

Use of Health Surveys to Improve Risk Adjustment in Medicare Advantage

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Issues with MA risk adjustment

- \$↑ Plans that report additional and more severe diagnoses for enrollees are paid more
- 🗑️ Changes in health service utilization rates have not been consistent with increased coding intensity (**Upcoding**)

Proposed solutions we tested

- 1) Calculate Hierarchical Condition Category (HCC) scores excluding diagnosis codes from health risk assessments (HRAs) and chart reviews
- 2) Use pharmaceutical claims alone (e.g., John's Hopkins Adjusted Clinical Groups (ACG) scores)
- 3) Use self-reported health survey responses

Sample & Data Sources

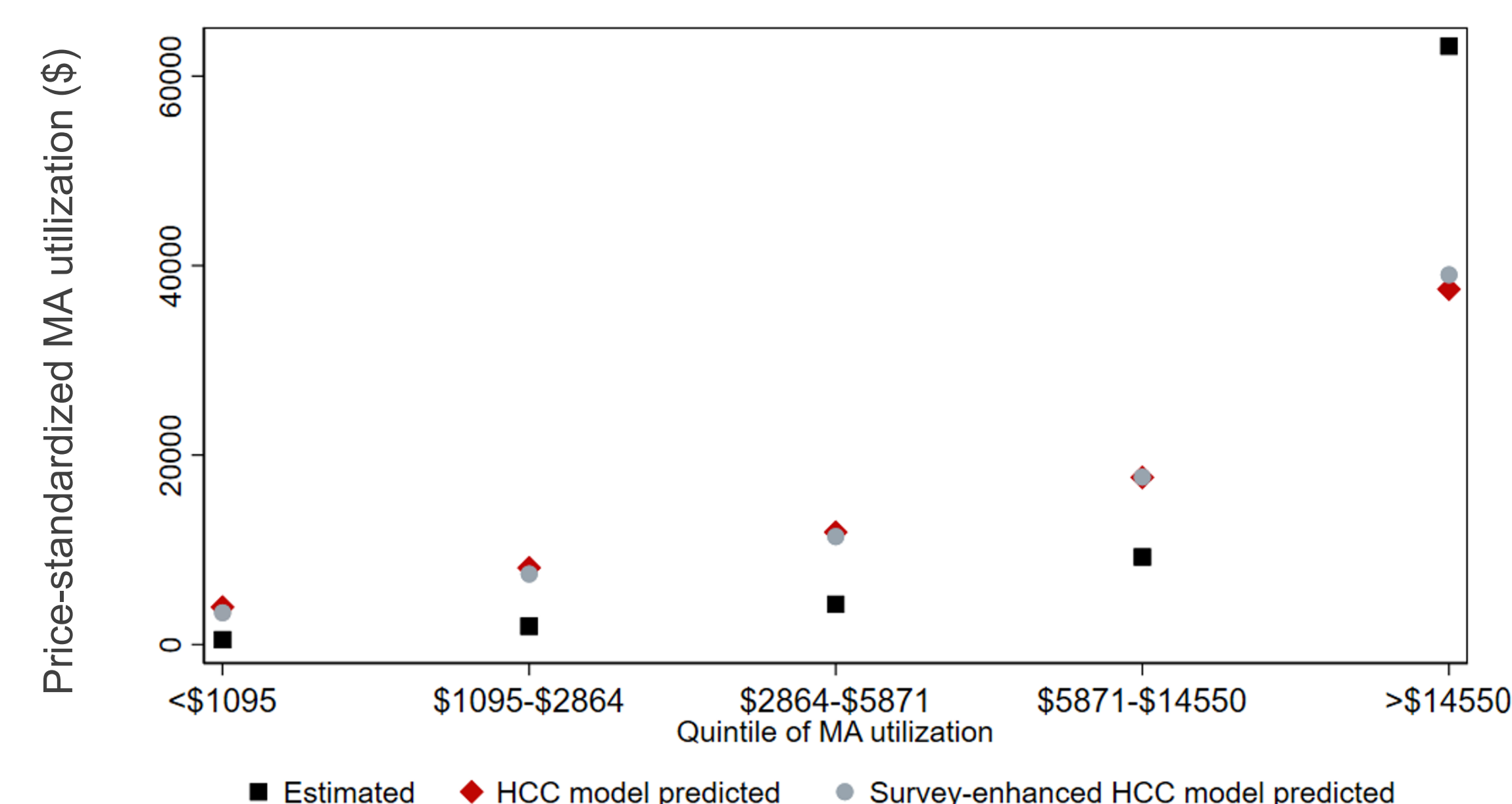
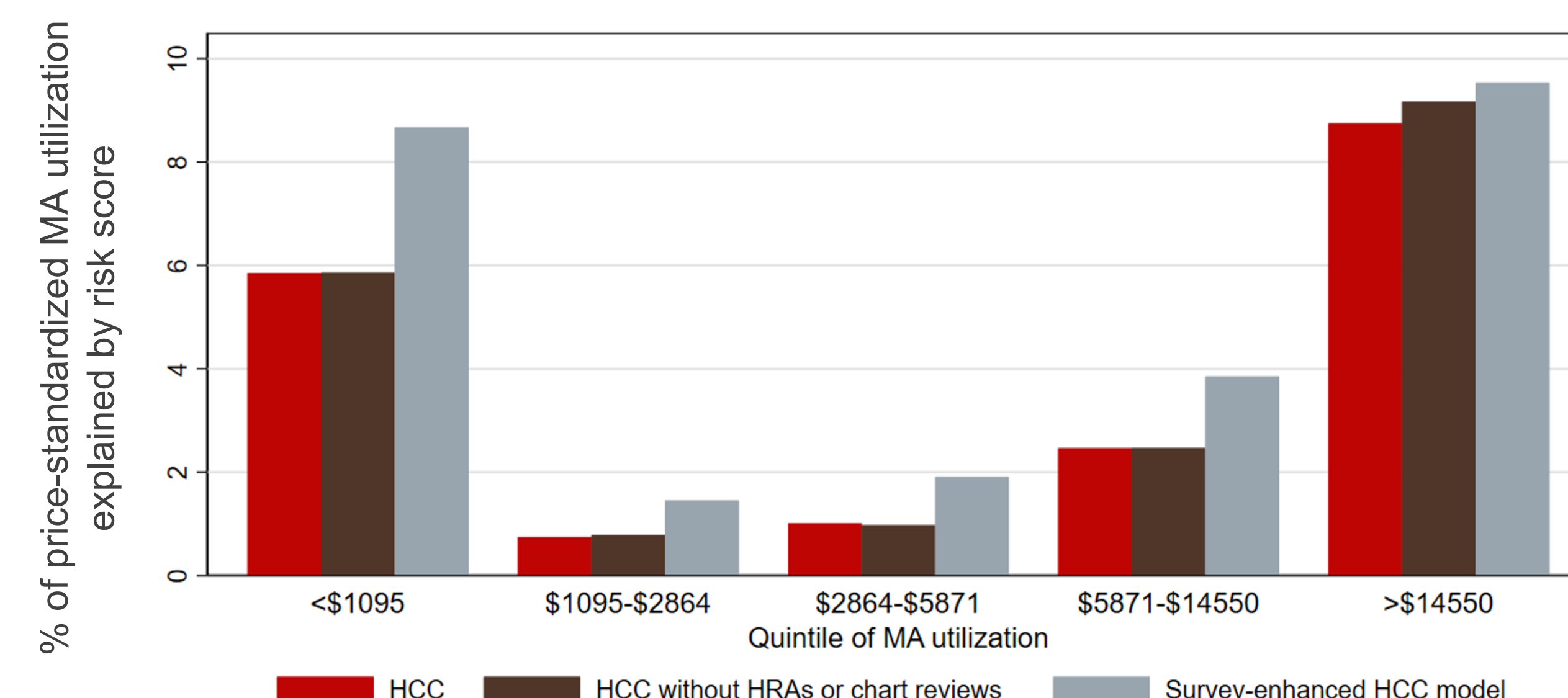
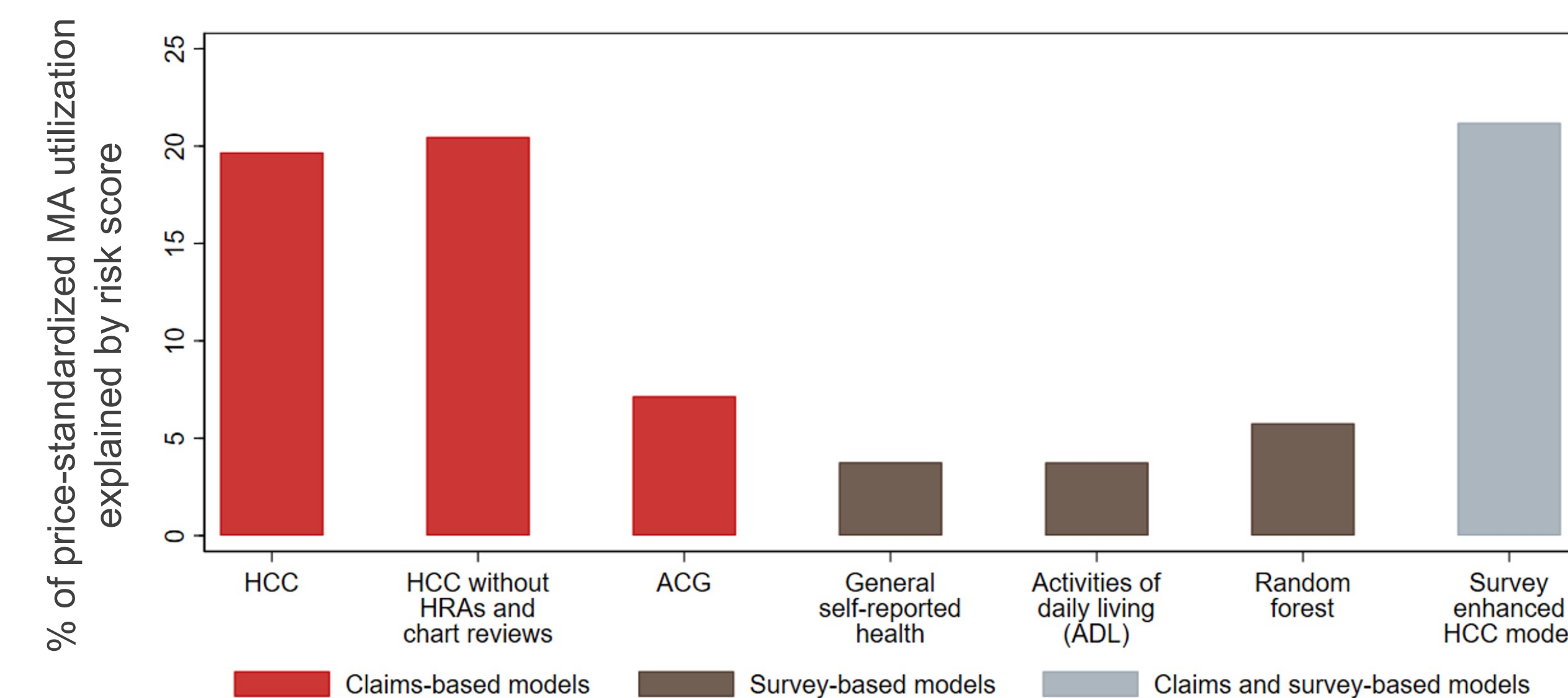
151,437 MA enrollees who completed a **cahps** survey between **2016-2019** linked to a 20% random national sample of MA encounter records

(also tested Health Outcomes Survey)

Price-standardized MA utilization (\$)

Used TM claims to approximate annual MA plan spending on inpatient, outpatient, physician, skilled nursing facility, home health, hospice, and part D medications. Assessed risk score performance using R^2 values from logistic regression models.

Key findings & policy implications



- 1) Diagnoses from HRAs and chart reviews can be excluded from **CMS-HCC models** to reduce risk score inflation without interfering with the ability of models to predict annual MA utilization
- 2) Adding **CAHPS survey items improves performance**, particularly in the lowest and highest quintiles of MA utilization
- 3) In the lowest quintile, the survey-enhanced model reduced predicted utilization relative to standard HCC scores = **surveys could be used to suppress risk score inflation**
- 4) In the highest quintile, the survey-enhanced model increased predicted utilization relative to standard HCC scores = **surveys could be used to identify plans covering higher need enrollees**

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