TURNING KNOWLEDGE INTO ACTION: WHERE ARE WE GOING? HOW DO WE GET THERE?

Rebecca Vanucci
Immunization Outreach Coordinator
Adult Immunization Conference
April 10, 2018

VANUCCI DISCLOSURE

I, Rebecca Vanucci, have been asked to disclose any significant relationships with commercial entities that are either providing financial support for this program or whose products or services are mentioned during my presentations.

- *I have no relationships to disclose.*

I may/will discuss the use of vaccines in a manner not approved by the U.S. Food and Drug Administration.

- *But in accordance with ACIP recommendations.*

ROADMAP

Are we there yet?

We made it!

Where are we?

How are we going to get there?

WHERE ARE WE? IMMUNIZATION RATES

Know where you are before you plan what to do next

MA ADULT VACCINATION RATES

Vaccine/Group	2014	2015	2016	US 2016
Tdap ≥18 yrs	41%	35%	39%	27%†
Zoster ≥60 yrs	39%	44%	44%	33%
HPV females 18-26 yrs (1+ doses)	64%	71%	60%	49%§
HPV females 18-26 yrs (3+ doses)	79%*	78%*	84%*	N/A
HPV males 18-26 yrs (1+ doses)	38%	38%	27%	14%§
HPV males 18-26 yrs (3+ doses)	N/A	47%*	N/A	N/A
Influenza vaccine ≥65 yrs	58%	61%	57%	70%
Pneumococcal vaccine ≥65 yrs	72%	73%	76%	67%

*Percent of those who received at least 1 dose.
†US NHIS data for Tdap is for adults ≥19 years old.
§US NHIS data for HPV (at least 1 dose) is for adults 19-26 years old.

Source: MA Data: MA BRFSS, US Data: NHIS

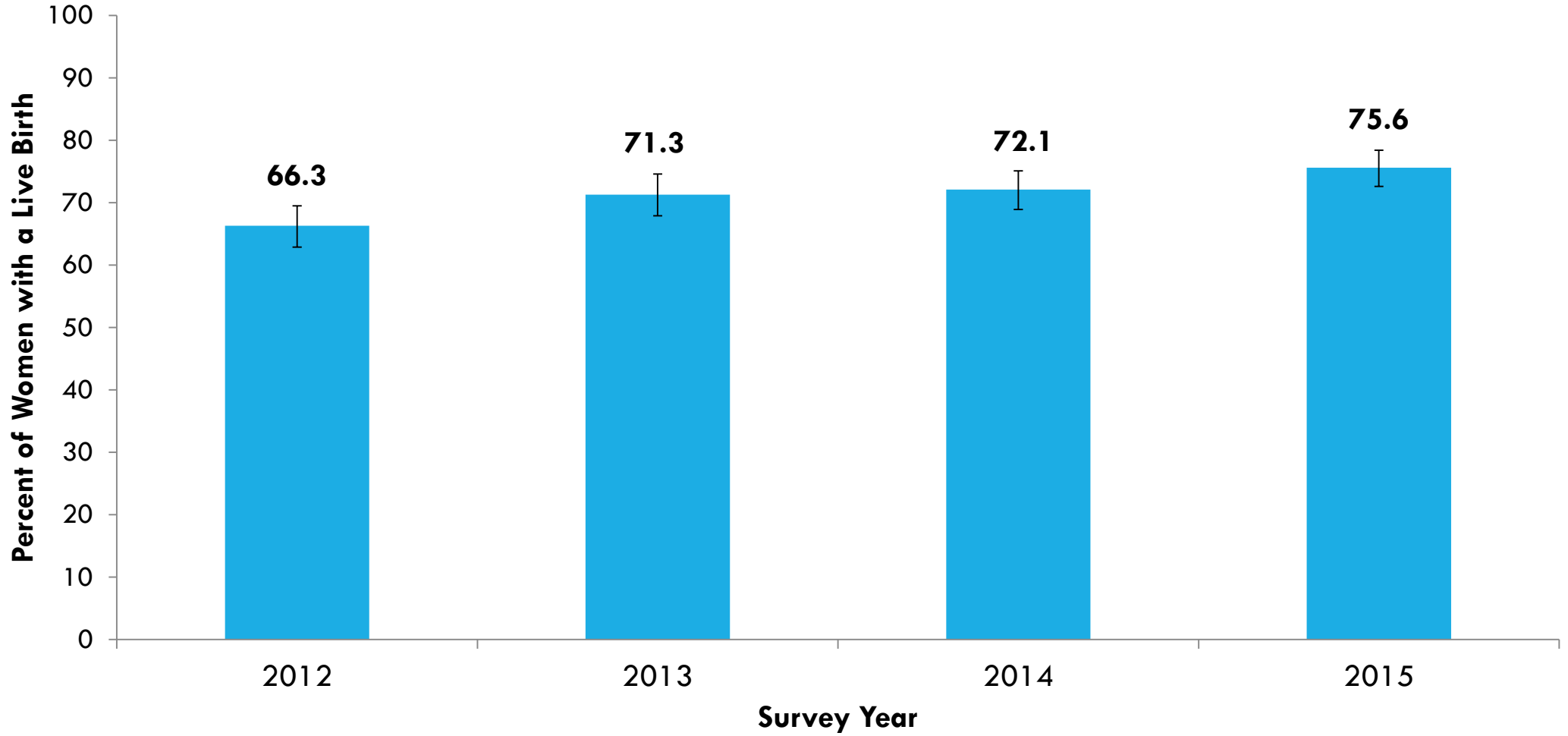
MA FLU VACCINATION RATES

	MA 2015-16	MA 2016-17	US 2016-17
Everyone 6 mos+	50%	50%	47%
Children 6 mos – 17 yrs	75%	72%	59%
○ Children 6 mos – 4 yrs	85%	82%	70%
○ Children 5 – 12 yrs	79%	71%*	60%
○ Adolescents 13 – 17 yrs	63%	65%	49%
Adults 18 +	44%	45%	43%
○ Adults 18 – 64 yrs	40%	41%	38%
○ Adults HR 18 – 64 yrs	48%	49%	46%
○ Adults 50 – 64 yrs	46%	47%	45%
○ Adults 65+	60%	59%	65%

