

Sticker Shock!

Economics and Hospital Pricing

Ian McCarthy | Emory University Thursday, March 3, 2022

Health care in the U.S.



Outline

Some thoughts on U.S. health care...

- 1. Quality is OK
- 2. The System is Confusing
- 3. Prices are Really High!
- 4. [Economics can help][#economics]

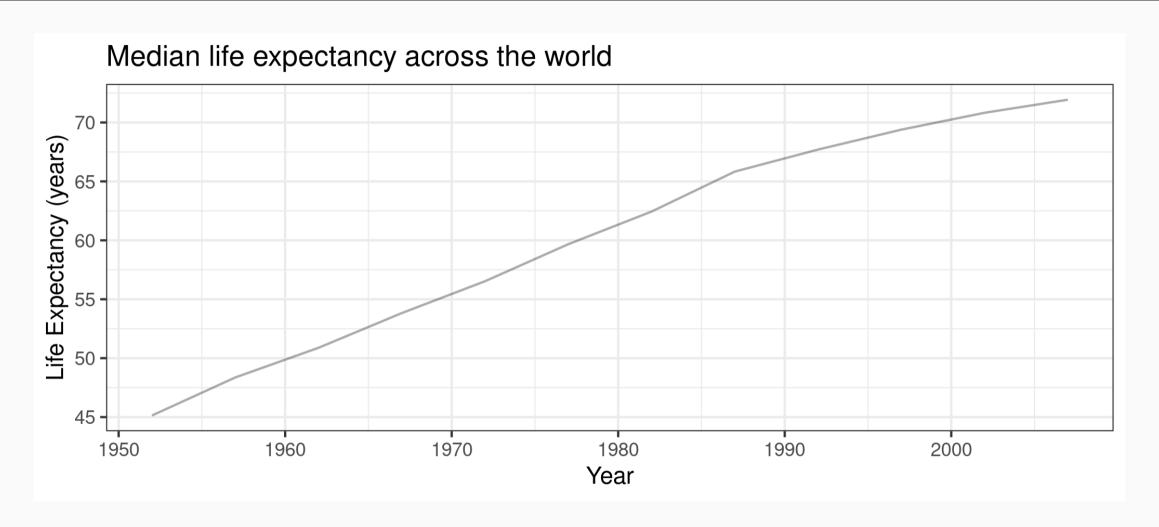
Health Care in the U.S.

Health improvements worldwide

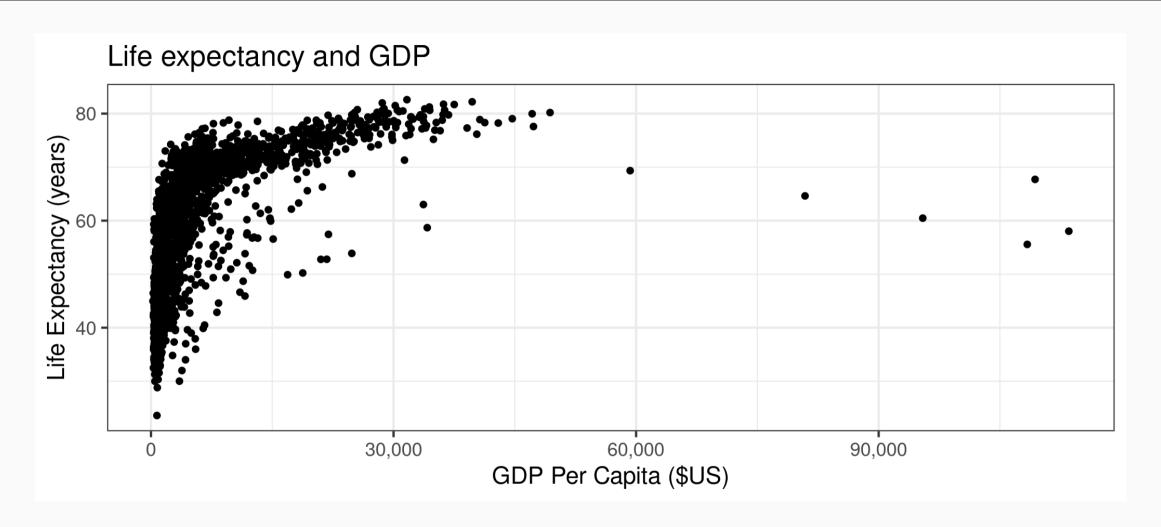
We've made *major* improvements in life expectancy (and many other measures of health) across the world

