# Adult Immunization in Michigan: Using the Standards to Increase Coverage

### Hugh G. Deery II, MD, FACP, FIDS, FSHEA Michigan's Premier Public Health Conference Wednesday, October 4, 2017





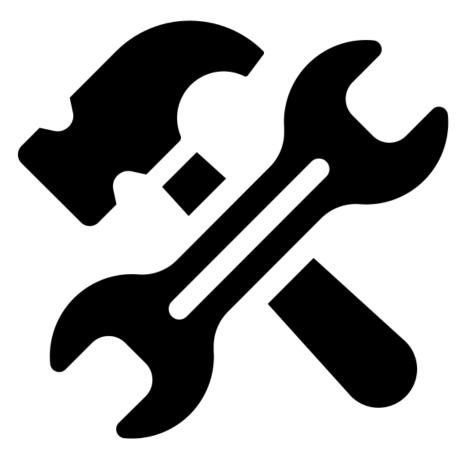
# **Disclosure Statements**

- Presenter has no conflicts to disclose.
- No commercial support was obtained for this activity.
- The presenter will not discuss the use of vaccines in a manner not approved by the U.S. Food and Drug Administration (FDA)
  - Presenter may discuss off-label use of a product that is in accordance with Advisory Committee on Immunization Practices (ACIP) recommendations

# Outline

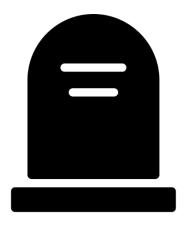
- Disease Burden and Impact of Vaccination
- Adult Coverage Levels U.S. and MI
- Immunization Disparities
- Adult Immunization Standards
- Call to Action for Adult Providers

# Tool Icon $\rightarrow$ Identify Resources Available (Look for this in the presentation)



Disease Burden & Impact of Vaccination Vaccine-preventable diseases (VPDs) still exist

# Vaccine-Preventable Diseases in the United States



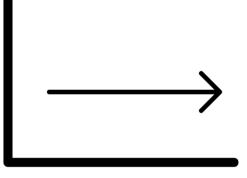
#### **Preventable Deaths**

In the United States, approximately 42,000 adults die each year of vaccine-preventable diseases.<sup>1</sup>



### Large Coverage Gaps

Adult coverage is alarmingly low. For the majority of vaccines, coverage is well below 50 percent.<sup>2</sup>



### **Little Improvement**

From year to year, modest improvements in rates are made and vaccine disparities persist.<sup>2</sup>

#### Sources:

- 1. https://www.healthypeople.gov/2020/topics-objectives/topic/immunization-and-infectious-diseases#star
- 2. https://www.cdc.gov/mmwr/volumes/66/ss/pdfs/ss6611.pdf
- 3. Icons created through the Noun Project

# Burden of Disease Among U.S. Adults



- Hepatitis A<sup>1</sup>
  - Since 2016, hepatitis A outbreaks have been reported in at least 13 states: including Michigan
  - From August 2016 through August 1, 2017, there have been 223 reported adult cases in the city of Detroit, Macomb, Oakland, St. Clair, and Wayne counties, with 9 out of 10 adults hospitalized<sup>2</sup>
- Hepatitis B<sup>3</sup>
  - 2,791 acute cases reported in 2014
- Human Papillomavirus (HPV)<sup>4</sup>
  - Estimated 79 million Americans currently infected
  - 14 million new infections each year in the US
- Zoster (also known as shingles)<sup>5</sup>
  - About 1 million cases of zoster annually U.S.

Sources:

4. CDC. Pink Book. http://www.cdc.gov/vaccines/pubs/pinkbook/hpv.html

<sup>1.</sup> CDC. Hepatitis A Outbreaks. https://www.cdc.gov/hepatitis/outbreaks/hepatitisaoutbreaks.htm

<sup>2.</sup> Michigan State Government News Releases (August 2, 2017). MDHHS issues Annual Viral Hepatitis Surveillance Report, urges vigilance in light of hepatitis A outbreak in Southeast Michigan and growing opioid crisis [Press release]. Retrieved from <a href="http://www.michigan.gov/minewswire/0,4629,7-136-3452-427888-...00.html">http://www.michigan.gov/minewswire/0,4629,7-136-3452-427888-...00.html</a>

<sup>3.</sup> CDC. Viral Hepatitis Surveillance United States. www.cdc.gov/hepatitis/statistics/2014surveillance/pdfs/2014hepsurveillancerpt.pdf

<sup>5.</sup> CDC. Prevention of Herpes Zoster. MMWR 2008. 57(RR-5): 1-30.

# Burden of Disease Among U.S. Adults



- Pertussis (also known as whooping cough)<sup>1</sup>
  - 20,762 total reported cases in 2015
  - 4,650 among adults 20 years of age and older
- Influenza disease burden varies year to year<sup>2</sup>
  - 140,000-710,000 hospitalizations annually
  - 12,000-56,000 deaths annually
- Invasive pneumococcal disease (IPD)<sup>3</sup>
  - 29,500 total cases and 3,350 total deaths in 2015
  - 91% of cases and nearly all deaths among adults 65 years of age and older

Sources:

- 1. CDC. 2015 Final Pertussis Surveillance Report. <u>http://www.cdc.gov/pertussis/downloads/pertuss-surv-report-2015.pdf</u>.
- 2. Rolfes MA, Foppa IM, Garg S, Flannery B, Brammer L, Singleton JA, et al. Estimated Influenza Illnesses, Medical Visits, Hospitalizations, and Deaths Averted by Vaccination in the United States. 2016 Dec 9 [Date Cited]; <u>https://www.cdc.gov/flu/about/disease/2015-16.htm</u>
- 3. CDC. 2015. Active Bacterial Core Surveillance Report, Emerging Infections Program Network, Streptococcus pneumoniae, 2015.

# Economic Burden of Disease Among U.S. Adults

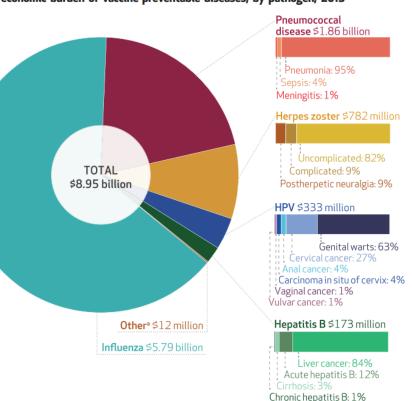
#### EXHIBIT 3

Annual economic burden of vaccine-preventable diseases, by pathogen, 2015

# IN A SINGLE YEAR...

Economic burden at **\$8.95 billion** from vaccine-preventable diseases

- Related to ten vaccines recommended for adults ages nineteen and older
- \$7.1 billion, or 80 percent, of the financial burden attributed to unvaccinated individuals.



**SOURCE** Authors' analysis. **NOTES** All dollar amounts are for all US adults relevant to each vaccinepreventable disease (which target different age groups). The breakdown of results by age is presented in the online Appendix (see Note 7 in text). HPV is human papillomavirus. <sup>a</sup>Includes economic burden attributable to diphtheria, hepatitis A, measles, meningococcal disease, mumps, pertussis, rubella, tetanus, and varicella.

# Whole-Person Care: High Risk Case Study

Adults with diabetes (both type 1 & type 2) are at higher risk for serious problems:

- Influenza can raise blood glucose to dangerously high levels
- Higher rates of hepatitis B than the rest of the population
   Outbreaks of hepatitis B associated with blood glucose monitoring procedures
- Increased risk for death from pneumonia, bacteremia & meningitis

# Vaccine Effectiveness → Negative Outcomes Averted

# the **benefits** of **flu vaccination** 2015-2016

The estimated number of flu **illnesses prevented** by flu vaccination during the 2015-2016 season:

**5** million

as many people use Denver International Airport in one month



DATA: Influenza Division program impact report 2015-2016, https://www.cdc.gov/flu/about/disease/2015-16.htm.

