

& VIVYO Group

# Al-Driven Analytics Driving Innovation in a Value-Based World

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#### Poll Question

- Value based contracts are NOT part of your strategic plan?
- Value based contracts are part of your strategic plan?
- Value based contracts are part of your strategic plan and you are currently engaging in VBC?

#### **FQHCs**



Largest Primary Care Network

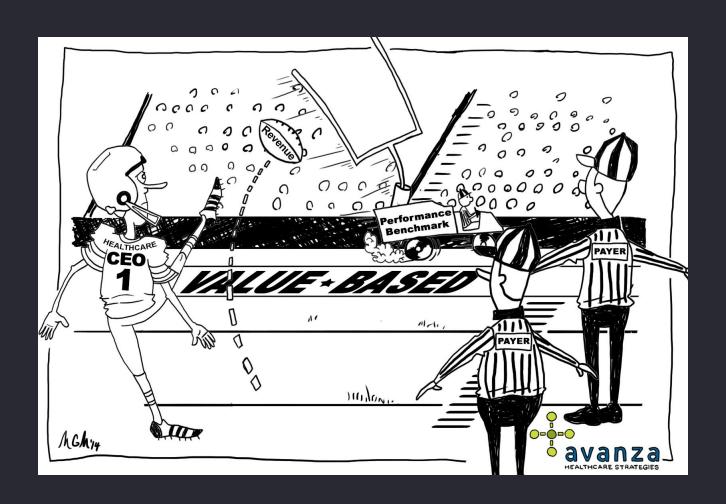


Primary Care Providers of Choice NOT Last Resort

# Charging Up for Value Based Care

- Use of SDOH and Population Health Data
- Care Management & Enabling Services
- Telehealth & Remote Patient Monitoring
- Understanding Gaps in Care





# DRIP, DRIP, DRIP....

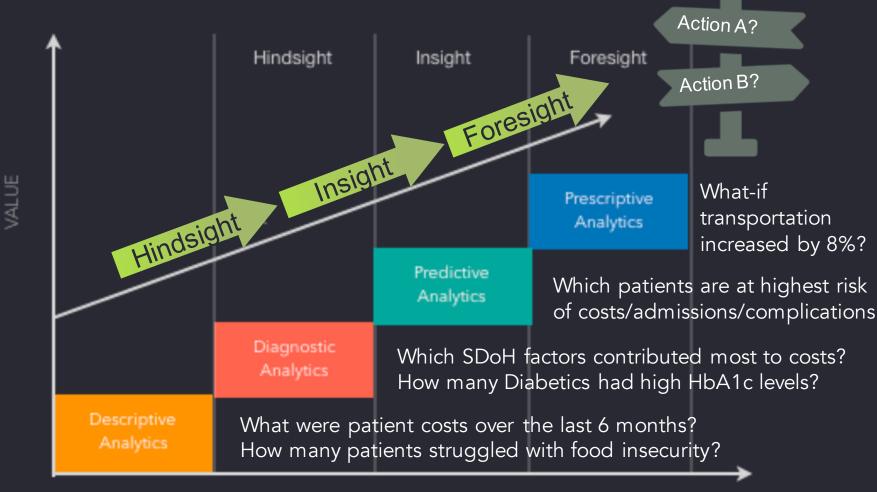
- Healthcare is...
- Data Rich Information Poor



"When automated data and decisionmaking tools are not built to expressly dismantle structural inequities, their speed and scale will intensify them."

Virginia Eubank

### Al within the Analytics Continuum



DIFFICULTY AND ANALYTIC COMPLEXITY

#### Al Analytics for Current Clients

- Quantify the true risk levels of clients served by FQHCs demographic, medical, behavioral and SDoH risks
- Develop value based contracts that incentivize the successful management of diverse risks
- Quantify the impact of care management services on risk and on cost savings
- Assist care coordinators/CHWs in identifying enabling services most likely to reduce risk and costs
- COVID patient risk tracking through AI-based remote monitoring

