Using Data Analysis to Drive Health Equity The Health Center Experience

CHAD Conference September 14, 2021 Zak Clare-Salzler www.partnershiphealthcenter.org



Outline

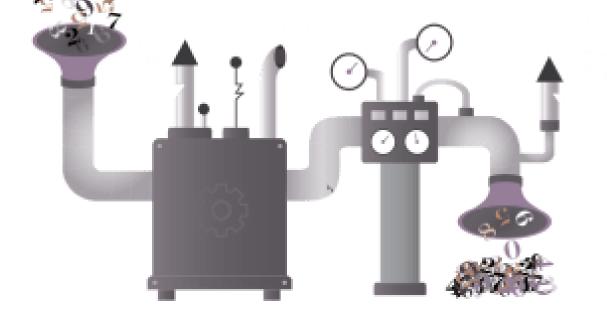
- 1. Principles of data analysis
- 2. Gathering data and how to approach PRAPARE
- 3. Azara DRVS functionality
- 4. Azara DRVS PRAPARE module
- 5. Breakout session
- 6. COVID-19 vaccination equity
- 7. Questions and ideas



Data for Action Principles for being data informed

Garbage In, Garbage Out

 Your analysis can only be as good as the data that you start with.





Data In

- EHR data are notoriously messy, lack structure, and can be difficult to access.
- Striving for *perfect* data may be overly ambitious.
- More important to know the data quality landscape.
- Workflows should empower patient-facing staff while adhering to good data management principles.



Data Out

- Analyses and reports support:
 - Grant funding
 - Program development
 - Outreach and community partnerships
 - Operational and quality improvement
 - Panel management
 - Patient-centered care



Stages of Analytics Development



Excel sheets, basic reporting & financials; not strategic nor systematically supporting improvement projects



Dedicated data analyst, at least one BI tool, simple dashboards



Warehousing, automating, broadening scope



Predicting, correlating, integrating multiple data types quickly

Supporting Analytics Development

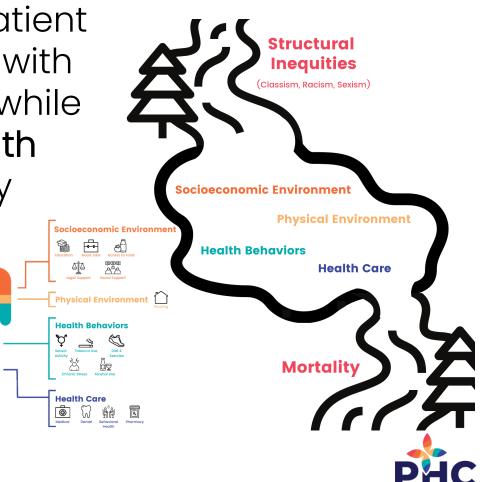
- Utilize structured templates and smart forms when possible.
- Reinforce good workflows among staff who add information to patient charts.
- Invest in data analysts, HIT, and data management tools.



Guiding values to PHC's approach

Health Is Much More Than Healthcare

On average, 80% of patient wellness is correlated with SDOH and behaviors, while access to quality health care accounts for only 20%.*



30%

Collaborative

- **Toffer Lehnherr**, Health Equity Coordinator, *PHC*
- Alana McCreery, Community Health Specialist, PHC
- Becca Goe, Director of Innovations, PHC
- Ariel Singer, Oregon Primary Care Association
- Stephanie Castano, Oregon Primary Care Association



June 2020 PRAPARE Pilot

- Community Health Workers called patients with addresses in a specific lower-income city neighborhood.
- This pilot informed CHWs HOW to administer the PRAPARE screener.





PRAPARE Tool and eCW Smart Form

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Yes, it has kept me from medical appointmen		
	gs, appointments, work, or getting things needed for daily living	
No		
I choose not to answer this question		
Social and Emotional Health		
How often do you see or talk to people tha family, going to church or club meetings)	t you care about and feel close to? (For example: talking to friends on the phone, visiting friends or	
Less than once a week		
1 or 2 times a week		
3 to 5 times a week		
More than 5 times a week		
I choose not to answer this question		
How stressed are you? Stress is when son	eone feels tense, nervous, anxious, or can't sleep at night because their mind is troubled	
Not at all		
A little bit		
Somewhat		
Quite a bit		
Very much		
I choos not to answer this question		
Additional Questions		1
In the past year have you spent more than	2 nights in a row in a jail, prison, detention center, or juvenile correctional facility?	
Yes		
No		
I choose not to answer this question		
Are you a refugee?		
	Print Preview Print Eax Save Close	