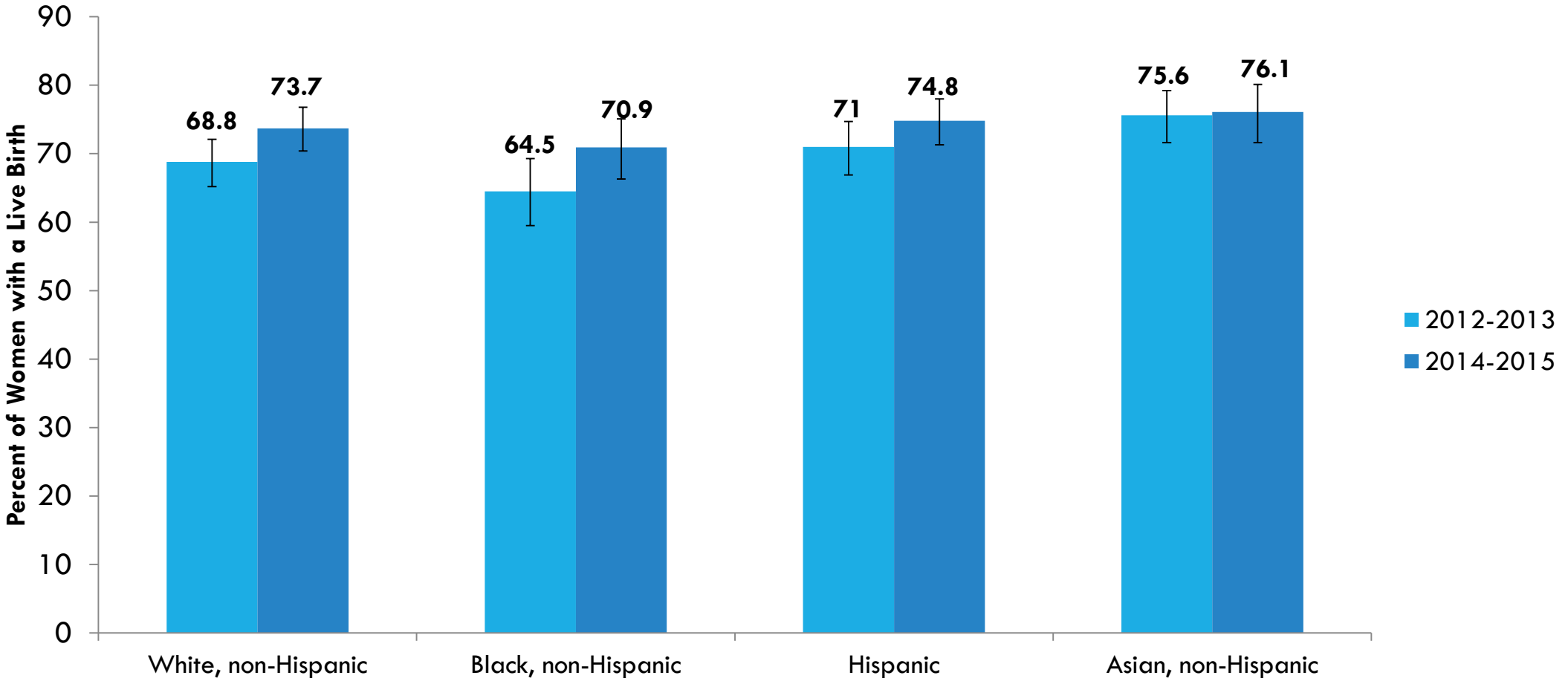
Source: 2015-16 and 2016-17 National Immunization Survey (NIS) – Flu, and BRFSS

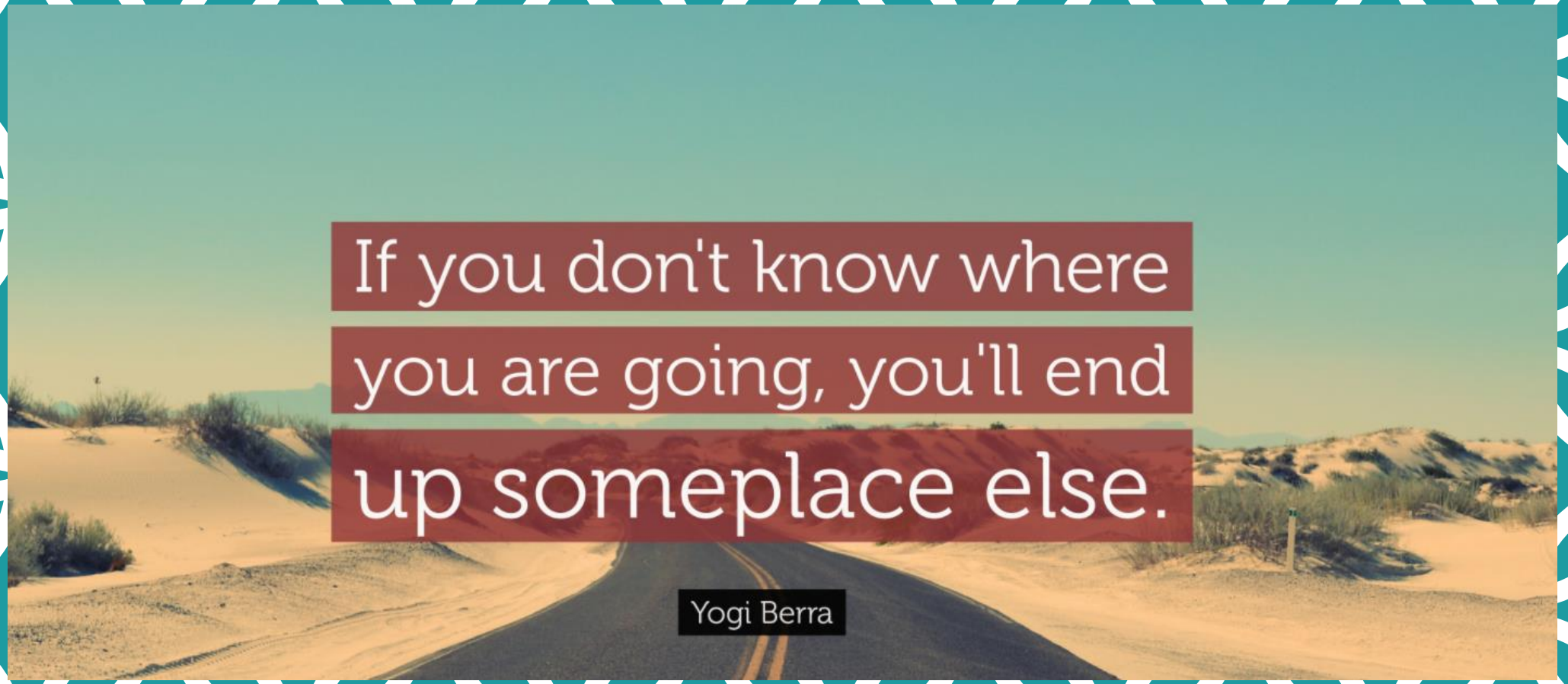
*Statistically significant

INFLUENZA VACCINATION, PRAMS, 2012-2015



INFLUENZA VACCINATION BY RACE/ HISPANIC ETHNICITY, PRAMS, 2012-2015





HOW ARE WE GOING TO GET THERE? PROJECTS AND PARTNERS

Turning Knowledge into Action

Immunization Program Goal

HEALTHY COMMUNITIES

FULLY VACCINATED TO REDUCE VPD MORBIDITY AND MORTALITY

It Takes a Village to Vaccinate!

HOW ARE WE DOING THIS?

MA ADULT IMMUNIZATION COALITION (MAIC)

MAIC is a collaborative partnership dedicated to increasing adult immunization through education, networking, and sharing innovative and best practices.

There are currently over 200 members representing:

- Local and state public health organizations
- Community health centers
- Health insurance plans
- Pharmacies
- Physicians
- Vaccine manufacturers
- Long-term-care and senior service organizations
- Consumer advocacy groups
- Hospitals
- Home health
- College health services

Next meeting!

