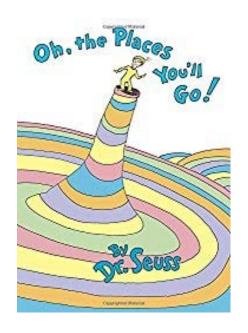
Pnowing Your Pneumo Vaccination Info and Other Things You Can Do with an IIS





So I Did a Literature Search...

When you have a Registry

You have the

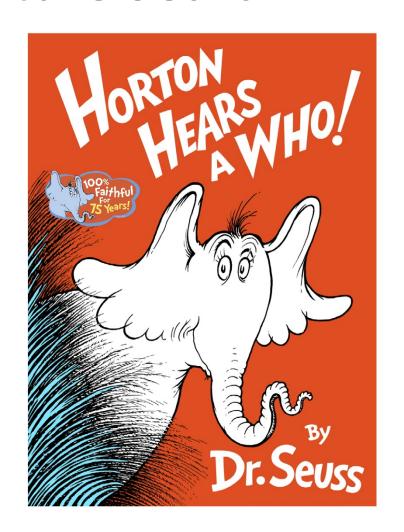
To Immunization Scrutiny

You know Who's had a

And Who's still behind

Who's had single antigen

Who's had combined...



Assessing the Data You Get is Just Smart Pnowing your Pneumo Is One Place to Start!

For more on this, see AIRA's Ongoing Monitoring and Evaluation of Data Submissions to IIS.

Vermont Details

- We are the 14th state.
- Population 626,042.
- Our IIS is the "IMR."
- 85% of known immunizers report to the IMR.
- 59% of known immunizers send HL7 messages.
- In 2016, we added 1,237,644 new immunizations to the IMR.



Why Immunize Vermonters Against Pneumococcal Disease?

- Pneumonia is one of the top 10 causes of death in older adults.
- Some pneumococcal organisms have become resistant to one or many antibiotics – so prevention is important.
- CAPiTA study 2014 found 75% efficacy for PCV13 serotype IPD in persons over 65 years.



Pneumococcal Vaccines

- Protect against disease caused by Streptococcus Pneumoniae including infections in the lungs and the blood.
- Recommended for all adults 65+ years.
- Covered by Medicare Part B.
- Current recommendation (Sept 2015):

PCV13 followed by PPSV23 one year later

Why Look at this Data?

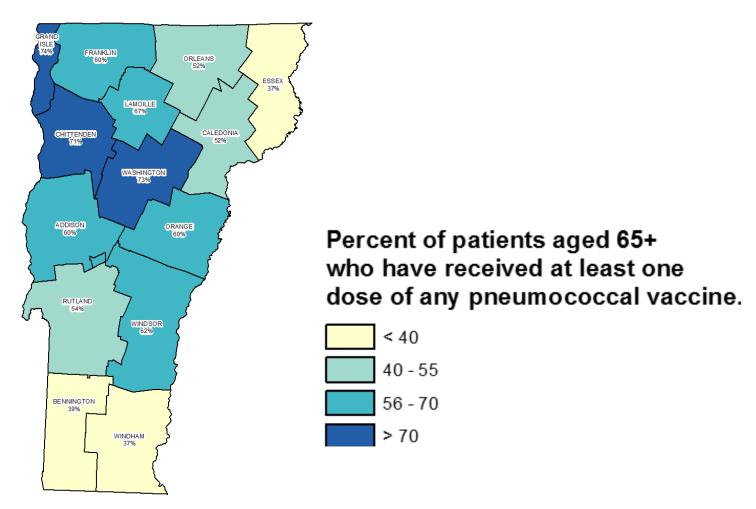
IIS Data Can Tell Us

- Who is giving Pneumococcal Immunizations
 - What types of organizations?
- What formulations are being reported
 - Does that align with best practices bases on ACIP Guidelines?
- Are administrators following schedule?
- Is the population being reached?
- Are there pockets of need?
- Is there duplication of effort?