The estimated number of flu **medical visits prevented** by vaccination during the 2015-2016 season:

**2.5** million

equal to the population of Portland, Oregon



The estimated number of flu **hospitalizations prevented** by vaccination during the 2015-2016 season:

71,000

enough to fill every registered hospital bed in the state of Texas



NCIRDig-607 | 12.06.2016

get **vaccinated** www.cdc.gov/flu



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

# Opportunities for Primary Prevention

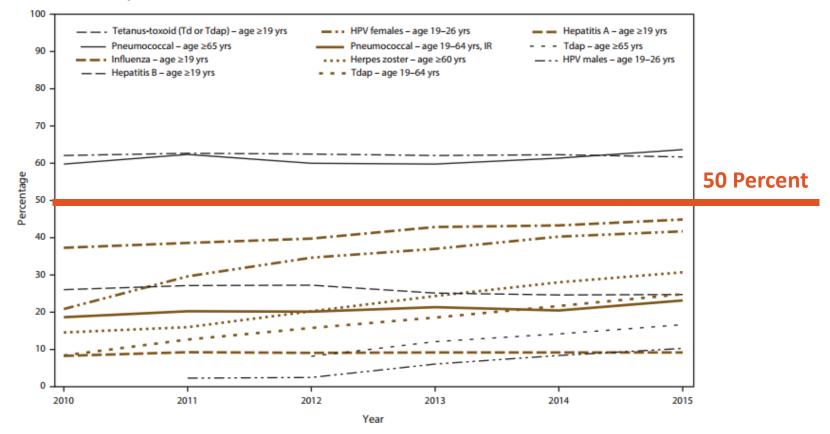


- Adults are not aware of the vaccines they need...
  - Yet most patients will accept vaccines if recommended by a trusted healthcare provider
- Healthcare providers for adults are busy and have competing priorities...
  - Yet healthcare providers think immunizations are **important** for their patients
- Racial/ethnic disparities persist for recommended adult vaccines...
  - Yet routine and systematic **offering** of vaccines has been shown to decrease gaps in vaccine disparities.
- Not all providers stock all vaccines for adults...
  - Yet access to vaccines is increasing
- Adults frequently see multiple providers and recordkeeping is difficult...
  - Yet state vaccine registries (MCIR) include adult immunizations – more on this later in the presentation!

Vaccination Coverage Rates Among Adults United States and Michigan

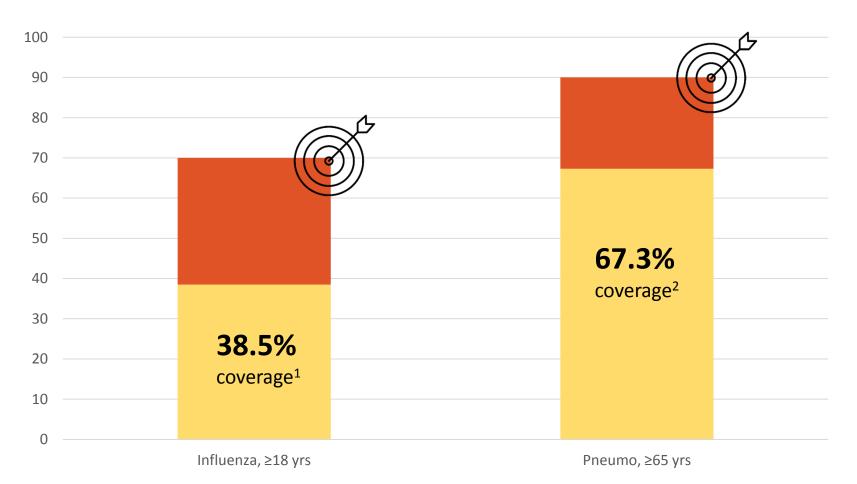
# Surveillance of Vaccination Coverage Among Adult Populations — United States, 2015

FIGURE. Estimated proportion of adults aged ≥19 years who received selected vaccines,\* by age group and increased risk status<sup>†</sup> — National Health Interview Survey, United States, 2010–2015



**Source:** Williams WW, Lu P, O'Halloran A, et al. Surveillance of Vaccination Coverage among Adult Populations — United States, 2015. MMWR Surveill Summ 2017;66(No. SS-11):1–28. DOI: <u>http://dx.doi.org/10.15585/mmwr.ss6611a1</u>.

# Select Healthy People 2020 Objectives



1. Influenza vaccination coverage estimates for persons 6 months and older by State, HHS Region, and the United States, National Immunization Survey-Flu (NIS-Flu) and Behavioral Risk Factor Surveillance System (BRFSS), 2015-16 influenza season. <u>https://www.cdc.gov/flu/fluvaxview/index.htm</u>

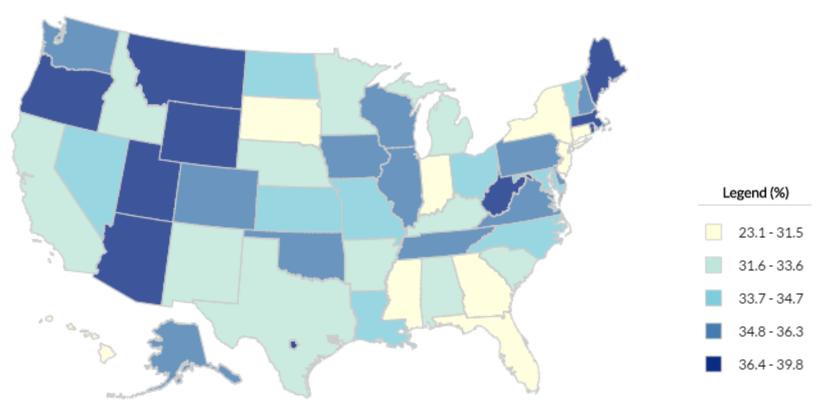
= Healthy People 2020 target

2. Early Release of Selected Estimates Based on Data From the January–September 2016 National Health Interview Survey. <u>https://www.cdc.gov/nchs/nhis/releases/released201702.htm#5</u>

Pneumococcal vaccination coverage among adults 18–64 years at increased risk – BRFSS Coverage for 2015

Healthy People 2020 target is 60% for adults at increased risk





Michigan is ranked 41<sup>st</sup> lowest in the nation for coverage (50 states + District of Columbia)

https://www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/data-reports/general-population/trend/index.html

# Zoster Coverage in the Michigan Care Improvement Registry (MCIR)

### As of June 30, 2017<sup>1</sup>

 24.3 percent of Michigan adults aged 60 years and older had received the zoster vaccine\*

### The most recent national estimate is 30.6 percent<sup>2</sup>

### \*Make sure adult vaccines are reported to MCIR

- 1. MDHHS County Immunization Report Card. http://www.michigan.gov/mdhhs/0,5885,7-339-73971\_4911\_4914\_68361-321114--,00.html
- 2. Estimated proportion of adults ≥60 years who received Herpes zoster vaccination, National Health Interview Survey, United States, 2015 <u>https://www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/coverage-estimates/2015.html</u>

## **Immunization Disparities**

Decrease barriers and missed opportunities

### Racial/Ethnic Vaccination Disparities (influenza coverage)

#### When compared with non-Hispanic, white adults

• The table outlines statistically significant disparities in 60% of the flu coverage comparisons

