Vaccines for Adults Program Webinar: Best Practices to Increase Adult Immunization Rates

July 31, 2019

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Bart Smoot, MD, Assistant Medical Director Family Health Centers of San Diego



Agenda

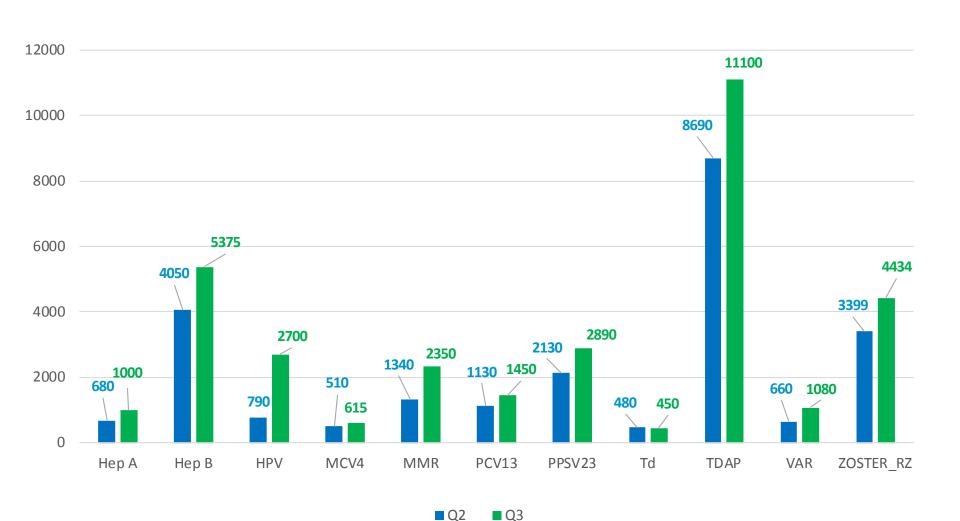
- Vaccine ordering and administration data
- Program reminders and updates
- Sarah Wright, American College of Obstetricians and Gynecologists (ACOG):
 - Partnerships with OB/GYNs to develop effective strategies for integrating immunizations into routine practice
- Dr. Bart Smoot, Family Health Centers of San Diego: Improving adult vaccine assessment through integration of EHR-based decision aids



VFA vaccines doses ordered, reported quarterly, CA, 2017-2019



VFA Doses Ordered by Vaccine Type, Q2-Q3 2019



Reminder

- Currently, HPV is recommended through 26 years of age for females and through 21 years of age for males.*
- Follow published ACIP recommendations for <u>HPV</u> and <u>PCV13</u>.

^{*}Men who have sex with men; transgender persons; and men with certain immunocompromising conditions (including HIV infection) may receive vaccine through 26 years of age.



Program Reminders and Updates

- Next ordering cycle: Late Sept/early Oct 2019
- Next webinar: November 2019
- VFA Poster mailed 7/19
- VFA Program Participation Requirements At-a-Glance now available online
- Missed a VFA communication? Visit the <u>VFA webpage</u> for archived communications and more

NOTE: ALL VFA PROVIDERS WILL BE REQUIRED TO HAVE AN ACOUNT WITH CA IMMUNIZATION REGISTRY OR LOCAL IMMUNIZATION REGISTRY BEGINNING IN 2020



Sarah Wright, MA

American College of Obstetricians and Gynecologists (ACOG):

Partnerships with OB/GYNs to develop effective strategies for integrating immunizations into routine practice



Increasing Adult Immunization Rates through Obstetrician-Gynecologist Partnerships

ACOG Adult Immunization Cooperative Agreement

Sarah Wright, MA, Senior Program Manager

American College of Obstetricians and Gynecologists (ACOG)
Immunization, Infectious Disease, and Public Health Preparedness Department





Acknowledgements

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Project Background

- 4-year cooperative agreement funded by CDC
 - 3-year demonstration phase working directly with ob-gyns
 - 1-year dissemination phase to share findings from the demo phase
- Aimed at increasing rates of 5 adult immunizations in pregnant and non-pregnant populations
- Worked closely with 19 diverse ob-gyn practices in two states (Massachusetts and California)
 - On-going collaboration with state health departments for resources and technical support
 - Focused on implementation & adaptation of the National Vaccine Advisory Committee's (NVAC) Standards for Adult Immunization Practice