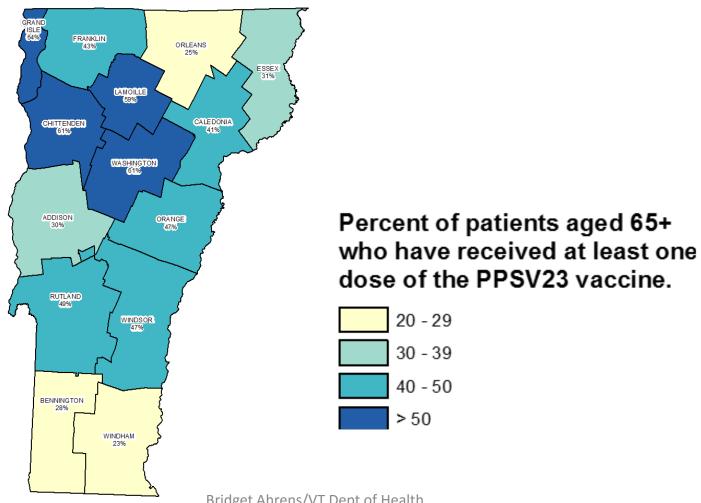
What To Do Next

- Consider whether findings suggest reporting issues, coding issues, or clinical reality.
- Talk with Immunization Program and others about strategies to improve coverage:
 - Resources?
 - Educational Outreach?

