

Challenges and opportunities facing digital health innovation for vulnerable populations



Andrey Ostrovsky MD
Co-Founder & CEO
andrey@careathand.com

1. Too much focus on doctors and hospitals
2. Moving target of reimbursement
3. Evidence gap for emerging innovations

Smart surveys that accurately predict hospitalizations
using observations of non-clinical workers

Survey library

Expert-informed,
Psychometrically validated,
Field tested

Risk
prediction
algorithms

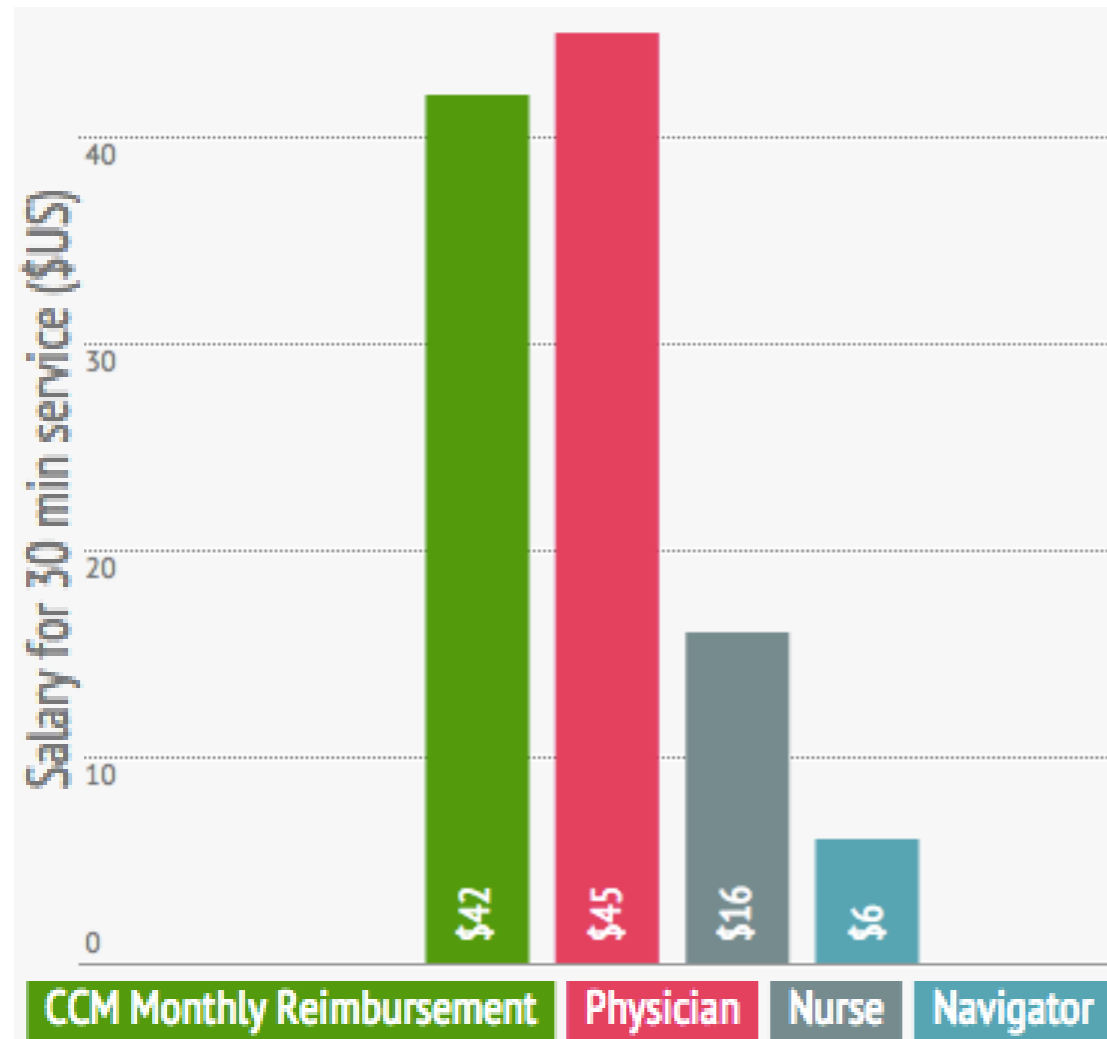
Evidence-based,
Statistically significant,
Inputs: non-clinical observations