- Poverty reduction
- Technology development and innovation
- Technology diffusion and adoption
- Access to better services, including health care

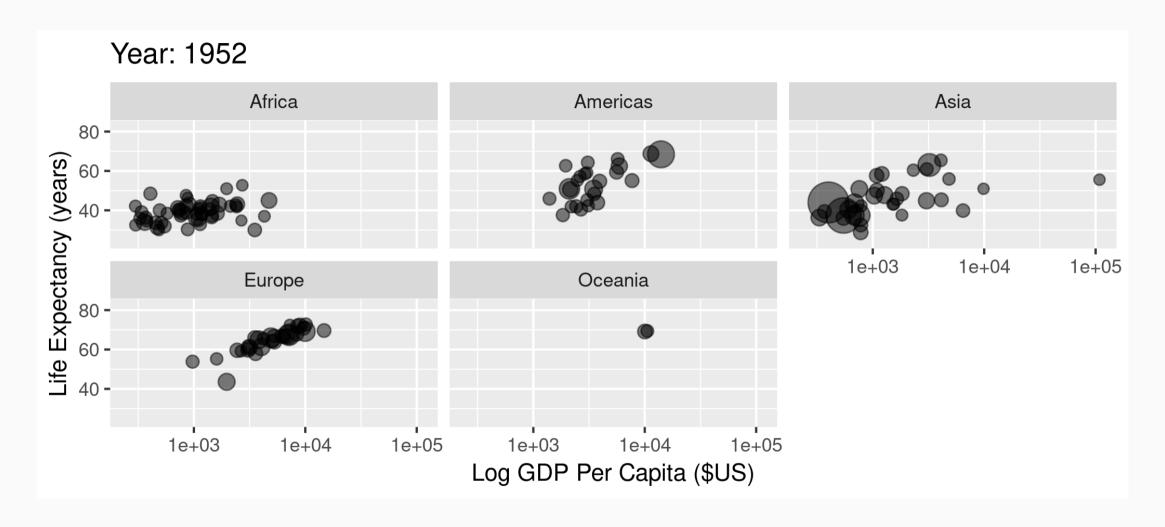
Health improvements worldwide



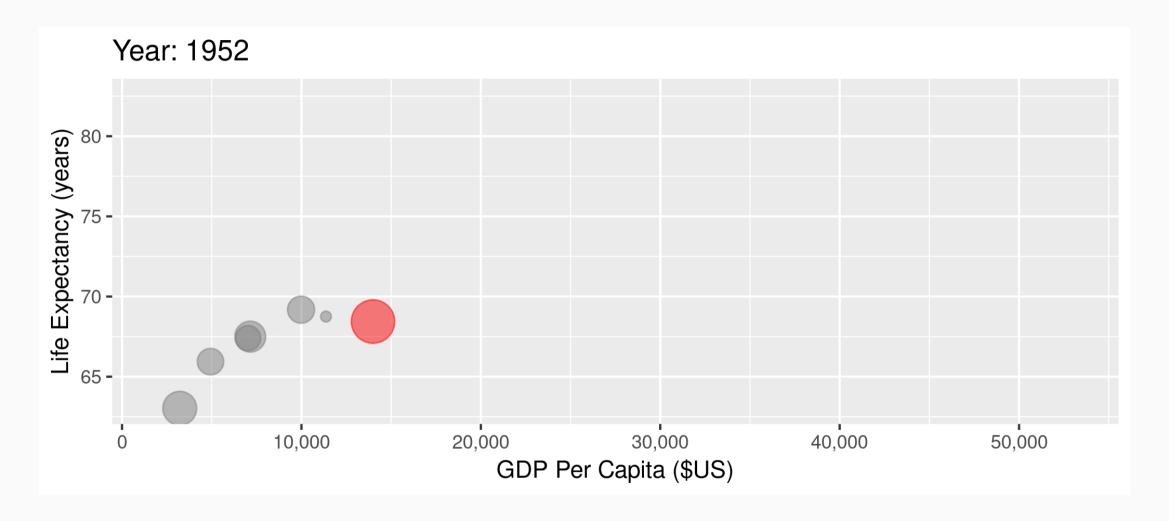
Health improvements related to economic growth



