

Whole Person Index:

CL2.0 leads mitigation of clinical and financial risk, resulting in improved outcomes at a lower cost- FOR ALL!

Katie Kaney, DrPH, MBA, FACHE

Author: Both/And: Medicine and Public Health Together

Founder: Whole Person Index

CEO: LovEvolve

February 2024

Ktkaney@gmail.com

fact

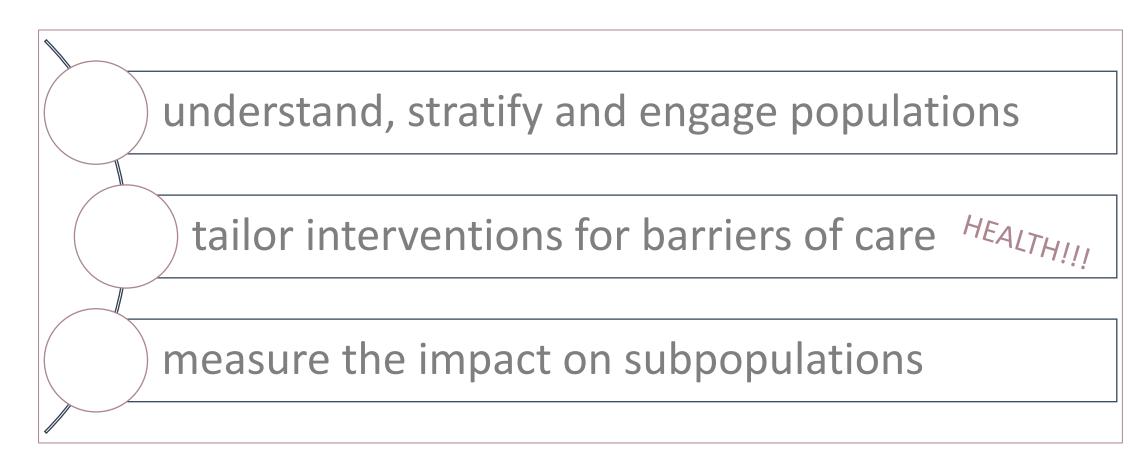
health inequity is both a humanitarian and an economic crisis

- health inequity costs \$320 billion today and if we do nothing, it will cost us \$1 trillion by 2040
- more than 45% of consumers across all coverage types have some unmet basic need
- 90% of the nation's \$3.8 trillion per year healthcare costs is attributed to people with chronic diseases and mental health conditions
- >90% of type 2 diabetes, 80% of CAD, 70% of stroke, and 70% of colon cancer are potentially preventable by (nonsmoking, healthy weight, moderate physical activity, healthy diet, and moderate alcohol consumption)

chronic disease is a health equity problem

Better Health is Good Business building the business model in 3 steps Veeneta Lakhani

https://www.medicaleconomics.com/view/beyond-social-responsibility-the-missing-business-case-for-health-equity