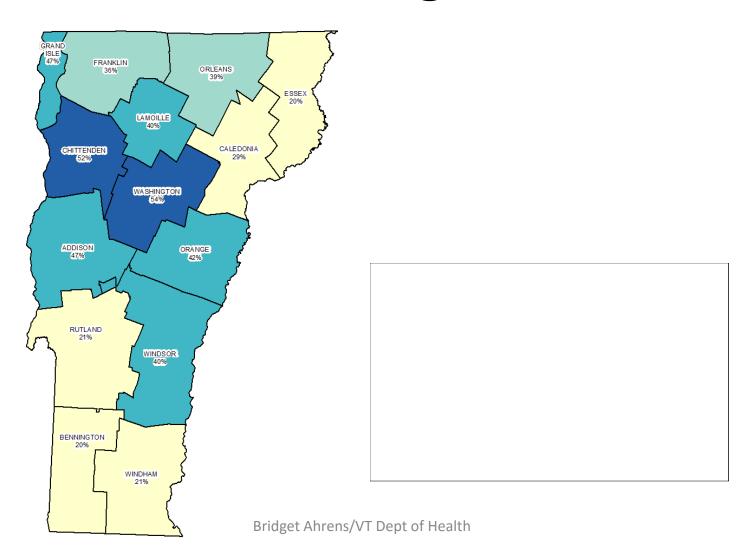
Vaccine Coverage: Any Pneumococcal



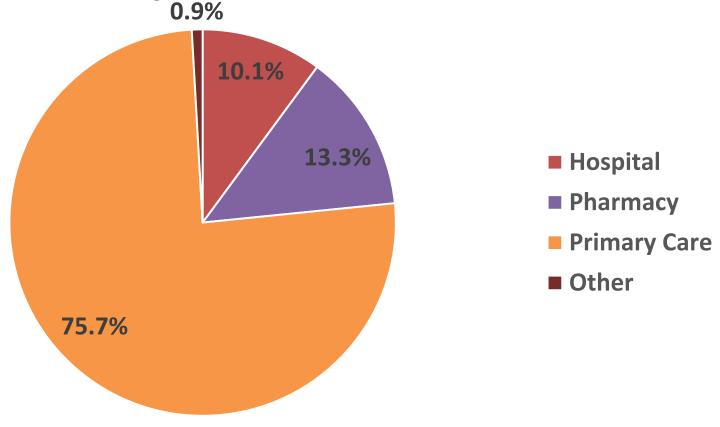
Vaccine Coverage: PPSV23



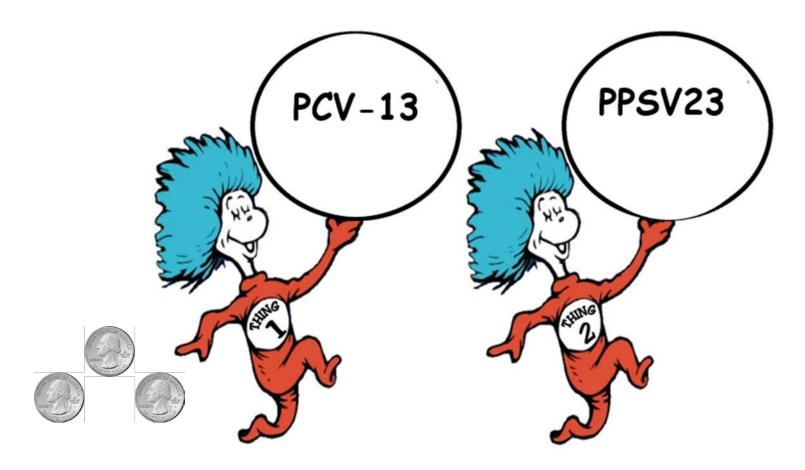
Vaccine Coverage: PCV 13



Source of Pneumococcal Immunizations to VT persons 65+ in 2016



From Sites Serving Older Adults, We Would Expect.....



Hospitals and Pneumo

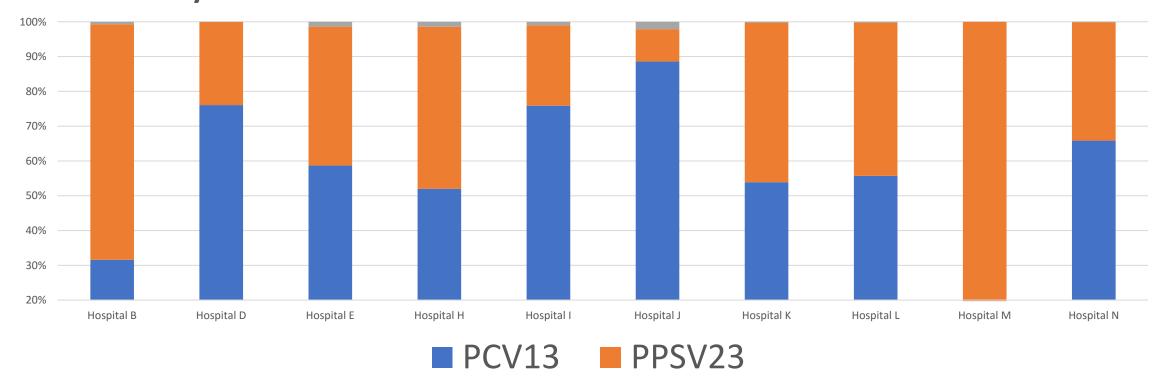
Hospitals account for 10.1% of Pneumo administered to age 65+.

Only 5 hospitals reported administering more than 50 pneumococcal imms in 2016.

- Of 15 reporting hospitals, 12 reported PCV13.
- Of 15 reporting hospitals, 14 reported PPSV23.

