

# Its Still The Prices Stupid: Observations on Health Care Spending in the US

Niall Brennan CEO, HCCI @N\_Brennan March, 2020

# HCCI's Mission

HCCI's mission is to *get to the heart* of the key issues impacting the U.S. health care system — by using the best data to get the best answers.

#### Our values are simple:

- Health care claims data should be accessible to all those who have important questions to ask of it.
- Health care information should be transparent and easy to understand.
- All stakeholders in the health care system can drive improvements in quality and value with robust analytics.

HCCI reports cost trends and facilitates informed debate about the lessunderstood commercially-insured population



# **HCCI 1.0 Data Holdings**









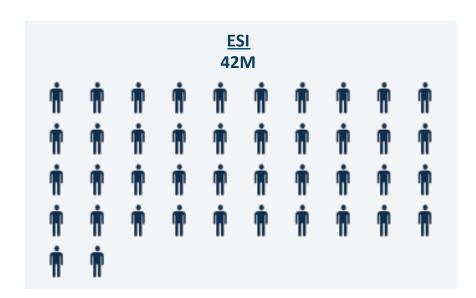
#### **Commercial Claims**

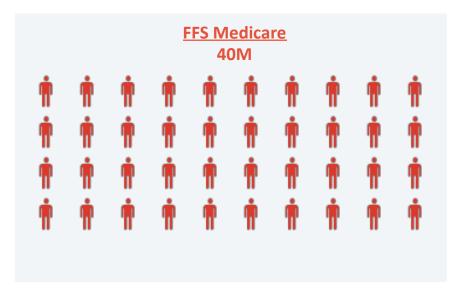
- Years: 2008-2017
- All 50 states and D.C.
- Updated annually
- De-identified, HIPAA and anti-trust compliant



#### **Medicare Fee-For-Service Claims**

- National Qualified Entity (QE)
- Years: 2012-2017
- 100% Parts A & B & D









### **aetna** Humana.

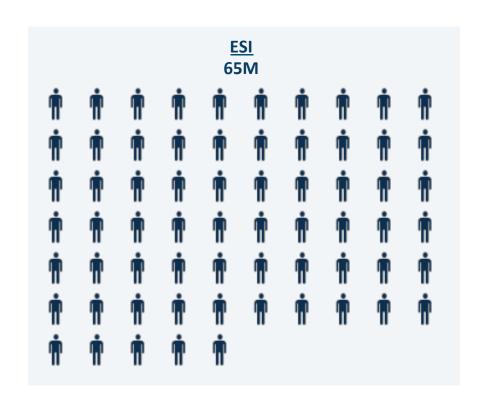
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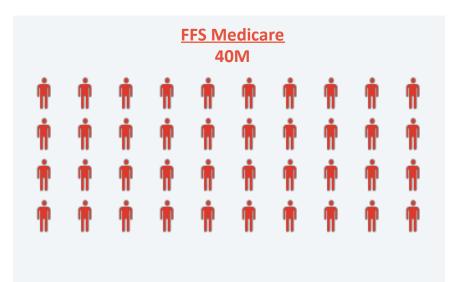
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#### Independent Board

- Bob Town, UT-Austin, Chair
- Mike Chernew, Harvard
- Leemore Dafny, Harvard
- Roy Goldman, President, Society of Actuaries
- Aneesh Chopra, Entrepreneur, former White House CTO
- Chuck Phelps, University of Rochester (retired)
- Almeta Cooper, Morehouse University (retired)
- Aaron McKethan, Duke/NC HHS
- Stephanie Carlton, McKinsey
- Amy Finkelstein, MIT
- Marshall Votta, Nautic Partners



# Enabling World Class Research

HCCI's current research partners include:



















University of Minnesota

Driven to Discover<sup>™</sup>







HCCI also facilitates data access and research through foundation partnerships:





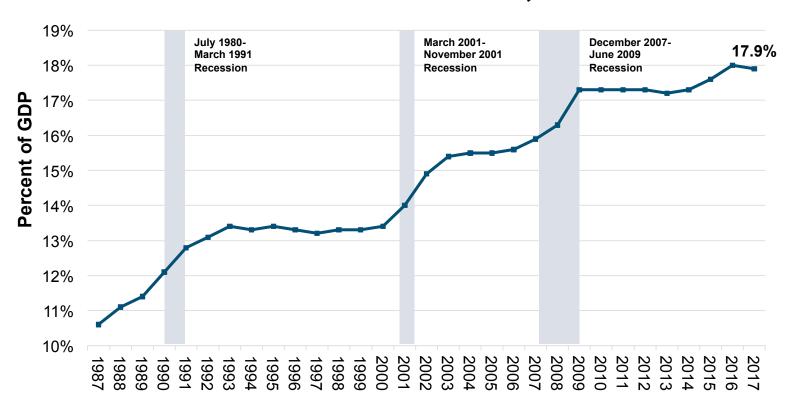






# Share of GDP Spent on Health Care

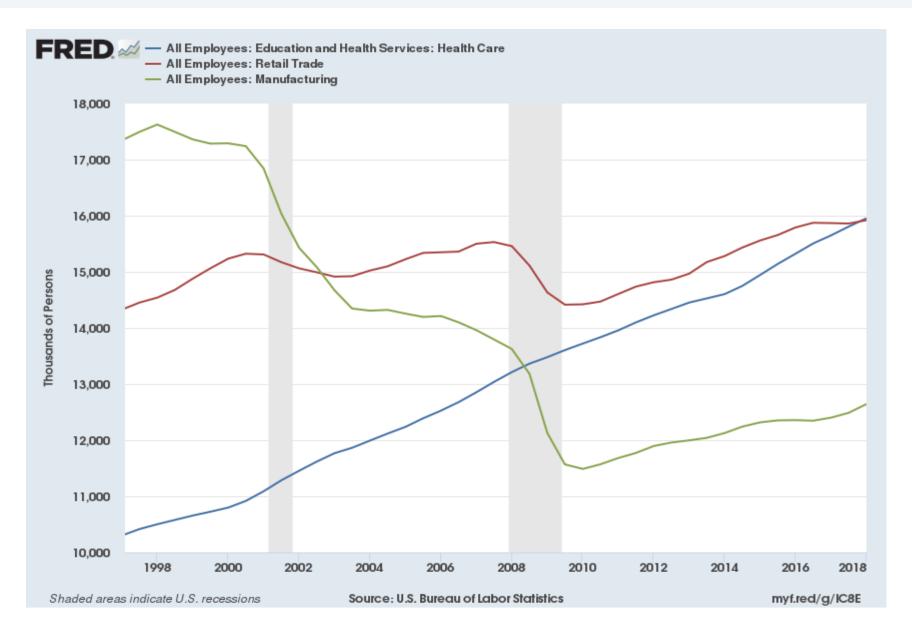
# National Health Expenditure as a Share of Gross Domestic Product, 1960-2017