Monday, June 4th 1:30pm at Massachusetts Medical Society

Sign up at the MMS table today or learn more at http://maic.jsi.com/

MIIS

2011

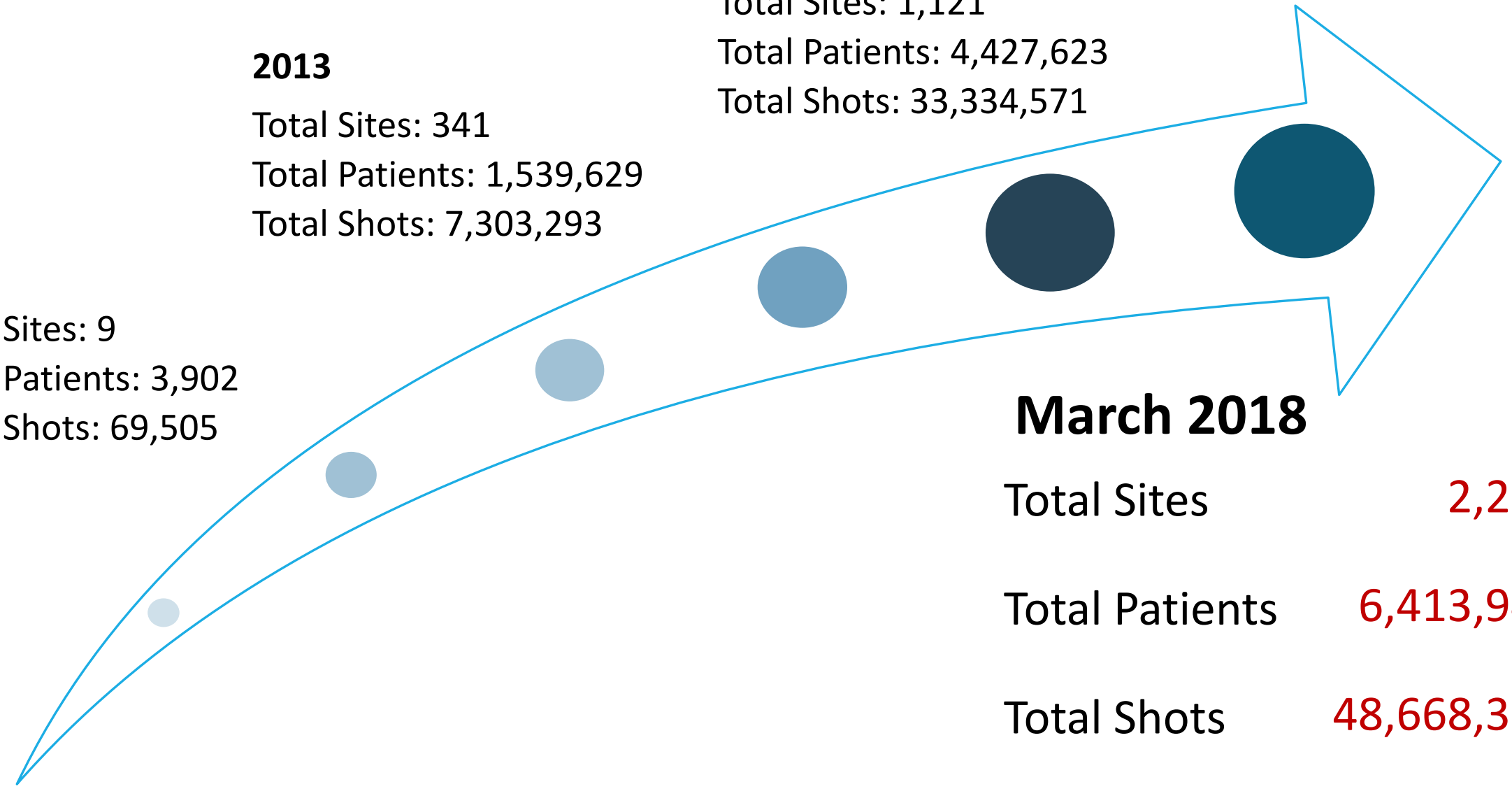
Total Sites: 9
Total Patients: 3,902
Total Shots: 69,505

2013

Total Sites: 341
Total Patients: 1,539,629
Total Shots: 7,303,293

2015

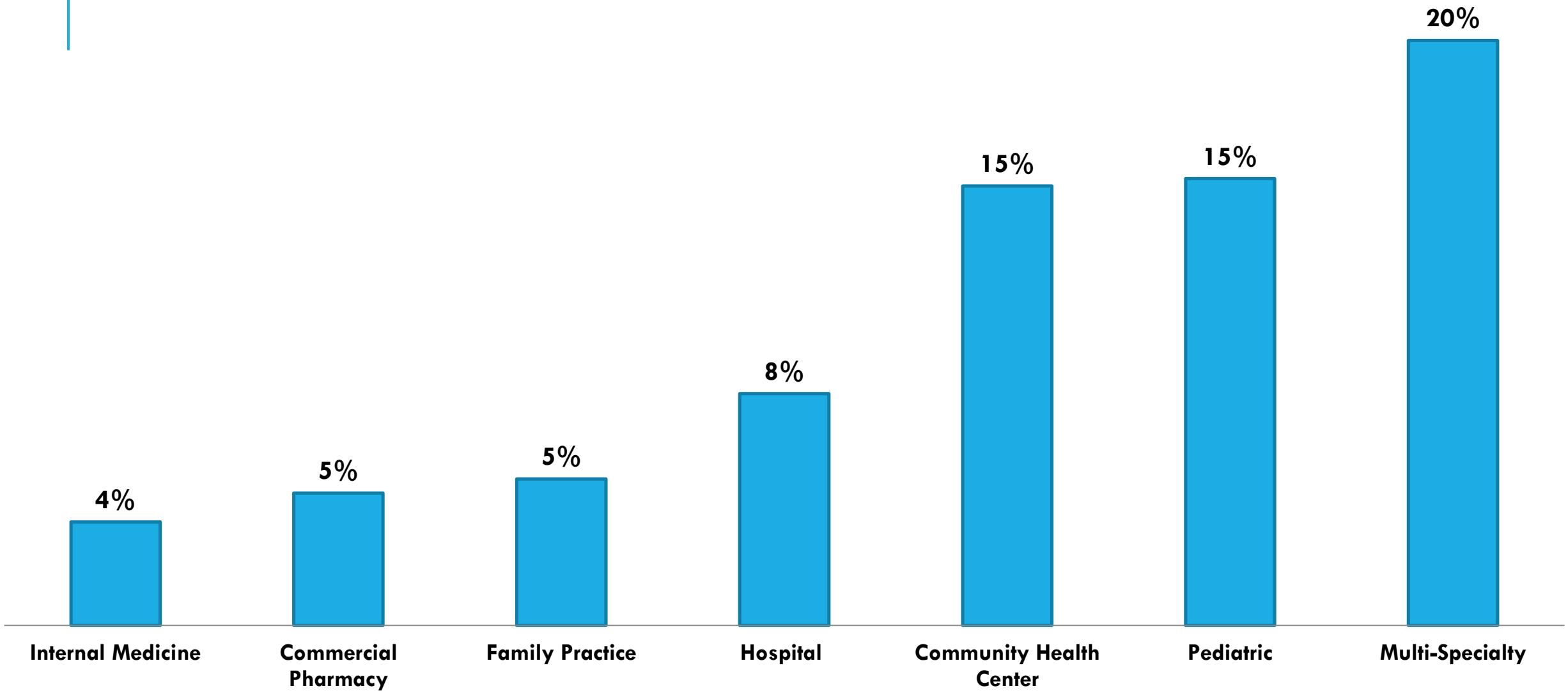
Total Sites: 1,121
Total Patients: 4,427,623
Total Shots: 33,334,571