Vaccination Group 2014–15 season, NHIS	% Vaccinated Whites	Differences, Blacks	Differences, Hispanics	Differences, Asians
Influenza, ≥19 yrs.	48.5	-10.8	-15.5	+0.5
Influenza, 19-49 yrs.	34.6	-5.5	-9.5	+8.5
Influenza, 50-64 yrs.	50.2	-8.3	-5.3	-4.3
Influenza, 65 yrs.	75.1	-10.8	-11.0	+8.4
Influenza, HCP ≥19 yrs.	71.2	-11.4	-11.2	+3.1

Source:

Williams WW, Lu P, O'Halloran A, et al. Surveillance of Vaccination Coverage among Adult Populations — United States, 2015. MMWR Surveill Summ 2017;66(No. SS-11):1–28. DOI: <u>http://dx.doi.org/10.15585/mmwr.ss6611a1</u>

### Racial/Ethnic Vaccination Disparities (non-influenza coverage)

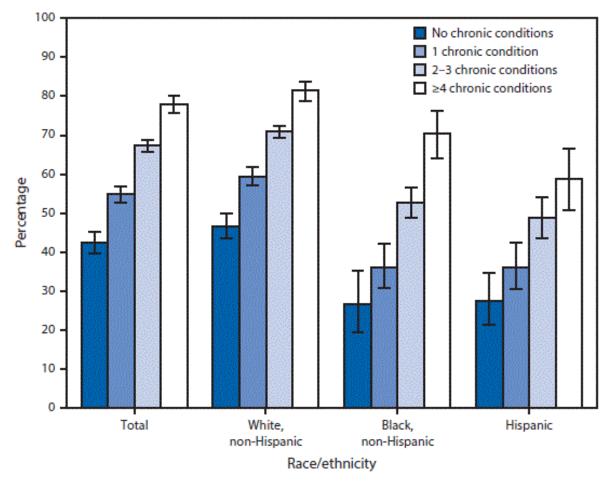
#### When compared with non-Hispanic, white adults

#### • The table outlines statistically significant disparities in 79% of the comparisons

Vaccination Group 2015 NHIS	% Vaccinated Whites	Disparity, Blacks	Disparity, Hispanics	Disparity, Asians
Pneumo., HR 19-64 yrs.	24.0	-2.0	-4.6	-2.5
Pneumo., ≥65 yrs.	68.1	-17.9	-26.4	-19.1
Tetanus, 19-49 yrs.	68.5	-15.1	-17.2	-14.4
Tetanus, 50-64 yrs.	68.7	-15.7	-14.3	-23.5
Tetanus, ≥65 yrs.	59.4	-15.6	-8.8	-12.6
Tdap, ≥19 yrs.	27.0	-11.9	-12.8	-7.2
Tdap, 19-64 yrs.	29.7	-13.7	-14.9	-8.9
Tdap, ≥65 yrs.	18.2	-8.5	-9.1	-4.4
Hep A, 19-49 yrs.	12.8	-2.0	-2.4	+5.1
Hep B, 19-49 yrs.	34.9	-5.5	-12.4	+3.4
Herpes Zoster, ≥60 yrs.	34.6	-21.0	-18.6	-8.6
HPV, Females 19-26 yrs.	44.7	-6.7	-9.0	-8.4
Tdap, HCP ≥19 yrs.	49.2	-20.9	-10.5	+0.2
Hep B, HCP ≥19 yrs.	67.8	-11.0	-10.7	-3.6

Source: Williams WW, Lu P, O'Halloran A, et al. Surveillance of Vaccination Coverage among Adult Populations — United States, 2015. MMWR Surveill Summ 2017;66(No. SS-11):1–28. DOI: <u>http://dx.doi.org/10.15585/mmwr.ss6611a1</u>

# Adults Aged ≥65 Years Who Reported Ever Receiving a Pneumococcal Vaccination, by Race/Ethnicity and Chronic Conditions — NHIS, United States, 2014–2015



https://www.cdc.gov/mmwr/volumes/65/wr/mm6544a11.htm

# **Disparities In U.S. Adult Immunization Rates**

- Lower vaccine coverage among:
  - Hispanics and African Americans compared to non-Hispanic Caucasians
  - Uninsured
  - Lower incomes
- Improved frequency of provider vaccine assessment and recommendations may help reduce disparities
  - Address patient concerns and mistrust
  - Open non-judgmental dialogue
  - Reduce structural barriers to preventive care

Sources:

1. Lu, P-J, et al. Racial and Ethnic Disparities in Vaccination Coverage Among Adult Populations in the U.S. *Am J Prev Med* 2015; 49(6):S412–S425 2. Linn, S, et al. Disparities in Influenza Vaccine Coverage in the United States. *J Am Geriatr Soc* 2010; 58(7):1333-1340

# Why we need the Standards



- Most adults are not aware of the vaccines they need to protect their health
- ✓ Adult vaccination rates are remarkably low
  - ✓ AND significant immunization disparities exist
- Health Care Provider (HCP) recommendation is the strongest predictor of whether patients get vaccinated

NVAC. Recommendations from the National Vaccine Advisory Committee: Standards for Adult Immunization Practice. Public Health Reports 2014;129:115-123.

# **Adult Immunization Standards**

Make immunizations a standard of adult patient care in your practice. Make sure ALL of your patients are fully protected!

#### Immunizing Adult Patients: New Standards for Practice

Your patients trust you to give them the best advice on how to protect their health. Vaccinepreventable diseases can result in serious illness, hospitalization, and even death.

Make adult vaccination a standard of care in your practice.

#### Your patients have probably not received all the vaccines they need.

Even though most insurance plans cover the cost of recommended vaccines, aduk vaccination rates in the U.S. are unacceptably low. Each year, tens of thousands of aduks

needlessly suffer, are hospitalized, and even die as a result of diseases that could be prevented by vaccines.

#### Your patients may not even realize that they need vaccines.

A recent national survey showed that most adults are not aware that they need vacches throughout their lives to protect against diseases like shingles, pertussis, and hepätis. Many also report not necelving vacche recommendations from their heakhcare professional.

#### You can make a difference.

Healthcare professionals are the most valued and trusted source of health information for adults. Research shows that most adults believe vaccines are important and that a recommendation from their healthcare professional is a key predictor of patients getting needed vaccines.

#### Make Immunization a Standard of Patient Care In Your Practice:

- ASSESS the Immunization status of all your patients at every clinical encounter.
   Stay informed about the latest CDC recommendations
- forimmunization of adults.
- Implement protocols in your office to ensure that patients' vaccine needs are routinely reviewed and patients get reminders about vaccines they need.
- 2. SHARE a strong recommendation with your patients for vaccines they need.
- Address patient questions and concerns in clear and understandable language.
   Highlight your positive experiences with vaccination
- ccines throughout their lives to protect (personal or in your practice). against diseases like simplex, pertussis, <u>3, AD MINISTER</u> needed vaccines or REFER your patients and hepatik. Many also report not to a vaccination provider.
  - For vaccination provider.
     For vaccination services as convenient as possible for your patients.
  - For vaccines that you don't stock, refer patients to providers in the area that offer vaccination services.
  - DOCUMENT vaccines received by your patients.
     Participate in your states immunication negisity to help your office, your patients, and your patients' other providers know which vaccines your patients have had.
     Follow up to confirm that patients received recommended vaccines that you referred them to get from other immunization providers.

HEW Standards for Adult Immunication Practice emphasize the role of ALL heathcare professionate—whether they provide Immunication services or not—mensaring that adult patients are utily immunicat. These standards are published by the National Vacione Advisory Committee and supported by the Centers for Disease Control and Prevention as well as a number of national medical associations.