**Calendar Years** 



# US Health Care Employment 1998-2018





# Health Care Reform Efforts in the US



THE BLAME GAME

# Some Observations on the Status Quo

- Americans are indefatigable when it comes to optimism and new ideas about controlling health care costs
- BUT
  - NOTHINGS WORKING
  - And that optimism means everyone thinks reform can be achieved without hurting them / hurting anyone
- Quality!
- Patient Responsibility!
- Value-based Care!
- Transparency!
- Disruption!
- Innovation!

HEALTH SPENDING

# It's The Prices, Stupid: Why The United States Is So Different From Other Countries

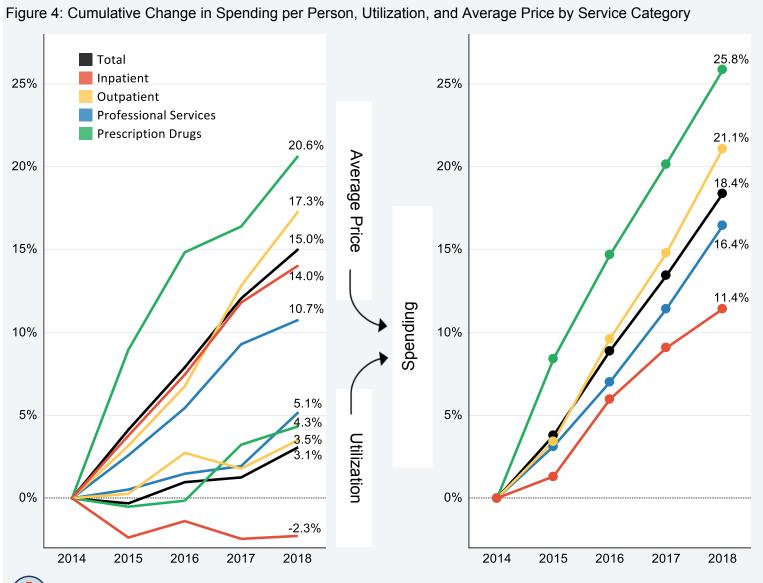
Higher health spending but lower use of health services adds up to much higher prices in the United States than in any other OECD country.

by Gerard F. Anderson, Uwe E. Reinhardt, Peter S. Hussey, and Varduhi Petrosyan





# ESI Spending Trends 2014 - 2018



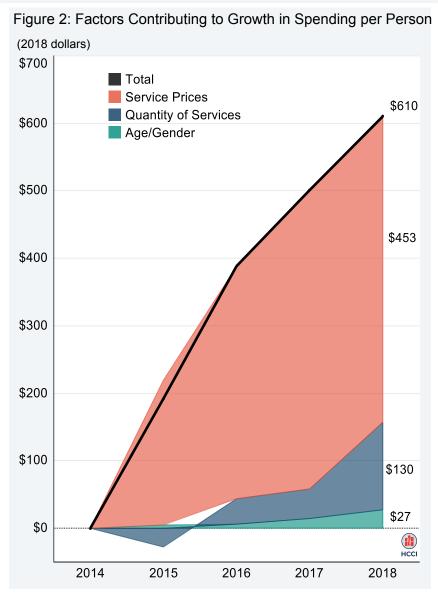


Note: Utilization and average prices account for changes in the type or intensity of services used, with the exception of prescription drugs. Prescription drug spending is the amount paid on the pharmacy claim, which reflects discounts from the wholesale price, but not manufacturer rebates.



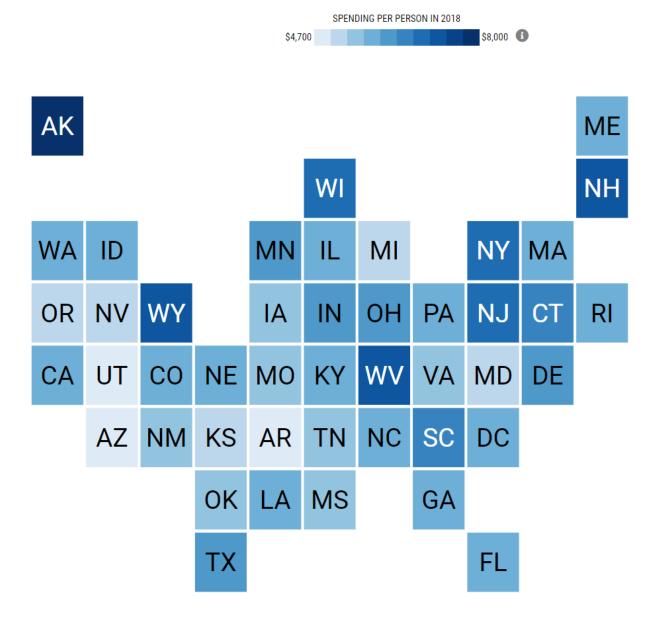
# What Factors Drove Health Care Spending Increases?

- After accounting for inflation, health care spending increased \$610 over the five-year period.
- Price growth accounted for just about three-quarters (\$453) of the cumulative increase above inflation over the five-year period.
- Increases in the quantity of services used accounted for 21% (\$130) of the cumulative increase beyond inflation, with much of that contribution coming in the last year of the period.
- The population with employersponsored insurance got slightly older and slightly more female on average between 2014 and 2018, which accounted for just over 4% (\$27) of the growth above inflation in spending per person.