Targeted Strategies

- Standing orders
- Strong recommendations
- Consistent documentation
- IIS enrollment
- Immunization referral
- Prompting
- Engaging practice staff
- Patient & health care provider education and use of resources





Project Findings: Immunization Rates

Increasing Adult Immunization Rates Project Cohort: Comparisons of Immunization Rates by Immunization and Project Year

	Immunization Rates at Baseline	Immunization Rates at Year 3	Immunization Rates Percent Change Over Course of Project
Tdap	24%	63%	163%
Influenza	21%	35%	66%
Hepatitis B	55%	72%	31%
Herpes Zoster	10%	33%	233%
Pneumococcal	30%	33%	11%



Project Findings: Missed Opportunities



Increasing Adult Immunization Rates Project Cohort: Comparisons of Missed Opportunity Rates by Immunization and Project Year

	Missed Opportunities at Baseline	Missed Opportunities at Year 3	Missed Opportunities Percent Change Over Course of Project	
Tdap	76%	37%	-51%	
Influenza	79%	65%	-17%	
Hepatitis B	45%	28%	-38%	
Herpes Zoster	90%	67%	-26%	
Pneumococcal	70%	67%	-4%	

Missed opportunity = eligible for a vaccine but no record of contraindication, receipt, or refusal of the vaccine



Identifying Effective Strategies

- Through careful tracking of the project data and activities pilot-tested, ACOG identified the immunization improvement strategies that were:
 - Successfully implemented by the Champions
 - Capable of driving change at the practice level
 - Easy to implement in all practice settings
 - Sustainable over time
 - Applicable to the wider ACOG membership



Strategies for Effectively Integrating Immunizations into Routine Obstetric-Gynecologic Care

- 1. Administer routinely discussed and recommended vaccines, which at a minimum include influenza, Tdap, and HPV.
- 2. Create a culture of immunization by educating and involving all staff in immunization processes. Delegate the responsibilities of maintaining and championing an immunization program to a team of staff, as appropriate for your practice structure.
- 3. Develop a standard process for assessing, recommending, administering, and documenting vaccination status of patients.
- 4. Utilize existing systems and resources to conduct periodic assessments of immunization rates among patients to determine if and where progress is needed.

Administer routinely discussed and recommended vaccines, which at a minimum include influenza, Tdap, and HPV.

- Talk to each patient directly. Make a strong recommendation, which includes:
 - The recommendation: "As your physician, I recommend you get the flu vaccine."
 - A timeframe: "I want you to get the vaccine today before you leave."
 - A benefit to the patient: "The vaccine is important for your health."
- Train staff on how to deliver strong immunization recommendations
- Document declinations and reintroduce discussion at subsequent visits
- Order vaccine early—pre-booking flu vaccine helps secure lower pricing
- Develop a referral system—if feasible, establish a relationship with an existing pharmacy, health care provider, or clinic for referrals
- Expand immunization offerings methodically



Create a culture of immunization by educating and involving all staff in immunization processes. Delegate the responsibilities of maintaining and championing an immunization program to a team of staff, as appropriate for your practice structure.

- Educate clinicians and staff on importance of immunizations for patients & themselves (at regular intervals)
- Educate clinicians and staff on role non-physician staff can play
- **Develop scripts** for staff to follow when promoting immunizations
- Utilize front desk staff to promote immunizations as appropriate
- Display patient education materials
- Delegate immunization program duties to an Immunization Champion team or individual



Develop a standard process for assessing, recommending, administering, and documenting vaccination status of patients.

- Consider implementing immunization standing orders for vaccines carried on-site
- When standing orders are not feasible, develop a standard immunization process
- Consider shifting administration of immunizations to early in the patient visit
- Make use of electronic prompts within the EHR
- Build immunization reminder language into intake, check-in, and checkout forms
- When feasible, enroll in your state's immunization information system (IIS)

Utilize existing systems and resources to conduct periodic assessments of immunization rates among patients to determine if and where progress is needed.

