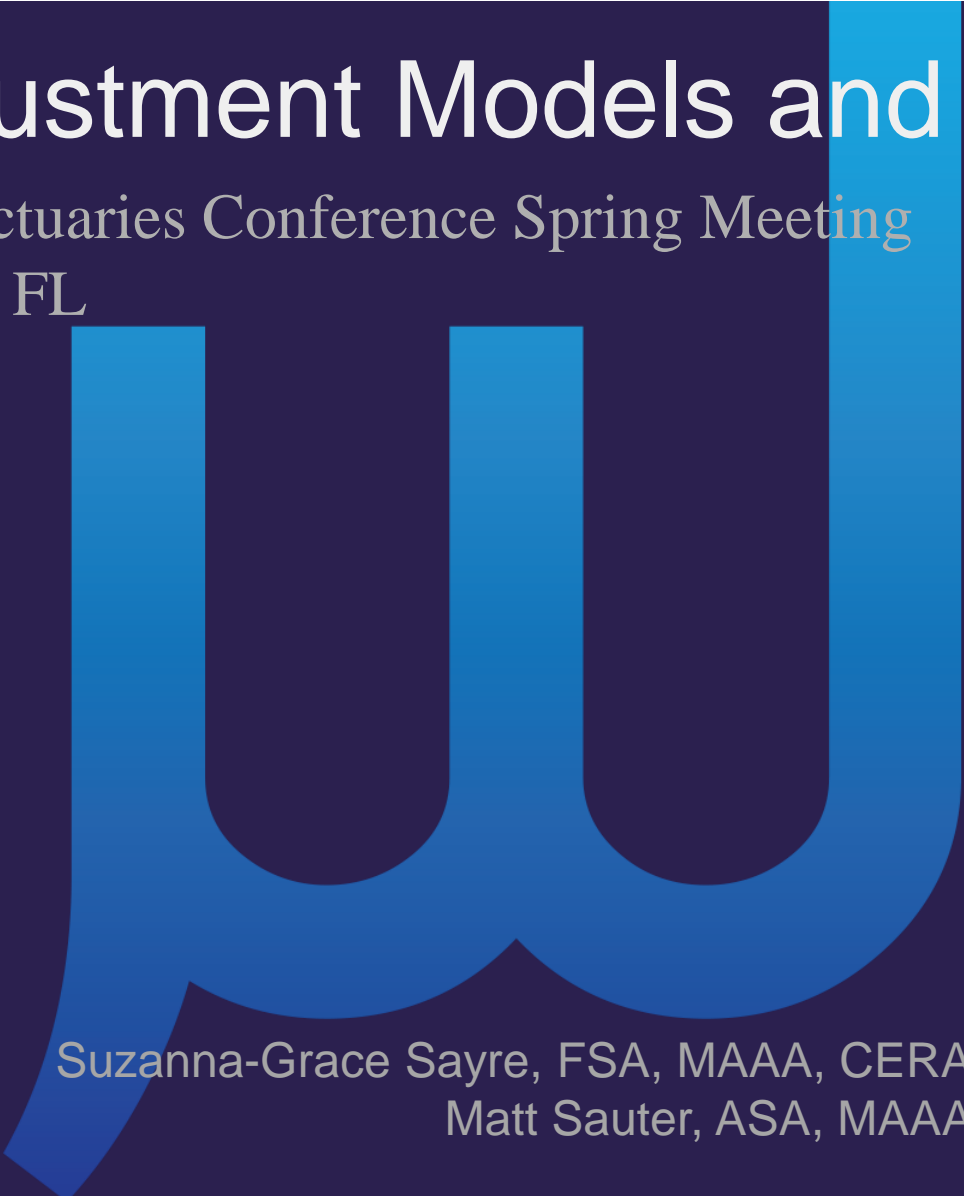


Risk Adjustment Models and Uses

Southeastern Actuaries Conference Spring Meeting

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A large, stylized blue Greek letter mu (μ) symbol that serves as a background element for the presentation title and presenter information.

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Risk Adjustment Poll

How many of you have worked with risk adjustment models before?

Risk Adjustment Poll

Which risk adjustment model are you most familiar with?

- A. Medicare
- B. Medicaid
- C. ACA (Commercial)
- D. Other

Risk Adjustment Poll

Are you involved in any revenue management activities that use Risk Adjustment?

Examples include risk-adjustment reporting, forecasting risk scores, etc.

Overview of Risk Adjustment

- Process by which health plans are reimbursed based on the health status of their members
 - Typically based on ICD-10 diagnoses coding
 - ACA models also use prescription information, relying on NDEs
- Implemented to pay plans more accurately for the predicted health costs of their members
 - Payments based on demographics as well as health diagnoses
- Payment models do not use diagnoses codes reported from all sources
 - Only encounters from acceptable physicians (professional) or acceptable facilities (inpatient/outpatient) are allowed

Medicare Risk Adjustment Model

- Prospective model
 - Diagnoses from the current year inform risk scores and payments in the following year
- Typically a 25 month claim submission window
 - Submission period has been extended for payment year 2017
- Plans submit diagnoses through two different methods
 - Risk Adjustment Processing System (RAPS)
 - Encounter Data System (EDS)
- Separate models for MA and Part D
 - MA model has different factors for low-income (Duals), institutional, ESRD, and new enrollees
 - Part D model has different factors for low income (LIS), institutional, and new enrollees
- Risk Adjustment Data Validation Audits (RADV)
 - Performed by CMS to validate the diagnoses submitted by health plans for payment

Medicaid Risk Adjustment Model

- Risk models and weights vary by state
- Concurrent, Prospective
- Models include: CDPS, CDPS+Rx, ACG, ERG
- Different models for Disabled, Adults, and Children
- Uses encounter data
- Risk adjustment is key part of revenue management

Commercial ACA Risk Adjustment Model

- Model Overview
 - Concurrent model
 - Demo, Dx and Rx in 2018 model and forward
- Model notes and changes
 - Rx began in 2018
 - Different completion patterns?
 - Shift in relative risk?
 - Commercial data (1/3) blended with large group (2/3) to create 2018 risk weights. All commercial by 2020.
 - RADV
 - 2019 Model

Other Risk Adjustment Models

- Adjusted Clinical Groups (ACGs)
 - Developed by Johns Hopkins
 - 4 states use the ACG system for their Medicaid program
- Diagnostic Cost Groups (DxCG)
 - Developed by researchers at Boston University
 - Used by many health plans and provider groups to settle reimbursement arrangements
- Other population risk models
 - Wakely Risk Assessment Model (WRA)
 - Milliman Advanced Risk Adjusters (MARA)

Other Uses for Risk Adjustment

- Pricing
- Member-level profitability analysis
- Financial reporting
- 1332 waiver activity
- High-risk member identification
- Provider risk-sharing arrangements
- Benefit uniformity flexibility

Questions?