

USE OF AN IIS TO IMPROVE ADULT IMMUNIZATION RATES

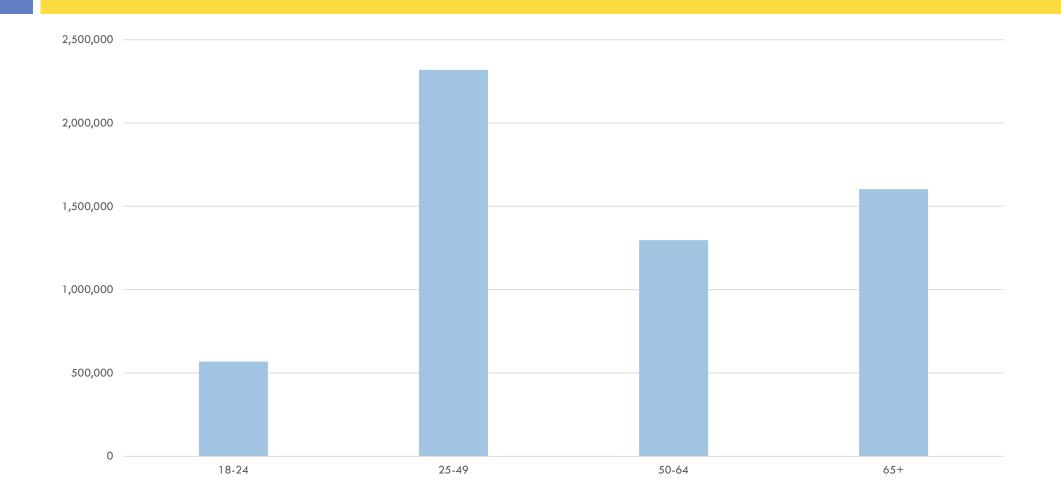
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MIIC Background

- □ MIIC started in 2002
- □ Lifespan Registry
- □ Implied consent for all ages



MIIC Adult Metrics





Adult Saturation

Age	Saturation*
18+ years	68.8%
18-59 years	62.0%
60+ years	89.2%

^{*}Saturation for adult age groups tabulates all clients with 2+ immunizations (Td, Tdap, HPV, PPSV, PCV, Zoster, or influenza) given in the past 10 years in MIIC.



Adult Provider Metrics

2,077 providers who seen adults actively using MIC

Provider Type	Number Actively using MIIC
Primary Care	854
OB/GYN	234
Pharmacies	311
Healthcare Associated Occupational Health	31
Specialty Clinic	44



MIIC Clinical Decision Support for Immunization (CDSi)

- Maintained by internal workgroup that includes Adult vaccine coordinator, clinical consultant, MIIC regional coordinator and MIIC staff
- Includes all ACIP recommended adult immunizations
 - HPV, Td, Tdap, influenza, Zoster, PPSV, and PCV



CDSi Example

Vaccine Gro	up Date Administer	ed Series	Vaccine [Trade Name]		Dose	Owned?	Hist?	Edit
НерА	06/01/2014	1 of 3	HepA-HepB Adult [Twinrix 6	0]			Yes	1/
	07/01/2014	2 of 3	HepA-HepB Adult [Twinrix 6	0]			Yes	1/
	12/15/2014	3 of 3	HepA-HepB Adult [Twinrix 6	0]			Yes	1/
НерВ	06/01/2014	1 of 3	HepA-HepB Adult [Twinrix @	0]			Yes	1/
	07/01/2014	2 of 3	HepA-HepB Adult [Twinrix 6	0]			Yes	1/
	12/15/2014	3 of 3	HepA-HepB Adult [Twinrix @	0]			Yes	1/1
HPV	03/06/2007	1 of 3	HPV quadrivalent [Gardasil 4	®]		No	Yes	1/
	02/25/2015	2 of 3	HPV quadrivalent [Gardasil 4	®]			Yes	1/2
Influenza	10/16/2014	Booster	FLU p-free >= 3 yrs [Fluzone p-free	3+ yrs ®]			Yes	1/
Meninge-conj	03/06/2007	1 of 2	MCV4-D [Menactra ®]			No	Yes	1/1
MMR	10/01/2003	1 of 2	MMR [MMR II ®]			No	Yes	1/
	03/22/2004	2 of 2	MMR [MMR II ®]			<u>No</u>	Yes	1/1
Td	10/01/2003	1 of 4	Td [Td 7+ yrs ®]	Td [Td 7+ yrs ®]				1/
	03/22/2004	2 of 4	Td [Decavac 7+ yrs ®]			No	Yes	1/1
	11/26/2004	3 of 4	Td [Decavac 7+ yrs ®]	Td [Decavac 7+ yrs ®]				1/
	03/28/2012	4 of 4	Tdap [Adacel 11+ yrs ®]				Yes	1/1
Varicella	04/22/2004	1 of 2	Varicella [Varivax ®]			<u>No</u>	Yes	1/
	11/26/2004	2 of 2	Varicella [Varivax ®]			<u>No</u>	Yes	1/2
Current Age	e: 25 years, 2 months	s, 27 days						_
Vaccines F	Recommended by Se	elected Trac	cking Schedule			Add S	Selecte	d
Select \	Vaccine Group	Earliest Date	Recommended Date	Overdu	e Date	Late	est Da	te
	HepA			mplete				
	HepB HDV	05/20/2015	05/20/2015	omplete 06/25/	2015			
	HPV							
	Influenza Meninge coni	10/16/2014	07/01/2015	10/16/				
	Meninge-conj MMR			Maximum Age Exceeded Complete				
	<u>Td</u>	03/28/2017	03/28/2022	03/28/	2023			
	Varicella		Co	mplete				