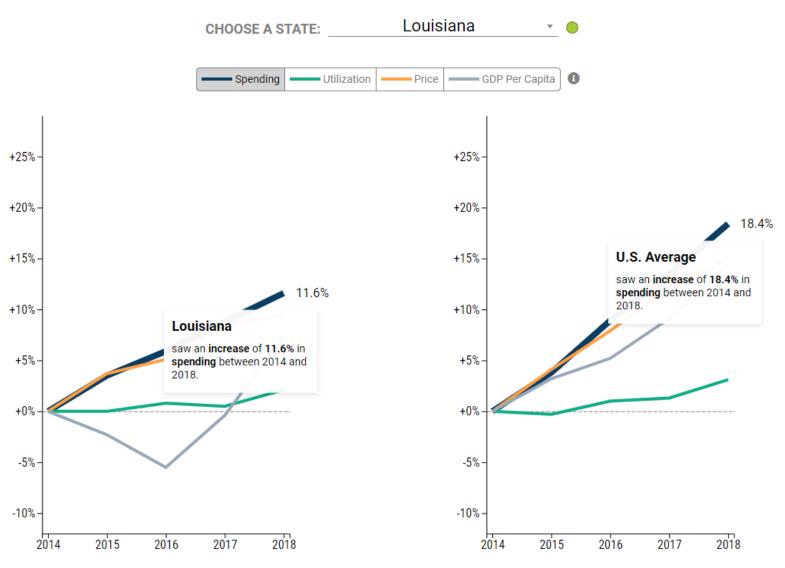
### LA Ranked 29th Highest State, Spending \$5,718 per Person in 2018





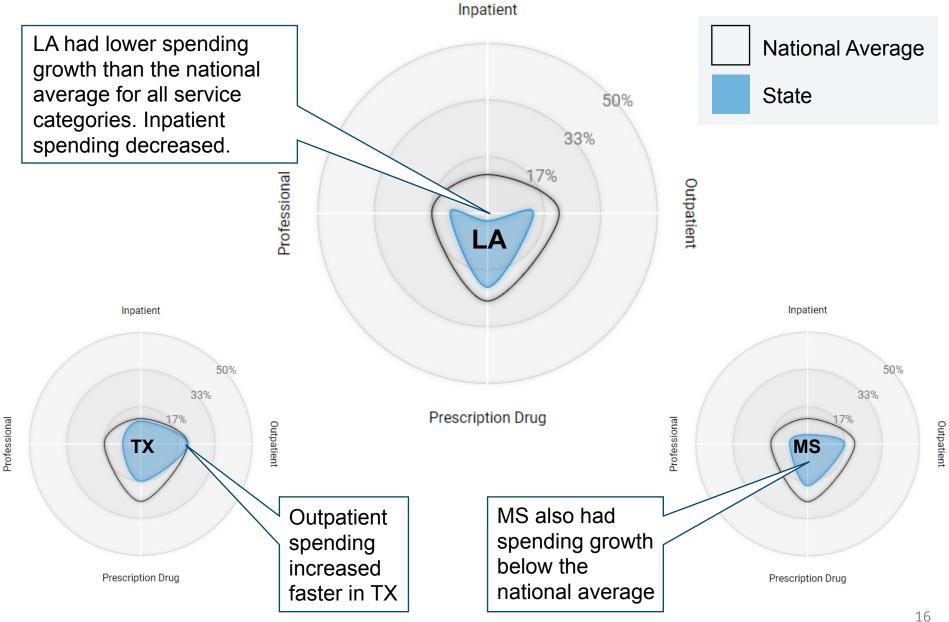
#### Spending Growth in LA was lower than the National Average from 2014 to 2018

#### Cumulative Growth in Spending per Person by State since 2014





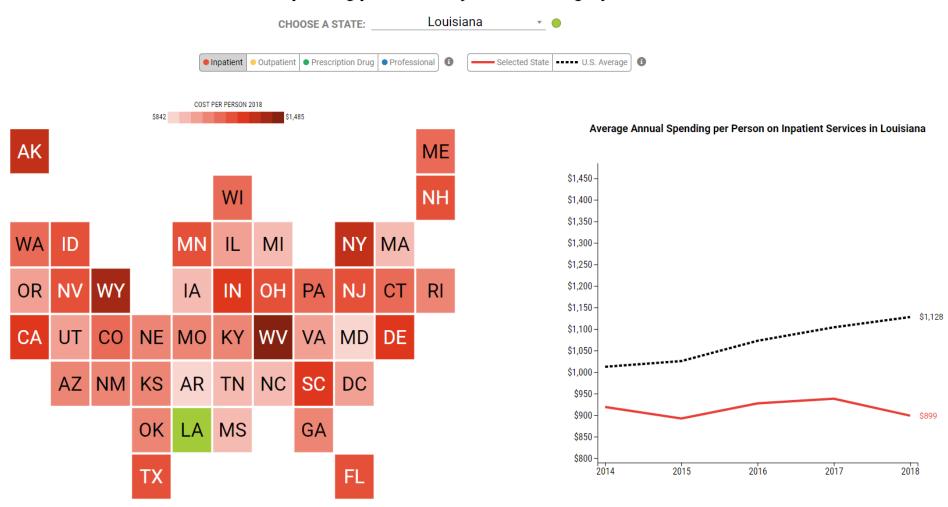
#### Louisiana had lower spending growth than neighboring states





### LA 2018 Inpatient Spending \$899 per person, 3<sup>rd</sup> lowest state

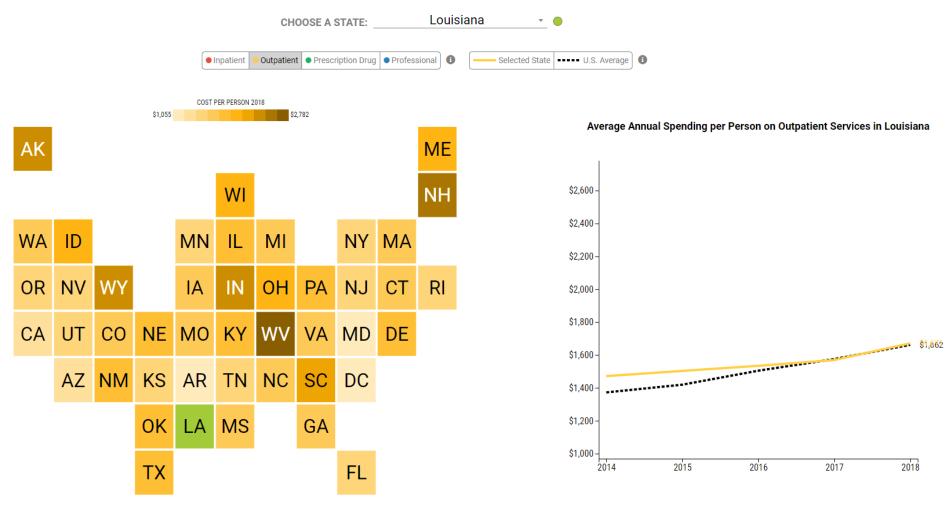
#### 2018 Spending per Person by Service Category