# Adult Standards:

## 1. Assess

# 2. Recommend

# 3. Administer or Refer

4. Document

www.cdc.gov/vaccines/hcp/patient-ed/adults/for-practice/standards/

## Step 1: Vaccine Needs Assessment

1

#### Vaccine Needs Assessment

A Series on Standards for Adult Immunization Practice

Assessment is the critical first step in ensuring that your adult patients get the vaccines they need for protection against serious vaccine-preventable diseases.

As a standard of care—whether you provide vaccines or not—you should assess your patients' immunization status at every clinical encounter and strongly recommend vaccines that they need.

- Assessing your patients' vaccination status at every clinical encounter will decrease missed opportunities to vaccinate.<sup>1,2,3</sup>
- Many adults do not schedule annual check-ups or come in for preventive services, therefore it is critical to assess vaccine status whenever they do come in for a visit.
- Some vaccines are indicated for adults based on factors other than age, making it important to assess regularly whether your patients have had lifestyle, health, or occupational changes that may prompt the need for additional vaccines.
- Vaccine recommendations for adults change over time, and your patients may not be up to date with the latest recommendations.

#### There are simple ways to implement routine vaccine assessment into your office patient flow.

- Give patients a vaccine assessment form at check-in.
- Include standing orders or protocols for nursing staff to assess and administer needed vaccines.
- Integrate vaccine prompts into electronic medical records.

See back for more tips and resources.

#### Routinely assessing patient vaccination status will make a difference.

Adults think immunization is important, but most are not aware that they need vaccines throughout their lives. Research indicates that your recommendation is the strongest predictor of whether patients get vaccinated.<sup>1</sup> Implement policies to ensure your patients' vaccination needs are notifiedly reviewed.

For information on insurance coverage of vaccines for adults, visit www.cdc.gov/vaccines/hcp/adults.

Information Series for Healthcary Professionals www.colc.gov/vacolnes/adultistandards U.S. vaccination rates for adults are extremely low. For example:

- Only 14% of adults 19 years or older have received Tdap vaccination.
- Only 20% of adults 60 years or older have received zoster (shingles) vaccination.
- Only 20% of adults 19 to 64 years old, at high risk, have received pneumococcal vaccination.
- Only 41% of adults 18 years or older had received flu vacchation during the 2012–2013 flu season.
- Sources: NHS 2012 (MMWR 2014;63(5)) BRFSS 2012-2013 (www.cdc.gov/Yw/ fluvazview)

For resources and tips on vaccine recommendation, administration, referral, and documentation, visit:



- Assess immunization status of all patients at every clinical encounter
- Implement protocols and policies
- Ensure patients' vaccine needs are routinely reviewed
- Ensure patients get reminders about vaccines they need



- Use vaccine questionnaires
  - Helps identify vaccine need
  - Grabs patient's attention regarding immunization history
- Screen for vaccines
  - Contraindications & precautions
  - Screening forms can be found at www.immunize.org

Dol	Need Any Vaccinations Today?			
	This questionnaire will help you and your healthcare provider determine if you ne anv vaccinations today. Please check the boxes that apply to you.	ed		
a va				
	Screening Checklist PATIENT NAME			
COC	for Contraindications			
	to Vaccines for Adults			
	For patients: The following questions will help us determine which vaccines y answer "yes" to any question, it does not necessarily mean you should not be additional questions must be asked. If a question is not clear, please ask your h	vaccinated. It j	just mea	ins
	1. Are you sick today?			
	2. Do you have allergies to medications, food, a vaccine component, or latex?			
	3. Have you ever had a serious reaction after receiving a vaccination?			
	4. Do you have a long-term health problem with heart disease, lung disease, asthma, kidney disease, metabolic disease (e.g., diabetes), anemia, or other blood disorder?			
di	5. Do you have cancer, leukemia, HIV/AIDS, or any other immune system problem?			
	6. In the past 3 months, have you taken medications that affect your immune system, such as prednisone, other steroids, or anticancer drugs; drugs for the treatment of rheumatoid arthritis, Crohn's disease, or psoriasis; or have you had radiation treatments?			
	7. Have you had a seizure or a brain or other nervous system problem?			
	<ol> <li>During the past year, have you received a transfusion of blood or blood products, or been given immune (gamma) globulin or an antiviral drug?</li> </ol>			
	<ol><li>For women: Are you pregnant or is there a chance you could become pregnant during the next month?</li></ol>			
-		_		
	10. Have you received any vaccinations in the past 4 weeks?			
	10. Have you received any vaccinations in the past 4 weeks?			





# Implementing Routine Vaccine Assessment

- Implement standing orders and protocols
  - Incorporate assessment and administration of vaccines as you would routine vitals

The Community Preventive Services Task Force recommends standing orders for vaccinations based on strong evidence of effectiveness in improving vaccination rates.

Source: www.thecommunityguide.org/vaccines/standingorders.html

Standing orders for other vaccines are available at www.immunize.org/standing-orders. NOTE: This standing orders template may be adapted per a practice's discretion without obtaining permission from IAC. As a courtesy, please acknowledge IAC as its source.

#### STANDING ORDERS FOR Administering Hepatitis B Vaccine to Adults

#### Purpose

To reduce morbidity and mortality from hepatitis B virus (HBV) by vaccinating all adults who meet the criteria established by the Centers for Disease Control and Prevention's Advisory Committee on Immunization Practices.

#### Policy

Where allowed by state law, standing orders enable eligible nurses and other health care professionals (e.g., pharmacists) to assess the need for vaccination and to vaccinate adults who meet any of the criteria below.

#### Procedure

- 1 Assess Adults for Need of Vaccination against HBV infection according to the following criteria:
- Any person who wants to be protected from HBV infection
- Patient with diabetes mellitus (Note: for those age 60 years or older with diabetes mellitus, at the discretion of the treating clinician)
- Patient with end-stage renal disease, including patients receiving hemodialysis; HIV infection; or chronic liver disease
- Sexually active and not in a long-term, mutually monogamous relationship (e.g., more than 1 sex partner during the previous 6 months)
- · Seeking evaluation or receiving treatment for a sexually transmitted infection (STI)
- A male who has sex with males
- A current or recent injection-drug user
- At occupational risk of infection through exposure to blood or blood-contaminated body fluids (e.g., health care worker, public safety worker, trainee in a health professional or allied health school)
- Residents or staff of an institution for persons with developmental disabilities
- Sex partner or household member of a person who is chronically infected with HBV (HBsAg-positive). (This includes an HBsAg-positive adopted child.)
- Planned travel to a country with high or intermediate prevalence of endemic HBV infection (for hepatitis B travel
  information from CDC, go to wwwnc.cdc.gov/travel/diseases/hepatitis-b)
- People living in correctional facilities
- All teenagers ages 18 and younger who are not fully vaccinated (see standing orders for children and teens at www.immunize.org/catg.d/p3076a.pdf)
- 2 Screen for Contraindications and Precautions

#### Contraindications



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Technical content reviewed by the Centers for Disease Central and Prevention
IMMUNIZATION ACTION COALITION
Saint Paul, Minnesota • 651-647-9009 • www.immunize.org • www.xaccineinformation.org
www.immunize.org • www.xaccineinformation.org
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# 10 Steps to Implementing Standing Orders...

### Suggested steps to help you work through this process from the Immunization Action Coalition (IAC)

 Having standing orders in place streamlines practice workflow by eliminating the need to obtain an individual physician's order to vaccinate each patient.

#### 10 Steps to Implementing Standing Orders for Immunization in Your Practice Setting

#### Introduction



Standing orders are written protocols approved by a physician or other authorized practitioner that allow qualified health care professionals (who are eligible to do so under state law, such as registered nurses or pharmacist) to assess the need for and administer vaccine to patients meeting certain criteria, such as age or underlying medical condition. The qualified health care professionals must also be eligible by state law to administer certain medications, such as epinephrine, under standing orders should a medical emergency (rare event) occur.

