAIV, contact the vaccine distributor to cancel the order without penalty. Providers who need to book additional vaccine should do so immediately. LAIV accounts for approximately 8% of the US flu vaccine market, and the other vaccine manufacturers are expected to provide additional vaccine to fill the gap.

A complete list of seasonal influenza vaccines and ACIP dosing recommendations is available at Influenza ACIP Vaccine Recommendations.

**Vaccine administration.** Influenza vaccines are available in intramuscular and intradermal formulations.

- Intramuscular vaccine: injected at a 90° angle with a needle long enough to penetrate muscle mass and prevent the vaccine from seeping into subcutaneous tissue.
- Intradermal vaccine: given with the prefilled microinjection system and approved for people aged 18 through 64. For additional tips on vaccine administration, see Administering Vaccines: Dose, Route, Site, and Needle Size and view a demonstration of intramuscular vaccination at https://www.youtube.com/watch?v=jdboI3SKgR0.

**VACCINE SAFETY**

Advise patients that vaccines are safe and discuss any concerns about adverse reactions (Box 5). Ask about the patient’s current health status, including any acute illness; history of reactions to influenza vaccine (including Guillain-Barré syndrome [GBS]); and allergies.

- **Current illness:** It is safe to vaccinate a patient with mild illness, such as diarrhea, upper respiratory tract illness, or otitis media. If illness is moderate to severe, with or without fever, vaccinate at your and the patient’s discretion.
- **History of GBS:** Consider the benefits and risks of vaccination in patients with a history of GBS within 6 weeks of receipt of a previous influenza vaccination. If such patients are also at high risk for severe flu complications, the benefits might outweigh the risks.33
- **Allergies.** The Advisory Committee on Immunization Practices has recently updated its guidance on influenza vaccination in persons with a history of egg allergy:
  1. Persons with a history of egg allergy who have experienced only hives after exposure to egg may receive any licensed influenza vaccine that is otherwise appropriate for the recipient’s age and health status.
  2. Persons with a history of severe reaction to egg (ie, any symptom other than hives, such as angioedema, respiratory distress, lightheadedness, or recurrent emesis); or who required epinephrine or another emergency medical
intervention, may similarly receive any licensed influenza vaccine that is otherwise appropriate for the recipient’s age and health status. The selected vaccine should be administered in an inpatient or outpatient medical setting (including but not necessarily limited to hospitals, clinics, health departments, and physician offices) under the supervision of a health care provider who is able to recognize and manage severe allergic conditions.

3. Providers should observe all patients for 15 minutes after vaccination to decrease the risk for injury should patients experience syncpe.

Alternate formulations of vaccine without preservatives, latex, and/or gelatin are available for patients with a known sensitivity to one or more vaccine components. Consult the CDC Recommendations Table or vaccine package inserts to find a formulation that does not include the implicated ingredient.

Please note: A previous severe allergic reaction to influenza vaccine is a contraindication to future receipt of the vaccine, regardless of the component suspected of being responsible for the reaction.

**VACCINATE AGAINST PNEUMOCOCCAL DISEASE**

Pneumococcal infections are serious complications of influenza that can result in severe pneumonia, meningitis, bacteremia, and sinus and ear infections. High-risk groups, such as adults aged 65 and older, and people who have chronic medical conditions or are immunosuppressed, are considerably undervaccinated. Only 50% of New Yorkers aged 65 and older received pneumococcal vaccine in 2012, well below the Healthy People 2020 goal of 90%.40

Two vaccines are available to prevent pneumococcal disease: pneumococcal conjugate vaccine (PCV13) and pneumococcal polysaccharide vaccine (PPSV23).

**Routine recommendations:**

- **All adults aged 65 and older** should receive both PCV13 and PPSV23 at least 1 year apart.
- **Children through age 5** should routinely receive the PCV13 series. Children must be vaccinated to enter a New York State-licensed child care center or prekindergarten.

**Additional recommendations:**

- **People aged 2 through 64 with qualifying medical conditions** should also receive PPSV23 and/or PCV13 (Box 2 and Table44).
- **Adults aged 65 and older with certain high-risk conditions** may need both vaccinations sooner than 1 year apart as well.

The Centers for Medicare & Medicaid covers the cost of both PCV13 and PPSV23 for Medicare patients, administered at least 11 months apart, in accordance with current ACIP recommendations.

See Pneumococcal ACIP Vaccine Recommendations and Intervals Between PCV13 and PPSV23 Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP) for detailed guidance.