### LA 2018 Outpatient Spending \$1,671 per person, 25th highest state

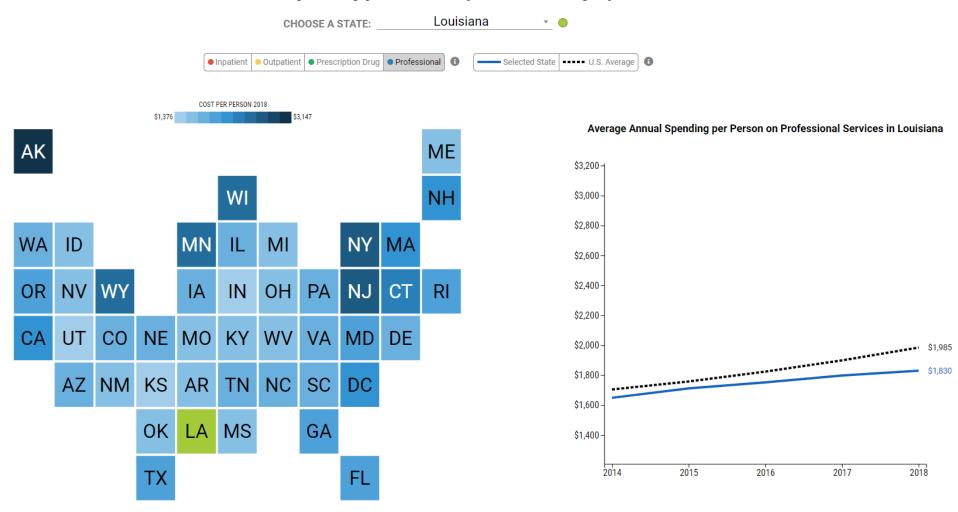
#### 2018 Spending per Person by Service Category





### LA 2018 Professional Spending \$1,830 per person, 24th highest state

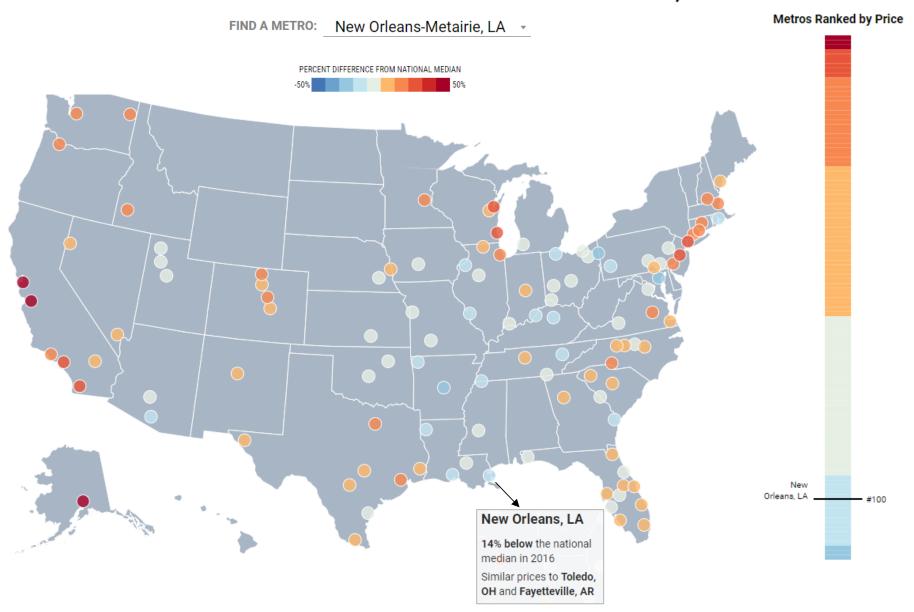
#### 2018 Spending per Person by Service Category



#### Project Overview:

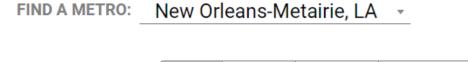
- Compare how local health care markets function throughout the country
  - Analyzed over 1.8 billion commercial claims from 2012-2016
- Develop, publicly report a standard set of replicable measures:
  - Service Price, Service Use, Hospital Market Competition
- For each measure: interactive web articles, dashboards, public use files
  - Explore trends across 112 metro areas in 43 States
    - Including 4 metros within the state of Louisiana