Having standing orders in place streamlines your practice workflow by eliminating the need to obtain an individual physician's order to vaccinate each patient. Standing orders carried out by nurses or other qualified health care professionals are the most consistently effective means for increasing vaccination rates and reducing missed opportunities for vaccination, which improves the quality of care for patients. While this guide focuses on implementing standing orders for influenza vaccination, the basic principles included can be used to implement standing orders for other vaccines and for any age group desired.

Standing orders are **straightforward to use**. The challenge is to integrate them into the practice setting so they can be used to their full potential. This process requires some preparation up front to assure everyone in the practice understands the reasons why standing orders are being implemented. Suggested steps to help you work through this process are shown below.

#### Phase 1: Get Ready - Build Support of Leadership

STEP 1 Discuss the benefits of implementing standing orders protocols with the leadership (medical director, clinicians, clinic manager, lead nurses) in your medical setting. Standing orders will:

- Facilitate efficient assessment for and administration of influenza vaccine in your practice.
- Improve influenza vaccination rates in your practice.
- Protect more of your patients from influenza.
- Empower nurses and/or other eligible staff to use standing orders to protect more patients.
- Decrease opportunities for influenza transmission in your health care setting.
- It is important to get buy-in from physician and nurse leadership from the start.

Technical center metered by the Center for Basea Center and Prevention IMMUNIZATION ACTION COALITION Saint Paul, Minnesota • 651-647-9009 • www.immunize.org • www.vaccinerinformation.org www.immunize.org add/saids/



The Task Force recommends client reminder (due) and recall (overdue) interventions based on strong evidence of effectiveness in improving vaccination rates

- Send patient reminders
  - Utilize Electronic Health Records (EHRs) to distribute patient reminders via postcards, letters, text message or automated phone calls
  - MCIR can be used to send letters to overdue patients
- Use health care provider prompts
  - Next dose reminders may be generated by an EHR
    - E.g., next dose of HPV, HepA, or HepB

### Step 2: Give a Strong Recommendation



#### Vaccine Recommendation

A Series on Standards for Adult Immunization Practice



Routinely assess patient immunization status and strongly recommend vaccines that patients need, whether you stock the vaccines or not.

Recommending vaccines prompts most patients to get immunized.

Research indicates that most adults believe that vaccines are important and are likely to get them if recommended by their health care professionals.

For some patients, a clear and strong recommendation may not be enough. You can encourage these patients to make an informed decision about vaccination by sharing critical information.



SHARE the tailored reasons why the recommended vaccine is right for the patient given his or her age, health status, lifestyle, occupation, or other risk factors.

HIGHLIGHT positive experiences with vaccines (personal or in your practice), as appropriate, to reinforce the benefits and strengthen confidence in vaccination.

ADDRESS patient questions and any concerns about the vaccine, including side effects, safety, and vaccine effectiveness in plain and understandable language.

REMIND patients that vaccines protect them and their loved ones from many common and serious diseases.

EXPLAIN the potential costs of getting the disease, including serious health effects, time lost (such as missing work or family obligations), and financial costs.

For tips on answering common patient questions and links to patient education materials, see back.

Information Series for Healthcare Professionals www.odc.evm/socimes/aduitstandards



#### U.S. vaccination rates for adults are extremely low.

For example: • Only 14% of adults 19 years or older have received Titap

vaccination.

 Only 20% of adults 60 years or older have received zoster (shingles) vaccination.

 Only 20% of adults 19 to 64 years old, at high risk, have received pneumococcal vaccination.

 Only 41% of adults 18 years or older had received flu vaccination during the 2012–2013 flu season.

Sources: NHIS 2012 (MMWR 2014;63(5)) BRFSS 2012-2013 (www.cdt.gov/Yka/ flavaszview)

For resources and tips on vaccine assessment, administration, referral, and documentation, visit





#### Use the SHARE Tool:



- **Share** tailored reasons why vaccination is right for the patient
- Highlight positive experiences
- Address questions & concerns
- **Remind** patients that vaccines protect them and their loved ones
- **Explain** the costs of getting sick

http://www.cdc.gov/vaccines/hcp/adults/for-practice/standards/recommend.html

Your recommendation is a critical factor in whether your patients get the vaccines they need

# Provider Side of Messaging



- HCP commonly discuss with their patients:
  - Consequences of not being vaccinated
  - Safety and efficacy
  - Possible side effects
  - Benefits
- HCP believe that vaccination is the adult's choice and are reluctant to be "pushy"

Remember that many adults are not aware of their vaccination needs and cannot make an informed choice about their health if the vaccine recommendations have not been explored.

# Patient Side of Messaging



### Adults:

- Favor simple and to-the-point messages
- React positively to messages that stress prevention or encourage vaccination as a way have control over their health (proactive)
- Prefer empowering messages ones that provide information that can help them make an informed decision
- Value references to health care providers (HCP) messages that urge them to talk to their HCP to determine which vaccines are right for them

# Step 3: Vaccine Administration

3

#### Vaccine Administration

A Series on Standards for Adult Immunization Practice

Take steps to improve vaccine administration in your office and better protect your patients from vaccinepreventable diseases.

1. Assess patient vaccination status at every visit.

U.S. vaccination rates are extremely low, and research shows that there are many missed opportunities for vaccination of adult patients during clinical encounters.

2. Recommend and offer vaccines at the same visit.

Research shows when patients receive a vaccine recommendation and are offered the vaccine at the same time, they are more likely to get vaccinated. For vaccines you don't stock, it is still official to make the recommendation and then refer to another immunization provider.

See fact sheet 4 in this series for tips on referral.

3. Train and educate your staff on vaccine administration.

Building your staff's skills and confidence in vaccine administration can help improve vaccine delivery and ensure patient safety.

4. Properly store and handle vaccines.

This critical step can reduce wastage.

- Distribute Vaccine Information Statements (VIS) to patients. Help your patients make informed decisions about vaccinations by providing them with up-to-date information about the benefits and potential nisks for each vaccine they need.
- 6. Ensure proper care for patients.

Minimize potential risks to your patients by following safety protocols such as having your patients sit or lie down while you administer vaccines.

 Follow standard precautions to control infection. Minimize the risks of spreading disease when administering vaccines.

#### Be aware of and prepared for potential adverse reactions.

All vaccines have the potential to cause adverse reactions. Most are minor (e.g., itching, soreness) but severe reactions (e.g., anaphylaxis), while rare, can occur. Make sure you and your staff are prepared to handle severe reactions.

Information Series for Healthcare Professionals www.colc.gov/haodines/adultstanelards

#### U.S. vaccination rates for adults are extremely low.

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- Only 41% of adults 18 years or older had received flu vaccination during the 2012–2013 flu season.
- Sources: NHES 2012 (M MWR 2014;63(5)) BRESS 2012-2013 (w www.cdc.gov/Yku/ disyosylew)

For resources and tips on vaccine assessment, recommendation, reternal, and documentation, visit: www.cdc.gov/vaccines/adultstandards  Have all vaccines available at clinic site

- Preferred practice
- Stock and offer all vaccines recommended by the ACIP





# Adult Immunization Schedules – 2017

Figures 1 and 2 should be read with the footnotes that contain important general information and considerations for special populations.