March 2018

Total Sites	2,280
Total Patients	6,413,949
Total Shots	48,668,309

MIIS IMMUNIZATION DATA BY PROVIDER TYPE



ADULT STANDARDS

Call to action for healthcare professionals for **evidence-based** activities

- **Assess** immunization status of all patients in every clinical encounter.
- Strongly **recommend** vaccines that patients need.
- **Administer** needed vaccines or **refer** to a vaccinating provider and confirm receipt
- **Document** vaccines received by patients, including entering immunizations into immunization registries.

https://www.cdc.gov/vaccines/hcp/adults/for-practice/standards/index.html

COMMONWEALTH MEDICINE BILLING

For 10% fee, CHCF at Commonwealth Medicine electronically bills the participating plans and distributes payments to public providers

- 10 private health plans and MassHealth participate

Cities and towns can bill contracted plans for the:

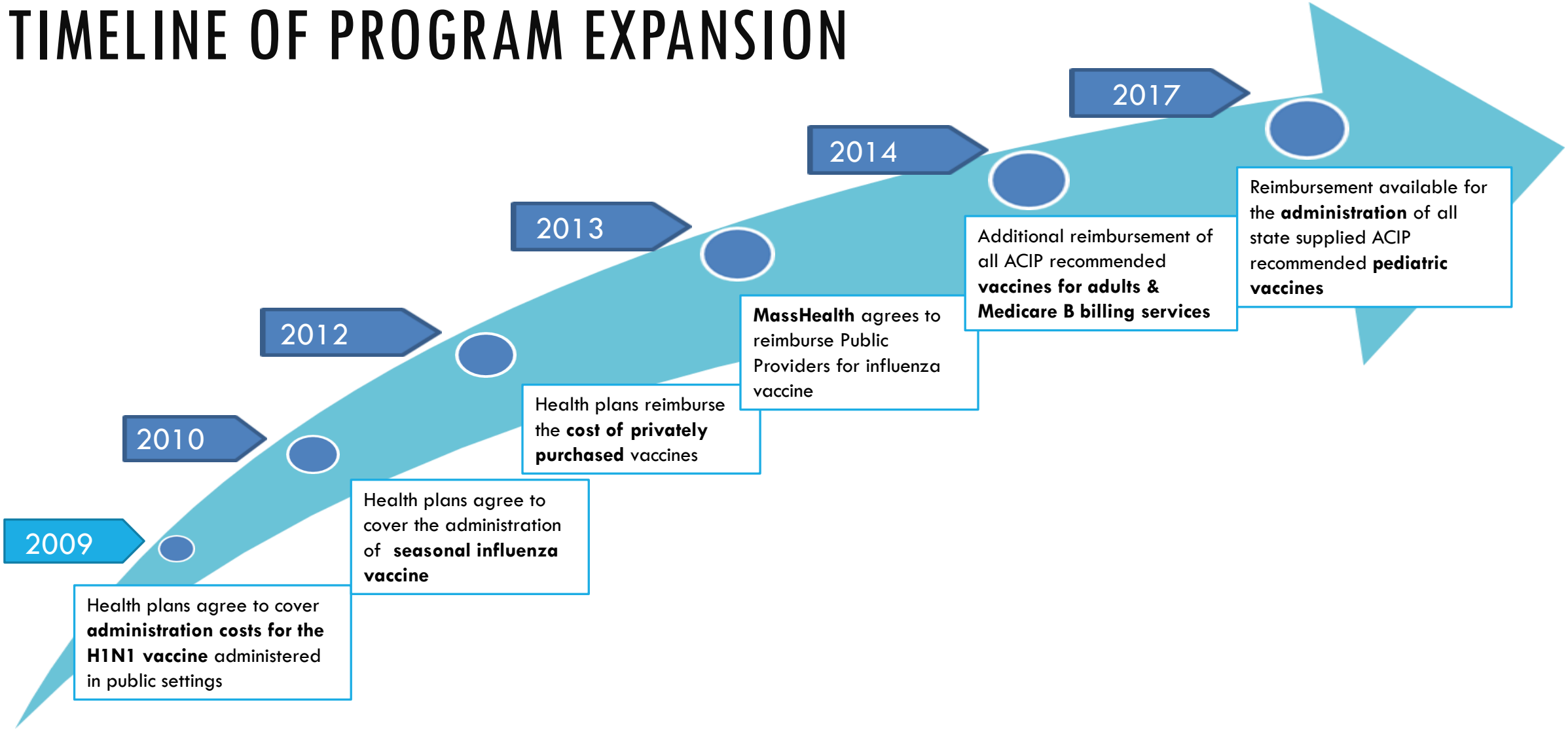
- Administration of all state-supplied vaccine to individuals ages 6 months and older
- Cost of purchasing and administering all recommended vaccines to adults for private health plans
- Cost of purchasing and administering influenza and pneumococcal vaccines to Medicare Part B
- 175 public sector providers across the state participate, representing 214 out of 351 towns in MA