- Periodic assessments can highlight if and where improvements are needed
- Examples include:
 - Chart reviews
 - Comparisons of immunization billing codes to number of patients seen over a certain timeframe
 - Comparisons of vaccine purchasing and doses administered to the number of vaccine eligible patients over a certain timeframe
- When assessing immunization rates, consider starting with just one population group or immunization over a specific timeframe
- Develop a plan for how you will use the findings of your immunization rates assessment



Adult Immunization Project Resources

- Increasing Adult Immunization Rates through Obstetrician-Gynecologist Partnerships project report
- Strategies for Integrating Immunizations into Routine Obstetric-Gynecologic Practice tip sheet
- Developing an Immunization Referral System <u>tip sheet</u>
- Seasonal Influenza Vaccination Programs: Tips for Optimizing Practice Management <u>tip sheet</u>
- Optimizing Immunization Programs in Obstetric-Gynecologic Practices tool kit



Other ACOG Immunization Resources

ImmunizationforWomen.org and ACOG.org/immunization

websites

- Clinical guidance
- ACOG app with Immunization applet
- Toolkits & FAQs
- Coding and reimbursement resources
- Practice management resources
- Vaccine safety resources













Contact the ACOG Immunization Department

Immunization@acog.org

www.lmmunizationforWomen.org www.acog.org/immunization





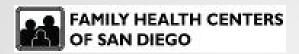


Dr. Bart Smoot

Family Health Centers of San Diego:

Improving adult vaccine assessment through integration of EHR-based decision aids





Our approach to Immunizations in Adults

Close coupling of EHR based solutions

Goals of talk today

- Discuss ways in which your EHR might work better towards meeting your patient's vaccine needs
- Show data in which VFA programs improve completion of needed vaccines in vulnerable adults
- Discuss ways to engage your support staff in helping providers to complete needed vaccines

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 8/2/2019 ◆2

Disclosures I have nothing to disclose!

Background

- Family Health Centers is a Federally Qualified Health Center in the San Diego area
 - 37 different sites (includes dental, behavioral health, other support services)
 - 130,000 unique patients annually
 - 600,000+ unique visits annually
 - 150+ providers
 - 2000+ employees
 - FM (and now Scripps IM) residency program



throughout San Diego County and continues to expand. Visit our website regularly to stay updated with new clinics and sites. For specific information on site services, please explore our individual clinic pages CALL US TODAY TO SCHEDULE AN APPOINTMENT: (619) 515-2300.

Print

Background

- Organizational size is large enough to take advantage of some economies of scale
 - Long record of in-house solutions to problems
 - Fully functioning IT department to develop software solutions
 - In house solutions for almost all software (scheduling, billing, inventory, EHR, etc)
 - o Close and constructive collaboration between administration and physicians
 - Flexibility to change course when a particular route is not working or has become obsolete
- Focus is on patient quality
 - But we have to be aware of our payers' expectations
 - O Payer mix is about 15% totally uninsured, another 15% mostly uninsured, rest mostly Medicaid (MediCal or payers), 10% or so exchange, another 15% or so Medicare.
 - HRSA is a major grantor of funds for FQHC's

