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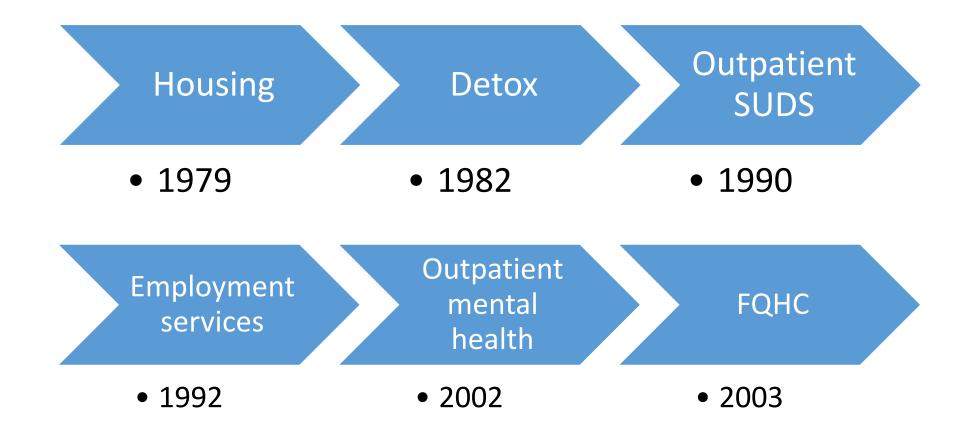


Agenda

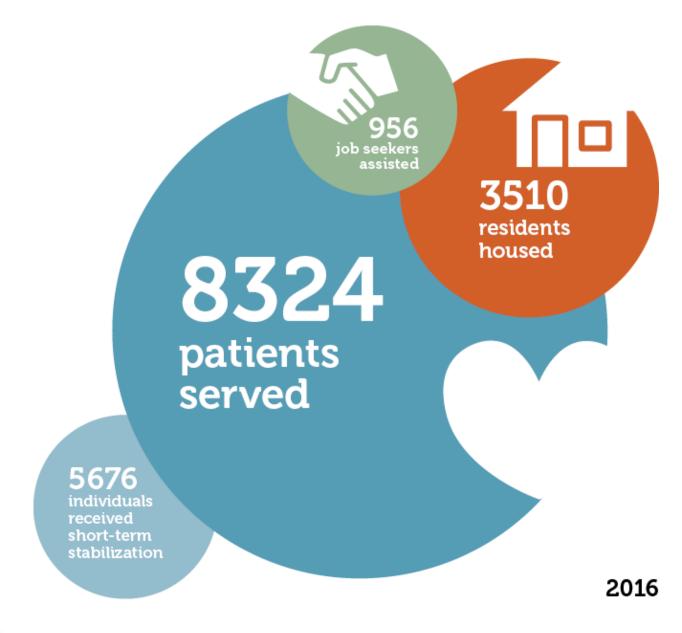
- Who is Central City Concern?
- How patient attribution is assigned
- How can PreManage Support an FQHC?
- Utilizing PreManage to drive Quality Improvement
- Using a DataWarehouse to knit together disparate data
- Risk Stratification, Population Segmentation
- Addressing ED utilization
- Community Driven Solutions



Central City Concern







1700 APARTMENTS IN 24 BUILDINGS



- Transitional housing
- Permanent supportive housing
- Family housing
- Housing first and harm reduction programs

13 FEDERALLY QUALIFIED HEALTH CENTER SITES



- Integrated primary & behavioral health care
- Community mental health services
- Subacute detoxification
- Inpatient and outpatient recovery services
- Acupuncture & naturopathic treatments
- Pharmacy