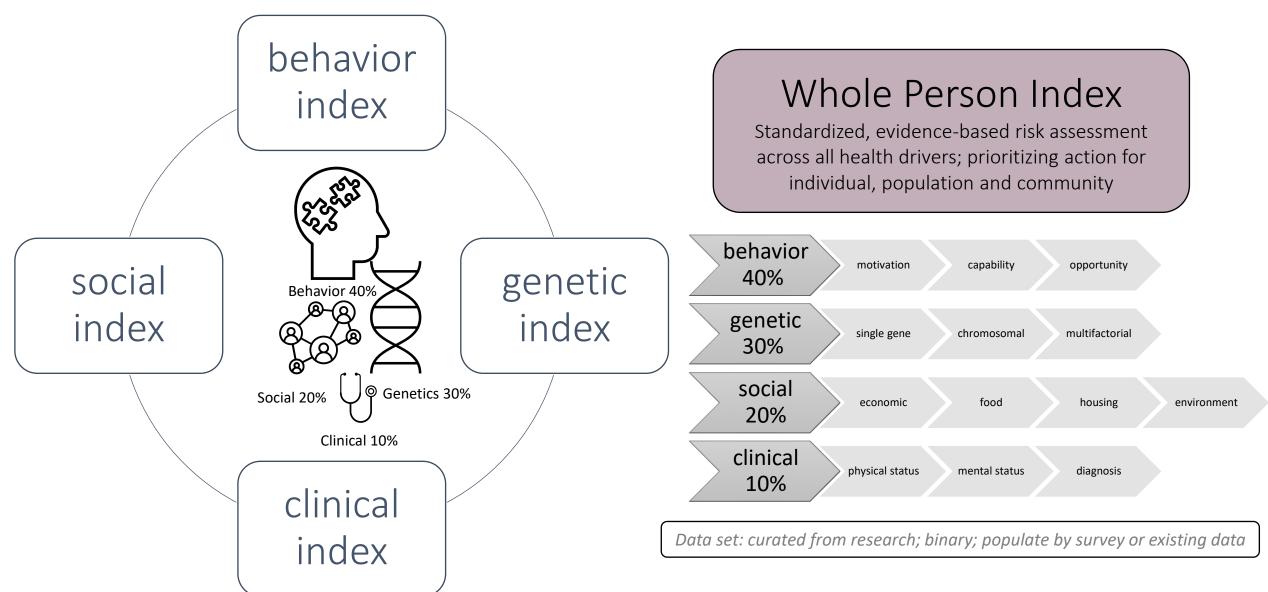


Opportunity: Better Health, Lower Cost, For All

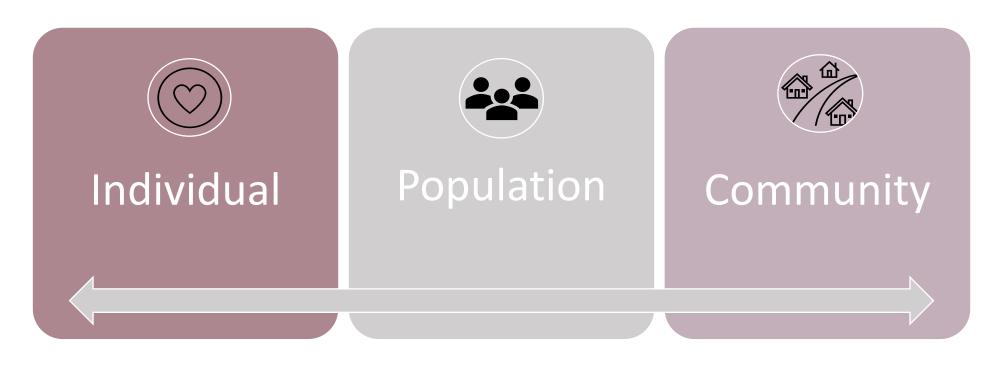
- Health is driven by four (4) factors*:
 - clinical (10%)
 - social (20%)
 - genetics (30%)
 - behavior (40%)
- Over 80% of health spend is on clinical services**
- The current health/care system produces gaps in care, creating health inequity
- Health will only be improved if all drivers of health are scientifically understood,
 paid for and treated in a balanced approach