**PRESCRIBE ANTIVIRALS FOR TREATMENT AND PROPHYLAXIS**

**Treatment**

- Three antiviral medications are approved for influenza treatment.42
- Oral oseltamivir (Tamiflu®) for patients aged 2 weeks and older. Common side effects include transient nausea and vomiting.
- Inhaled zanamivir (Relenza®) for patients aged 7 years and older. Common side effects include diarrhea, nausea, sinusitis, and allergic reactions of oropharyngeal or facial edema. Zanamivir is not recommended for people with an underlying respiratory disease such as asthma or COPD.
- Intravenous peramivir (Rapivab®) for adults aged 18 and older. The most common side effect is diarrhea.

**Prophylaxis**

Use oseltamivir and zanamivir, but not peramivir, for health care workers and people at higher risk for complications if they are exposed to influenza and the vaccine is medically contraindicated or was administered within 2 weeks after exposure.42 See package inserts for complete product safety information.

Amantadine (Symmetrel®, Symadine®) and rimantadine (Flumadine®) are not recommended for treatment or prophylaxis of currently circulating influenza A viruses due to high levels of drug resistance, and these agents are not effective against influenza B viruses.

**RECOMMENDED INFLUENZA REPORTING**

**Vaccinations**

1. Report all vaccinations administered to children younger than 19 years of age to the Citywide Immunization Registry (CIR) within 2 weeks of administration. To register with or access the CIR, log onto NYCMED.

2. Pharmacists and registered nurses must report vaccinations administered to patients aged 19 years and older with the patient’s verbal or written consent. All other immunization providers, including physicians, are strongly encouraged to report vaccines administered to patients in this age group with verbal consent.

Use your electronic health record (EHR) system to report immunizations to the CIR. Contact cir@health.nyc.gov with your facility address, contact information, and current EHR, or call 347-396-2400 to learn more. Providers may be eligible to receive Meaningful Use incentive payments when using their EHR to report to the CIR. For more information, see Overview of Meaningful Use and Immunization Reporting.
**Influenza cases and deaths**

Report:

1. Nosocomial cases of lab-confirmed influenza, or clusters of 2 or more cases of influenza-like illness, in Article 28 facilities.
   - Call the New York State Department of Health at 518-474-1142 or
   - Use the Health Commerce System Nosocomial Outbreak Reporting Application or

2. Deaths in people aged 17 or younger that occurred from a clinically compatible illness in which there is a positive influenza test or from an unknown febrile respiratory illness.
   - Call the NYC Health Department’s Provider Access Line (PAL) at 866-692-3641 (866-NYC-DOH1).

Visit Reporting Diseases and Conditions for further information.

<table>
<thead>
<tr>
<th>Medical Indication</th>
<th>Underlying Medical Condition</th>
<th>PCV13 for ≥ 19 y</th>
<th>PPSV23 for 19 through 64 y</th>
<th>PCV13 at ≥ 65 y</th>
<th>PPSV23 at ≥ 65 y</th>
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<td>Sickle cell disease/other hemoglobinopathies</td>
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<td>Solid organ transplant</td>
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*This PPSV23 column only refers to adults 19 through 64 years of age. All adults 65 years of age or older should receive one dose of PPSV23 5 or more years after any prior dose of PPSV23, regardless of previous history of vaccination with pneumococcal vaccine. No additional doses of PPSV23 should be administered following the dose administered at 65 years of age or older.

*Including congestive heart failure and cardiomyopathies.

*Including chronic obstructive pulmonary disease, emphysema, and asthma.

*Includes B- (humoral) or T-lymphocyte deficiency, complement deficiencies (particularly C1, C2, C3, and C4 deficiencies), and phagocytic disorders (excluding chronic granulomatous disease).

*Diseases requiring treatment with immunosuppressive drugs, including long-term systemic corticosteroids and radiation therapy.
REGISTER FOR INFLUENZA ALERTS

- Regularly visit the NYC Health Department’s flu web page for local influenza activity and flu vaccine recommendations and supply.
- Register for the Health Alert Network (HAN) to receive alerts on influenza and other emerging public health issues.
- Consider joining the Health Department’s ILLNet Influenza Surveillance Program as a sentinel physician to receive a weekly e-mail influenza update and guidance on influenza management. Contact Beth Nivin at 347-396-2616 or e-mail bnivin@health.nyc.gov.

SUMMARY

Your recommendation is one of the most powerful motivators for vaccination. Strongly recommend annual influenza vaccination for all patients 6 months and older, especially infants, young children, older adults, people with chronic medical conditions or immunosuppression, and pregnant women. Consider high-dose or adjuvanted flu vaccine for patients aged 65 years and older. Ensure that you and your staff are vaccinated and prepared to educate patients and parents about the benefits and side effects of vaccination.