> $2.5 million reimbursed to communities last flu season

University of Massachusetts Medical School
UMASS

Center for Health Care Financing
a Commonwealth Medicine center of distinction

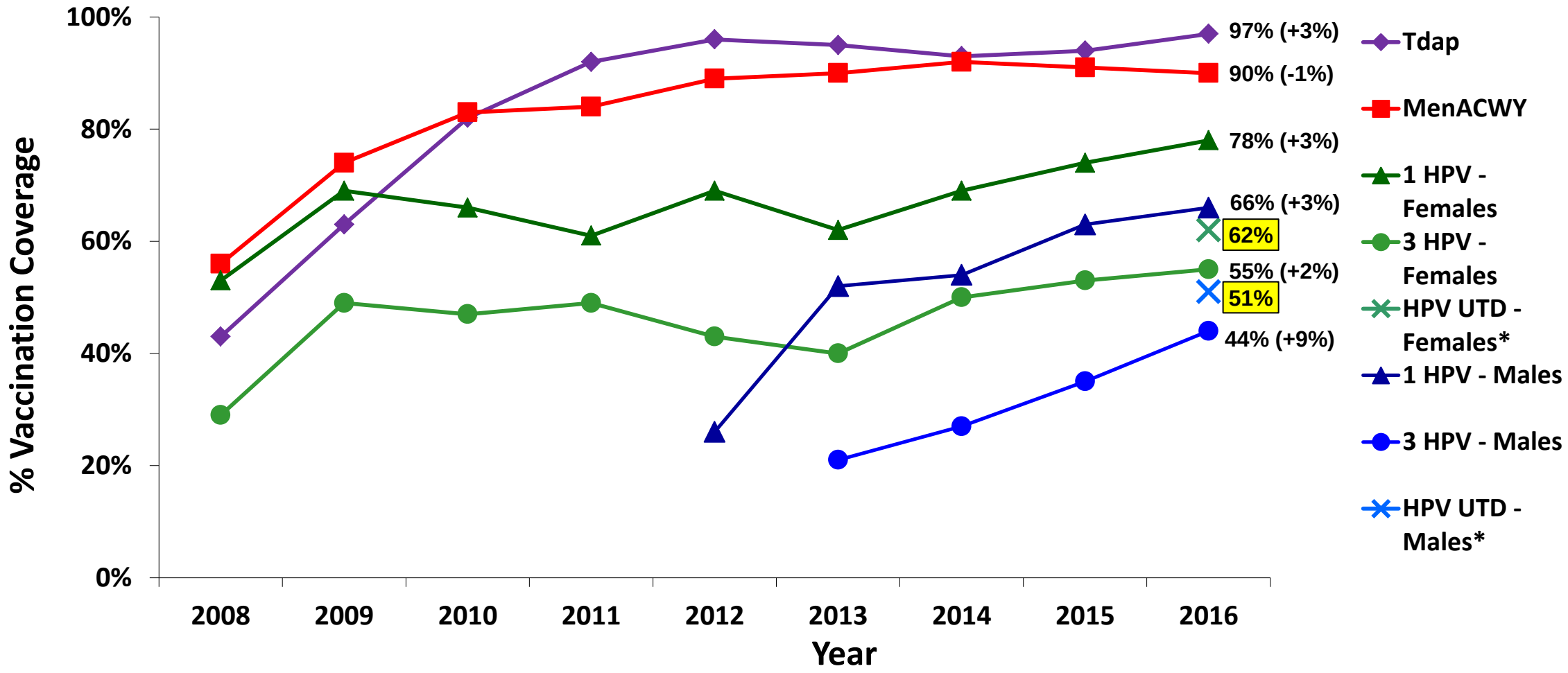
COMMONWEALTH MEDICINE: TIMELINE OF PROGRAM EXPANSION



HPV INITIATIVE

A Case Study of Using Data to Inform Projects

ESTIMATED VACCINATION COVERAGE WITH TDAP, MCV4, AND HPV AMONG ADOLESCENTS 13-17 YEARS, MA 2008 – 2016



*HPV UTD: 2 doses if the first dose given before the 15th birthday and doses were separated by five months, otherwise, 3 doses

NIS Data, CDC

ESTIMATED VACCINATION COVERAGE WITH HPV AMONG ADOLESCENTS 13-17 YEARS OF AGE, MASSACHUSETTS, NIS 2015 VS 2016

	Females		Males	
	2015	**2016**	**2015**	**2016**
1+ HPV	**74%**	**78% (+4%)**	**63%**	**66% (+3%)**
2+ HPV	**63%**	**68% (+5%)**	**51%**	**59% (+8%)**
3+ HPV	**53%**	**55% (+2%)**	**35%**	**44% (+9%)**
HPV UTD*	**N/A**	**62%**	**N/A**	**51%**

*2 doses if the first dose given before the 15th birthday and doses were separated by five months, otherwise, 3 doses

National Immunization Survey (NIS) Data, CDC

CANCERS ATTRIBUTABLE HPV PER YEAR, U.S., 2010–2014

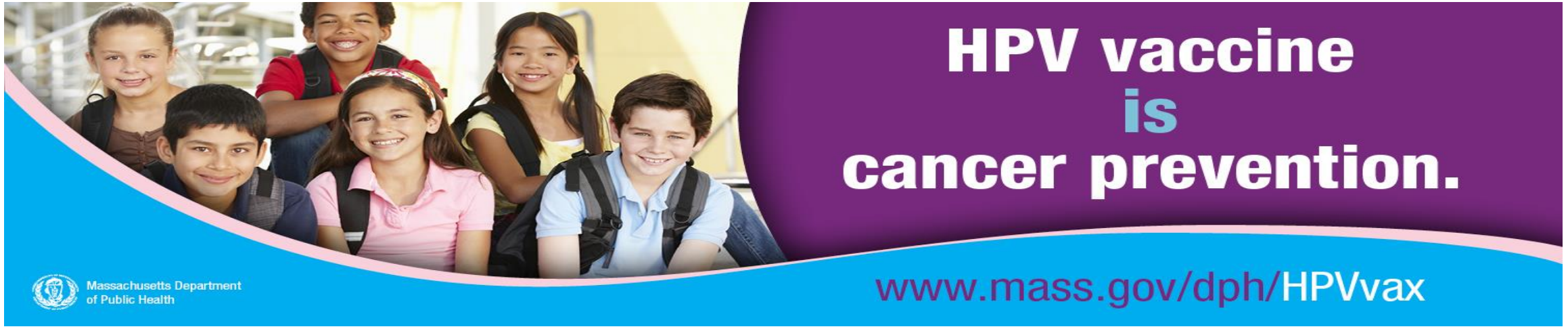
Cancer site	Percentage of HPV cancers attributable to HPV	Number of HPV cancers attributable to HPV		
		Female	Male	Both Sexes
Cervix	91%	10,600	0	10,600
Vagina	75%	600	0	600
Vulva	69%	2,600	0	2,600
Penis	63%	0	800	800
Anus*	91%	3,800	1,900	5,700
Oropharynx	70%	2,100	10,100	12,200
TOTAL		19,700	12,800	32,500

*Includes anal and rectal squamous cell carcinomas

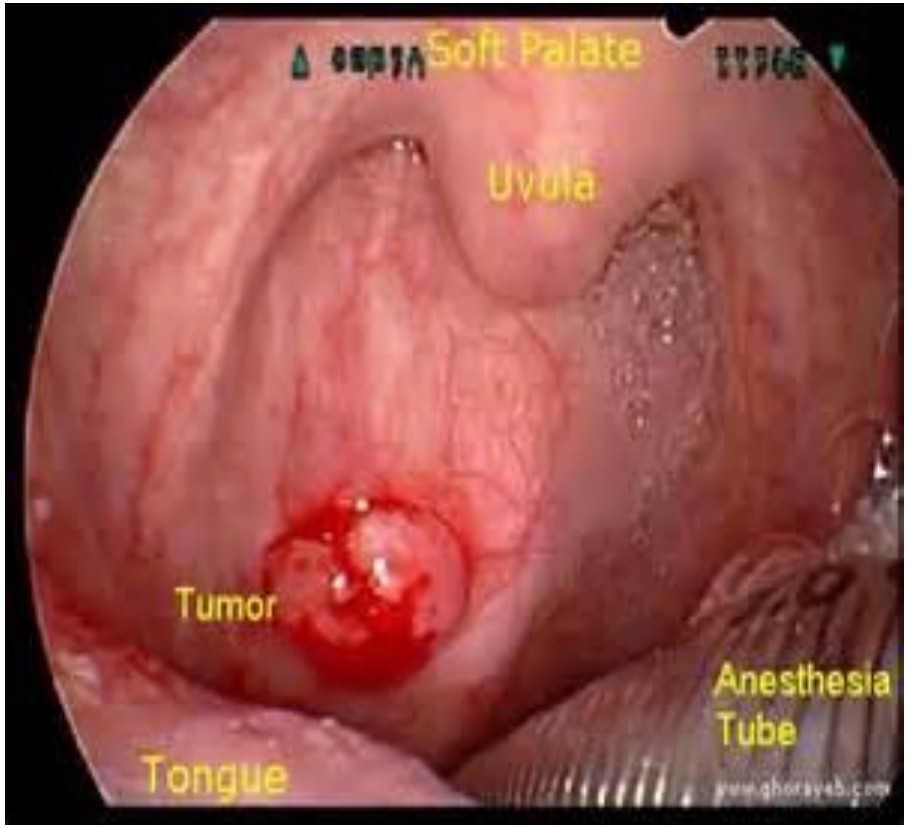
CDC, National Program of Cancer Registries and the NCI Surveillance, Epidemiology and End Results Program, https://www.cdc.gov/cancer/hpv/statistics and Saraiya M et al. J Natl Cancer Inst. 2015;107:djv086