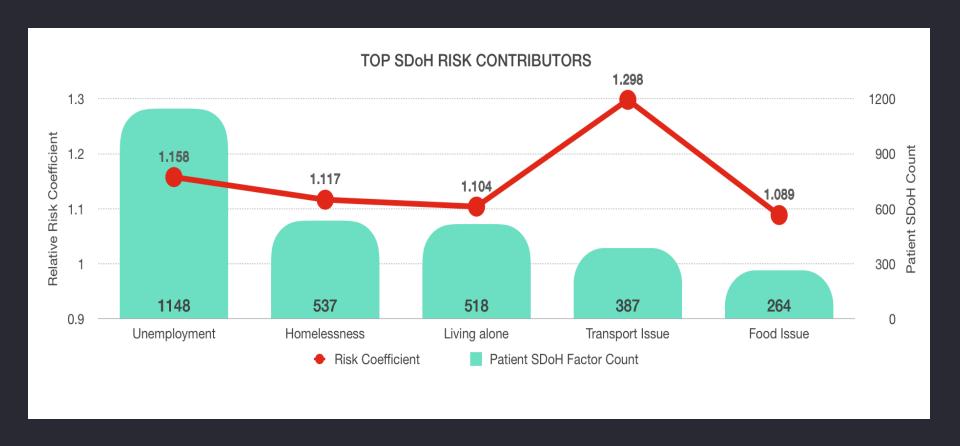
#### FQHC-Payer Partnership Model

- Collect and use SDoH, diagnostic and demographic data to develop a comprehensive risk and impact score for all patients
- Use this AI-based risk model to collaboratively identify a cohort for high-risk care coordination
- Develop PPS + value-based contracts with financial incentives for clinics to address social inequities, medical risks and reduce costs

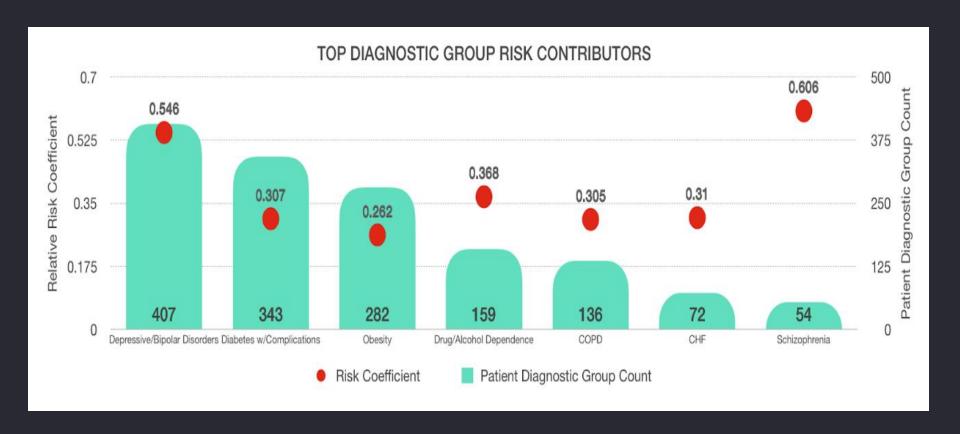
#### Value-Based Contract — 4 Features

- Address Fragmentation: Manage medical, behavioral and social needs in an integrated care model
- Fairness: Ensure equity within vulnerable, marginalized patients by addressing those with significant social risks
- Funding: Build adequate financial incentives for addressing complex care and support needs of high risk patients
- Focus: Targeted focus on marginalized communities and effective and impactful care enabling services