Key Values

- Trauma-informed Care
- Free, Prior & Informed Consent
- Empathic Inquiry





Trauma-informed Care

 Not accomplished through any single particular technique or checklist

o Prevalence of trauma

- Impact of trauma on health and engagement to services
- Current service systems can retraumatize individuals



Free, Prior & Informed Consent

- Free
- Prior
- Informed
- Ongoing





Empathic Inquiry

- Guided discussion
 - Open-ended questions
 Active listening
 Self-disclosure
- Allow people to draw their own conclusions without judgement



Empathic Inquiry

- Strengths-based framework

 Resiliency
- Respectful
- Curious
- Compassionate
- Safety
- Self-determination / agency



Values into Practice

Develop a script

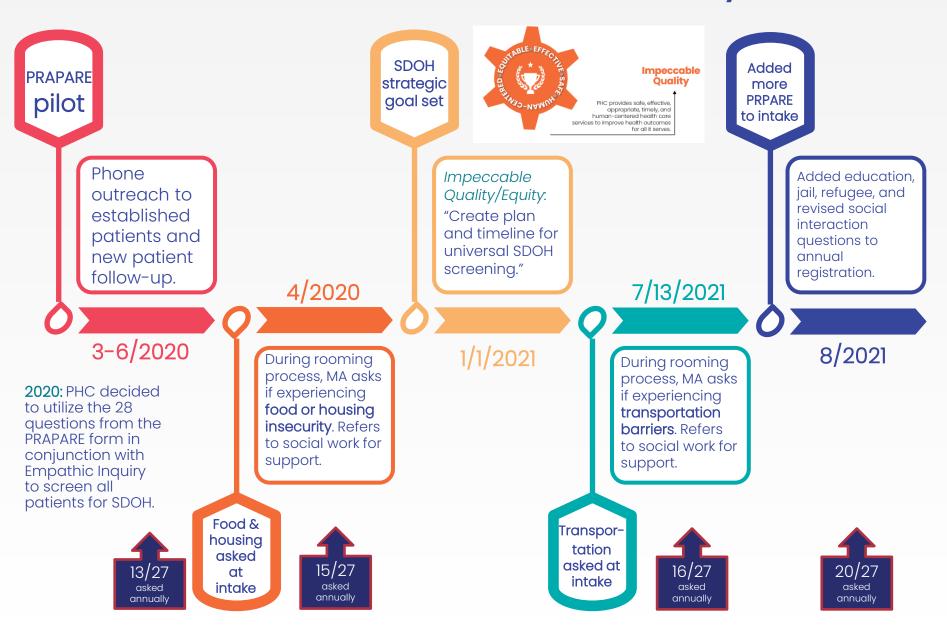
o Practice with co-workers

Iterative process

• What will work for your communities?



PHC's PRAPARE Journey



Next Steps Toward Universal PRAPARE Screening

• September:

Integrate social work students utilizing PRAPARE.
Enhance transportation resources.

• October:

 Define technology & personnel roles for annual patient screening that includes remaining seven PRAPARE questions.

• Future:

 Reinforce use of the PRAPARE smart form in EHR and enhance referrals to social work dept., community resources.

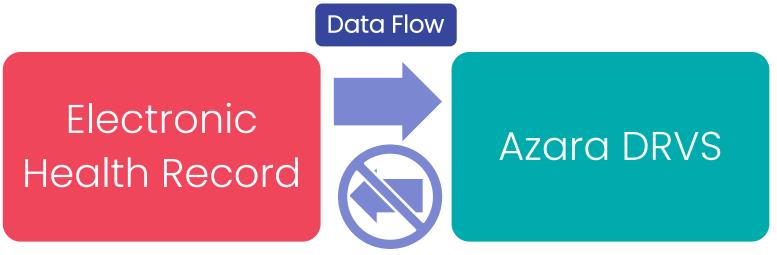


Leveraging SDOH in Azara DRVS Disaggregating patient outcomes and measures





 Centralized data reporting, visualization, and analysis tool for electronic health record data.