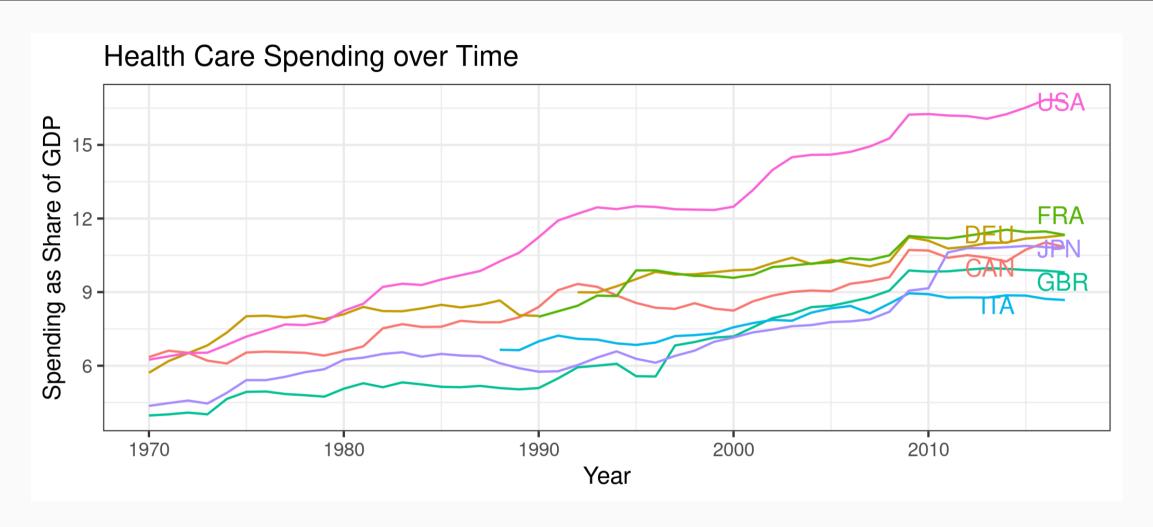
Health improvements related to economic growth