#### Overall Health Care Prices in U.S. Metros Relative to National Median, 2016

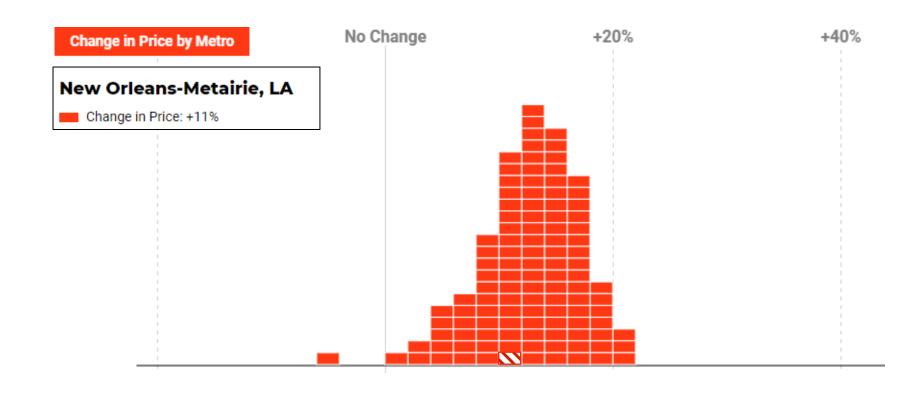


## **Prices Growing Almost Everywhere**

#### Comparing Overall Price and Use Changes, 2012 - 2016



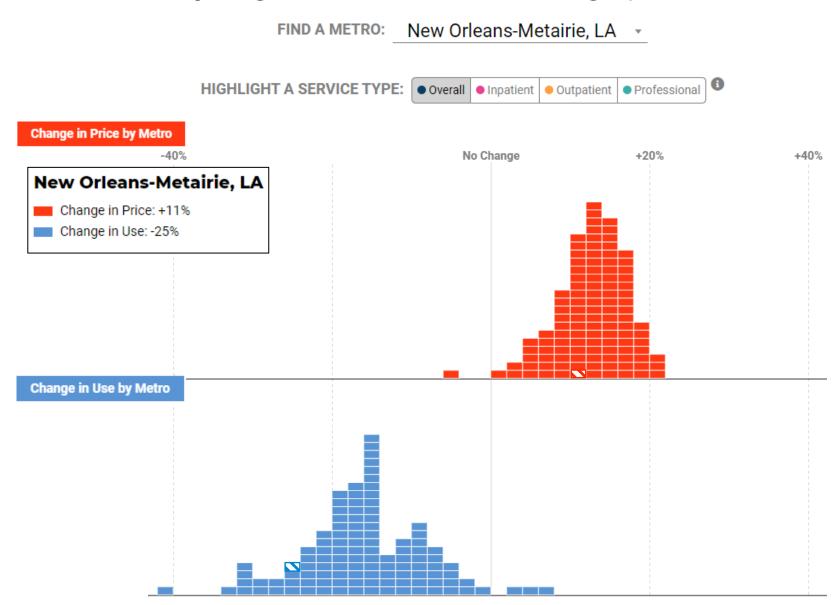






## However, Use Declining Largely Everywhere

#### Comparing Overall Price and Use Changes, 2012 - 2016



# Held True throughout Louisiana

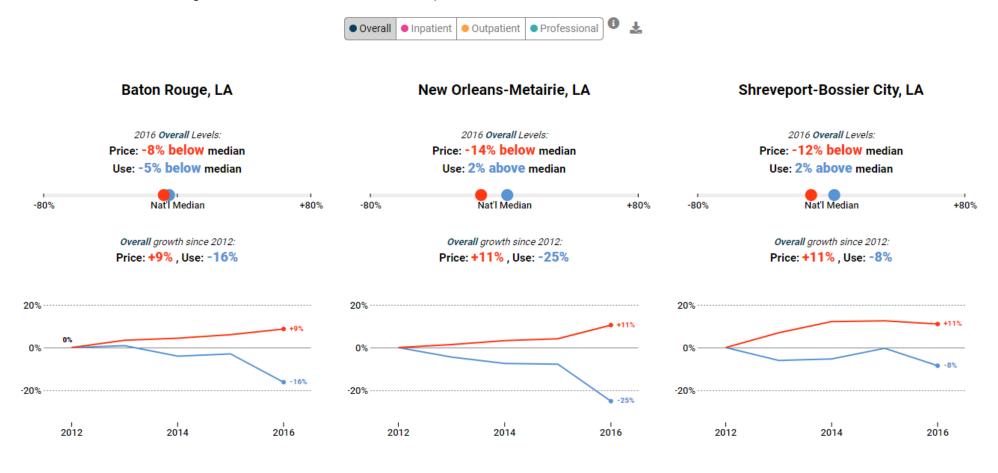
All 4 metro areas in Louisiana experienced a growth in prices & decline in use

- Prices
  - Lafayette (+5%) lowest growth rate, New Orleans & Shreveport (+11%) both had highest
- Use
  - Shreveport (-8%) smallest decline, New Orleans (-25%) largest

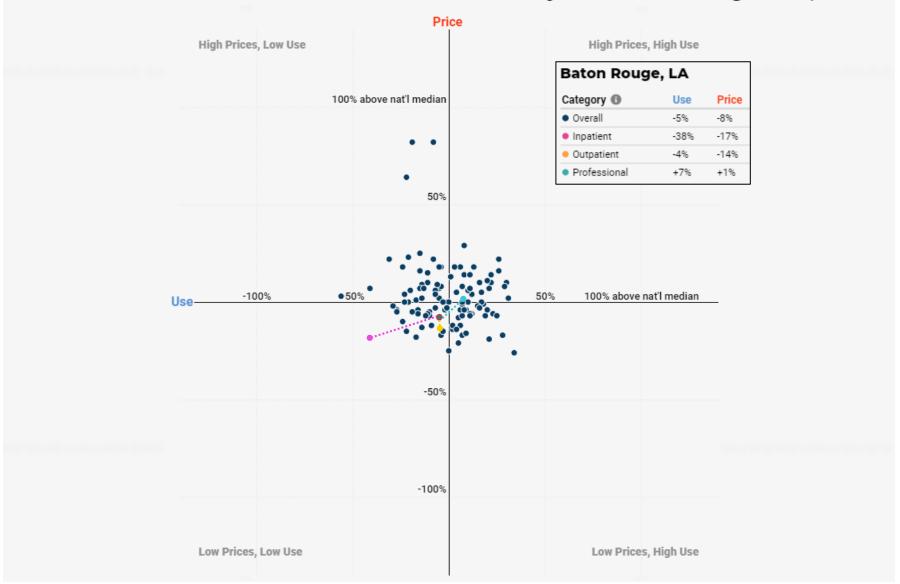
Metro Area	% Change in Price	% Change in Use		
Baton Rouge	+9%	-16%		
Lafayette	+5%	-23%		
New Orleans-Metairie	+11%	-25%		
Shreveport-Bossier City	+11%	-8%		