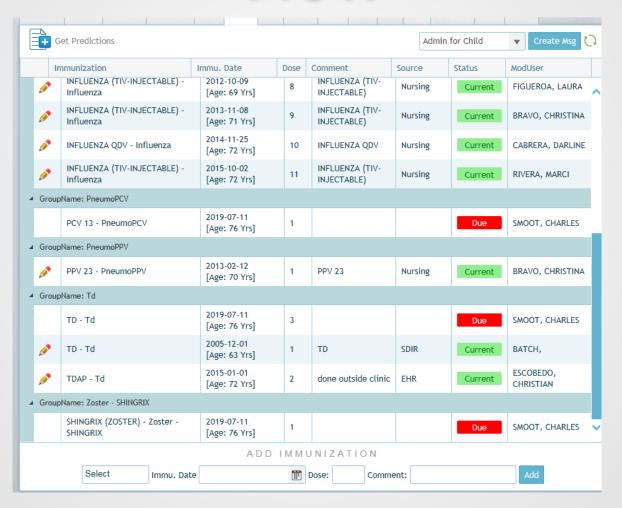
Background

- Our EHR is 'home grown'
 - Provider Champions were critical in acceptance of the system as well as key to a more userfriendly system
 - Backbone of our system allows for easily extensible changes in the character of our system without IT involvement
 - Much if not most of the design changes in our system are done by non-IT people
 - Order Sets collaboration between specialists and primary care, and maintained by our small provider team
 - Message Pools allow for extensibility in messaging as practice models in our clinics change
 - o **Problem searches** are provider designed and maintained
 - Conversion to ICD10 was seamless for the majority of our providers
 - Decision aids are based on a platform that allows them to be easily modified and added to
 - Documents have auto-fill of relevant fields making PAs, morbidity reports and similar documents quicker and easier to fill out
 - o **Trends** allow for real-time problem based review of patient care
 - Interact provides computer generated dialogs to allow MA's and other support staff to execute 'top of scope' interventions in focused patient improvement

Vaccine needs are fully integrated into our EHR

- Currently utilizes the county registry (San Diego Immunization Registry) which is part of California Immunization Registry (CAIR)
- System wide solutions that address many metrics at once using a common pathway can result in overall improvements on many fronts
- Involving providers and making use of their expertise, being responsive, having a flexible means to change the behavior of the system have helped us
- Interdisciplinary teams to address specific improvements have also been very important
- Having the EHR help our providers has been key
 - Order sets (there are almost 600 in our system) also serve as reminders to not forget things associated with specific problems and include specific immunizations for specific problems
 - O Decision aids in lieu of pop-up reminders prevents 'reminder fatigue'
 - o The logic behind decision aids can be exploited for tailored interventions from support staff

Immunization Registry View



EHR design: Order Sets

- Built by providers for providers
- Are changing every week!
- Almost 600 of these in our system now
- Once the basic concept is taught to providers then additions or changes can occur without the need to communicate every single change

EHR support

• Diabetes order set (includes specific Imms for that issue)

Liraglutide (Saxenda) 3.0mg Daily #5 w/3RF Semaglutide (Ozempic) Inital dosing 0.25 mg/wk SQ x 4 weeks, then 0.5 mg/week #1 1.5 mL pen w/ 3 RF (PA Molina, United) Semaglutide (Ozempic) 1mg/week SQ #2 1.5mL pen w/ 3 RF Note: Insulins	Vit B12 (consider for neuropathy w/ long term metformin use) Chronic Care Package Labs for DM II (CMP, Hemoglobin A1C, Lipids, Urine Micro) CONSULT	Elicourage exercise 3-5 x/week for 30 milliotes Sick Day Plan - English Sick Day Plan - Spanish Note: Proivder Resources Note: Scripps Diabetes Handouts (Multiple Languages) Note:Link to Diabetic Education for Low Literacy Patients
☐ Insulin Lantus 10u HS 1 vial w/ 3 RF☐ Insulin Levemir 10u HS 1 vial 3RF	☐ Endocrinology - High Risk DM Clinic @ Logan	(English and Spanish)
Insulin Basaglar 10U HS #1 pen w/ 3RF [1 pen= 300 units] (Molina, req	Endocrinology - High Risk DM Clinic @ El Cajon	
for new insulin starts)	Diabetes Educator	PATIENT & PROVIDER EDUCATION/RESOURCES
Insulin NPH 10u BID 1 vial 3 RF	Dental (annual)	
Insulin 70/30 10u BID 1 vial 3 RF	Endocrinology (outside FHCSD)	DM2 Basics (2 pages, ADA)
	Mental Health	DM2 Basics - Span
Insulin Regular Novolin (Sample Sliding Scale) w/ meals		DM2 & HTN (2 pages, ADA)
Insulin Novolog (Sample Sliding Scale) w/ meals 3 RF (Covered on Str.		DM & HTN - Spanish
MediCal)	Optometry (annual vision exam)*	DM2 - Overview (Comprehensive, 10 pages, familydoctor.org)
Humalog Sliding Scale #1 w/ 3 RF (Str. MediCal, CHG, Care 1st)	Optometry - Retinal Scan Only - (For SELF PAY Patients - \$30)*	DM2 - Overview Span
Admelog Sliding Scale #1 w/ 3RF (United, CHG, Care 1st, Molina)	Podiatry (FHCSD)	Game Plan (Fill out, ADA, 2 pages)
ASA 81 mg Daily #30 11 RF (Consider risk/benefit, caution if hx GIB))	☐ DMCP Group Visits w/ provider (DMCP - Diabetes Management Care	Game Plan - Spanish
Note: Diabetic Testing Supplies	Program) rec'd <u>for insured_\$25 self nav co</u> st *	Glucose Log (2 pages, ADA)
Glucometer #1		Glucose Log - Spanish
Glucometer Strips and Lancets #50 w/ 11RF	TWIMUNIZATIONS	Insulin Basics (4 pages, FamilyDoctor.org)
Glucometer Strips and Lancets #100 w/ 11RF	Use Differ Adult Deserv	
Glucometer Strips and Lancets #150 w/ 11 RF	Hep B (Std. Adult Dose)	Insulin Basics - Spanish
Lancets (only) #50 w/ 11RF (if pharmacy wants Lancet order seb.,	Influenza (inactivated)*	Nutrition (11 pages, comprehensive, FamilyDoctor.org)
change # as needed)	Prevnar (PCV13) (Wait 1 year between PCV13 and PPSV23)	Nutrition - Spanish
Insulin Syringes #50 w/ 11RF	Pneumovax (PPSV 23) (PCV13 not indicated till 65 yo)*	Diabetes Sick Day, English
Insulin Syringes #100 w/ 11 RF	Note: If rec'd PPSV prior to 65 yo, needs to be 5 years since last	Diabetes Sick Day - Spanish
Insulin Curinger #150 w/ 11DF	vaccine to re-administer.	Diabetic Neuropathy - English