Hospital Administered Pneumo

Pneumo Vaccine Administered to VT Hospital Patients aged 65+ years in 2016



Pharmacies and Pneumo

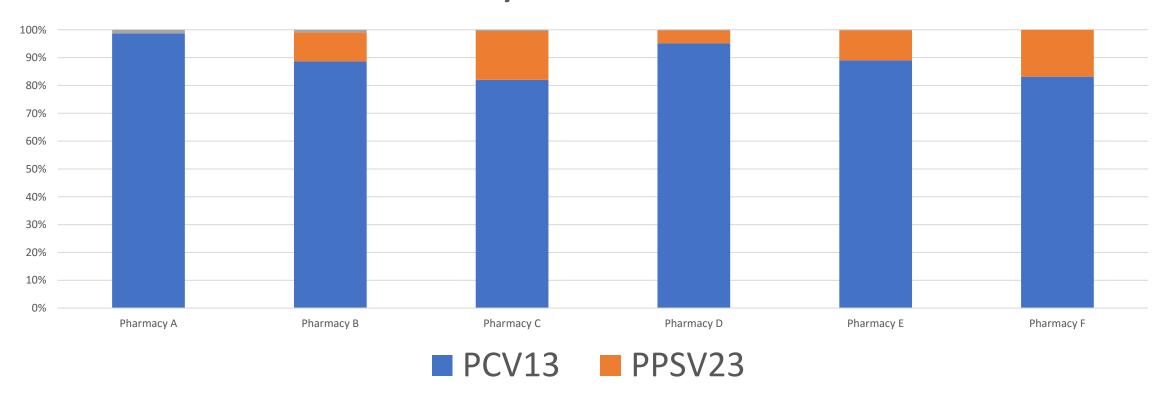
• 13.3% of Pneumo administered to 65+ was reported from pharmacies.

 Pharmacy numbers are based on 5 chains and three independent pharmacies.

Generally speaking, Pharmacies were administering PCV13

Pharmacy Administered Pneumo

Pneumococcal Vaccine Administered to Pharmacy Patients aged 65+ years in 2016



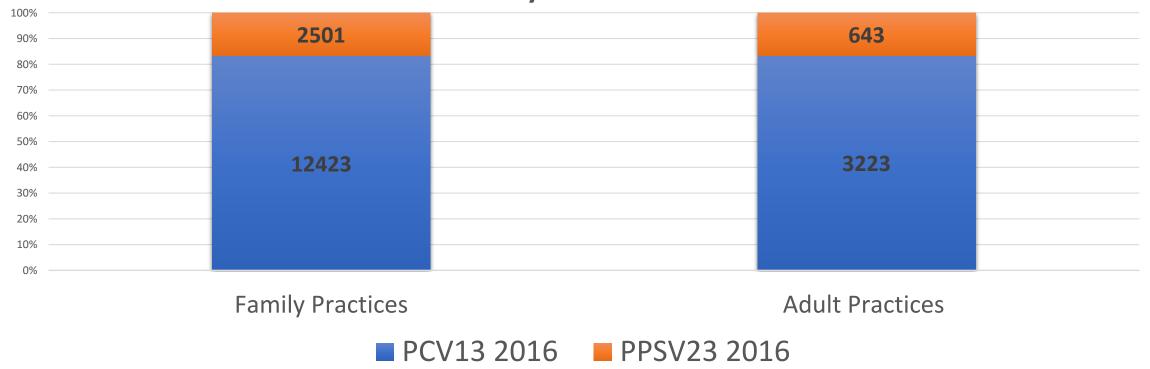
Primary Practices

 75.7% of Pneumo administered to 65+ was reported by Primary Care practices.

- Family Practices reported 60.1% of all Pneumo doses to 65+.
- Adult Practices reported 15.6% of all Pneumo doses to 65+.

Primary Care Administered Pneumo

Pneumococcal Vaccine Administered to Primary Care Patients aged 65+ years in 2016



Primary Practice

 Of 86 Primary Practices reporting 20 or more Pneumo to 65+ in 2016:

96.5% reported both PCV13 and PPSV23.

• 72.1% reported **Expected Rate PCV13**.

• 12.8% gave more PPSV23 than PCV13.



Expected Rate of PCV13 to Persons 65+ Years

- 97% were VFA Participants
- 82% were Family Practices
- 60% were Hospital Owned



Influencing Factor: Vaccines for Adults Participation

• 82% of medical practices serving advissing T participate in the VFA programs.

 Of the 18,990 pneumococcal immunizations administered in 2016 at Primary Practices 97% came from practices participating in VFA.

Influencing Factor: Type of Practice

 82% of pneumococcal immunizations administered to 65+ at primary practices came from FAMILY PRACTICES

• Family practices serve adolescent and children, who require immunizations for school at a dance.

