Supplementary Online Content

Farmer SA, Darling ML, George M, Casale PN, Hagan E, McClellan MB. Existing and emerging payment and delivery reforms in cardiology. *JAMA Cardiol*. Published online November 16, 2016. doi:10.1001/jamacardio.2016.3965

eFigure 1. Estimated Cardiologist Participation and Performance in the Merit-Based Payment System.

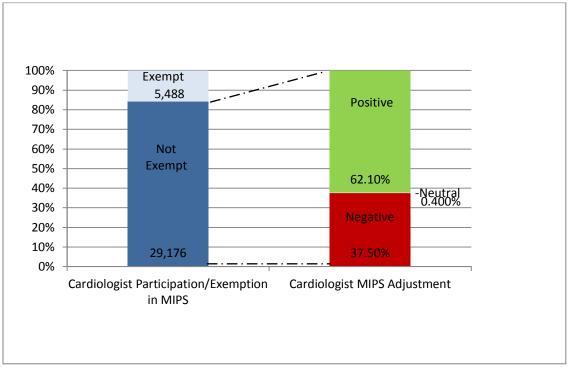
eFigure 2. Timeline of Positive and Negative Fee Schedule Adjustments in Medicare.

eFigure 3. Bundled Payments Allow Greater Clinical Autonomy and Are Intended to Reduce Waste.

eAppendix. Glossary of Terms.

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1: Estimated Cardiologist Participation and Performance in the Merit-Based Incentive Payment System



Source: Data taken from estimates included in the MACRA Proposed Rule released April 27, 2016. https://s3.amazonaws.com/public-inspection.federalregister.gov/2016-10032.pdf Legend:

Acronyms: MIPS, Merit-Based Incentive Payment System

Light Blue – Cardiologist exempt from MIPS participation

Dark Blue - Cardiologists not exempt from MIPS participation

Green - Among participating cardiologists, those estimated to receive a positive MIPS adjustment

Grey - Among participating cardiologists, those estimated to receive no MIPS adjustment

Red – Among participating cardiologists, those estimated to receive a negative MIPS adjustment

eFigure 2: Timeline of Positive and Negative Fee Schedule Adjustments in Medicare

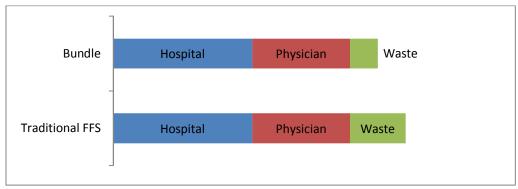
u.	2015	2016	2017	2018	2019	2020	2021	2022+
PQRS+VM+MU Adjustments (combined)	~+ 5% 3.5%	TBD - 6%	TBD -9%	TBD -10% or more	PQRS+Value Modifier+Meaningful Use Replaced by MIPS			
MIPS Bonus/Penalty (max)					+4%* -4%	+5%* -5%	+7%* -7%	+9%* -9%
APM Bonus^					+5%	+5%	+5%	+5%

^{*} May be increased by up to 3 times to incentivize performance \$500 mil funding for additional "exceptional performance" bonuses allocated through 2024

Acronyms: PQRS, Physician Quality Reporting System; VM, Value-Based Payment Modifier; MU, Meaningful Use; TBD, To Be Determined; MIPS, Merit-Based Incentive Payment System; APM, Alternative Payment Model

[^] APM Bonus funded through 2024

eFigure 3: Bundled payments allow greater clinical autonomy and are intended to reduce waste.



Acronyms - FFS, fee for service

Blue - Hospital Payment

Red - Physician Payment

Green – Waste

eAppendix: Glossary of Terms

Accountable Care Organization (ACO) – groups of doctors, hospitals, and other healthcare providers, who come together voluntarily to give coordinated high quality care

Alternative Payment Model (APM) – A payment model alternative to fee for service that incorporates accountability for costs and quality

Bundled payment – A payment model that aggregates payment for all services included in a defined procedure or episode of care

Fee for Service – A form of payment that provides set reimbursement amounts for defined services

Health System-led ACO – An ACO that is organized and led by a health system and may include additional physician practices

Hospital Readmissions Reduction Program (HRRP) – A Medicare incentive program that reduces payment to hospitals with higher than expected readmission rates

Meaningful Use – A Medicare incentive payment program for advanced use of electronic health records

Merit-Based Incentive Payment System (MIPS) – A new Medicare payment incentive program established by the MACRA legislation that adjusts physician payments based on a composite performance measure

Non-risk bearing – A payment model without penalties if performance fails to meet benchmarks

Pay for Performance – Incentive programs that adjust payments based on specified quality or efficiency metrics

Physician-led ACO – An ACO that is organized and led by a large physician practice or group of physician practices

Population-based Payment— A payment model that links payment to performance on population-based measures of cost or quality

Physician Quality Reporting System (PQRS) – A Medicare physician incentive program that adjusts physician reimbursement based upon quality measure performance

 $\label{eq:risk-approx} \textbf{Risk bearing/Downside risk} - A \text{ payment model where providers are at financial risk for costs} \\ \text{that exceed an agreed benchmark}$

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Shared Savings – A payment model where providers may receive a portion of savings if costs are lower than expected

Sustainable Growth Rate (SGR) – A now obsolete method of updating Medicare's physician fee schedule based on changes to the U.S economic environment

Value-based Payment Modifier – A Medicare incentive payment program that adjusts payments based on value metrics