The Path to Equity in Healthcare

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Value-Based Care Done The Wrong Way



Incentivizing High Quality "Medical" Care

Intensifies Healthcare Disparities



Value-Based Care Done The Wrong Way

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ORIGINAL RESEARCH | 20 FEBRUARY 2018

The Value-Based Payment Modifier: Program Outcomes and Implications for Disparities

Eric T. Roberts, PhD; Alan M. Zaslavsky, PhD; J. Michael McWilliams, MD, PhD

- Medicare's Value-Based Payment Modifier program (replaced now by MIPS)
 - performance differences as large as 67% could be explained by patient differences
 - disincentivized physicians who treated sicker, poorer patients
 - rewarded practices treating richer healthier populations.
- "As long as these programs do not account adequately for patient differences, which is very difficult to do, they will further deprive practices serving low-income populations of important resources." -- Eric T. Roberts

Healthcare disparities are SDoH in-action



Source: http://www.countyhealthrankings.org/what-is-health

Value-Based Care Done The Right Way



Incentivizing Risk Adjusted Performance



In 2013

RESEARCH SYNTHESIS REPORT NO. 25 JULY 2013

Eric Schone, Ph.D. and Randall S. Brown, Ph.D. Mathematica Policy Research

Risk Adjustment: What is the current state of the art, and how can it be improved?

- Predicted less than <20% of the variation in patient cost.
- Predicted >90% of the average (predictive ratio)

Table 2: Comparison of risk-adjustment tools from the 2007 SOA study

Tool	As offered	100K truncation	250K truncation	Recalibrated + 250K truncation	Prior Costs + 250K truncation	Concurrent +250K truncation
R-square (%)						
ACGs	16.2	20.8	19.2	19.6	23.0	31.5
CDPS	12.4	17.6	14.9	17.7	24.6	36.8
CRGs	14.9	19.3	17.5		20.5	
DCGs ¹	17.4	22.3	20.6	21.3	26.5	54.5
RxGroups	16.8	23.8	20.4	20.5	27.1	36.9
PRGs	17.2	25.0	20.5	21.2	27.4	
Medicaid Rx	12.9	19.3	15.8	17.7	26.3	31.0
Impact PRO	21.3	26.3	24.4	25.6	27.2	
ERGs	16.2	23.7	19.7	20.0	26.5	43.3



- Implications of poor R^2 control but good predictive ratio
 - Good Equity if sample size is large (e.g., MAOs)
 - Bad Equity if sample size is small (e.g., small practices)

- In 2017, CMS updated the way they risk adjusted Part C payments for Medicare beneficiaries.
 - Went from 4 models to 9 to better capture variance observed in populations with limited resources (medi-medi)
 - The model previously underestimated costs by 4.3% for Duals and overestimated costs by 1.5% for Non-duals.
- In 2018, CMS proposed to further enhance its risk models to better adjust for Mental Health and Substance Abuse disorders.

Table II-5. Predictive Ratios for Community Population, 2014 Model

FFS population	1.000
Non-dual	1.015
Dual	0.957
Full benefit duals	0.914
Partial benefit duals	1.092

Notes: Predictive ratios are the ratio of predicted cost to actual cost for the applicable subgroup. Dual status is defined in the payment year. Source: RTI International analysis of 2010-2011 Medicare 100% data.

MassHealth Risk Adjustment Model Social Determinants of Health

Executive Office of Health & Human Services

October 14, 2016

- In 2016, Massachusetts began using a enhanced DCG (HCC) model to set Medicaid capitation rates for its MCOs.
 - Added features for unstable housing and neighborhood stress.
 - Showed 10% improvement in predicting prospective payments (R² ~ 38%)

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Medicaid and Social Determinants of Health: Adjusting Payment and Measuring Health Outcomes



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- Other States like Minnesota are taking aggressive steps
 - Amassed large data set of SDoH and Outcomes
 - Will be proposing better incentive models like Massachusetts

Prepared by Ellen Breslin and Anissa Lambertino of Health Management Associates in partnership with Dennis Heaphy of the Disability Policy Consortium and Tony Dreyfus.

Use Census Data with Grain of Salt

Assessing the capacity of social determinants of health data to augment predictive models identifying patients in need of wraparound social services @

Suranga N Kasthurirathne 📼, Joshua R Vest, Nir Menachemi, Paul K Halverson, Shaun J Grannis

Journal of the American Medical Informatics Association, Volume 25, Issue 1, 1 January 2018, Pages 47–53, https://doi.org/10.1093/jamia/ocx130

Published: 21 November 2017 Article history -

- Predicting Referrals for Social Services
 - 84,317 adult patients (≥18 years old)
 - Visits between 2011 and 2016 at Eskenazi Health, the public safety-net health system of Marion County in Indianapolis, Indiana, comprising a hospital and several federally qualified health center sites
 - Achieved <73% Precision and >67%
 Recall using just tobacco use, Dx, Race & Ethnicity, & frequency of encounters
 - Was no better with SDoH data from census-tract level data



Call for Action

• Today

- Be sensitive to not apply upstream incentives directly downstream
 - May intensify inequity
- Incentivize Screenings for SDoH
 - Leverage tools to automatically structure screening responses
- Risk Adjust Value-Based Performance

- Tomorrow
 - Achieve Better Health Outcomes and Equity
 - Continue to Calibrate Risk Adjustment methodology for your corner of the world (health system)

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