#### SDOH risk contributors

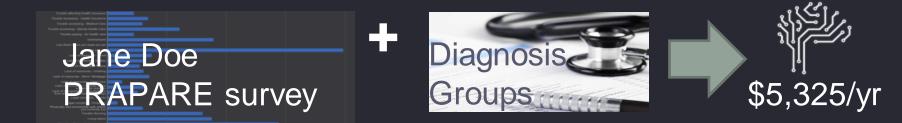


#### Medical risk contributors



#### SDoH + Diagnoses-Based Al Model

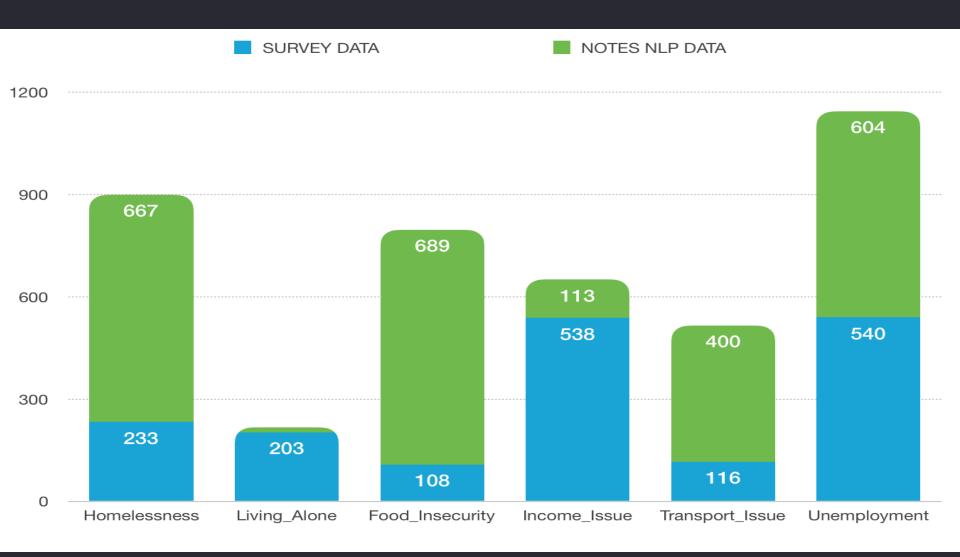
- True risk prediction needs both SDoH data and clinical data
- Best Al model combined 120 SDoH and 79 diagnosis groups



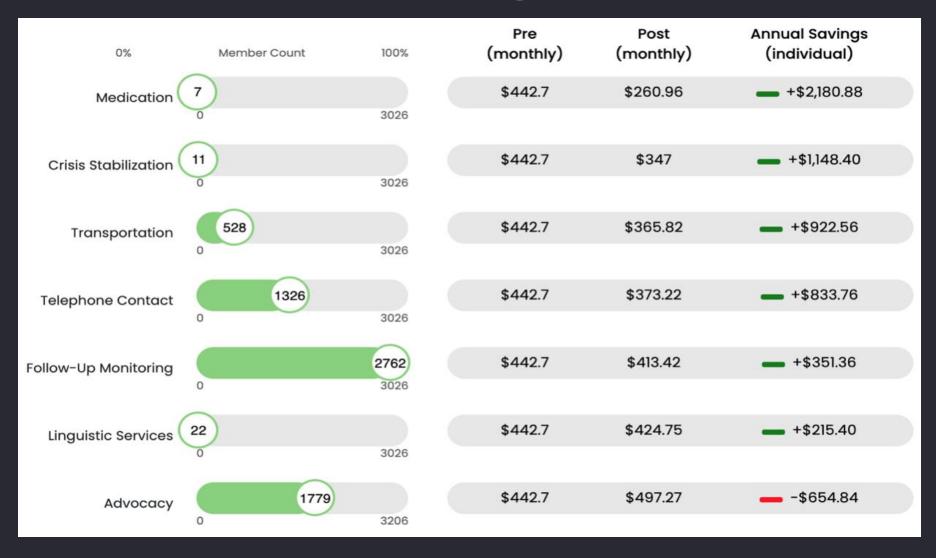
Prediction accuracy within 6.9% of actual, observed costs

- Combining SDoH data and Diagnosis groups, with claims data, increased complexity of the model - 54% more input variables (200+)
- Higher validity of this model but larger amount of training data needed to handle higher count of inputs
  - ... all models trained require careful validation