Increase HPV vaccination rates

Decrease HPV-related cancer



HPV-RELATED OROPHARYNGEAL CANCER



http://www.ghorayeb.com/OropharyngealCarcinoma.html

12,200 cases annually, 10,100 in men

Has surpassed cervical cancer as the **most common HPV related cancer**

HPV-related cancers increased by **225%** in the past 20 years

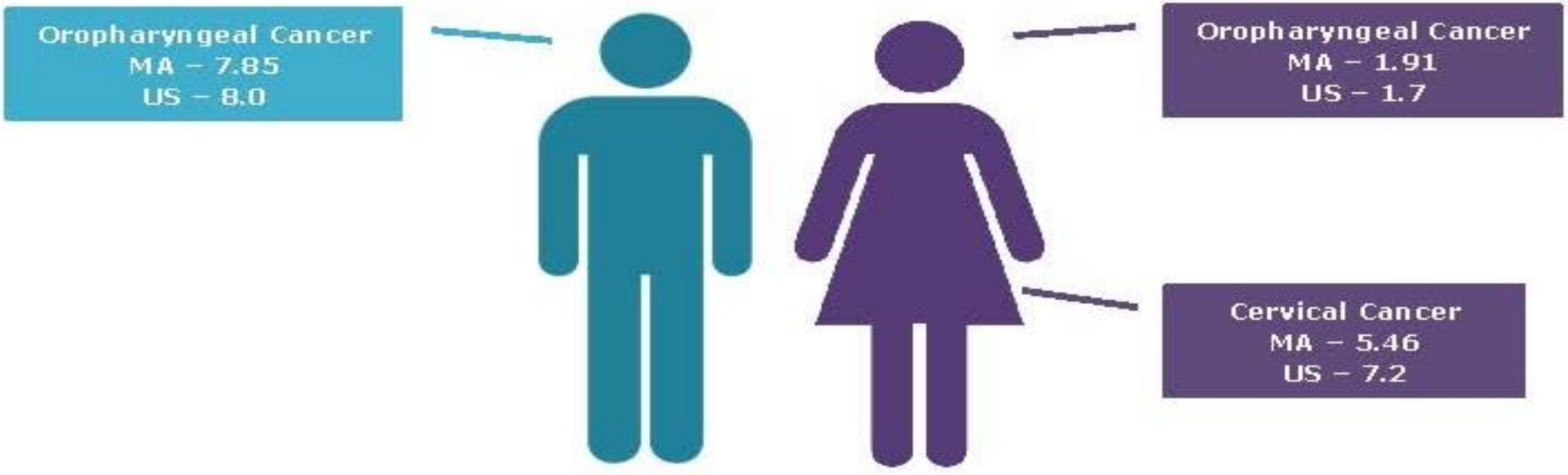
Rise in incidence and changing patient demographics due to HPV

No screening test

- No endpoint in clinical trial
- Late stage diagnosis

J Clin Oncol 29:4294-4301. © 2011 by American Society of Clinical Oncology.
CDC, National Program of Cancer Registries and the NCI Surveillance, Epidemiology and End Results Program, https://www.cdc.gov/cancer/hpv/statistics/cases.htm

MASSACHUSETTS HPV CANCER INCIDENCE COMPARED TO US HPV CANCER INCIDENCE



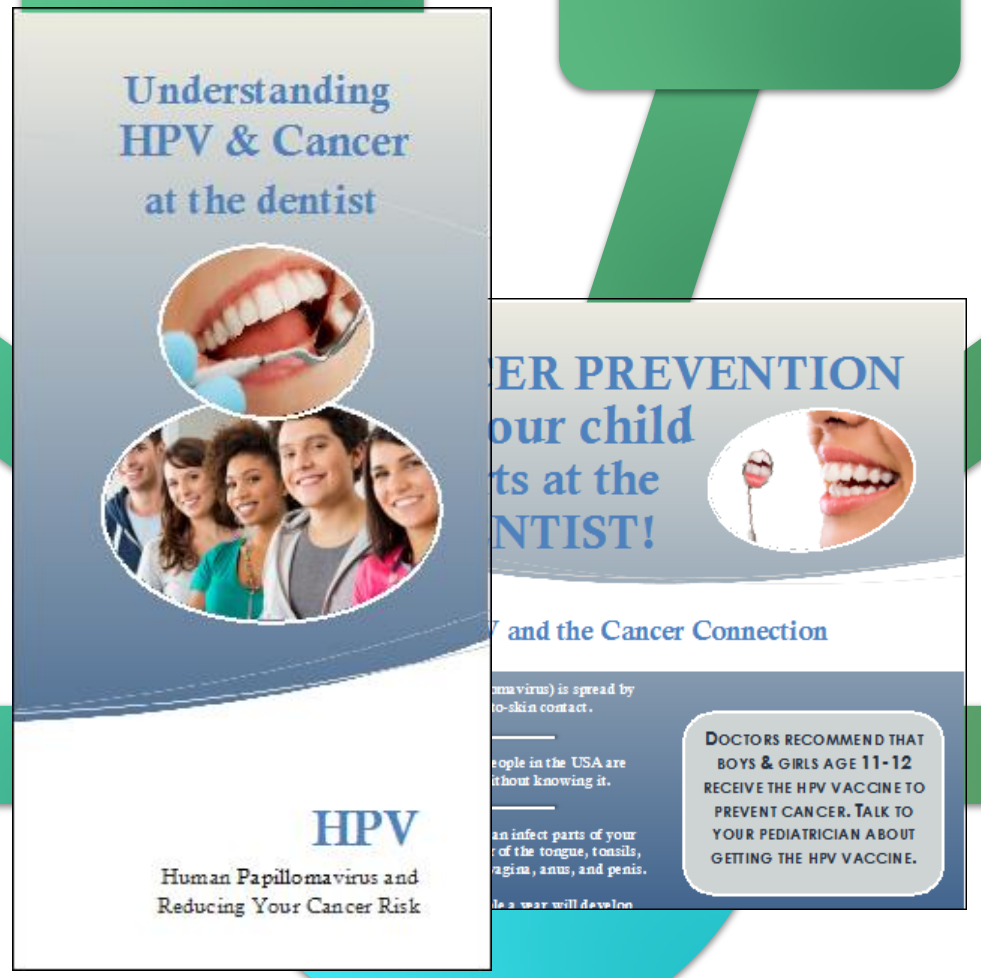
Massachusetts Rates, 2004-2014: Cook, E.E., Gershman, S.T., Kim, J.J. et al. Cancer Causes Control (2018). https://doi.org/10.1007/s10552-018-1016-1
US Rates, 2010-2014: CDC, National Program of Cancer Registries and the NCI Surveillance, Epidemiology and End Results Program, https://www.cdc.gov/cancer/hpv/statistics