### Compare Price & Use by Metro and Over Time

#### Compare Health Care Prices, Use Levels and Growth in Select Metros

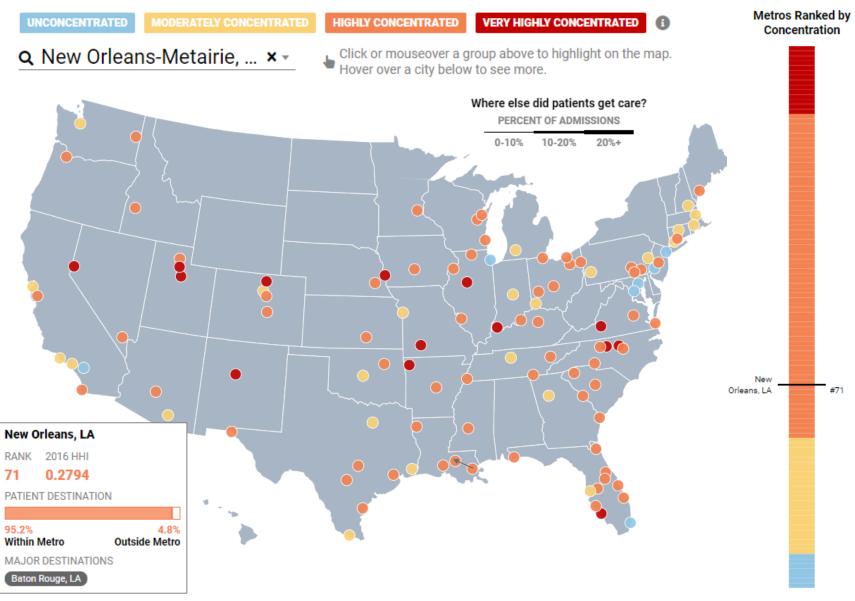


#### Price and Use Levels Within Metro Areas by Service Categories, 2016





#### Inpatient Hospital Market Concentration in U.S. Metros, 2016

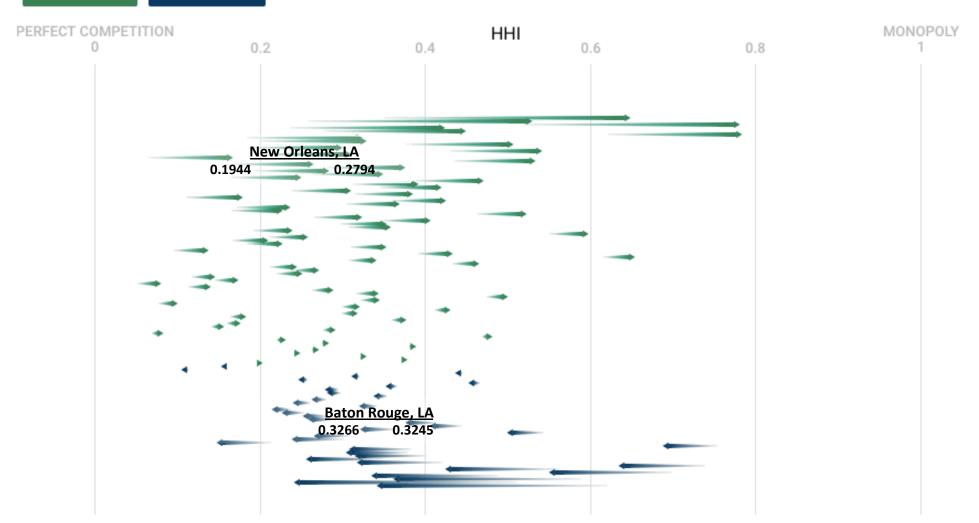


### **Change in Hospital Market Concentration**

Change in HHI from 2012-2016 by U.S. Metro

HHI INCREASED

**HHI DECREASED** 





#### Inpatient Hospital Concentration in U.S. Metros, 2016

UNCONCENTRATED

MODERATELY CONCENTRATED

HIGHLY CONCENTRATED

VERY HIGHLY CONCENTRATED



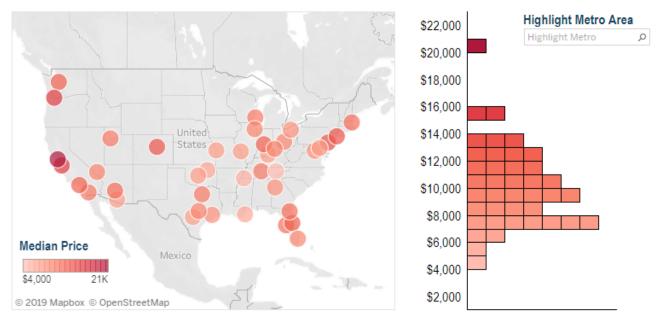
#### New Orleans-Metairie, LA Baton Rouge, LA Shreveport-Bossier City, LA 2016 HHI: 0.2794 2016 HHI: 0.3266 2016 HHI: 0.2797 Change in HHI since 2012: +0.0849 Change in HHI since 2012: -0.0379 Change in HHI since 2012: +0.0041 1.00 1.00 1.00 0.00 0.00 0.00 2014 2016 2014 2016 2014 2016 2012 2012 2012



# Price Levels Don't Necessarily Capture Variation in Prices of Different Services Within Areas

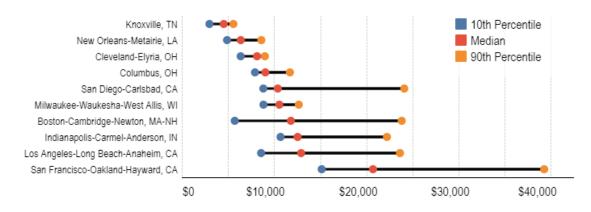
#### **C-Section Delivery**

Distribution of Metro Area Median Service Prices, 2016



#### **C-Section Delivery**

Range of Service Prices for Select Metro Areas, 2016

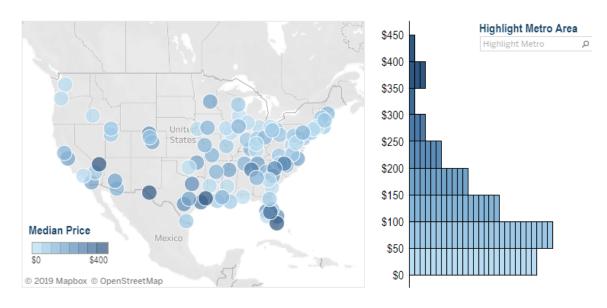




# Price Levels Don't Necessarily Capture Variation in Prices of Different Services Within Areas

#### **Blood Test**

Distribution of Metro Area Median Service Prices, 2016



#### Y.... 11 ....... 27:.....

The New Hork Times

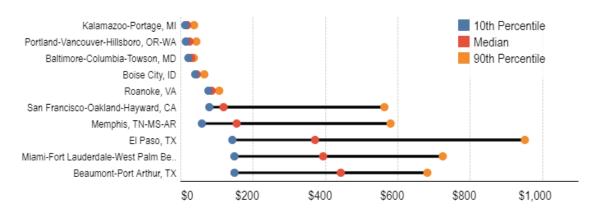
**TheUpshot** 

By Margot Sanger-Katz

They Want It to Be Secret: How a Common Blood Test Can Cost \$11 or Almost \$1,000