Analytics

Must-have data with most
granular leading indicators
in the market

1. Savings are in the community not in the hospitals

Clinician-staffed approaches to reduce admissions are **not sustainable**



Example: Reimbursement & salaries for 30 min of chronic care management (CCM)

Trends contributing to lack of sustainability

Current risk prediction tools leave blind spot between doctor visits

Inability to target interventions to a specific patient

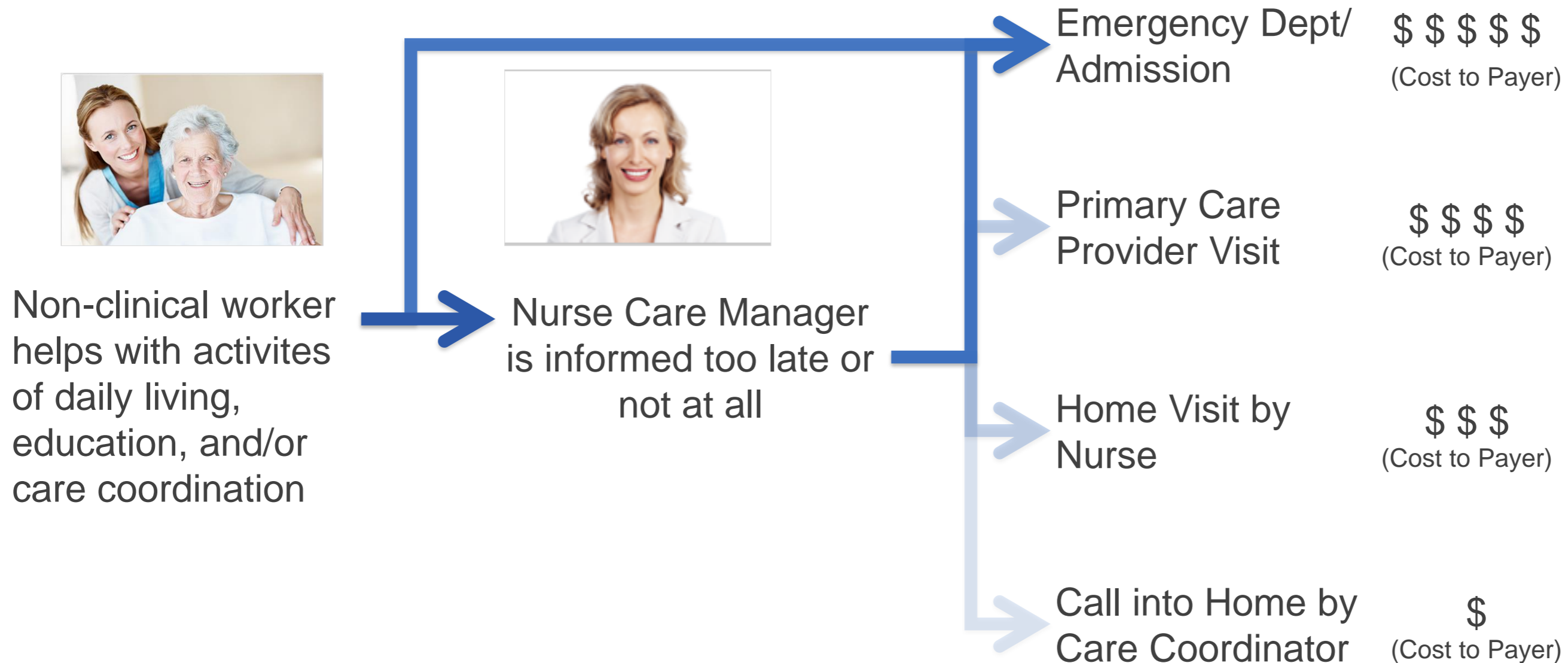
Quality measurement only limited to quarterly reporting

Physician and nursing workforce shortage

A Huge Missed Opportunity

Customers pay for and underutilize **5 million** non-clinical workers in attempting to reduce **\$250 BILLION** in avoidable costs

Current communication process:

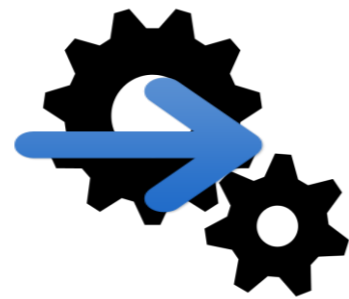


Digitizing the “hunch” of non-clinical workers to detect early decline

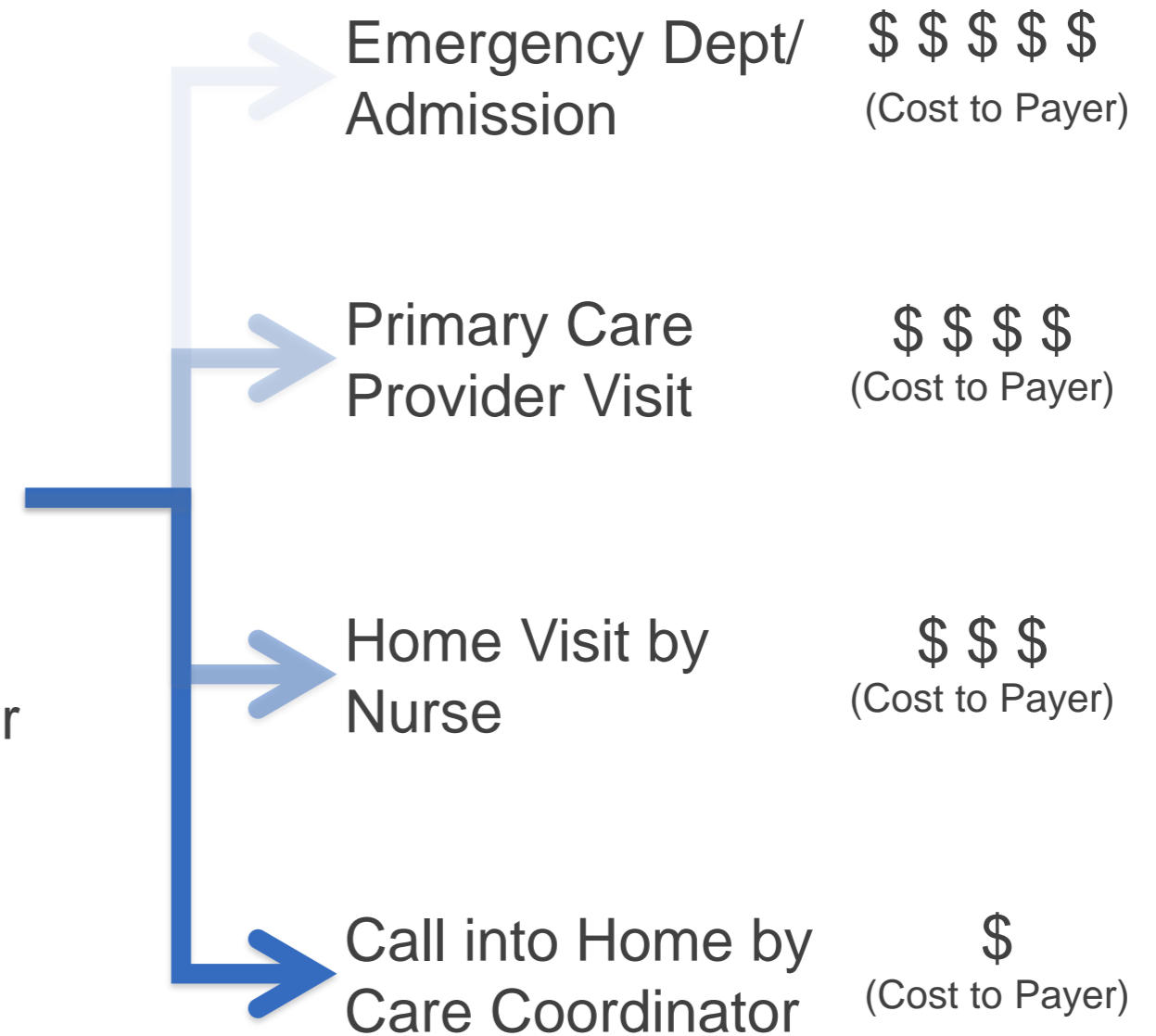
Care at Hand communication process:



Non-clinical worker completes survey



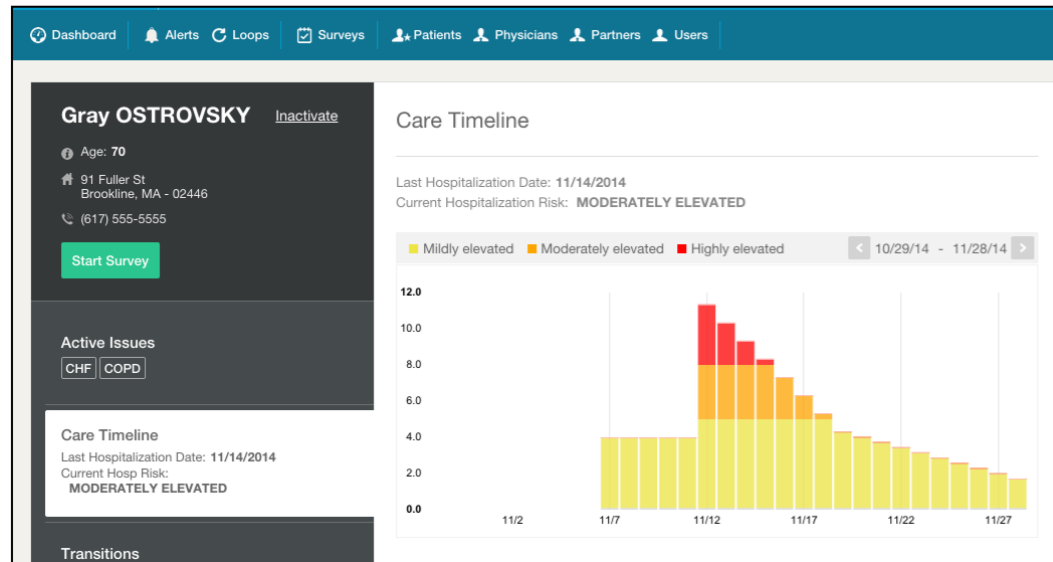
Nurse Care Manager receives alerts



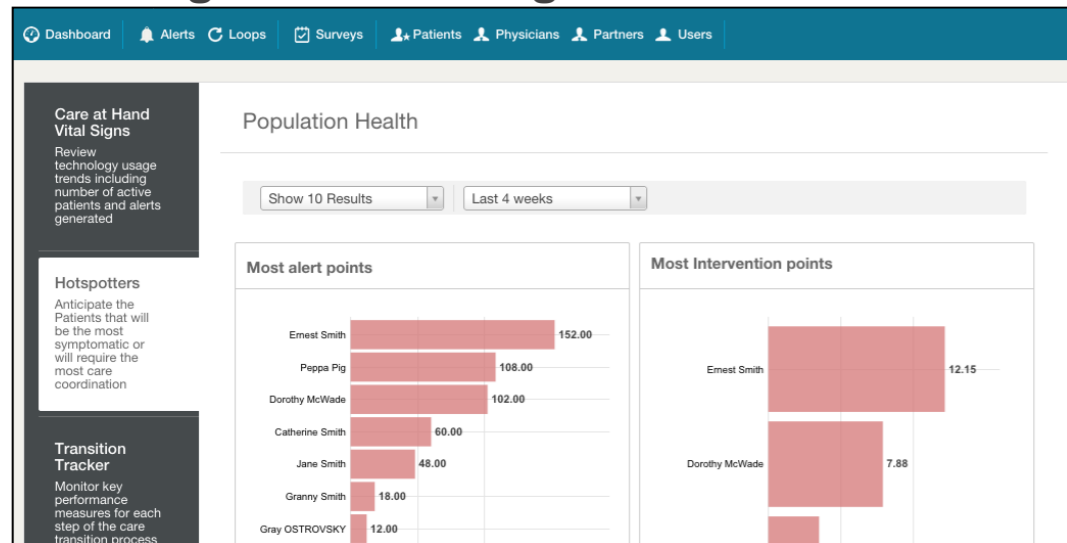
2. Using QI to hit the moving target of reimbursement