Advocacy Organizations

MA Chapter of AAP

Dept. of Public Health Comp. Cancer

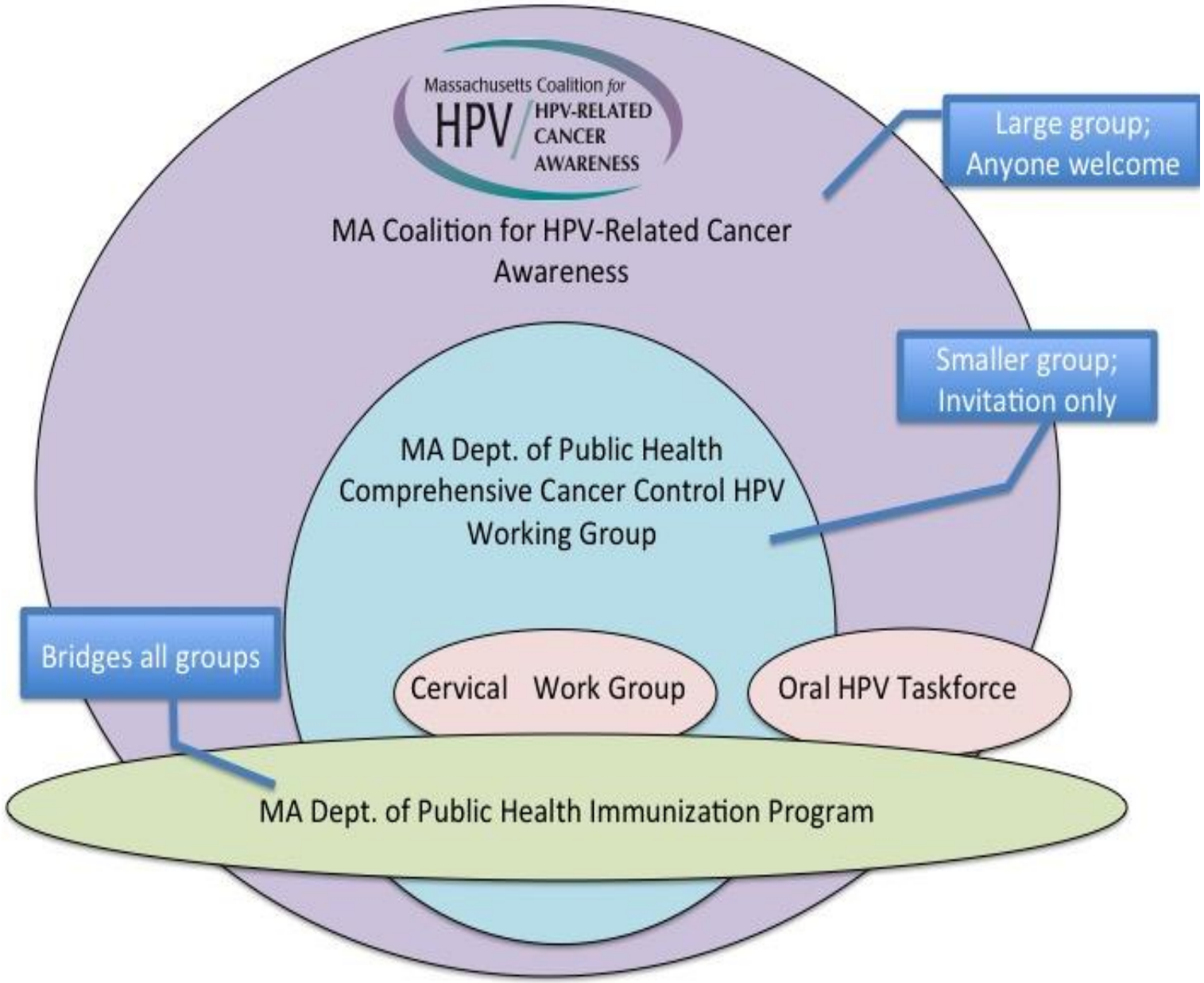
Dental Professionals



Dept. of Public Health Immunization Program

Widow/Advocate

Download free dental materials for HPV related cancer prevention education at www.teammaureen.org

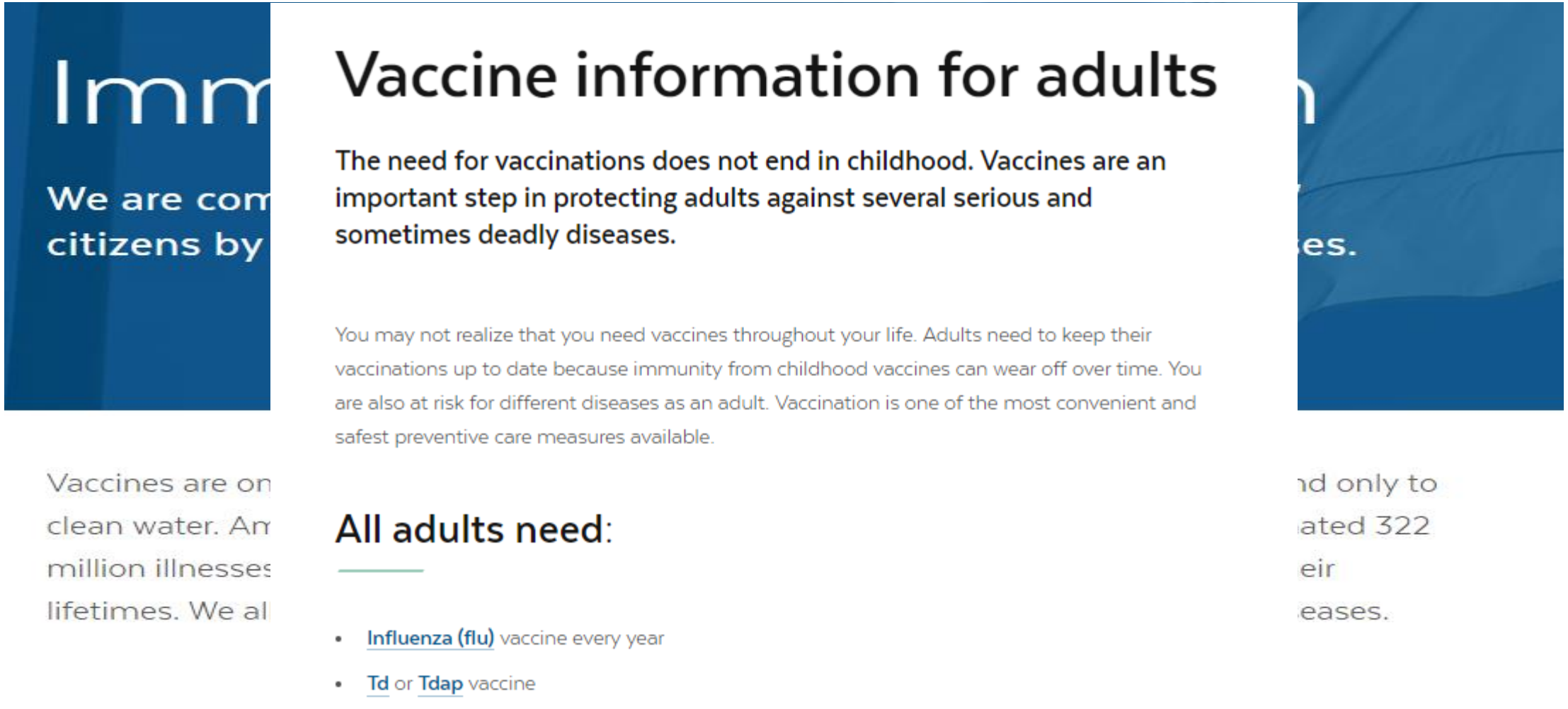


Meeting today!