Vaccine	19–21 years	22–26 years	27–59 years	60–64 years	≥ 65 years				
Influenza <sup>1</sup>	1 dose annually								
Td/Tdap²	Substitute Tdap for Td once, then Td booster every 10 yrs								
MMR <sup>3</sup>	1 or 2 doses depending on indication								
VAR <sup>4</sup>	2 doses								
HZV⁵				1 dose					
HPV–Female <sup>6</sup>	3 d	oses							
HPV–Male <sup>6</sup>	3 de	oses							
PCV13 <sup>7</sup>	1 d <mark>ose</mark>								
PPSV23 <sup>7</sup>	1 or 2 doses depending on indication 1 dose								
HepA <sup>8</sup>	2 or 3 doses depending on vaccine								
НерВ°	3 doses								
MenACWY or MPSV4 <sup>10</sup>	1 or more doses depending on indication								
MenB <sup>10</sup>	2 or 3 doses depending on vaccine								
Hib <sup>11</sup>	1 or 3 doses depending on indication								
	age requirement, la	adults who meet the ick documentation of evidence of past infection		r adults with additional s or other indications	No recommendatio				

Recommendations should be read with the footnotes & additional considerations that follow.

www.cdc.gov/vaccines/schedules/hcp/adult.html



# Adult Immunization Schedules – 2017

Figure 2. Recommended immunization schedule for adults aged 19 years or older by medical condition and other indications, United States, 2017

Vaccine	Pregnancy <sup>1-6,9</sup>	Immuno- compromised (excluding HIV infection) <sup>3-7,11</sup>	HIV infecti CD4+ cou (cells/µL) <sup>3</sup> < 200 ≥ 2	int	Asplenia, persistent complement deficiencies <sup>7,10,11</sup>	Kidney failure, end-stage renal disease, on hemodialysis <sup>7,9</sup>	Heart or lung disease, chronic alcoholism <sup>7</sup>	Chronic liver disease <sup>7-9</sup>	Diabetes <sup>7,9</sup>	Healthcare personnel <sup>3,4,9</sup>	Men who have sex with men <sup>68,9</sup>
Influenza <sup>1</sup>		1 dose annually									
Td/Tdap²	1 dose Tdap each pregnancy		Substitute Tdap for Td once, then Td booster every 10 yrs								
MMR <sup>3</sup>	cont	ontraindicated				1 or 2 doses depending on indication					
VAR⁴	contraindicated				2 doses						
HZV⁵	contraindicated				1 dose						
HPV-Female <sup>6</sup>		3 doses through age 26 yrs									
HPV-Male <sup>6</sup>		3 doses through age 26 yrs 3 doses through age 21 yrs							3 doses through age 26 yrs		
PCV13 <sup>7</sup>		1 dose									
PPSV237		1, 2, or 3 doses depending on indication									
HepA⁵		2 or 3 do <mark>ses dependin</mark> g on vaccine									
HepB°							3 de	oses			
MenACWY or MPSV410				1	1 or more doses	depending on in	ndication				
MenB <sup>10</sup>					2 or 3 doses	depending on va	accine				
Hib''		3 doses post-HSCT recipients only			1 d	ose					
age require	ded for adults w ment, lack docu , or lack evidenc		n			r adults with addi Is or other indicati		Contrai	ndicated	No rec	commendation

Recommendations should be read with the footnotes & additional considerations that follow.

www.cdc.gov/vaccines/schedules/hcp/adult.html

# Resources for Vaccine Administration

- Quick Looks HCP offer:
  - Vaccine types/brands available
  - Indications for use
  - Recommended schedule and minimum intervals
  - Recommendations for persons at high risk
  - Revaccination guidelines
  - Vaccine administration, including needle length
  - Storage and handling
  - Special situations
  - Contraindications and Precautions
  - Documentation
- Vaccine Information Statement (VIS)

		MOCH		) Herpes Zoster Vaccine ax <sup>®</sup> , HZV)		
		Indications for use	e iged 60 years and older rsons with or without a history of	Vaccine Administration Subcotaneous (SC) injection in the upper arm 5 8 inch, 23-25 gauge needle C an be given with all other age-appropriate vaccines, including Prunemococal Polysaccharide Vaccine (PPSV2) - Use separate sites; space at least 1 inch apart		
A Quick	•	Human Papillomavirus	. ,	and Handling is in the freezer between Ff -(50°C) to +5°F (-15°C) is in the original bocx protect from light nonstitute using the Merck diluent only minister within 30 min of reconstituting ansport is necessary, use a portable freezer unit		
9vHPV Gardasil-9® (Merck)	/ Gardasil-9® 6, 11, 16, 18, 31, 33, variate at a second contract of the second contract of		Approved for Ages Females: 9-26 years Males: 9-21 years; 22-26 years if high risk (see "Indications for Use")	neomycin		
Indications for Use and Schedule Routinely administer to males & females aged 11-12 years Vaccination series may start at age 9 years Begin HPV vaccine at age 9 years for children with any histoy of sexual abuse or assault Cath-up: females aged 13-26 years & males aged 13-21 years Vaccinate males aged 22-26 years within a high risk group Immunocompromised due to infection (including HIV), disease or medication Mern who have sex with men (including HIV), disease or medication Mern who have sex with men (including HIV), disease or medication On Mern who have sex with men (including HIV), disease or medication On sider vaccination for all other males aged 22-26 years Vaccine Administration Only administre as an Intramuscular (IM) injection in the delted of the arm (preferred) or anterolateral thigh I hot administred IM, dose must be repeated I-1.5 inch needle: 22-26 years Use professional judgment when selecting needle length Can be given simultaneously with other vaccines		n with any ad 13-21 isk group ing HIV), who 26 years in in the h d d segment in the h d d segment in the h d d segment ing HIV, should by the dist should by the dist	consistion prior to 15% bithday to fHPV vaccine separated by 6-12 coination on or after 15% bithday of HPV vaccine (0, 1-2, 6 month ei Additional Vaccine (0, 1-2, 6 month) ei Additional Vaccine (0, 1-2, 6 mo	4- T-lymphocyte values ≤ 200 per mm <sup>3</sup> or (≥20 mg of predisione or equivalent ne month after discontinuation of therapy) tetricionery be considered 24 months after transplant) alors, especially the antitumor necrosis factor ion; advised 24 months after transplant) alors, especially the antitumor necrosis factor ion; advised 24 months after transplant) acyclowir, famiciovir or valacyclowir should discontinue hese medications for 14 days post-vaccination. w F hevel 3 hould gays post-vaccination. w F hevel 3 hould gays post-vaccination. w F hevel 3 hould gays later. Zaster vaccine da point on the same day as, or separ 1 repeated 28 days later. W de hevel a days later and a concine 20 days later. w do have immunity to chickonpox minister 2 does of varcella vaccine and ga zeter vaco r ages 69 varsidder 6 may be administered at the be reimbursed by health plan or Medicaid contracts. w to thave sorvicher as on gall intact. et od prime or vho have a dasses that minist lead to unter while their immunity is still intact. et od provider disoretion, 2 coster may be administered moderate doess (et., ~20 mg/day of predixence), topic roges 69 vaccine with who w to moderate		
<ul> <li>However, sexually</li> <li>ACIP recommends that</li> <li>0, 1-2, 6 months becau</li> <li>Includes those with humoral immunitys infection, malignan</li> <li>The recommendation for to children aged 9 throu</li> </ul>	on & benefit from HPV va active persons aged 9 thr immunocompromised ma se immune response to va primary or secondary imm such as B lymphocyte anti neoplasms, transplantati r an immunocompromise gh 14 years with the follo	accination may have been attenuated nunocompromising conditions that m body deficiencies, T lymphocyte con on, autoimmune disease, or immuno d person to receive the 3-dose scher	vries should be vaccinated years get 3 doses of HPV vaccine at dight reduce cell-mediated or nplete or partial defects, HIV suppressive therapy dule of HPV vaccine <b>does not</b> apply	Hoprine (C-0.3 mg/Kg(day) or 6-merceptopurine arthritis, psoriaais, and inflammatory bowel desease fon about the Michigan Ceen Introvenent Registry al health department. I immunication record card is a 2011 MMH June 4, 000 Inter (International International June 1, 2011 June 1, 2011 June 1, 2011 June 1, 2011		



### • Public vaccines (purchased by MDHHS) administered through:

- Federally Qualified Health Centers (FQHCs)
- Tribal Health Centers
- Migrant Health Centers
- Local Health Department (LHD) clinics
- Available to adults ages 19 years and older who have no insurance or who have insurance that doesn't cover any of the cost of the vaccine
- Specific eligibility criteria
- Vaccines offered:
  - Tdap, Td, MMR, HepA, HepB, and Zoster
  - Added July 2016: HPV9, PCV13, and PPSV23

## Step 4: Vaccine Referral



Even if your practice doesn't stock all or any vaccines, you still have a critical role to play in ensuring your patients are protected from serious diseases.