EMPLOYMENT SERVICES



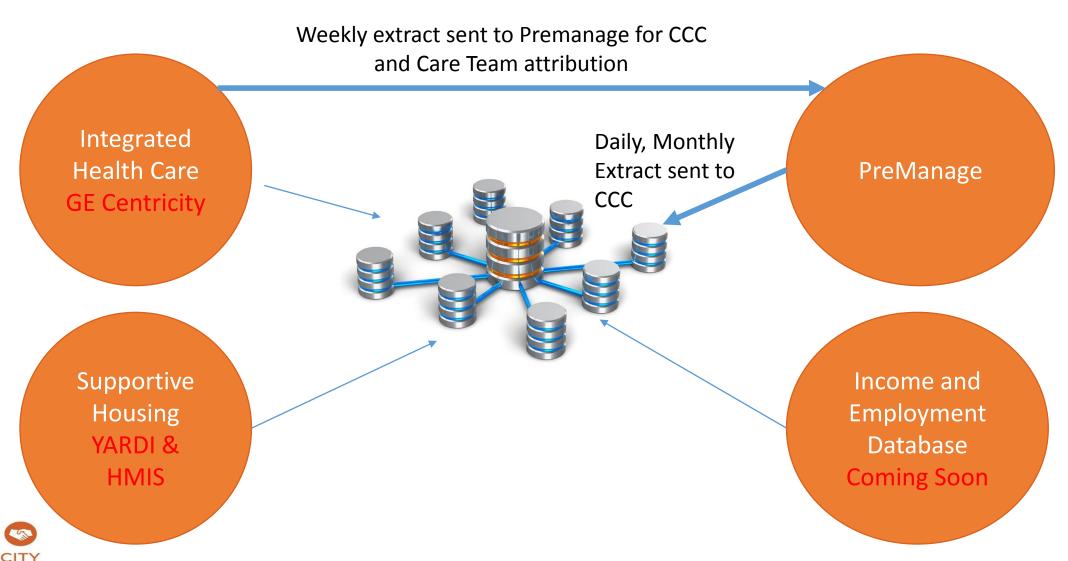
- One-on-one supported employment services specific to individual and community needs
- Volunteer opportunities that build confidence and work skills
- Training through transitional jobs in social enterprises

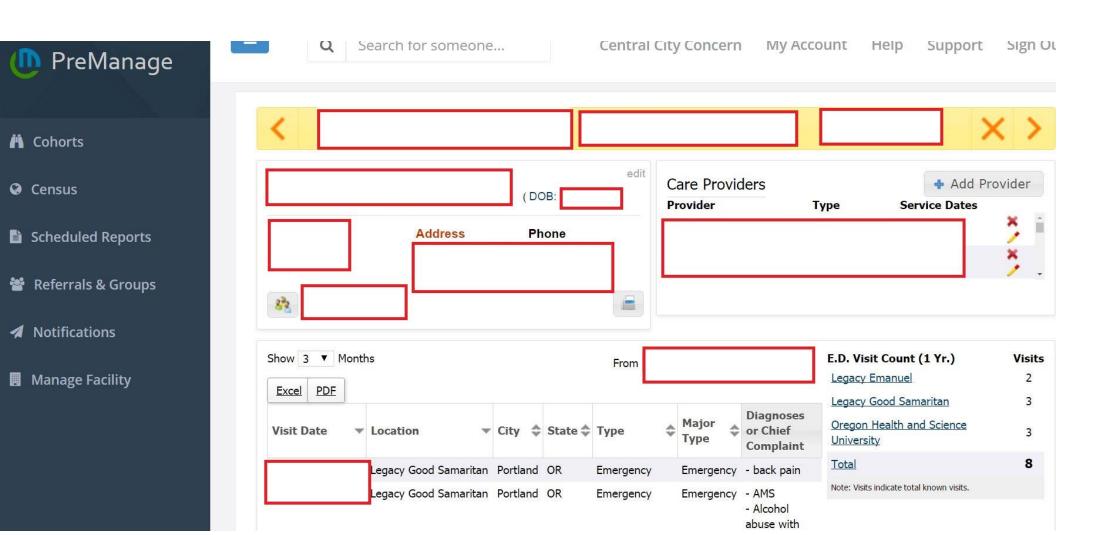
SOBERING SERVICES



- Transportation and stabilization services that protect the health and safety of the downtown community
- Harm reduction for individuals experiencing public intoxication

Patient Attribution







VISIT DETAILS		
May 2017	Portland OR	
Visit Type Emergency	Discharge Date	
Chief Complaint	Discharge Disposition Urgent Care	
Attending Physician	Discharge Diagnosis	
Billing Account Number	Diagnoses • back pain Major Visit Type History Emergency -	
Insurance •	3	
Notifications		
None HL7: This visit was created on		
Review Visit		



Suggested Care Recommendations
Author: Author Phone Number: Latest Update: /2016
Significant Medical Conditions and Treatment: - This patient often presents to ED with alcohol use it is unclear if he has established PCP of not.
-in 2016, OHSU ED transitional care SW (New directions) met him in ED and attempted to do follow up. All outreach attempts to engage him were unsuccessful.
Community Supports -Primary care provider/clinic: He is assigned to Old Town Clinic 503-228-4533 through . Unclear if he has established care.
Care Coordination: When the patient presents to the ED, meet with the patient, follow up on any outstanding issues, and contact the following people or programs for care coordination:
- Should he represent to ED and express any interest in follow up care coordination or services, he can be encouraged to contact me at be re-screened for outreach services through New Directions please consider contacting Old Town Clinic 503-228-4533 to see if he is

These are guidelines and the provider should exercise clinical judgment when providing care.



established for care there.