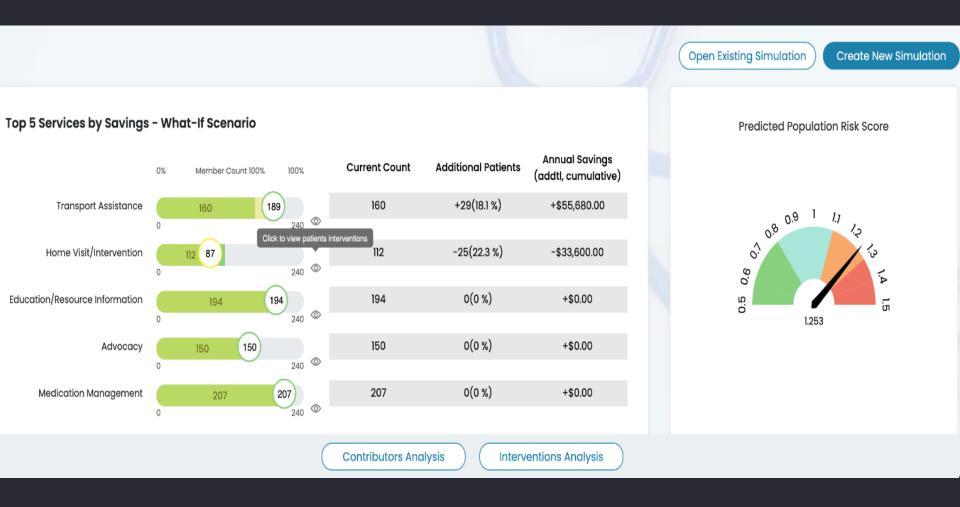
#### Data Gathering – SDoH Data through NLP



#### Impact of enabling services



#### Interventions "What If" Simulations



#### Value-Based Contract Case Study

- Value-based contracts implemented with 2 Health Plans on March 1, 2021
- Cohort populations of identified for each Health Plan
- Baseline risk levels and cost measured for cohorts for 2020
- Monthly claims combined with EMR data analyzed monthly to guide care coordination teams and monitor progress

#### Value-Based Contract Result

#### Baseline

#### Cohort size

- Total Attributed Health Plan A Members 15,069
- Health Plan A Value-Based Cohort 891

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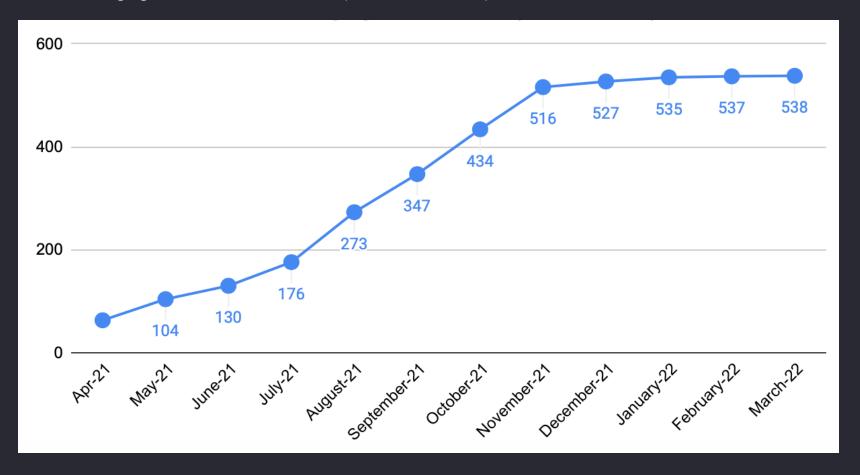
#### Baseline costs in 2020

- Health Plan A Total Annual Cost \$13,353,669
- Health Plan A PMPM cost \$1,248.9

(Cost results based on claims data provided monthly by health plans with health plan-specific IBN adjustments)