Routinely assess your patients' immunization needs, vaccinate with vaccines you do stock, and provide referrals for recommended vaccines you do not stock.

#### Here's why it's important:

- Each year, thousands of adults in the United States suffer illness, are hospitalized, or even die from diseases that could be prevented by vaccines.
   Addt beleve immunitation is important, but most are just not aware that they need vaccines throughout that lives to protect against diseases such as particist, hepatitis, and stringles.
- Patients rely on you to give them the best advice on how to protect their health.

If you don't tell them about the vaccines they need, your patients are unlikely to get vaccinated.

#### Here's what you can do:

 Refer your patients to other immunization providers for vaccines you don't stock.

It may not be possible to stock all vaccines in your practice. But you can still ensure that your patients are getting the vaccines they need by following up your strong recommandation with a referral. There is an expanding network of immunization providers, and it is easier then ever to find providers in your area who offer vaccination services. See Back for datas:

 Confirm that patients received recommended vaccines by following up at the next visit.

Document the vaccines your patients receive, whether you administer them or not, to make sure patients are fully immunized. Simple reminders can help your practice and your patients stay up to date.

Information Series for Healthcare Professionals www.odc.evv/vscolnes/adultistane/ands

#### U.S. vaccination rates for adults are extremely low.

- For example: • Only 14% of adults 19 years or older have received Tdap vacchation.
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 Only 41% of adults 18 years or older had received flu vaccination during the 2012–2013 flu season.

Sources: NHES 2012 (MIMWR 2014;63(5)) BRFSS 2012-2013 (www.ccb.gov/flu/ fluvacview)

For resources and tips on vaccine assessment, recommendation, administration, and documentation, visit: www.cdc.new/waction/walt



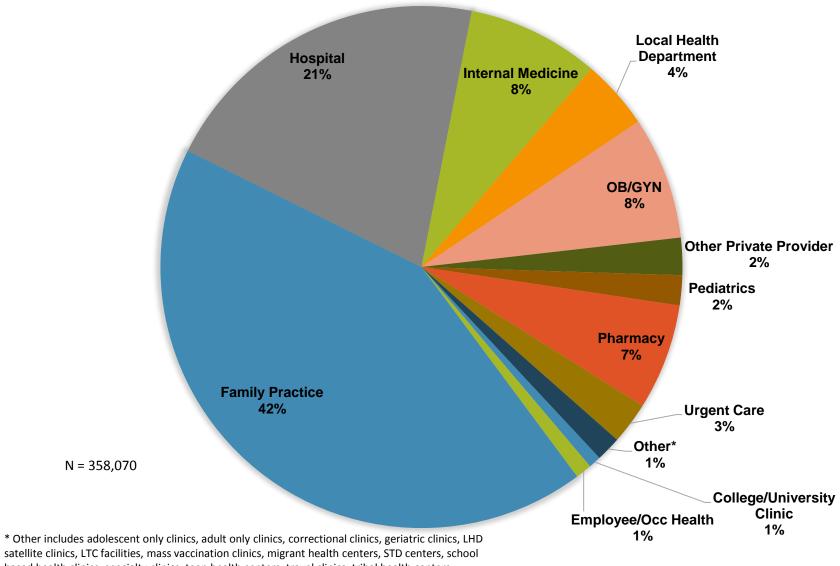
- Refer patients to providers in the area that offer vaccines not stocked at your clinical site
- Be prepared to give an informed referral for vaccines not stocked
- Follow up
- Confirm vaccines were received

## The Immunization Neighborhood: Partners in Health



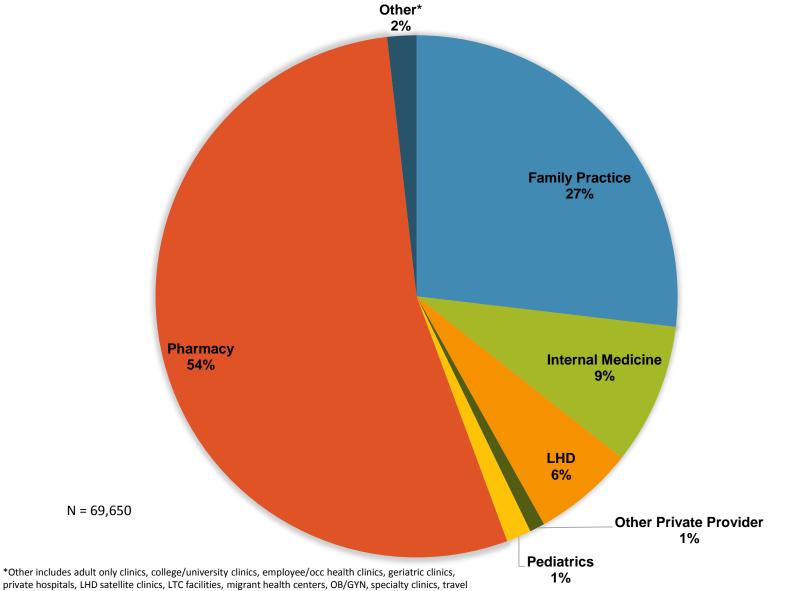
Goal: To Promote and Increase Adult Immunization Rates

#### Tdap Vaccines Administered to Persons 20 and Older and Reported to MCIR by Facility Type, 02/24/2016 to 02/24/2017



based health clinics, specialty clinics, teen health centers, travel clinics, tribal health centers

#### Zoster Vaccines Administered to Persons 20 and Older and Reported to MCIR by Facility Type, 02/24/2016 to 02/24/2017



clinics, tribal health centers, urgent cares

## **Step 5**: Vaccine Documentation

#### Vaccine Documentation

A Series on Standards for Adult Immunization Practice

Since patients can get their vaccines from many different healthcare professionals, assessing current vaccination status for patients can be challenging but it is very important.

Keep an up-to-date record of the vaccines your patients have received to make sure they have the best protection against vaccine-preventable diseases.

To ensure patients get the vaccines they need and to prevent unnecessary vaccination, you should:

- Record vaccination in patients' medical records
- Provide documentation of vaccines received to patients for their personal records
- Document vaccinations in immunization information systems (IIS)

#### IIS are confidential, community-wide, computerized databases that record vaccines administered by participating healthcare professionals. Documenting vaccines into IIS can benefit your practice by:

- Consolidating vaccination records for your patients
- Helping you assess your patients' immunization status
- Making sure your patients have completed necessary vaccine series. (for example, all three doses of hepatitis B vaccine)
- Reducing chances for unnecessary doses of vaccine or missed opportunities to provide vaccines
- Facilitating use of reminder and recall notifications to send to patients
- Making calculation of your office's immunization coverage rates easier

For more information on how to access IIS, contact your state coordinator. (See back for details.)