How can PreManage Support an FQHC?

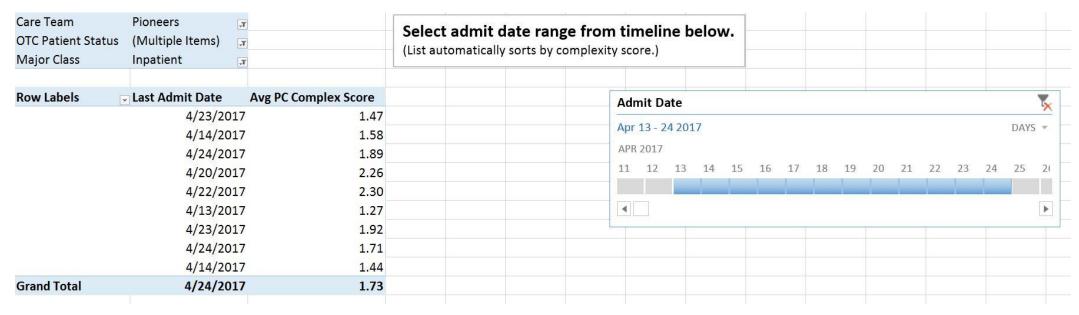
- Care Coordination
 - Summit, Assertive Community Treatment (ACT)
- Engagement
 - Community Health Outreach Workers Assigned but unengaged
- Information Gathering
- Risk Stratification, Predictive Analysis and Population Segmentation
- Quality Improvement



Team Based Complex Care

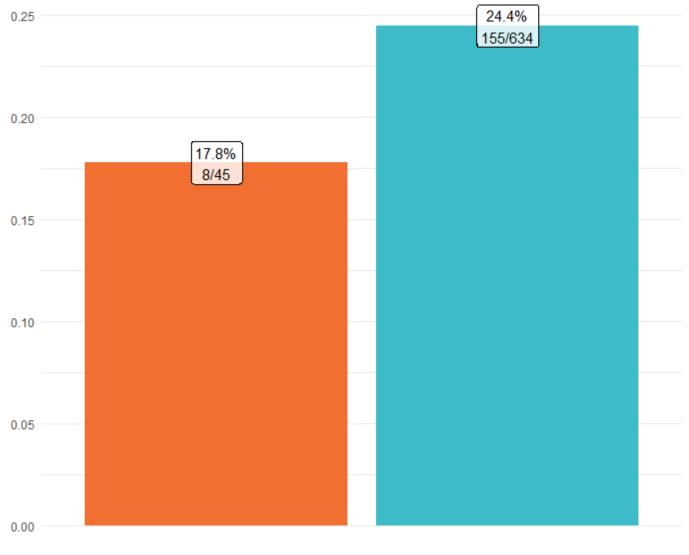
Weekly High Risk Huddle to coordinate care for highest risk inpatients:

PCP, Pharmacist, Health Resilience Specialist, Health Assistant





Early results of 30 Day Readmissions





Data Warehouse

- Brings together multiple data sources
 - More effective reporting
 - Fuller picture of clients' lives
- Leverages robust data to create insight
 - Program level: drives quality improvement
 - Department level : fosters resource stewardship
 - Organization level: enables strategic planning



Data Warehouse Roadmap

What are we building? How will we get there?

Strategy

Produce analysis to drive change

Focus: Leadership's vision shapes the development of each level of the data warehouse. Analysis from the data warehouse shapes decisions about the future of CCC.

Key players: Senior and departmental leadership and QM

Operations

Develop reports that deliver insight

Focus: Leadership accesses reports that are highly tailored to operational needs. Data informs key decisions.