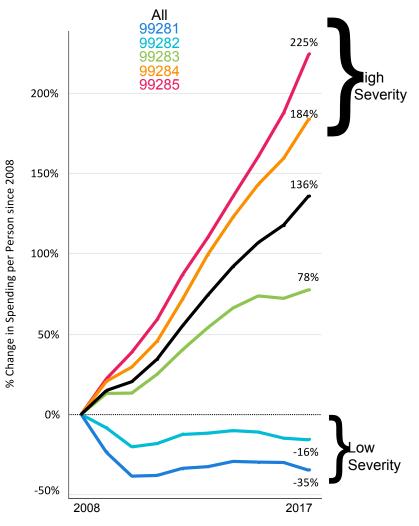
#### **Blood Test**

Range of Service Prices for Select Metro Areas, 2016

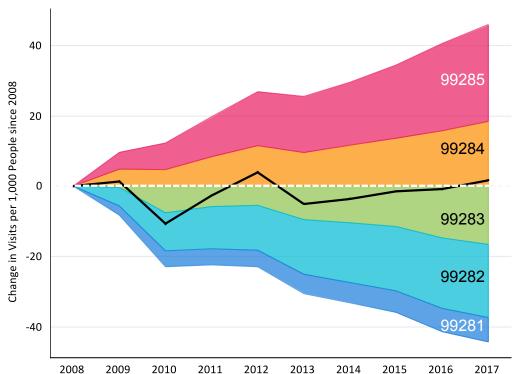


# 10 Years of ER Spending – prices and coding

#### Spending per Person more than doubled in 10 years



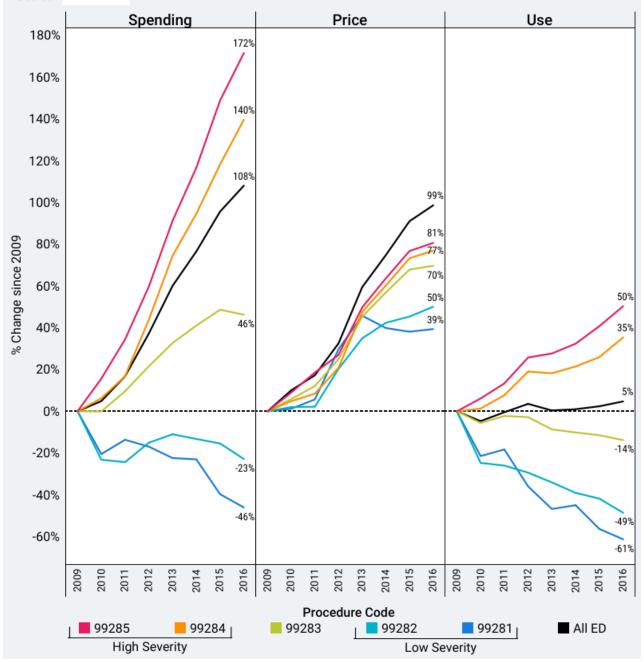
### Overall ER Use did not change over the 10 years, but the mix of CPT codes billed did



#### Cumulative Change in Emergency Room Spending, Prices, and Utilization from 2009 to 2016



State: LA

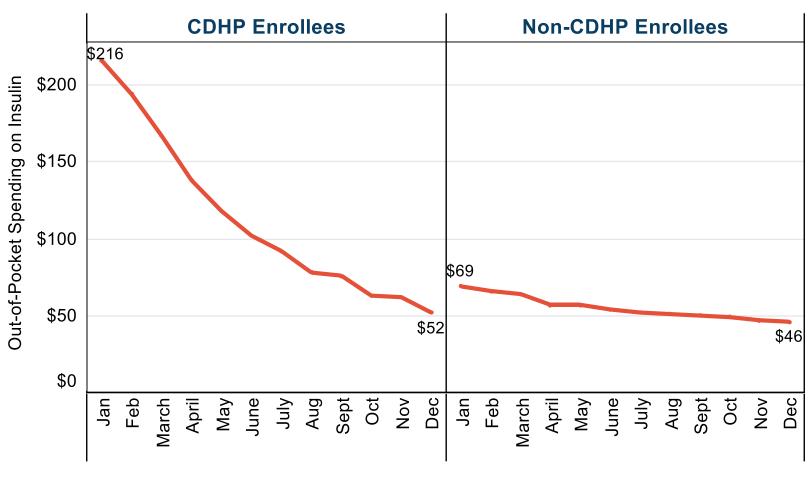




# Median increase in point-of-sales prices for common insulin products between 2012 and 2016 was 92%

				Average Price per Product (\$)					5-yr Chg.
	Product	Delivery	Description	2012	2013	2014	2015	2016	(%)
	Humulin N	Vial	10mL, 100 units/mL	68	79	95	116	131	93%
		Pen	5 pens, 3mL each, 100 units/mL	219	257	290			
		KwikPen	5 pens, 3mL each, 100 units/mL			314	370	415	
	Novolin N	Vial	10mL, 100 units/mL	67	75	89	108		
	Lantus	Vial	10mL, 100 units/mL	123	152	211	244	243	98%
<u>a</u>		SoloStar Pen	5 pens, 3mL each, 100 units/mL	217	258	325	368	367	69%
Basal	Levemir	Vial	10mL, 100 units/mL	124	152	216	252	264	113%
"		FlexPen	5 pens, 3mL each, 100 units/mL	217	253	315			
		FlexTouch	5 pens, 3mL each, 100 units/mL			353	380	398	
	Toujeo	SoloStar Pen	3 pens, 1.5mL each, 300 units/ mL				333	328	
	Tresiba	U-100 Pen	5 pens, 3mL each, 100 units/mL					440	
		U-200 Pen	3 pens, 3mL each, 200 units/mL					524	
	Humulin R	Vial	10mL, 100 units/mL	68	80	96	116	132	94%
		U-500 Vial	20mL, 500 units/mL	563	804	961	1152	1319	134%
		U-500 KwikPen	2 pens, 3mL each, 500 units/mL					513	
	Novolin R	Vial	10mL, 100 units/mL	68	79	93			
	Apidra	Vial	10mL, 100 units/mL	97	124	169	209	240	147%
Пе		SoloStar Pen	5 pens, 3mL each, 100 units/mL	196	244	332	408	466	138%
Mealtime	Humalog	Vial	10mL, 100 units/mL	127	147	178	213	241	90%
Me		Cartridge	5 cart., 3mL each, 100 units/mL	235	271	334	398	449	91%
		Pen	5 pens, 3mL each, 100 units/mL	247	285	346	415	469	90%
		KwikPen	2 pens, 3mL each, 200 units/mL					381	
	Novolog	Vial	10mL, 100 units/mL	127	146	176	209	237	87%
		Cartridge	5 cart., 3mL each, 100 units/mL	242	275	333	397	443	83%
		FlexPen	5 pens, 3mL each, 100 units/mL	247	286	344	409	461	87%