Even if you do not administer vaccines in your office, follow up with your patients to ensure they received the recommended vaccines from another immunization provider.

Information Series for Healthcare Professionals www.cdc.gwphscd.neg/adultistandards

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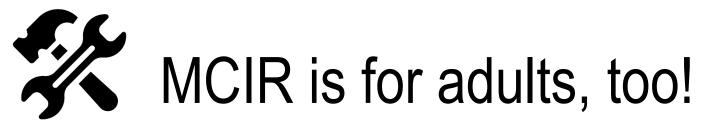
Sources: NHIS 2012 (MMWR 2014;63(5)) BRESS 2012-2013 (www.ock.gov/flu/ fluxexview)

For resources and tips on vaccine assessment, recommendation, administration, and referral, visit: www.cdc.gov/vsccines/adultatan.derds



 Document all administered & historical vaccine doses into the **MCIR** 

 Help your office, patients, and patients' other providers know which vaccines your patients have received



- Expanded to include adults in 2006
  - Strongly recommend reporting for adult vaccinations
  - Some private health plans and Medicaid require documentation of adult vaccines in MCIR
- Over 7.1 million adults have a MCIR record\*
  - Over 60 million individual vaccines have been recorded in MCIR for adult patients<sup>\*</sup>
  - Over 1,400 large chain, small chain and independent pharmacies reported over 725,000 vaccinations to MCIR from July 1, 2015 through June 30, 2016



Michigan Care Improvement Registry www.mcir.org

## County Coverage Levels in Michigan

- Child, adolescent, and adult immunization data from the MCIR
- Comparison of county, state, and national coverage
- Updated quarterly
- www.michigan.gov/immunize
  - Click on "local health departments" and "county immunization report card"
  - Click on map for desired county data

Osceola						Data as of: Ma	rch 31, 2017	
Population						Michigan is rank	ed 44th for 431	13314
201	5 Census	MCIR	Diff.	*		coverage (	2015 NIS data)	
Total	23,058	27,114	-4,056	-17		Your County In	mmunization	Rank
Adults (20yrs+)	17,243	20,449	-3,206	-18		n	= 84	
Children (0-19yrs)	5,815	6,665	-850	-14	43133142 Coverage:			9
						-35mos)		
Immunization Sites			1323213 Coverage:			28		
			Count	(%)	(13-17 Years)			
Active MCIR Immunization Sites			11					37
Reported in the last 6 months			8	72	(Kindergarten, 7th Grade & Other)			
Active Vaccines for Children (VFC) Sites			4					30
	Reported in the last 6 months			100	(6 months through 8 yrs, up-to-date)			
<b>Reg. Reporting Flu Sent</b>	inels (% of	Total Sites)	2	66				
How do your Immuniza	tion Measu	ures Rank ar	mong Mic	higan's 83 Cou	unties + Det	roit (n=84)		
Measure		Osceola	%	Central MI	MI Avg	US Average	Your County	HP 20
		(MCIR)	Diff.*	(MCIR)	(MCIR)	2015 NIS	Rank	Goa
19 through 35 months		%		%	%	%	No.	
Birth Dose Hep B coverage		84.1	0.5	84.6	79.3	72.4	19	859
4313314 coverage1		78.5	1.4	76.7	75.0	72.2	23	809
	43133142 coveraget		-0.7	59.6	54.9	-	9	-
2+ Hep A		64.7	-0.8	60.9	56.6	59.6	10	859
4+ DTaP		81.4	1.1	79.6	78.6	84.6	27	909
4+ PCV		86.2	2.0	84.8	85.0	84.1	35	909
Rota. Complete" (8-24 months)		68.0	-1.6	69.2	71.2	-	58	-
WIC coverage (4313314)		83.5	1.5	81.5	79.1	65.7	23	-
Medicaid coverage (4313314)		83.7	0.3	78.6	75.3	-	7	-
13 through 17 years						2015 NIS Teen	4.5	
132321 coverage <sup>‡</sup>		84.9	-0.6	81.6	75.5	-	13	-
1323213 coverage‡		42.1	8.1	37.9	35.2	86.4	28	
1+ Tdap		87.6	-0.6	84.9 84.3	79.8	81.3	14	80%*
1+ MenACWY		86.6 45.3	7.3	41.8	39.8	41.9	39	80%
HPV Complete (Females)		45.3	9.3	41.8	39.8	28.1	23	
HPV Complete (Males)		50.9				20.1		-
	MenACWY Complete <sup>**</sup> (17 yrs)		2.3	41.1	44.9	-	25	-
Adults (Census Denomi	nators)					2015 NHIS		
1+ Tdap (19-64yrs)		66.8	2.3	38.9	45.0	21.5	3	-
Pneumo Complete (66+ yrs)		13.6		5.5	5.6	-	5	-
1+ Zoster (60+ yrs)		37.1	0.9	27.8	24.2	27.9	5	309
2016-17 MidSeason Flu		Osceola	26	Central MI	MI Avg	US Flu Avg	Rank	HP20
Flu Complete" (6mo-8)		22.3	-3.6	20.5	23.2	59.3	30	709
1+ Flu (6mos through 17yrs)		23.6		20.4	23.6	59.3	3	709
1+ Flu (18yrs+) School/CC Immunizatio	o Rocordo	32.7 Osceola	-1.6		MI Avg	41.7 Osceola	3 Osceola	Ran
School Completion (Feb		93.4	-2.1	Central MI 92.8	94.0	Osceola	Osceola	47
Percent Waived (K+7+			-2.1	2.7	3.2	Kindgtn : 2.6	7 grd : 2.9	37
Child Care Completion (Oct '16)		3.0	-2.9	88.7	87.6	Kinugur . 2.0	, Kiu. 2.9	57
Percent Waived		0.9	0.4	1.1	2.4			16
* % difference in the county since	the last record					_	inorts.	10
1 4313314(2): 4 DTaP, 3 Polio, 1 M					a series and CL	A services and dat n	per d	
++Complete = no additional dose								
\$ 132321(3): 1 Tdap, 3 Polio, 2 M			r. (2 or 3 HPL	doses-Males & Feo	tales)	1		
** The adolescent Healthy People								

## Working Toward a Better MCIR for Adults

### **Provider Side**

- Enter adult immunization data in a timely manner
  - Direct, transfer, HL7 (2-way messaging)
- Review every adult's MCIR record at each encounter
- Update system to comply to HL7 specifications

### **MDHHS Side**

- Enhance vaccine forecasting for adult vaccines
  - February 2017: MCIR has an assessment release for Pneumococcal for adults 65 years of age and older
- Provide staff training on use of MCIR
- Move toward 2-way HL7 interface

### Call to Action All adult providers

## The Standards (Booster Shot)



Make immunizations a standard of adult care at your institution to ensure ALL of your adults, staff, and communities are fully protected!

Build those critical relationships with your adults and ensure their preventive needs are discussed!

# **CALL TO ACTION**: Implement the Standards for Adult Immunization Practice Today!

- Turn missed opportunities for vaccination into vaccination successes:
  - Routinely assess adult immunization status at every visit for every client
  - Implement office protocols and policies to enhance vaccination, like standing orders and vaccine assessment questionnaires
- Be a good neighbor in the immunization community:
  - Document all vaccines administered in MCIR
  - Know your referral partners and neighbors

For questions related to this session, contact:

Jackie Chandler, MS

Outreach Coordinator Michigan Department of Health & Human Services ChandlerJ3@michigan.gov

Thank you for your participation in today's event!