Analytics beyond the smart surveys to support QI

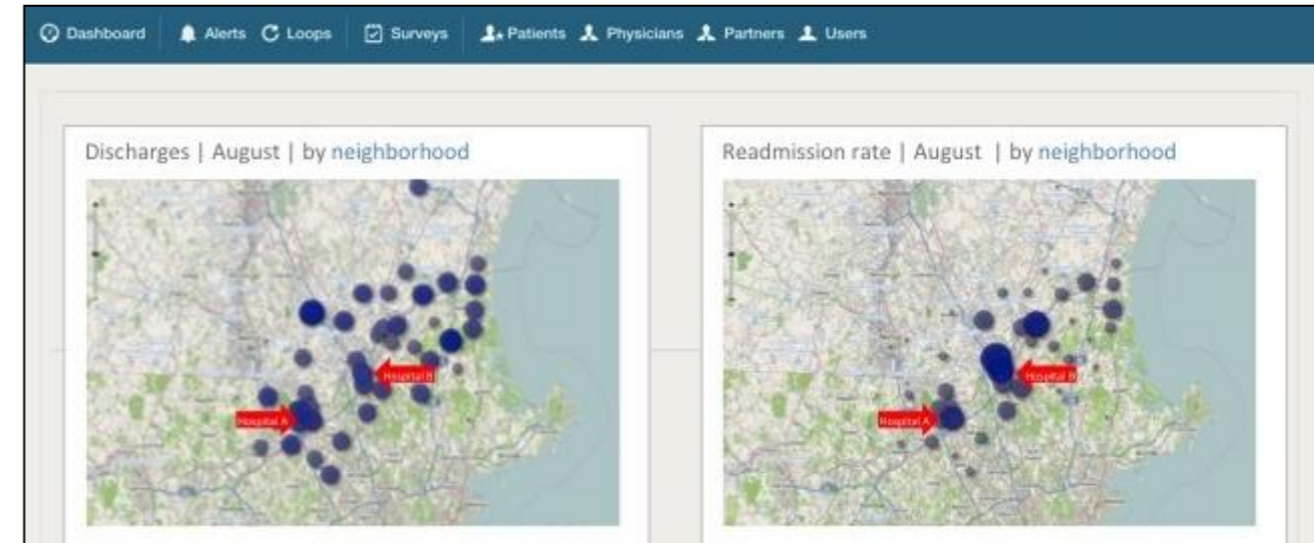
1 Continuous Risk Prediction **sheds light on admissions** in blind spot between doctor visits



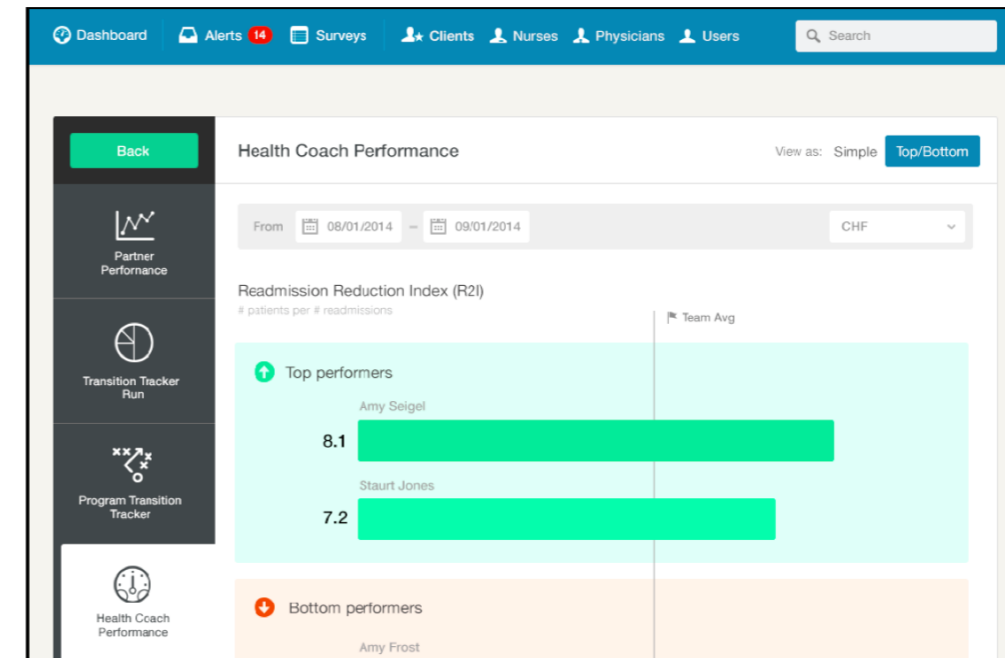
3 Quality measurement data offers must-have, **most granular leading indicators** in the market