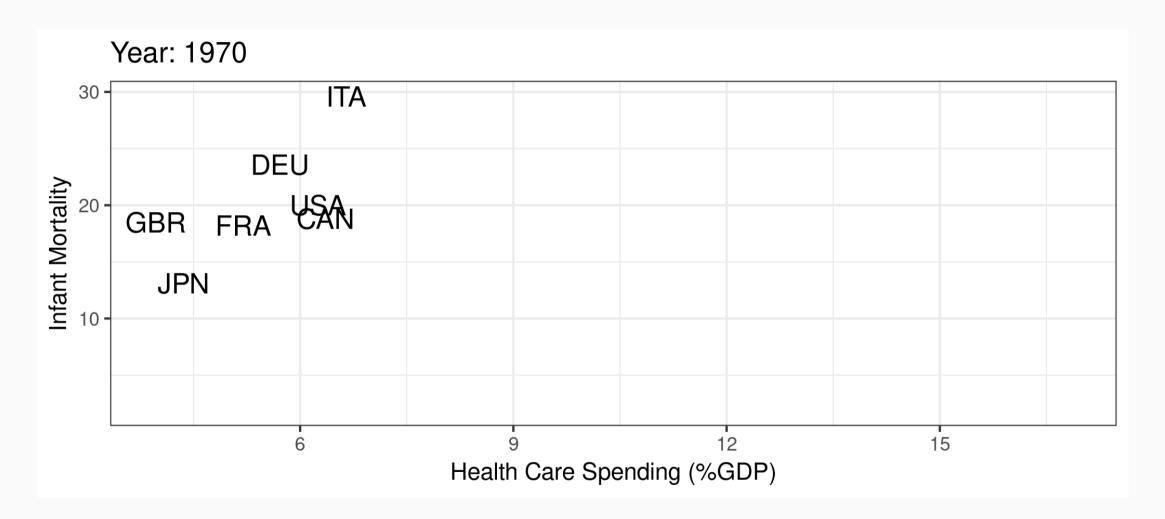
But the U.S. is unique



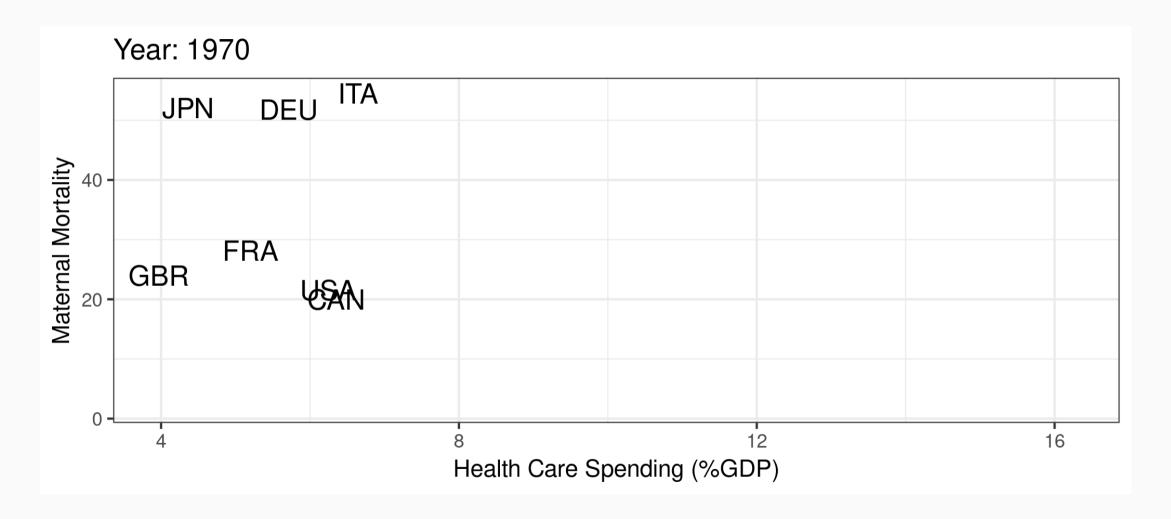
The U.S. has very high spending



And our spending doesn't pay off in some areas



And our spending doesn't pay off in some areas



U.S. Health Care is Confusing!

"Nobody knew health care could be so complicated"

-- Donald Trump

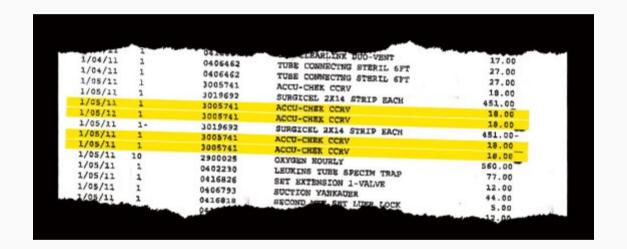
Fragmentation

A common criticism of U.S. health care is that it is extremely fragmented:

- different ways to get insurance
- mix of providers, organizational structures, and reliance on referrals
- separate billing (for the most part)

Complicated bills

Our fragmented system has led to a ridiculously complex and convoluted billing process

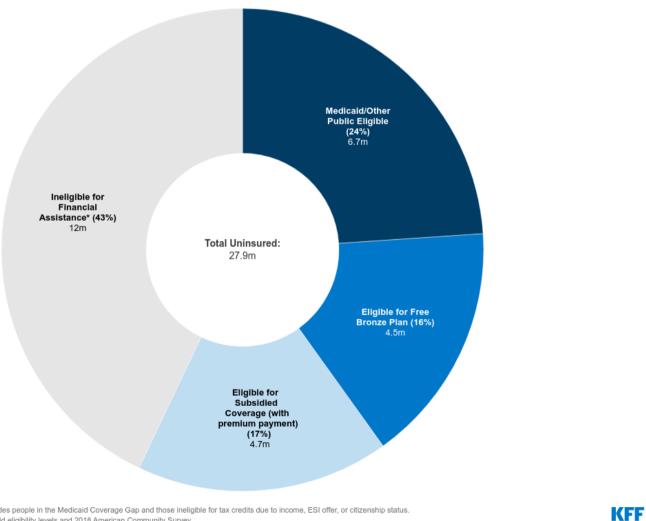


Brill, Steven. 2013. "Bitter Pill: Why Medical Bills are Killing Us." *Time Magazine*.

What does all this complexity mean?