Whole Person Index (WPI) = Clinical + Social + Genetic + Behavior



Whole Person Index (WPI): Individual + Population + Community



Return on Investment (ROI): Better Health, Lower Cost, For All

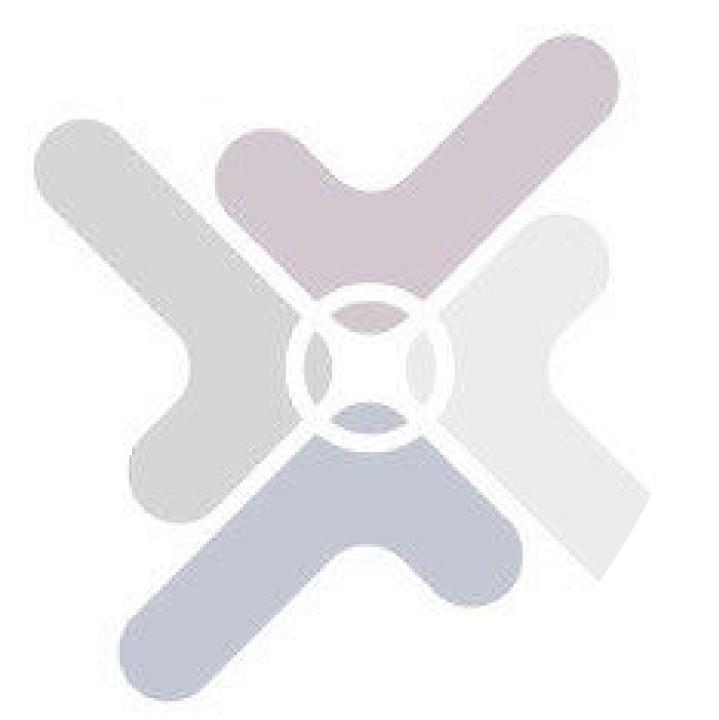
utilization, incidence, habits, cost

utilization, incidence, premiums, cost

policy, private/ public partners, cost

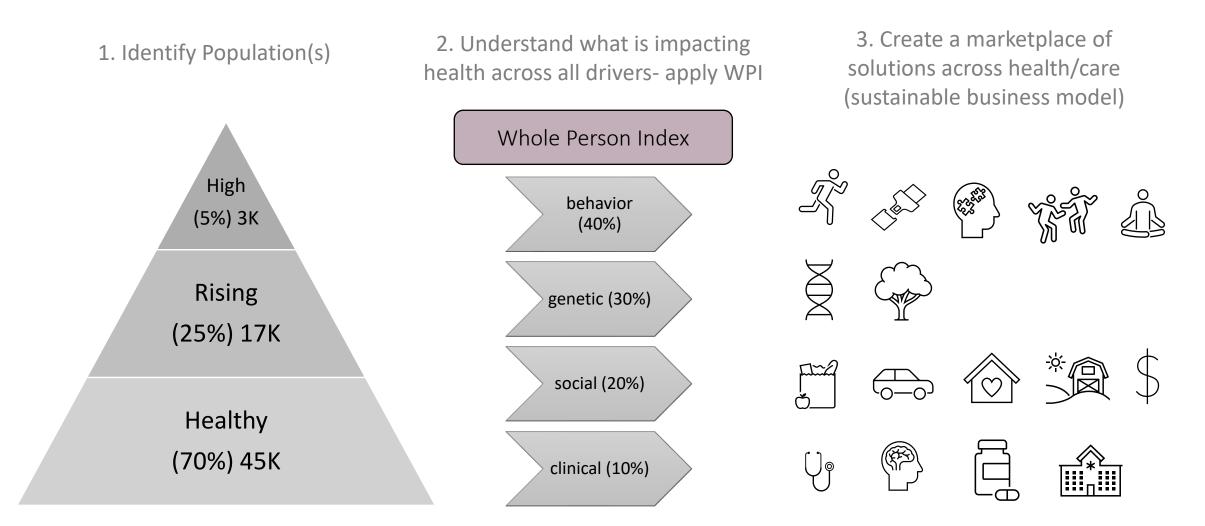
Whole Person Index (WPI): Change the Scoreboard, Change the Game

- Health definition
- Health acuity
- Democratize the data: individual, population and community
- Re- align current spend to highest, best use based upon impact and outcome

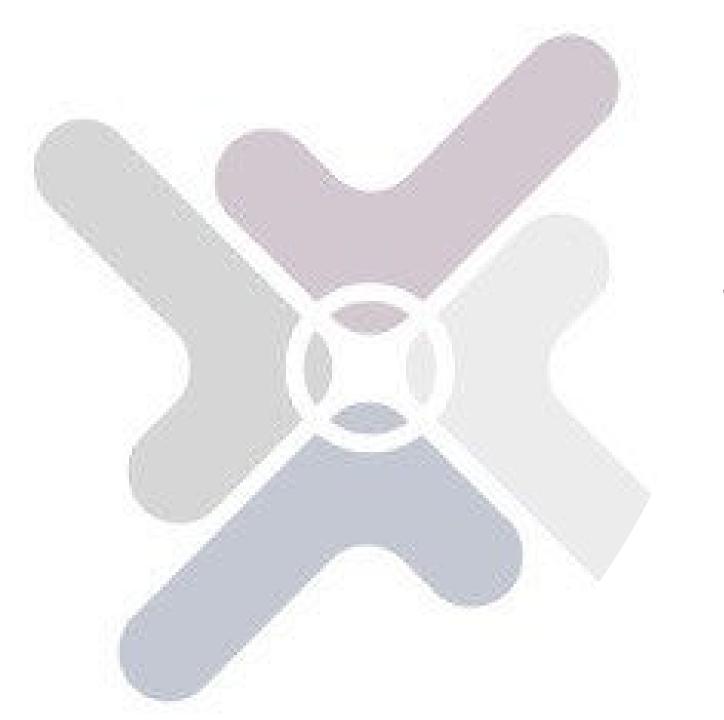


Whole Person Index: In Action

Creating a Better System of Health: 4 Key Steps



4. Scale to improve outcomes at a lower cost, for ALL



WPI: Case Study #1 Employer

Whole Person Index: Population (n=2500)