DRVS Mapping

PRAPARE Smart Form

Has lack of transportation kept you from medical appointments, meeting Yes, it has kept me from medical appointments or from getting my medications	Yes/No	
		100/110
 Yes, it has kept me from non-medical meetings, appointments, work, or getting No I choose not to answer this question 	, things needed for daily living	
General Intake Template	Structured Default 👻 Default for All 👻 Clear All	
	Value Note:	Yes/No
Name	165/110	
Lack of Transportation is a barrier to non-medical needs	yes no	
DRVS Mapping Admin		
Mapping Administration		
MAPPING CATEGORY (1) TIME PERIOD Structured Clinical Data V Last Year	~	
Mapping Summary Mapped DRVS Values DRVS Values with 0 Count (77)	EHR Mapping Details (j	Transportation - Medical PRAPARE 3 All 371
MAPPED DRVS VALUE マ DISTINCT COUNT マ	MAPPED DRVS ダ C SOURCE EHR TEXT VALUE	
(i) Transport - Non-Medical PRAPARE 3	Transportation 10,353 structHpi General Intake Transportation barriers?	Lack of Transportation is a barrier to medical need
i Transportation - Medical PRAPARE 3	Transportation 86 SDOH Transportation Is transportation a barrier?	-Med
	Transportation 51 Social SDOH Has lack of transportation kept you	from medical appointments, meetings, work or from getting t

PRAPARE Categories

- Education
- Employment
- Income*
- Housing Insecurity*
- Homelessness
- Material Insecurity
 - Child care
 - Clothing
 - Food*
 - Medicine
 - Phone
 - Utilities
- * UDS Appendix D

- Domestic Violence
- Safety
- Social Integration
- Stress
- Medical Transportation*
- Non-Medical Transportation*
- Incarceration





Grouping

- Measures can be disaggregated into patient groups.
 - Group comparisons can reveal health disparities and inform quality improvement and operational initiatives.





Filtering

 Measures can be filtered on a number of variables.

• For example, patients with medical transportation barriers.

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PRAPARE Module



- DRVS PRAPARE module includes measures, dashboards, and a registry:
 - o (2) Measures
 - SDOH Assessment Done, SDOH Core Screening
 - o (2) Dashboards
 - Social Needs All Patients, Social Needs Assessed
 - o (1) Registry



PRAPARE Module Measures

- Social Determinant of Health Assessment Done:
 - o Numerator
 - Patients with a completed health related social needs assessment – defined by clinic.
 - o Denominator
 - Patients with a UDS qualifying encounter.



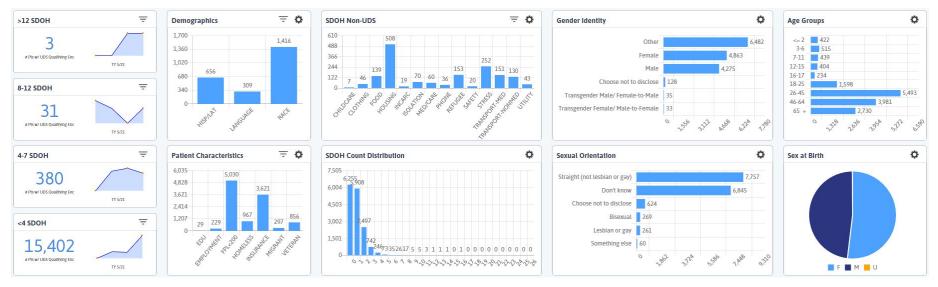
PRAPARE Module Measures

- Social Determinant of Health Core Criteria Screening:
 - Numerator
 - Patients with social needs assessments that include: Food, housing status, transportation, utility insecurity, and either employment, education, domestic violence, or social integration.
 - o Denominator
 - Patients with a UDS qualifying encounter.



PRAPARE Module Dashboards

- Social Needs All Patients
 - Overview of SDOH documented in whole patient population.