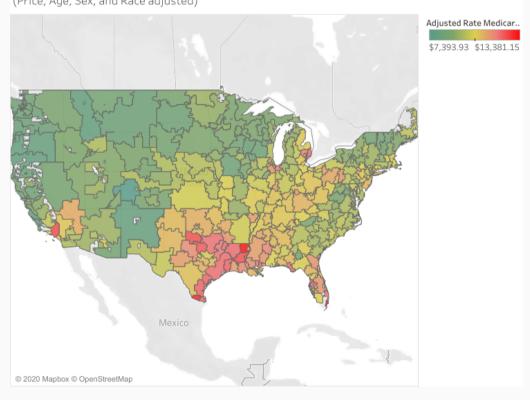
1. Too many uninsured

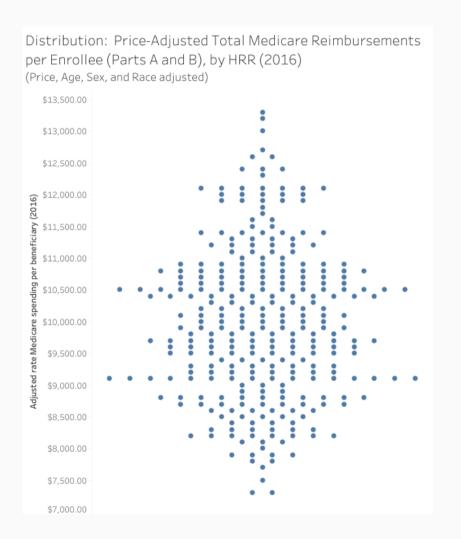
Distribution of Eligibility for ACA Health Coverage Among the Non-elderly Uninsured Before the Pandemic

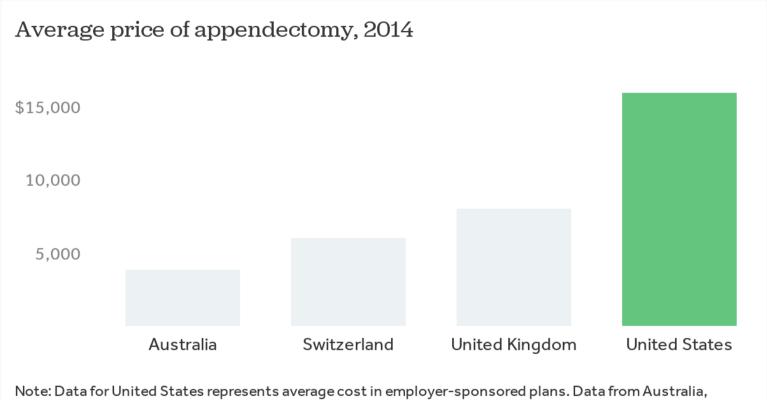


2. Variation in health care delivery and spending

Map: Price-Adjusted Total Medicare Reimbursements per Enrollee (Parts A and B), by HRR (2016) (Price, Age, Sex, and Race adjusted)



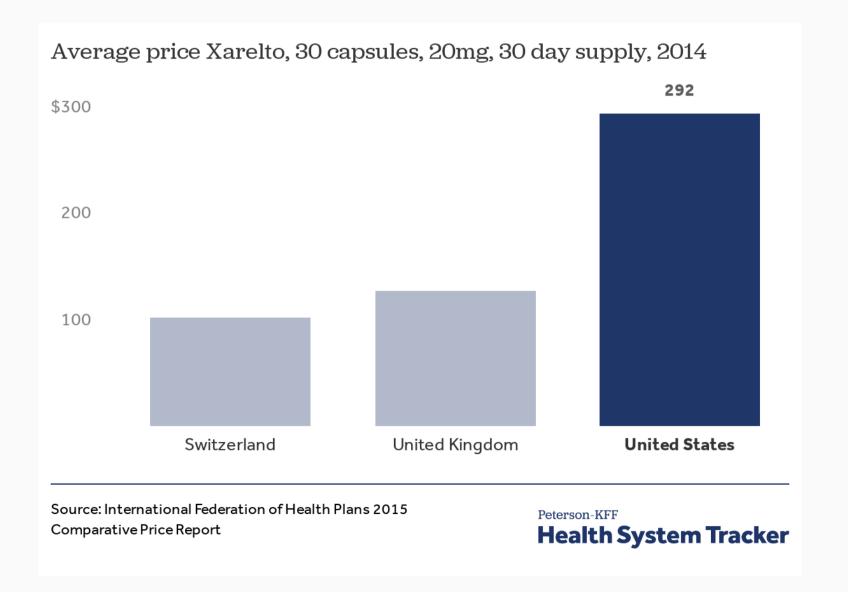




Note: Data for United States represents average cost in employer-sponsored plans. Data from Australia, Switzerland and the United Kingdom represent average private sector costs.