EHR Support: Decision Aids

- Age, gender, problem specific
- Designed by providers for providers
- Context-sensitive emphasis
 - Bold are highest priority
 - Will not show an aid where context is not appropriate (e.g. Mental Health appointment will not show that a diabetic foot exam is overdue)
- Easy 'organization wide' interventions shown to place patient on pathway to getting problem satisfied
- Allows for easier teaching of system. "One stop shop" to satisfy health metrics
- As things change, less teaching is needed once basic system is understood then easier to follow what interventions to use
- Over 130 of these now exist in our system. We're building more every week!

o E.g. new 2019 California law to rx Narcan to certain vulnerable populations

EHR Support – Decision Aids

- Simple and intuitive show only what needs attention
- Do not 'pop-up' such that they cause provider fatigue (and thereby get ignored)

•	women's Health: Breast Cancer screening	nen s Health: Breast Cancer screening UVEKUUE		Overdue for mainingraiff	
4	Adult Imms: PCV13		ERDUE	PCV13 is indicated (age over 65 yo). If PPSV23 is also due, give PCV13 this visit and wait at least 12 months to give PPSV23	
	Exclusion		Select	Order	Select
	Not indicated (provider feels immunization not indicated)			PCV13 (At least once as adult, preferably prior to PPSV23, or one year after)	
	Patient Declined			Note: CDC link for PPSV schedules & info	
+	Adult Imms: PPSV23	OV	ERDUE	Patient is over 65 and is due for a PPV23 immunization	
•	Adult Imms: Shingles	ov	ERDUE	Shingles shot is due. Please order appropriate to patient's insurance	
•	Adult Imms: Td or Tdap every 10 years	٥٧	ERDUE	Tdap is overdue	
•	Adults: ASCVD Statin Risk Calculator	NOT MET		Lipid panel is needed to determine ASCVD risk! Score = -1%	

Decision Aids are age and problem specific for adults

-	Adult Imms: MCV4	OVERDUE	HIV+ will need booster after 8 weeks Active Problem: 042	
,	Adult Imms: Hep B	OVERDUE	Hep B not immune. Booster or immunization series is due Last Draw Date: 06/21/2019 Test: Hepatitis C Virus (HCV) Antibody (AB) (GW-AR) Result: 0	=
,	Adult Imms: PCV13	OVERDUE	PCV13 is indicated (age over 65 yo). If PPSV23 is also due, give PCV13 this visit and wait at least 12 months to give PPSV23	
•	Adult Imms: PPSV23	OVERDUE	Patient has an immune compromising condition for which a PPSV23 is due Active Problem: 042	