Key players: Departmental leadership and QM

Reporting

Develop basics metrics to make reporting efficient

Focus: Timely, accurate reports of basic metrics

Key players: QM, data warehouse developers,

IS/IT, BBIS, program staff (as needed)

Infrastructure

Build and validate a database to make data easy to use

Focus: Validated, easy-to-use database; "source of truth"

Key players: Data warehouse developers, QM (as needed)



Program Analysis and Outcomes

- Put actionable data into the hands of leadership
- New paradigm: self-service analytics
 - Provides greater access to data
 - Enhances capacity for deep-dives

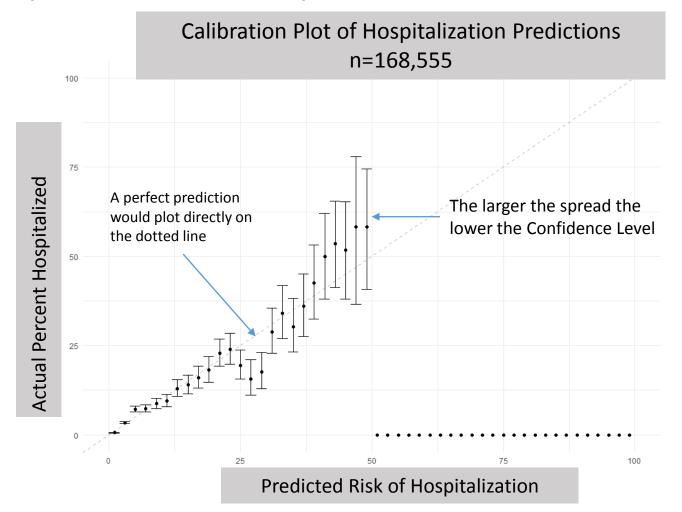


Comparison of Risk Scores

	HCC Risk Adjustment Score	OTC Complexity Score	OTC Hospitalization Risk
Predicts:	Future health care costs	Clinical complexity (by proxy)	Hospitalizations in next 30 days
Tailored to:	Community Medicaid population	OTC patients	OTC patients
Method:	Regression	Regression	Machine learning
Variables:	AgeSex at birthDiagnosis groups	 Homelessness Age Diagnosis groups Summit diagnoses Chronic pain Cancer Mental illness Self-harm behaviors 	 Homelessness Prior hospitalizations Prior ED visits 3 "hypotheses" include: Diagnosis groups Prior GM visits Prior MH/SUDS visits



Predictive Modeling to assess Risk of Inpatient Hospitalization





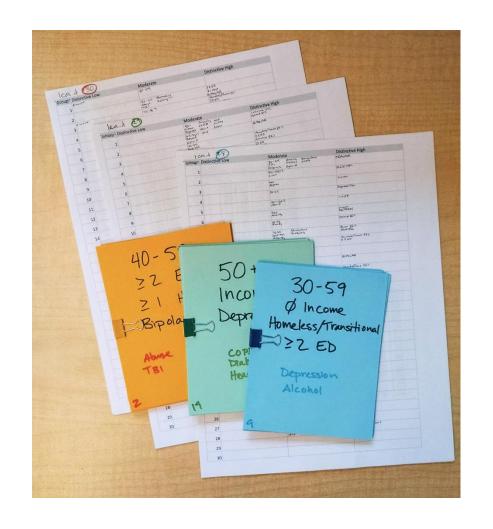
Population Segmentation

- Target the right services to the right people at the right time
- Combination of statistical analysis and staff insight
- Project will lay groundwork for:
 - Streamlined service delivery
 - Improved outcomes





Population Segmentation





Root Causes for Homeless Population utilizing Emergency Departments

- Homelessness
- Addictions
- Untreated mental health
- Chronic conditions
- Safety
- Food Insecurity
- Unemployment
- Social Isolation
- PTSD

Ego Depletion *

How do these root causes impact a person's self-control to make an appointment with PCP rather than get immediate care at a ER?





^{*} Kahneman, D. Thinking, Fast and Slow. Farrar, Straus and Giroux, NY, 2011

Increasing Access for Primary Care

- Old Town Clinic Urgent Care
 - Open Evenings and Saturdays
- Expanded Stand-By model to four largest Care Teams
 - 50% of patients with a Stand-By appointment said they would have gone to ED





Community Driven Solutions

"Oregon health organizations invest \$21 million in affordable housing, medical services" Oregonian 9/23/16

- Adventist Health Portland,
- CareOregon,
- Kaiser Permanente Northwest,
- Legacy Health,
- OHSU and
- Providence Health & Services Oregon







How can we learn from the narratives of our community?

"It's really intimidating, difficult and exhausting to have to deal with 15 different places to address my health"

May 5, 2017 "Ending Homelessness for People with Addictions: A Forum on Recovery Housing"



Many organizations provide case management to address ED "frequent flyers"

- Coordinated Care Organizations
- County Office of Health
- Hospital programs
- Pharmacy programs
- Community Health Workers
- Primary Care Providers

Change happens at the speed of trust

What's the impact on trust if these are not coordinated?

Can PreManage be a tool to better coordinate these programs?





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