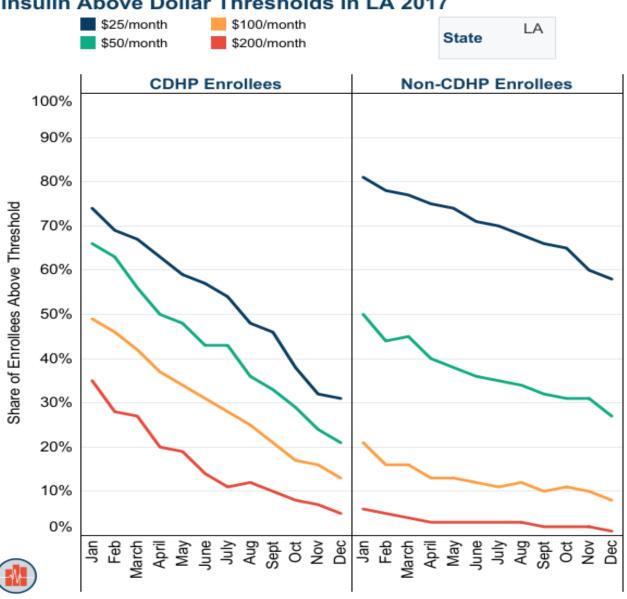
#### **Average Monthly Out-of-Pocket Spending on Insulin in TX**





# Monthly cap on OOP spending on insulin would vary by health plan type and month

# Share of Enrollees with Monthly Out-of-Pocket Spending on Insulin Above Dollar Thresholds in LA 2017



### Medicare v Commercial Rates for Selected Services

#### Figure 1: Variation Across States and Metro Areas in 2017

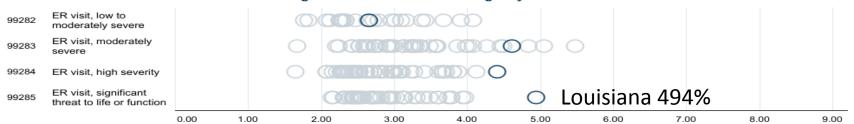
Emergency Room Commercial:Medicare Allowed Amount Ratio Emergency Room Median Commercial Allowed Amounts Radiology Commercial:Medicare Allowed Amount Ratio Radiology Median Commercial Allowed Anesthesia Commercial:Medicare Allowed Amount Ratio Anesthesia Median Commercial Allowed Amounts

#### Commercial ESI to Medicare Ratios - ER

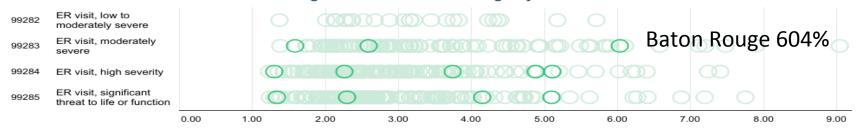


Highlighting "LA"





#### CBSA Commercial to Medicare Ratio of Average Allowed Amounts - Emergency Room



Ratios presented here show the mean in-network allowed amount (amount paid by insurer plus out-of-pocket payments from patients) paid by commercial employer sponsored insurance (ESI) divided by the mean allowed amount paid by Medicare fee-for-service in 2017. Allowed amounts used in this analysis do not include facility fees.

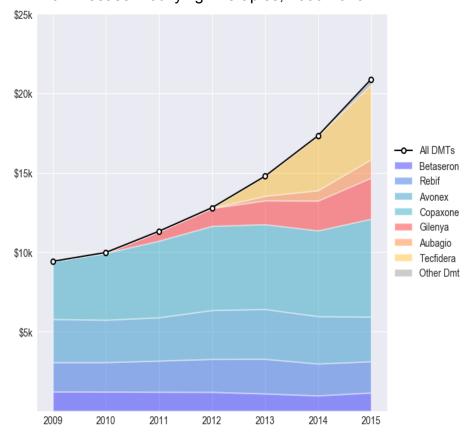
Commercial estimates are for specific emergency room (ER) procedures billed by emergency medicine specialists, anesthesia procedures billed by anesthesiologists, and radiology procedures billed by radiologists..



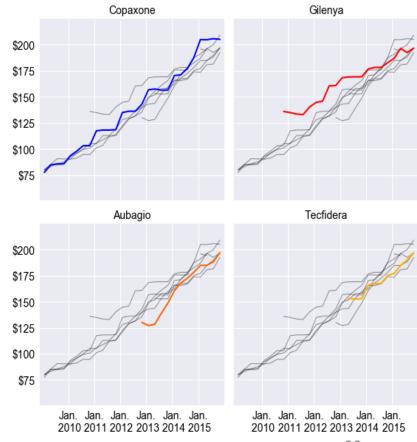
# How do rising drug prices affect cost of care for people with MS?

Studying the implications of price changes of the most common drugs taken by people with MS

Total Spending Per Capita by People w/ MS on Disease Modifying Therapies, 2009-2015



Average Price per Filled Day for Most Common NDC Code for Each DMT, 2009-2015





# Health care is the only sector of the American economy where you can lose market share and gain revenue