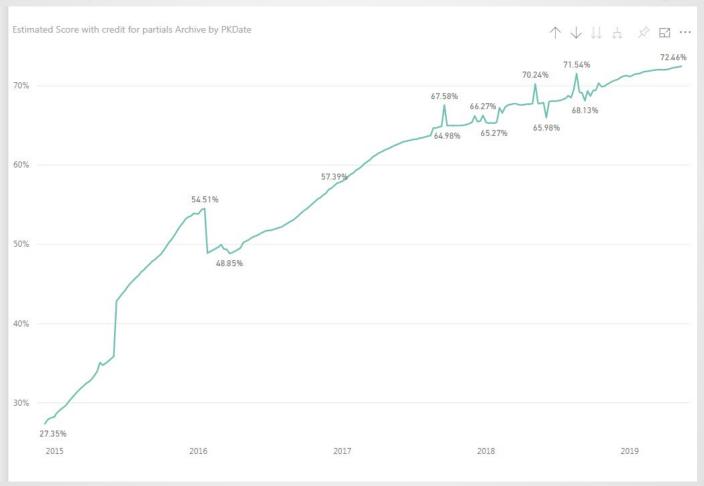
Auto-recalculates to 2 months for PCV13 once given for HIV+

Decision Aids



PATIENT'S DECISION AID Show All ☑ Expand All □							
-	Title	OutCome	Notes	Manage	Н		
٠	Adult/Teen Chlamydia Screen and Treat	EXCLUDE	No chlamydia screening on file in last 5 years		$\overline{}$		
٠	Adult/Teen Gonorrhea Screen and Treat	EXCLUDE	No gonorrhea test on file in last 3 years				
٠	Adults: Afib Anticoagulation using CHADS2 score	SATISFIED	Patient is taking warfarin [Active Medication]	=			
١	Adults: Colon Cancer Screening	SATISFIED	Abnormal Colonoscopy. Next colonoscopy is Comment: Polyp removed. 3 year f/u Exp on: 05/01/2017				
٠	Adults: Hypertension (<140/90)	NOT MET	BP is over 140/90				
٠	Adults: Routine Vison Screening	SATISFIED	Completed Appt: 02/12/2016				
٠	Adult Imms: Hep A	EXCLUDE	Patient shows immunity to Hepatitis A. Unnecessary Last Draw Date: 12/17/2014				
٠	Adult Imms: Hep B	EXCLUDE	Not indicated due to lab evidence of immunity (or core Ab positive at provider discretion)	=	П		
٠	Adult Imms: PCV13	SATISFIED	PCV13 received [Last Imm on 04/28/2016]				
٠	Adult Imms: PPSV23	SATISFIED	PVX within last 5 years [Last Imm on 01/10/2014]				
٠	Adult Imms: Td or Tdap every 10 years	SATISFIED	Tdap in last 10 years [Last Imm on 10/24/2014]				
٠	Adult Imms: Zoster	EXCLUDE	Contraindicated (live vaccine) Comment: Live vaccine contraindicated				
٠	Adult/Adolescent Depression Screening	SATISFIED	Recent PHQ2 screening - negative Last PHQ 2 on 02/18/2016 - Score = 0				
٠	Adults: ASCVD Aspirin Prescribing Calculator	EXCLUDE	Patient taking warfarin. The decision to prescribe aspirin as well needs to be individualized. ASCVD risk 19.62% [Active		~		