2 Hotspotting enables **precisely targeted, more cost-effective, patient-centered interventions**



4 Workforce measurement and motivation **eliminates high turnover rates**

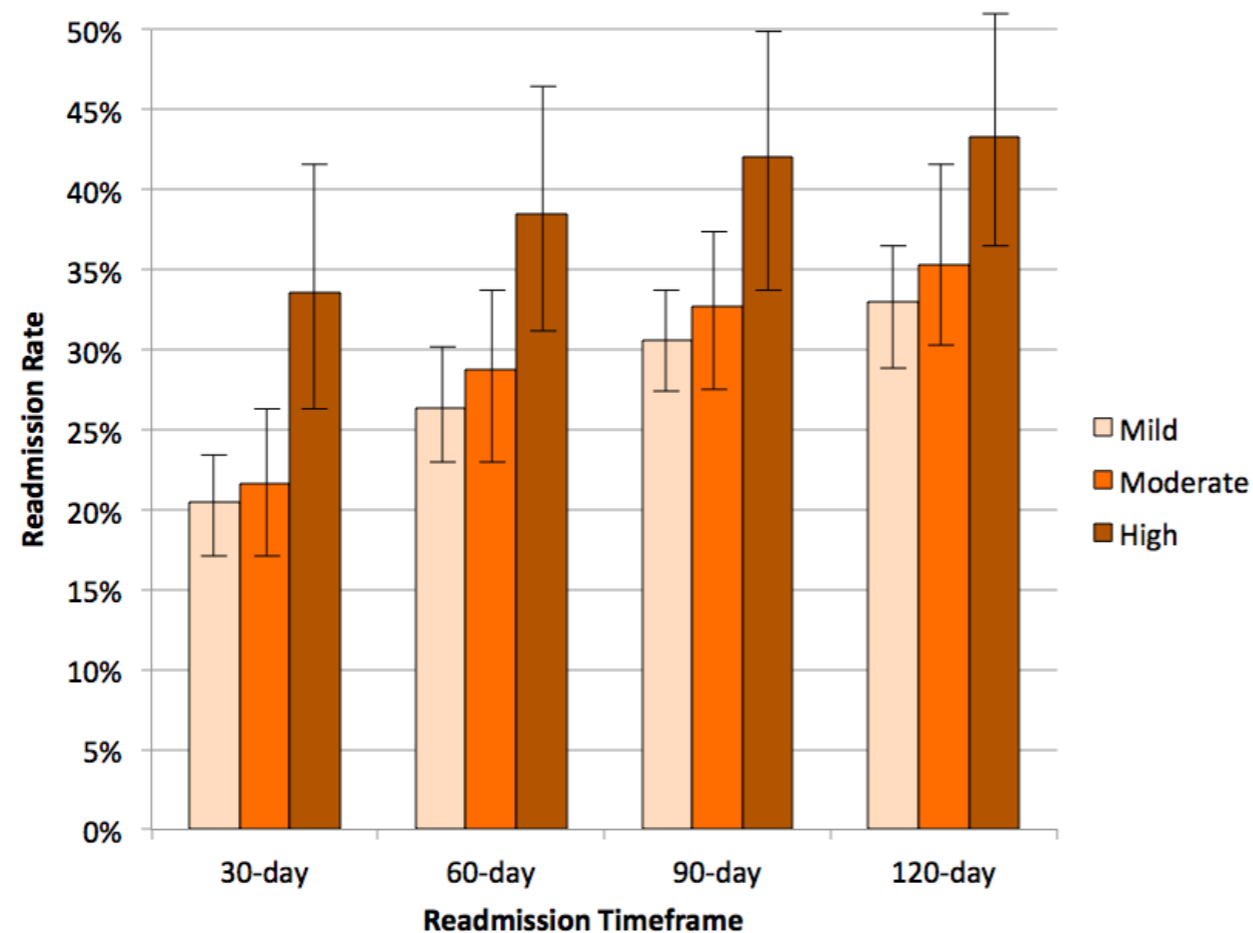


US Patent Serial
No. 61/936459

3. Closing evidence-gap for emerging innovations

Once rapid-cycle testing show traction, explore generalizability through research

Demonstrating new models



Showing results

▼ **39.6%**

30 day readmissions among at-risk patients eligible for health coach

▼ **\$109**

savings per member per month

AHRQ. Community-based Health Coaches and Care Coordinators Reduce Readmissions Using Information Technology to Identify and Support at-risk Medicare Patients After Discharge. Agency for Healthcare Research and Quality Healthcare Innovations Exchange. Rockville, MD. 2014

Ostrovsky A. Improving Community-Based Care Transitions with Technology – Decreasing cost and improving outcomes. HIMSS. Orlando, FL. 2014.

Ostrovsky A, O'Connor L, Handrus M et al. Predicting 30, 60, 90, and 120-day readmission risk among Medicare FFS patients using non-clinical workers and mobile technology. 2014. *In review.*

Ostrovsky A, Stacom R, Handrus M. Early detection of hospital admissions among a dually eligible populations with COPD and pressure ulcers using mobile technology. United Hospital Fund. 2014. *In review.*

Care at Hand

Analytics to make aging more human
and less health care

andrey@careathand.com