Source: Kaiser Family Foundation analysis of data from International Federation of Health Plans (2015), "2015 Comparative Price Report, Variation in Medical and Hospital Prices by Country"

Peterson-KFF **Health System Tracker**



Why are prices so high?

How are prices generated?

- Negotiation with private insurers (bargaining problem)
- Set payment from Medicare and Medicaid
 - Medicaid managed care (80%)
 - Medicare Advantage (45%)
- Uninsured patients (charge amounts)

Price \neq charge \neq cost \neq patient out-of-pocket spending

What is a hospital price?

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Not clear what exactly is negotiated...

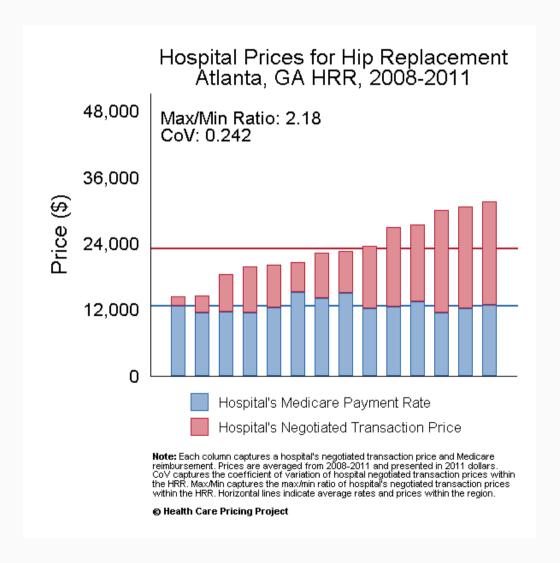
Fee-for-service

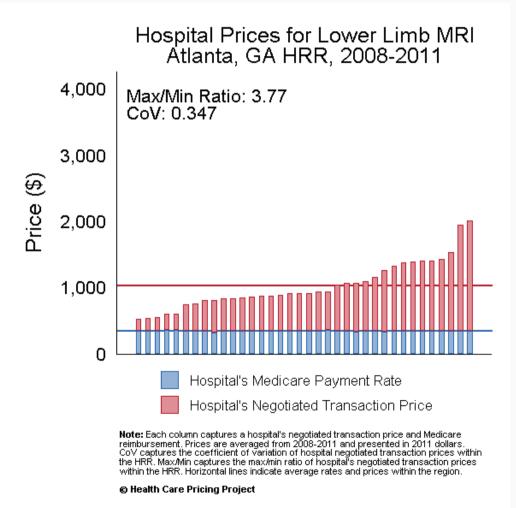
- price per procedure
- percentage of charges
- markup over Medicare rates

Capitation

- payment per patient
- pay-for-performance
- shared savings

Hospital prices in real life





Where does economics fit in here?

Health care and economics (in general)

Lots of interesting economic issues in health care (not all unique to the U.S.):

- 1. Extremely heterogeneous products
- 2. Asymmetric information between patients and physicians
- 3. Unobservable quality (experience good)
- 4. Unpredictable need (inability to shop in many cases)
- 5. Distortion of incentives due to insurance
- 6. Adverse selection (asymmetric information between patients and insurers)

How is the U.S. unique?

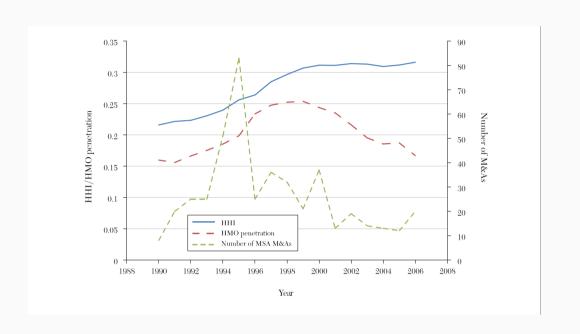
- These factors exist in other markets and in other countries, but...
- Health care is unique in the combination of these issues
- U.S. is unique in the extent of these issues in health care (policy problems)
- We have a market based system but without sufficient competition...