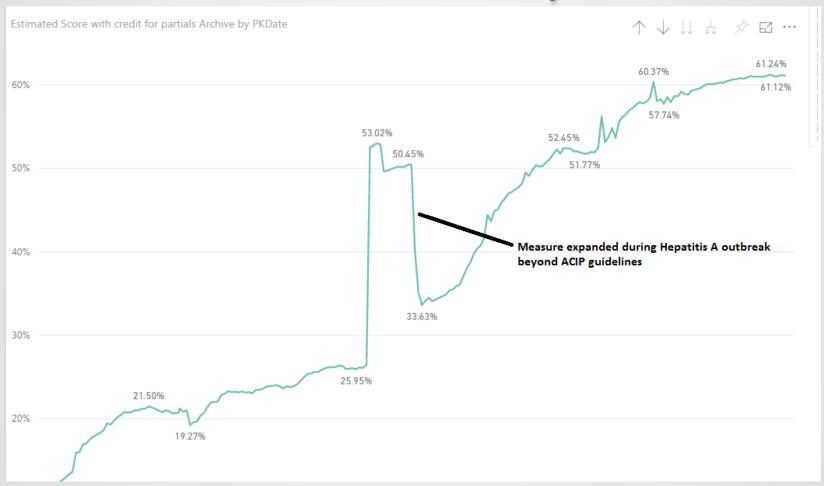
Decision Aids are working! (Tdap completion in 18+ yo)



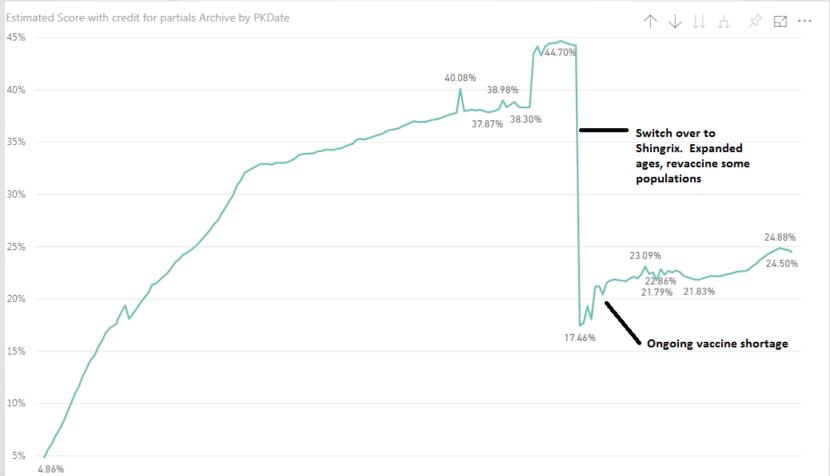
PCV13 completion (over 18 yo all indications)



Hep A (18 yo+ where indicated)



Zoster and Shingrix (over 50 yo with exclusions)