Total Participants: 90% 2250/2500

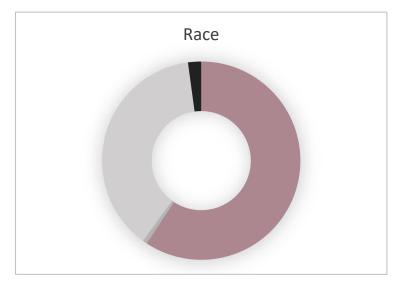
Female: 62%

Male: 38%

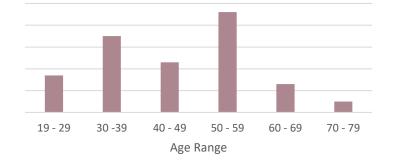
State Counties: 2

Employed: 100%;

> 1 job: 20%



Patients Per Age Range



Primary Care Provider (PCP):

Yes: 86%

Dentist in last year:

Yes: 64%

ED Utilization: 31%

Area Deprivation Index (ADI)*

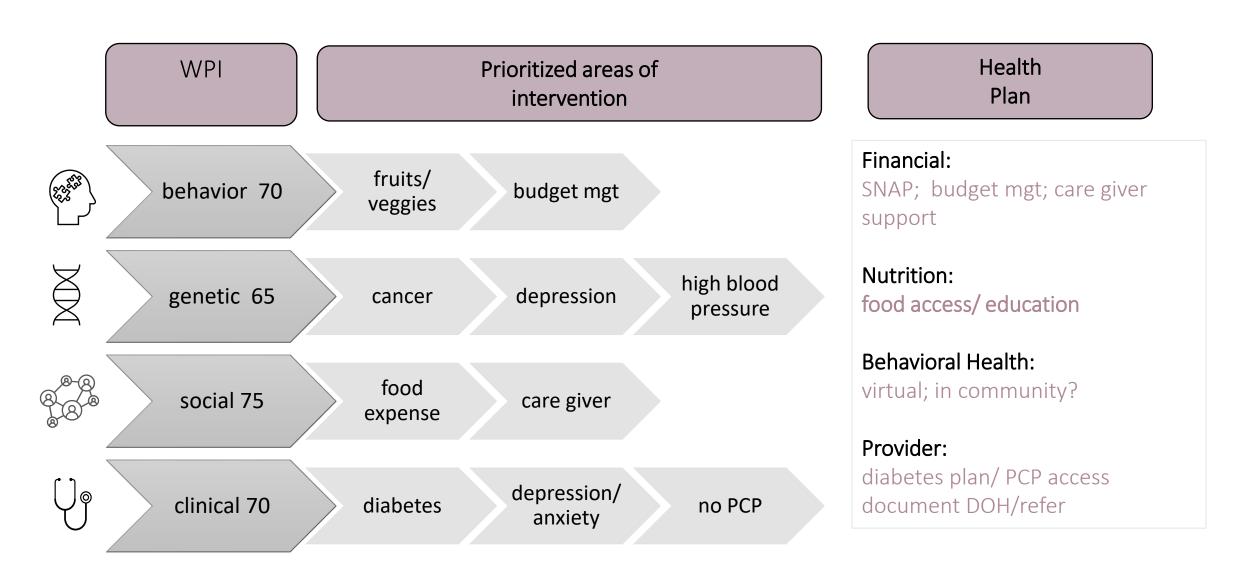
Census Blocks: 69

Average ADI Rank: 8

(scale 1-10; high = more vulnerable)