### Patient Engagement – Health Plan A

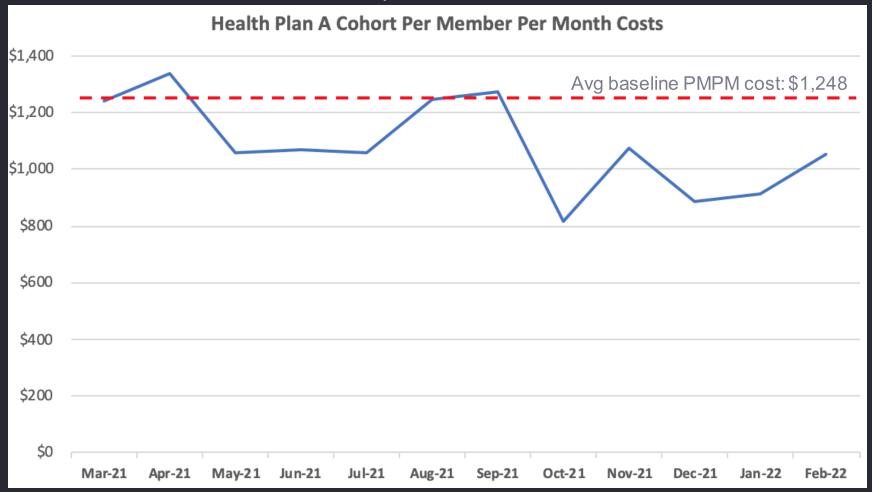
Patient Engagement Rate: 60.4% (538 out of 891)



#### Cohort PMPM Costs— Health Plan A

Baseline Period: Calendar Year 2020

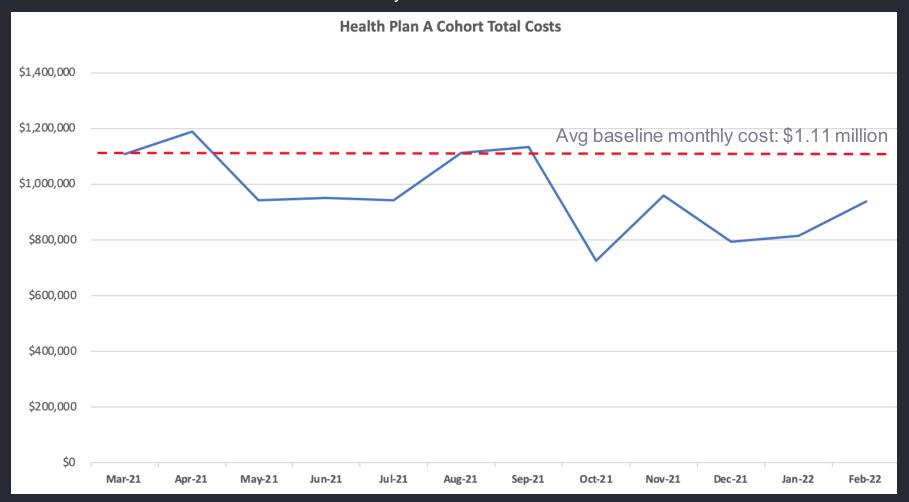
Measurement Period: March 2021 – February 2022