CDSi Example

History			A	dd Immuni	zation Edit Client Re	ports	Print	Prin	t Con	fidentia	li	
Vaccine G	Froup	Date Administered		Series	Vaccine [Trade Name	Vaccine [Trade Name]			ed?	Hist?	Edit	
НерВ		07/05	2006	1 of 3	HepB-Adult			No		Yes	1/	
		01/16	2007	2 of 3	HepB-Adult			No		Yes	1/	
Pneumo-co	onj	10/15	2013	1 of 1	Pneumo-PCV13 [Prevnar 1	3®]				Yes	1/	
Td		09/05/2007		Booster	Tdap [Tdap ®]					Yes	1/	
Current	Current Age: 65 years, 2 months, 8 days											
Vaccine	s Recon	nmended by	Selected	Trackin	g Schedule				Add	Selecte	ed	
Select	Vaccir	ne Group	Earliest	Date	Recommended Date	Recommended Date Ove		ate	La	test Da	ate	
V	<u>H</u>	lepB	03/13/2	007	03/13/2007		05/16/2007					
V	<u>In fl</u>	uenza	01/01/1	959	07/01/2014	07/01/2014 01/						
	Pneu	mo-conj			С	omple	te					
	<u>Pneu</u>	<u>umo-poly</u> 07/01/20		015	07/01/2015 07		7/01/201	15				
		<u>Td</u> 09/05/20		012	09/05/2017	9/05/201	18					
V	Zoste	r/shingles	01/01/2	000	01/01/2010	0	1/01/201	10				



Adult Provider Outreach Activities

- Pharmacies
- □ OB/GYN
- Sexual Health Providers
- Healthcare Provider Occupational Health



Pharmacies

- Adult PPHF Grant/Sentinel Site Grant
- □ Pharmacy and MIIC Video
- Board of Pharmacy partnership
 - Legislative changes
- Schools of Pharmacy



OB/GYN

- Minnesota Advisory committee
- Sentinel Site PPHF planned outreach
 - Utilize existing advisory committee



Sexual Health Providers

- □ New provider group for us
- Sentinel Site PPHF planned outreach
 - Needs assessment
 - Educational materials



HealthCare Provider Occupational Health

- □ FluSafe
 - Tracks HCW influenza vaccination rates
 - Lessons learned
- Sentinel Site PPHF planned outreach
 - Linking occupational health EHR to MIIC



Current MIIC Functionality

- □ Adult Assessment Report
- □ Client Follow-Up



Adult Assessment Report

- Part of Adult PPHF grant
- □ Includes clients 18+ years
- Way for providers who see adult patients to have the same tracking and
 QI tools available to them as they do for pediatric and adolescent patients
- Metrics
 - HPV (18-26)
 - Tdap (all ages)
 - Td in previous 10 years (all ages)
 - Zoster (60+)
 - PPSV (65+)
 - PCV (65+)



Adult Immunization Summary

Assessment Test Report Type: Adult Standard

Birth Date Range: 02/10/1897 - 02/11/1997

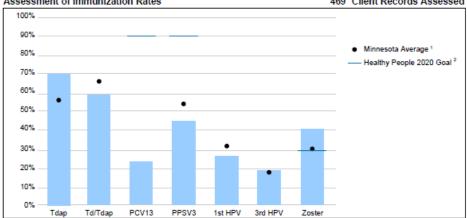
Report Run Date: 02/10/2015 Assessment Date: 02/10/2015

Report Generated by: MIIC

Assessment of Immunization Rates

469 Client Records Assessed

MNVFC Pin: 000000



One Tdap is recommended for everyone. Doses given as young as 7 years count toward the one-time Tdap dose.