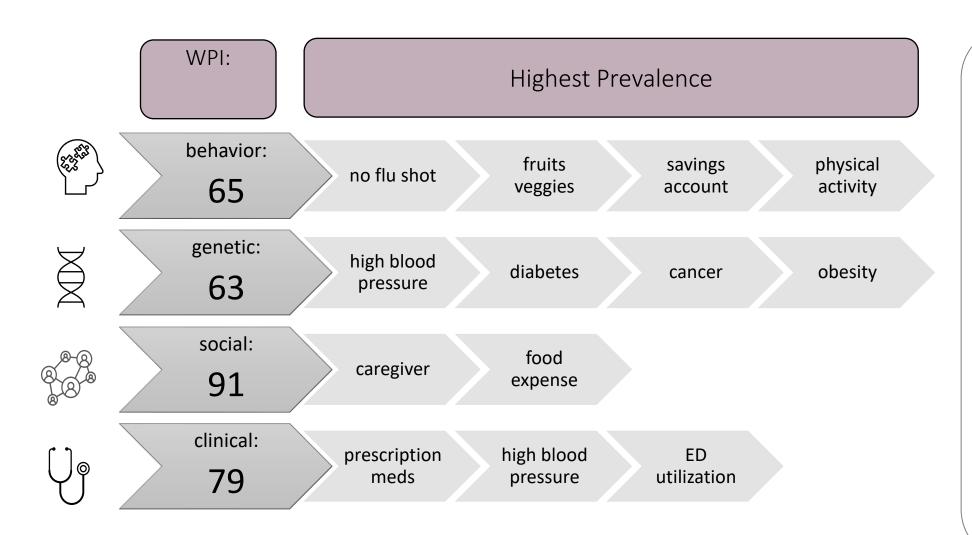
^{*}ADI is a national evaluation of a regions socioeconomic conditions linked to health outcomes

Whole Person Index: Individual



Whole Person Index: Population (N=2250)





A-HA Moments

diabetes family history: 64% diagnosed: 10%

cancer family history: 54% diagnosed: 6%

high blood pressure family history: 70% diagnosed: 20%

womens health High % female; over 40% of employees age 19-39

Whole Person Index: Community

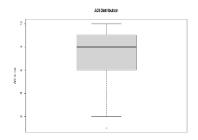
Definition: Area Deprivation Index (ADI): A ranking of neighborhoods by socioeconomic disadvantages in a region of interest. Informs Health Equity Benchmark Adjustment (HEBA)

ADI Range by Census Block:

Min: 1

Median: 8

Max: 10



Definition: **Community Health Needs Assessment (CHNA):** health assessment that identifies key health needs and issues through systematic, comprehensive data collection and analysis

County Top Priorities

- X Co: Substance Misuse; Healthy Living; Mental Health
- X Co: Physical Activity and Nutrition; Substance Abuse and Mental Health

Definition: **Healthcare Effectiveness Information Data Set (HEDIS):** Standardized measures to provide consumers information needed to assess health plan performance

Relevant Benchmarks

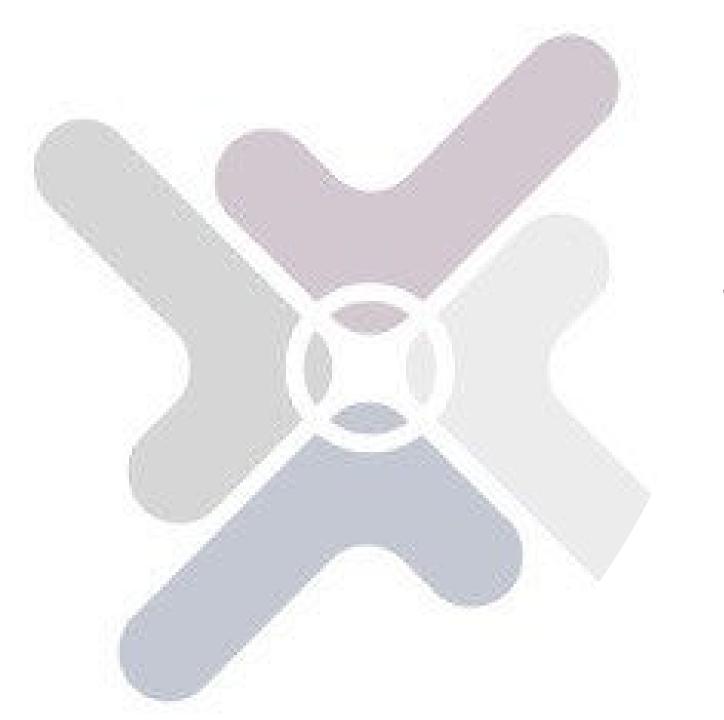
- Cancer Screening (Breast, Colorectal, Cervical)
- Depression Screening
- Diabetes Screening
- High Blood Pressure Management