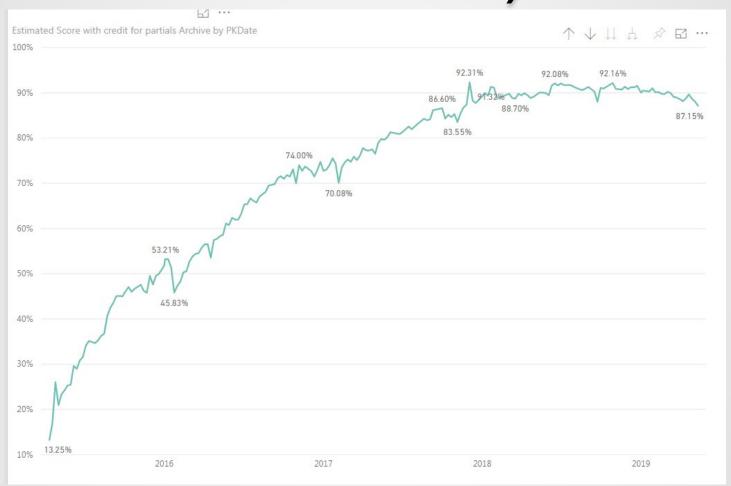


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Data Analysis

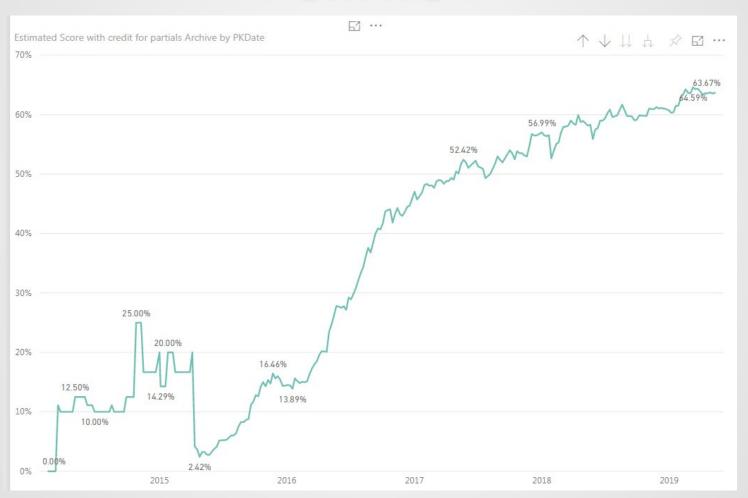
- Extensive capabilities now
- Hosted on 'cloud' servers for system-wide review
- Provide automated composite analysis of our patient populations
- Allow for easy 'dive down' information that allow our individual clinics to quickly find patients needing interventions

Impact of VFA (PCV13 in VFA clinic)



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Vs PCV13 in non-VFA clinic



MA's and support staff at top of scope

- Allows us to work more efficiently to address a myriad of healthcare issues systematically
- Empowers MA's to provide healthcare interventions before the patient is seen by the provider

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 8/2/2019 ◆ 22

MA/Nurse Top of Scope - Interact

Well Woman	Older Adult Services Screening	Housing screening	Healthy Literacy	CC Screening Due	Adult Imms		
Our records show that you are due for a tetanus shot. Do you think you've had this shot already in the last 10 years?							
_	ou like this shot today? If you lack ir ly \$35. With insurance, there is gen	Please Select					
Our records sh offer this shot	now that you are due for a pneumo today?	Yes					
OK. I will prepare the necessary paperwork and get you this shot today							
	atient going to receive the PCV13 ir u have already discussed this above er is no)	•		Yes			

MA/Nurse Top of Scope – Interact

- Most vaccines are actually initiated by our MA's for both Pediatrics and Adults!
- Key barrier is additional rooming time, and labor (more MA's to get through scripts)
- Standing orders happen during MA/nursing visits, particularly for kids (better access) but also adults for some indications (flu shots for instance)
- Nursing gets weekly reports to monitor ordered vaccines not given to ensure good supplies
- Other clinics run queries on their patients behind in their vaccines to come in for vaccines

Interact results of interest are then presented to provider

Comment: N/A Nursing Comments:

Note: Patient reports recent ER/Hospitalization on UCSD Hillcrest at 012019 [asked on:01/31/2019]

Pt declined setting personal health goal right now, pt answered Yes/Sure on setting a goal at a later date. [asked on:01/31/2019]

Links to actual script

- Show results from screening (alcohol, DV, depression, specialty screens)
- Show results from scripts where patient is declining something you might want to address
- Show other results of 'interest' health goals, recent ER visits, recent travel, etc.

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 8/2/2019 ◆ 25

Impressions

- The EHR has empowered providers to ask for additional decision aids and has empowered administration to ask for additional Interact scripts
 - Our methods have provided a means for us to provide a relatively quick way to effect a positive change in health outcomes
 - MA's/nurses also feel they are a more critical part of the healthcare team
- Administration is feeling empowered to change Interact scripts to try to improve outcomes
- Still, we see a leveling off that occurs. While interventions get us part of the way there, they are not getting us to 100%
 - Not all providers pay attention to decision aids
 - Not all Interact scripts are run 100% of the time
 - And obviously not all patients follow-through on what gets ordered!
- Remains to be seen: how do we engage everyone all the time?
 (patients, providers, health care staff)

Summary

 Our organization made significant improvements across a wide range of metrics using systematic approaches with customizations

Thank-you!

Questions?

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 8/2/2019 ■28

Discussion Questions

- What best practices shared today are you interested in implementing in your practice? What will it take to implement?
- Does your clinic have standing orders or a standard immunization process in place for assessing, recommending, administering, and documenting vaccination status of patients?

If not, how would you develop one at your practice? Who would need to be at the table?



Discussion Questions

 Does your clinic utilize EHR order sets and decision aids for adult immunizations?

If not, what would it take to implement? Consider meeting with providers, staff, IT, EHR rep and other relevant staff to discuss the feasibility of implementing. Are there small steps that your clinic can take?



Questions?

my317vaccines@cdph.ca.gov VFA Resources webpage