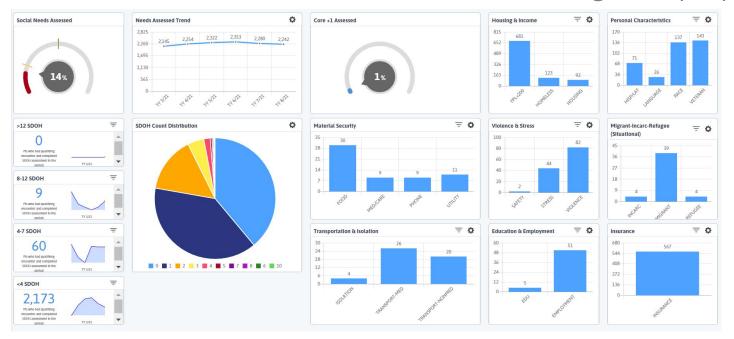


PRAPARE Module Dashboards

Social Needs Assessed

Overview of social needs screenings occurring in clinic.

Monitor how well clinic is screening the population.





PRAPARE Module Registry

- Population management tool centered on SDOH data.
- Registries list sets of data elements for each patient.

NAME MRN	AGE	GENDER								
			DATE	SCREENING FORMAT	TRIGGERS	TA ↑	TRIGGERS	TALLY	DATE	PROVIDER
			3/25/2020	PRAPARE	HOMELESS HOUSING FPL	16	HOMELESS HOUSING FO	15.00	9/1/2021	Krebsbach, I
					HOMELESS HOUSING FO	9	HOMELESS HOUSING FO	9.00	9/7/2021	Crevi, Kathe
			4/7/2020	PRAPARE	FOOD UTILITY INSURANC	9	FOOD UTILITY INSURANC	9.00	9/7/2021	Paddock, El
			8/31/2021	PHC - Comprehensive Health Assessment	FOOD UTILITY PHONE M	9	FOOD UTILITY PHONE M	9.00	8/31/2021	Koula, Mallo
			8/13/2021	SDOH	HOUSING FOOD PHONE I	9	HOUSING FOOD PHONE I	9.00	9/3/2021	Crevi, Kathe
			3/22/2021	PRAPARE	HOUSING FPL<200% FOO	8	HOUSING FOOD ISOLATI	5.00	9/7/2021	Horne, Sara
			3/6/2020	PRAPARE	FPL<200% MED/CARE ISO	8	MED/CARE ISOLATION SA	6.00	9/2/2021	Altounian, L
			10/1/2020	PRAPARE	HOUSING INSURANCE TR	7	HOUSING INSURANCE TR	6.00	9/2/2021	Quick, Steph
			11/1/2019	PRAPARE	FOOD INSURANCE MED/	7	FOOD INSURANCE MED/	7.00	9/1/2021	Crawford, La
			8/20/2021	SDOH	HOMELESS HOUSING FPL	7	HOMELESS HOUSING FO	5.00	9/7/2021	Annis, Rebeo
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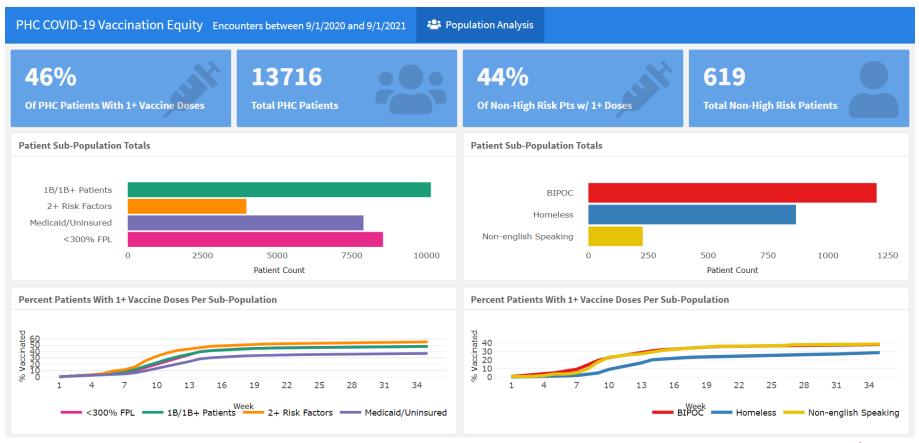
Breakout Session (10 minutes)

- Along the stages of analytics development, where do you see your organization?
- Do you collect SDOH data? What questions do you ask and how?
- What are lessons learned?
- Where do you see a tool like DRVS facilitating analytics development and patient equity?



COVID-19 Vaccinations Tracking vaccinations & equity using SDOH

Tracking Vaccination Equity





Discerning Vaccination Equity

PHC COVID-19 Vaccination Equity September 1, 2021





Questions/Ideas?