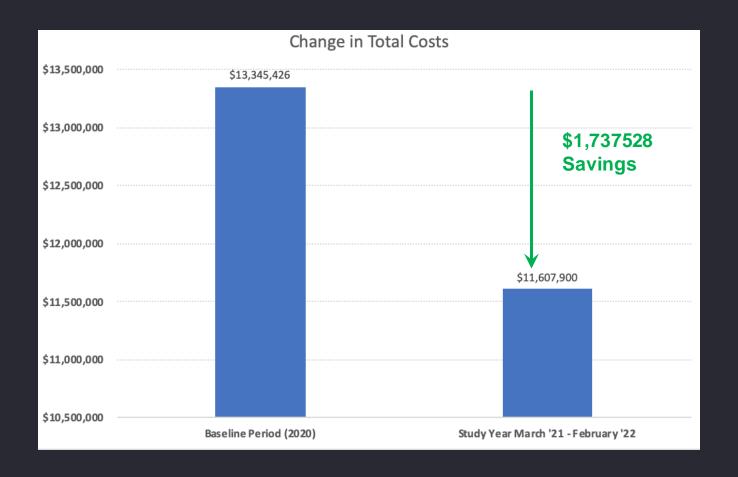
#### Cohort Total Costs - Health Plan A

Baseline Period: Calendar Year 2020

Measurement Period: March 2021 – February 2022



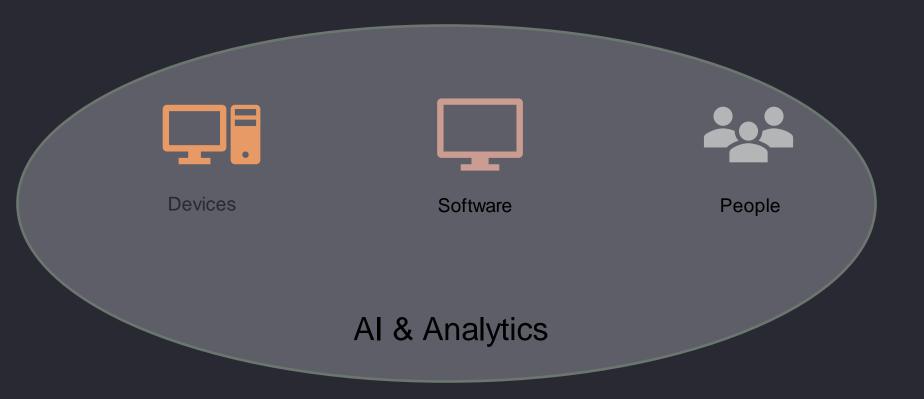
#### Cost Savings Health Plan A



### Health Plan A: High Impact Services

Key Enabling Services	Total Count
Advocacy	962
Crisis Stabilization	305
Follow-Up Monitoring	1728
Medication Assistance	190
Telephone Contact	3065
Transportation	106
Grand Total	6357

#### The RPM "Fantastic Four"



# Al Analytics in Remote Patient Monitoring



Accurate risk prediction and early warning metrics of rising risk



Reduced physician and nursing time requesting and reviewing health status information

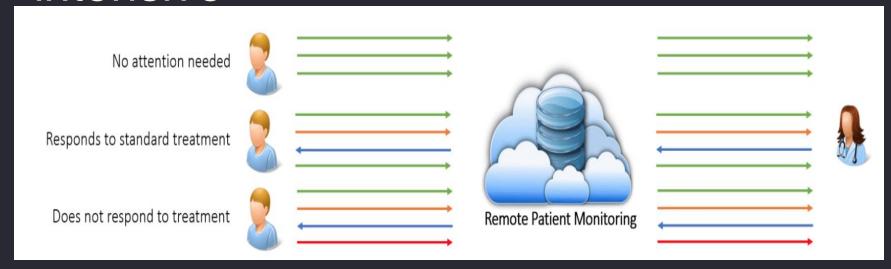


Algorithms and models that recognize risk patterns in large data sets



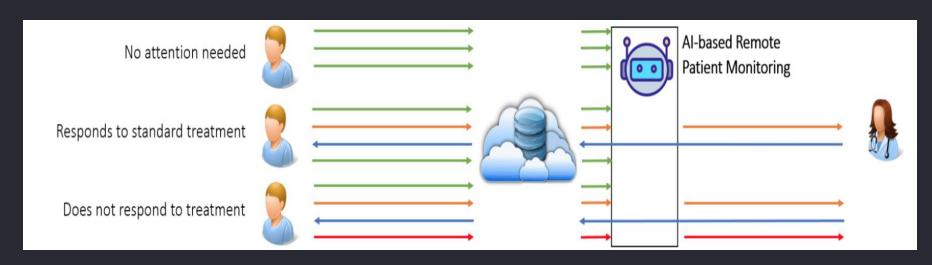
Increases engagement of patients in their own care and outcomes

# Current RPM Models – Provider review intensive





## Reducing provider burden through Aldriven RPM





## Charged Up for Full Risk

- Ability to use both medical, SDOH & RPM to predict & manage risk
- Use NLP to better identify key risk drivers and unstructured EMR notes data
- Impact Analysis: Ability to identify services that have the best impact
- AI/Analytics driving more effective and efficient RPM Programs