After the conference in Westborough Room.
All are welcome!

RESOURCES

NEW IMMUNIZATION PROGRAM WEBSITE

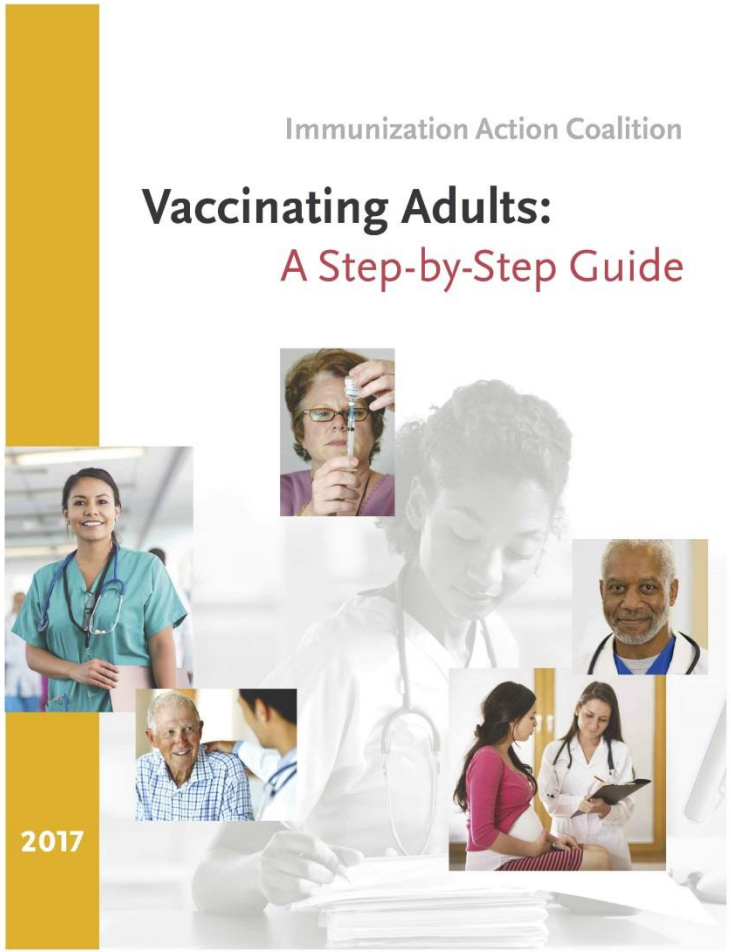


https://www.mass.gov/immunization-program

IMMUNIZATION ACTION COALITION'S NEW GUIDE

Comprehensive "How-To" guide with current information and resources

http://www.immunize.org/guide/

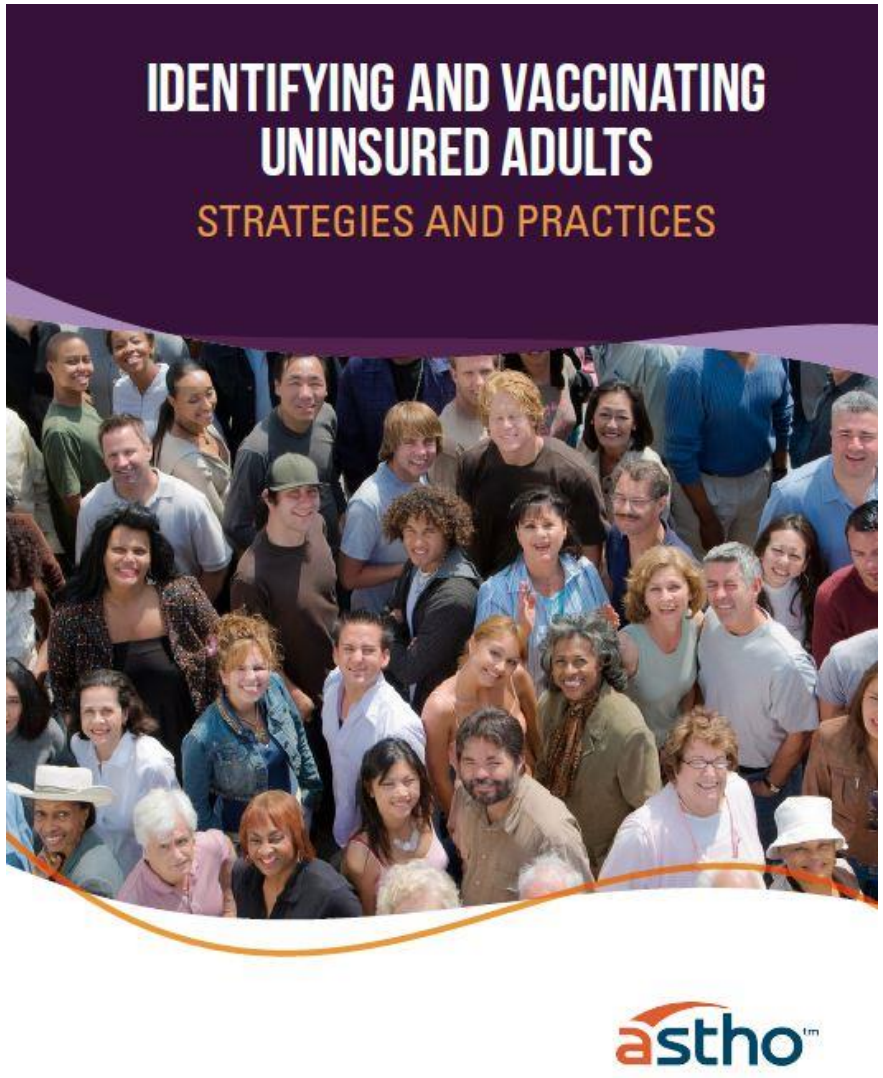


ASTHO GUIDE FOR VACCINATING UNINSURED ADULTS

Guide to assist state and local immunization programs and their partners in identifying and vaccinating uninsured and underinsured adults.

Massachusetts was featured in the guide

- Immunization Program
- Kitty Mahoney of Framingham



CDC PRENATAL TOOLKIT AND ACOG PARTNERSHIP

CDC created an online toolkit (https://www.cdc.gov/vaccines/pregnancy/hcp-toolkit/index.html) to help prenatal care providers increase the rates of maternal immunization.

1. Why Maternal Vaccines are Important
2. Implementation Resources
3. Maternal Vaccination Information

MDPH continues to collaborate with ACOG on their 3 year grant to increase immunization rates for pregnant and non-pregnant women in CA and MA.

1. Utilization of MIIS
2. Connection to Adult Vaccination Resources
3. Newsletters and Trainings

NEW HPV MATERIALS FROM NATIONAL HPV ROUNDTABLE

HTTP://HPVROUNDTABLE.ORG/ACTION-GUIDES/


YOU MADE IT
A1 NEXT EXIT

QUESTIONS?

Rebecca Vanucci

Immunization Outreach Coordinator

Rebecca.Vanucci@state.ma.us

617-983-6534