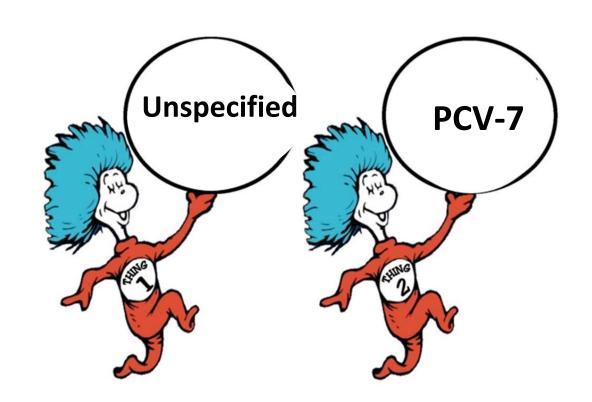
Influencing Factor: Practice Ownership

- Of 151 medical practices serving adults, 53 are hospital owned.
- 67.2% of pneumococcal immunizations administered to 65+ at primary practices came from HOSPITAL OWNED practices.



Coding Issue?

- UNSPECIFIED Pneumo codes (90)
 - One hospital (14), 10 practices
 - Sporadic issue, not systemic
- OLD Pneumo codes (PCV7) (126)
 - One hospital (14), 7 practices
 - One practice accounted for 65%,
 other instances were sporadic



Now We Know. Now What?

Go Back to the Source

Н	ospital X 6	Week Pos	t HL7 Live Repo	December 3, 2015 through January 14, 2016					
Unexpecte	ed percenta	ge of PPSV	23 (CVX 33).						
Under 18		Over 65				Overall			
CVX Code	Count	Percent	CVX Code	Count	Percent	CVX Code	Count	Percent	
			33	10	35.71%	33	10	35.71%	
•			133	1	3.57%	133	1	3.57%	
			141	17	60.71%	141	17	60.71%	
			Total	28	100.00%	Total	28	100.00%	
Total			Manufacture						
<u>Imms</u>	<u>Lot</u>	<u>Percent</u>	<u>r</u>	<u>Percent</u>	<u>Site</u>	<u>Percent</u>			
28	12	42.9%	28	100.0%	16	57.1%			
<u>Total</u>			Expiration						
<u>Imms</u>	<u>Route</u>	Percent	<u>Date</u>	Percent	VFC Code	Percent			
28	12	42.9%	12	42.9%	28	100.0%			
Compariso	on of immu	nizations gi	ven between	December	3 and Janua	ary 14, curre	ent year an	d previous	year.
2015-16	28								
2014-15	7								



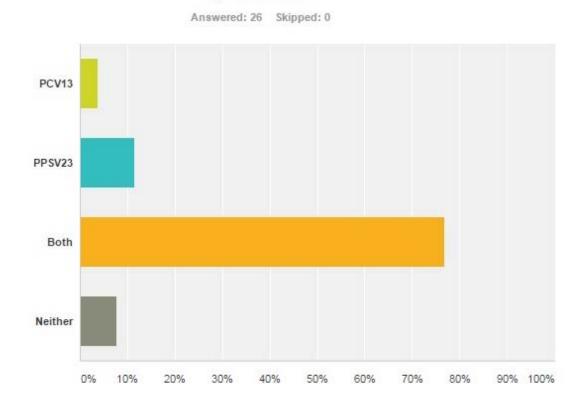
We Needed Answers

- Survey Monkey to assess Pneumo use in 65+
- Sent to 116 people:
 - Vaccine or office managers at Primary Practices
 - Quality Improvement managers at Hospitals
 - Pharmacists at Pharmacies

Responses from 26 people (22%)

Surveyed Vaccine Administrators

For persons aged 65 and older in your care, which of the following immunizations do you offer?



Conclusions

- Primary Practices are responsible for most Pneumo administered to 65+ in Vermont.
- ACIP guidelines not universally followed.
- Pharmacies and hospitals—should they play a bigger role?
- What is needed?
 - Education
 - Resources (purchase, storage)
 - Is there a role for VFA in communicating these issues?

Now That You Know....

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