

Medical Provider

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Introduction



What are Healthcare Payments?



What are Healthcare Payments?



Open Payments (OP)

Payments to: Medical Providers

By: Health Industry

Example: Free lunch

Medical Provider Physician and Other Supplier (MPOS)

In other words, how much providers charge patients

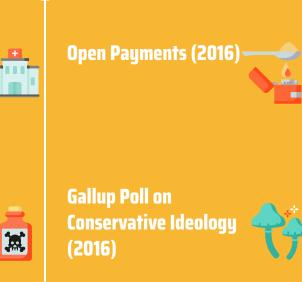
Research Question

Is there a relationship between Open
Payments (OP) and Madical Provider Physician
and Other Supplier (MPDS)?

Methodology



Data Used



MPOS (2016)



NPI Public Registry (2020)



State-Level Control Variables



Economic (Census) Health Care (McKinsey Health Index) **Number of Medical Providers(KFF)**

Big Problem

Open Payments is missic Provider Identifier (NPI).

By law.

Programmatically match names and address.

NPI Matching Results

Original

Validation

Original paper was able to match 374,766 NPIs in MPOS and OP

Validation research matched 345,743 NPIs in MPOS and OP

Difference of ~29,000 providers

Data Analysis Methodology

1 Match Open Payments to NPIs

2 Join **OP** and **MPOS**

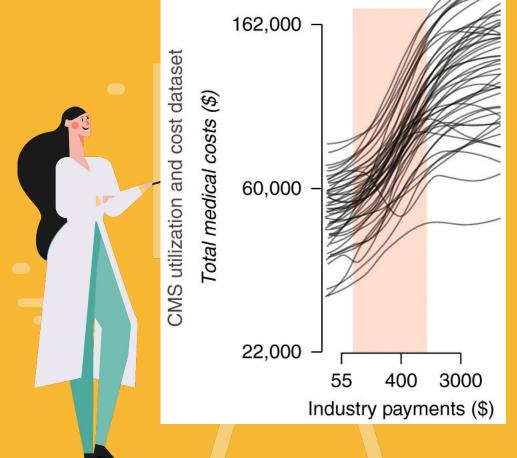
3 Run Analysis





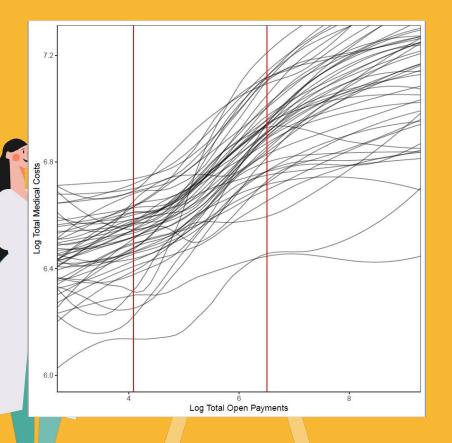


Original vs Validation



Graph Time!

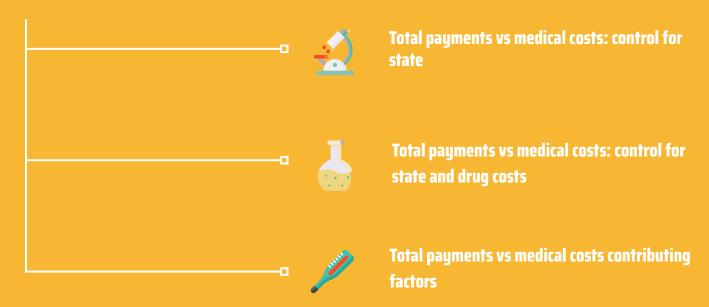
Original research found a linear relationship between industry payments and medical costs.



Original v Validation

Validation found linear relationship between industry payments and costs

Models to Test



Scoreboard

Original

Validation

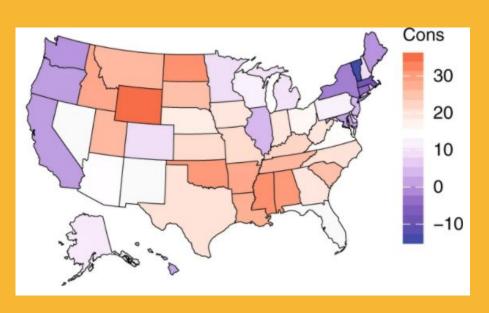
Model	Result
Payments by State	Linear
Payments by State & Drug Costs	Linear
Contributing Factor	Conservative (positive)

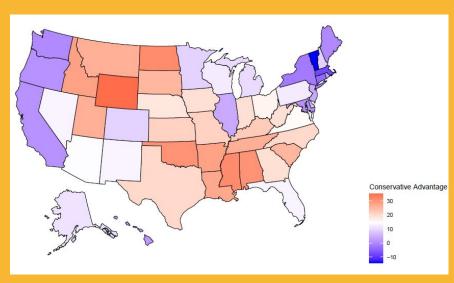
Model	Result
Payments by State	Linear
Payments by State & Drug Costs	None
Contributing Factor	Conservative (negative)

Scoreboard

Original

Validation





Summary



CONCLUSIONS



Validation research confirmed a linear relationship exists between industry payments and medical costs.

Validation did not confirm a correlation between medical costs and drug prices.

Validation confirmed strongest contributing factor in a state is conservative ideology but in opposite directions

- Mejia, J., Mejia, A. & Pestilli, F. Open data on industry payments to healthcare providers reveal potential hidden costs to the public. Nat Commun 10, 4314 (2019). https://doi.org/10.1038/s41467-019-12317-z
- https://www.cms.gov/OpenPayments/Explore-the-Data/Dataset-Downloads
- https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Medicare-Provider-Charge-Data/Physician-and-Other-Supplier
- https://npiregistry.cms.hhs.gov/

RESEARCH RESOURCES

CREDITS

This is where you give credit to the ones who are part of this project.

- ◆ Presentation template by Slidesgo
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THANK YOU

Questions?

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