Tdap	70%	328	received Tdap age 7 or later	٦
ιααρ	10/0	469	clients assessed	

One tetanus-containing vaccine is recommended every 10 years for all ages.

Td/Tdap	60%	281	received tetanus vaccine in the last 10 years 3	
	00%	469	clients assessed	١

PCV13 is recommended at age 65 years. Some high risk adults may recieve PCV13 at a younger age.

oviois resommended at age so years, some might risk addits may reserve to a to at a younger age.								
PCV13	25%	37	received at least 1 dose PCV13 age 65 or later					
	25%	150	clients age 65+ years					
(Pneumococcal)								

PP\$V23 is recommended at age 65 years. Some high risk adults may receive PP\$V23 at a younger age.

PPSV23 45% 67 received at least 1 dose PPSV23 age 65 or later clients age 65+ years	PPSV23	45%	67 150	received at least 1 dose PPSV23 age 65 or later clients age 65+ years	
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HPV is recommended for all females through age 26 years and all males through age 21 years.

The recommended for an emales anough age 20 years and an indies arough age 21 years.							
	First	26%	27	received at least 1 dose HPV age 9 or later			
HPV	Dose	20 /0	105	clients age 18 through 26 years			
HPV	Third	19%	20	received all 3 doses HPV			
	Dose	19 /0	105	clients age 18 through 26 years			

Zoster is recommended at age 60 years.

Zoster 40%	70 175	received Zoster age 60 or later clients age 60+ years
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¹ Minnesota rate is based on MIIC records of adults 18 years or older as of October 2014.



² Healthy People 2020 is a set of science-based public health goals established by the U.S. Department of Health and Human Services. Not every vaccine has a Healthy People 2020 goal.

⁹ Includes all clients who have received a tetanus-containing vaccine (Td or Tdap).

Client Follow Up

- □ Tool to determine populations to follow up on for specific vaccines
- □ Added PPSV, Zoster, Td



CFU

Create Client Follow-Up Age Range Months Beginning Age Age as of Date: Years Through Ending Age O3/30/2015 Follow-Up Type Overdue Recommended Overdue or Recommended All Clients Regardless of Vaccination Status Select Vaccine Grouping(s) and/or Individual Vaccines: Vaccine Groupings:								
Child			Dose 1	Dose 2	Dose 3	Dose 4	Dose 5	Dose 6
Adolescent					DOB: 04/25/1994	Current A	Age: 20 years 11 m	onths 5 days
Individual Vaccines:	17532 DUNKI	RK ST NE HA	_ Chart # : M LAKE MN :	55309	Gender: F	Phone:		☐ Reminder Sent ☐ Remove Client
☐ DTaP ☐ Pneumo-conj		DTP/aP	06/23/1994	08/25/1994	10/27/1994	04/27/1995	03/04/1999	
☐ HepA ☐ Pneumo-poly		НерА	01/07/2003	08/08/2003				
☐ HepB ☐ Polio		HepB	04/26/1994	05/26/1994	10/27/1994			
☐ Hib ☐ Rotavirus	NEEDO	Hib	06/23/1994	08/25/1994	04/27/1995			
☐ HPV ☐ Tdap Only	NEEDS NEEDS	HPV Influenza						
☐ Influenza ☐ Tetanus-containing vi	NEEDS NEEDS	Meninge-conj						
	NEEDO	MMR	04/27/1995	03/04/1999				
Select All Deselect All		Pneumo-conj						
Doodoot/ iii		Pneumo-poly						
Follow-Up Name: (optional)		Polio	06/23/1994	08/25/1994	10/27/1994	03/04/1999		
Create Follow-Up Cancel		Rotavirus						
		Td/Tdap	09/13/2005					
	NEEDO	Tetanus						
	NEEDS	Varicella Zoster						

Planned MIIC Functionality

- Healthcare Worker Assessment Report
 - Based on recommendations from MN QIO Healthcare worker report
 - Hepatitis B, Influenza, Tdap, MMR, Varicella



Questions?

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