Utilization Opportunities

- Prescription Drug Expense
- ED Utilization

WPI: Action Plan for Better Health

| Opportunity (Gap) | WPI Metric | baseline | Return on Investment | Action/ Accountable |
|--|---|----------------|---|---|
| HEDIS- quality benchmarks (cl) | diagnosed pop prescription meds | payer data | HEDIS compliance HEBA Utilization | payer |
| access to care (cl) | PCP/ dentist ED utilization | 86%/64% 31% | shift utilization | payer; health system; provider |
| vaccine/ preventive screenings (c,b,g) | flu shot genetic history | 68% (no) | prevent utilization preventive screen/ behavior | employee education/ adherence |
| nutrition (s, b) | food affordability & access eat fruits/ veggies | 28% 47% | absenteeism; turnover claims | community partnership/ access/ education |
| mental health(cl) | PHQ2/9 | 20% | absenteeism; turnover claims | payer; health system; provider |
| caregiver support | TBD | 28% | absenteeism; turnover | new space for innovation |



WPI: Case Study #2 Payer

Whole Person Index: Case Study

A New Mexico Medicaid retrospective cohort evaluating hemoglobin A1C attainment and associations with drivers of health

Goal: Utilize existing laboratory data to understand:

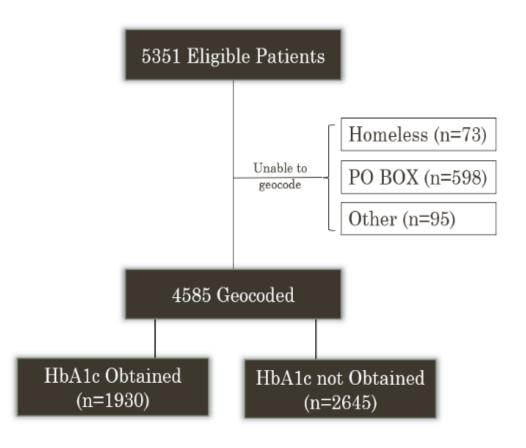
- Drivers of compliance with guidelines for care care
- Determine actions to close gaps to improve compliance
- Realize shared savings goals (\$3M)

Population:

- Schizophrenia and bipolar disorders; prevalence of diabetes is 2-3 x higher than general pop
- Diabetes presence or severity can be screened for with a hemoglobin A1c (HbA1c) lab test.

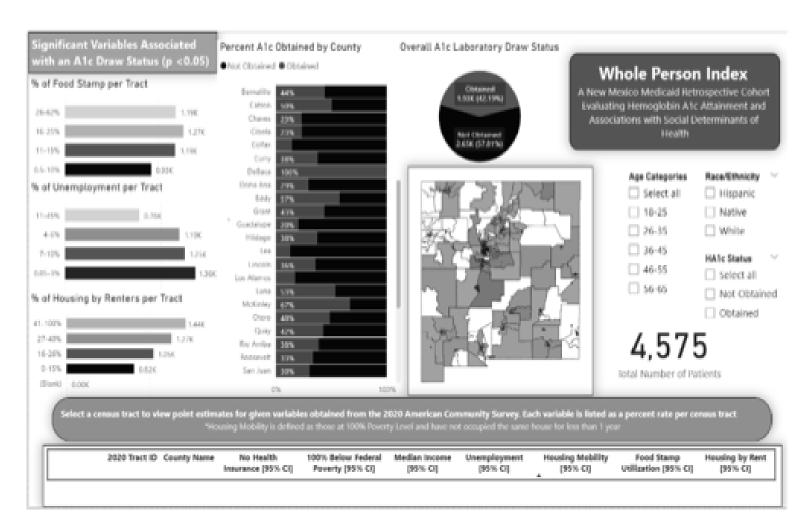
Inclusion Criteria:

- All Medicaid with a schizophrenia, schizoaffective disorder, or bipolar disorder ICD-10 code
- Full Year 2022
- Ages 18 and 64 years



Whole Person Index: Case Study

A New Mexico Medicaid retrospective cohort evaluating hemoglobin A1C attainment and associations with drivers of health



Key Findings for risk of missing HbA1c:

- Food stamp use rate between 27% and
 62% = 1.54 times greater risk
- Unemployment rates between 11%
 and 44% = 1.29 times greater risk

Value:

- Comprehensive care pathways to include
 A1c- decrease disease incidence
- Focus efforts for adherence on hot spot areas
 - partners to address drivers of health-SDoH (food/employment)
- Meet shared savings goal