BOX 6. NATIONAL VACCINE ADVISORY COMMITTEE (NVAC) STANDARDS FOR ADULT IMMUNIZATION PRACTICES

1. ASSESS the immunization status of all patients at every visit.
   - Stay current with the latest Centers for Disease Control and Prevention adult immunization schedules.
   - Ensure that patients’ vaccine needs are routinely reviewed and that they receive vaccine reminders.
   - Integrate vaccine assessment into your practice’s patient flow.

2. STRONGLY RECOMMEND needed vaccines.
   - Tailor explanations to patients’ level of understanding.
   - Address their questions and concerns.
   - Highlight the benefits of vaccination and potential costs of getting sick.

3. ADMINISTER needed vaccines or REFER patients to another vaccinator.
   - Use standing orders to allow nurses to assess patient vaccine status and administer needed vaccination without a direct order from the physician; this will save time and reduce missed opportunities for vaccination.
   - Incorporate immunizations into the practice work flow, for example, when vital signs are taken.
   - If certain vaccines are not in stock at your practice, be sure to refer patients to a local provider that can vaccinate. Pharmacists in New York City can administer influenza, pneumococcal, meningococcal, zoster, and tetanus and diphtheria (TD), and tetanus, diphtheria, acellular pertussis (Tdap) vaccines to adults aged 18 and older.

4. DOCUMENT all vaccines that patients receive.
   - Use the Citywide Immunization Registry (CIR) in conjunction with your electronic health record system to document vaccinations and to let other providers know which vaccines patients have received.
   - If you refer patients to a vaccinator, follow up to confirm that patients received the recommended vaccines. The CIR receives reports of most vaccines given in a pharmacy. By connecting with the CIR, you will be able to check whether your patients received a flu vaccine elsewhere.
   - Ensure that all immunizations your adult patients receive are reported to the CIR, with the patient’s consent (written or verbal).

5. Report all immunizations administered to all your patients using the Citywide Immunization Registry. Pediatric care practices that report administered flu vaccine doses to the CIR can access up-to-date influenza reports any time during flu season. Contact cir@health.nyc.gov with your facility address, contact information, and current EHR, or call 347-396-2400.


See Resources: Improving Vaccination Coverage for tips on increasing the vaccination rate in your practice.
RESOURCES FOR PROVIDERS

NYC Department of Health and Mental Hygiene Contact Information
- Provider Access Line. 9:00 AM to 5:00 PM: 866-692-3641/866-NYC-DOH1
- Influenza website (includes Flu Locator): www.nyc.gov/flu
- E-mail questions to NYC Health Department: nycflu@health.nyc.gov
- Health Alert Network (HAN): sign up at a816-healthpsi.nyc.gov or 888-692-3641

New York State (NYS) Department of Health Reporting
- Bureau of Communicable Disease Control: 518-473-4439
- Nosocomial Report Form DOH 4018: www.health.state.ny.us/forms/doh-4018.pdf

Immunization Recommendations
- Seasonal Influenza Vaccination Resources for Health Professionals: www.cdc.gov/flu/professionals/vaccination
- Advisory Committee for Immunization Practices (ACIP)
  - Recommended Child and Adult Immunization Schedules—United States, 2016: www.cdc.gov/vaccines/schedules
  - Pneumococcal ACIP Vaccine Recommendations: www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/pneumo.html
- Vaccine administration information: www.cdc.gov/vaccines/pubs/pinkbook/vac-admin.html
- Immunization Action Coalition: www.immunize.org/influenza
- American College of Physicians Immunization Portal: immunization.acponline.org
- American College of Obstetricians and Gynecologists Immunization Information for Ob-Gyns and Their Patients: www.immunizationforwomen.org

Improving Vaccination Coverage

Coding and Billing Information

CMS Reporting Requirements

Vaccination Documentation Requirements
- Facts about VISs: www.cdc.gov/vaccines/hcp/vis/about/facts-vis.html

Patient Education Materials
- NYC Health Department: www.nyc.gov/flu
- Publications, brochures, and posters
- Patient handouts (English, Spanish, Arabic, and Chinese)
- CDC: www.cdc.gov/flu/freeresources/index.htm
Free flyers, posters, brochures, and VISs for the general public, families and children, and high-risk groups

RESOURCES FOR PATIENTS
- NYC Health Department. Influenza Information: www.nyc.gov/flu
REFERENCES