CLINICAL ACTION PLATFORM Longitudinal lab results + metadata Clinical surveillance Risk stratification (comorbidities) Care gap identification 3. Analyze 4. Partner High risk identification Clinical Lab Community **Facilitated intervention** Prevention Improved out of OW does CL2.0 mitigat Cost/population clinical and financial risk? Pathology domain knowledge 2. Test 1. Engage Accuracy TAT (turn around time) Clinical Lab Consumer Test menu & test selection Activation 1.0 Test utilization Supply chain - cost/unit **Robust POCT** BMI - vitals **Uber Phlebotomy** Confidential TM Patent Pending

COMPREHENSIVE DATA DI ATEORM

- CLINICAL LAB 2.0
 - **Population Health**
 - Chronic Care Management
 - Quality & Safety
 - **Public Health**
 - **Health Policies**
 - Private/Public Partnerships
 - Public Health
 - Healthcare Providers
 - Pa rer/ ACO
 - Policy makers

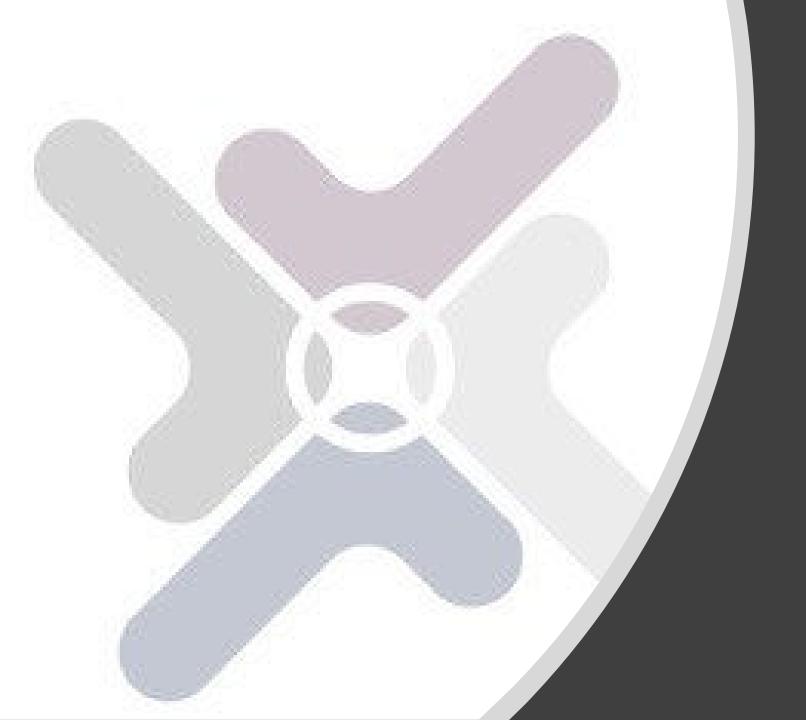
- Social determinants
- New models of care
 - · Improved access
- Consumer engagement
 - · Patient portal
 - · c-MPI (community master patient index)
 - · Shared decision-making
 - · Confidential, specific education
 - · Self-efficiency
- Facilitated care
- Facilitated intervention

Lab Leadership: CL 2.0 mitigates clinical and financial risk



- Understand all drivers and be the gateway for the person/ community health
- Design a standard set of labs to run depending on WPI results- focused on surveillance and early detection to prevent disease
 - individual
 - population
 - community
- Design new comprehensive care pathways
- Proactively identify high risk patient populations (moms, pre diabetic, flu/ Covid)

- Engage with payers on atrisk contracts to understand what tests to bundle and how to engage patients for compliance
- Provide longitudinal, trended data to support outcomes mgt and continuous improvement
- Take advantage of new revenue opportunities to provide clinical support + other drivers (i.e. SDoH)
- Access to appropriate genetic testing/ education



Discussion

References

https://health.gov/healthypeople/priority-areas/health-equity-healthy-people-2030

Kaiser Family Foundation, Beyond Health Care: The Role of Social Determinants in Promoting Health and Health Equity, 5/18

https://catalyst.nejm.org/doi/full/10.1056/CAT.23.0331

https://bipartisanpolicy.org/report/what-makes-us-healthy-vs-what-we-spend-on-being-healthy/

https://www.medicaleconomics.com/view/beyond-social-responsibility-the-missing-business-case-for-health-equity

https://www.ncbi.nlm.nih.gov/books/NBK11795/#:~:text=Among%20U.S.%20adults%2C%20more%20than,alcohol%20consumption%20(Willett%202002)

https://hbr.org/2023/10/the-business-case-for-love