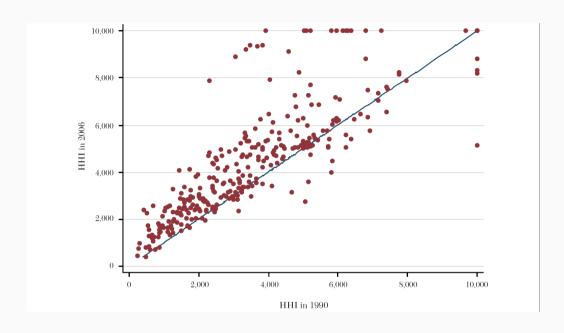
Trends in competitiveness

Almost any way you define it, hospital markets are more and more concentrated (less competitive) in recent decades.

- 1990: 65% of MSAs highlgy concentrated, 23% unconcentrated
- 2006: 77% highly concentrated, 11% unconcentrated

Hospital concentration over time





Source: Gaynor, Ho, and Town (2015). The Industrial Organization of Health Care Markets. Journal of Economic Literature.

Hospital concentration over time

- More data and interactive report from the Health Care Cost Institute.
- Presentation from the National Institute for Health Care Management

Why?

Historical perception of hospital competition as "wasteful" and assumption that more capacity means more (unnecessary) care:

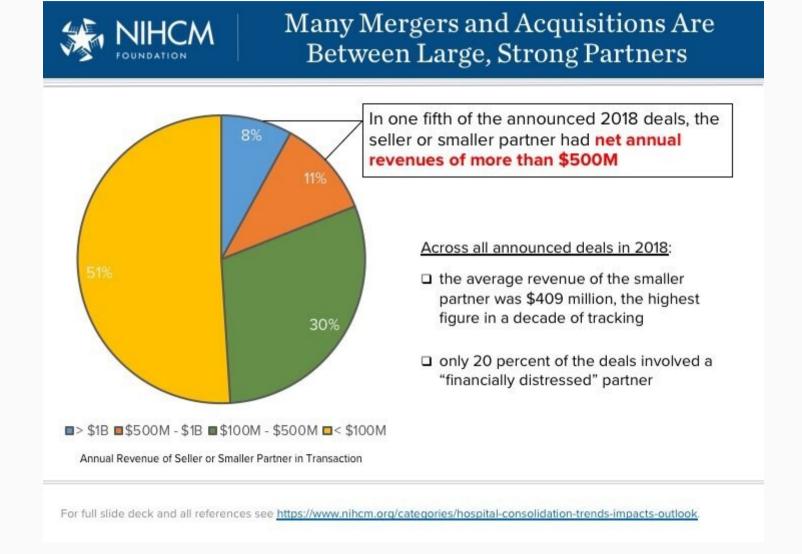
- Limit public spending by limiting competition
- Prevalence of certificate of need (CON) laws

Effects of reduced competition

- 1. Higher prices
- 2. Lower quality, 2020 NEJM Paper
- 3. Maybe lower costs (but not passed on to lower prices)

Effects for both "in-market" and "out-of-market" mergers

Types of hospitals involved in mergers



Types of hospitals involved in mergers

- Ascension-Presence: Largest non-profit system in US adds 10 hospitals to existing 9 hospitals in Chicago
- Fairview-HealthEast: 11 hospital system becomes largest in Twin Cities area
- Hospital corporation of america (HCA) adds 4 hospitals to the 10 existing HCA hospitals in Houston
- Northwestern-Centegra: Forms 10 hospital system in Chicago
- Emory-DeKalb: Forms 10 hospital system in Atlanta
- Jefferson-Einstein: Forms 18 hospital system in Philadelphia area

Source: NIHCM Hospital Consolidation Trends

Different merger types

Essentially two types of mergers:

- 1. "Within-market"
- 2. "Out-of-market"

Within-market mergers

- Most well-understood merger type
- Established tools for examination in anti-trust
- Defining the market is still a contentious issue

Within-market mergers

- Listed previously (Emory-DeKalb, etc.)
- **Big** price effects
 - 20 to 40% in many studies
 - Up to 60% in some studies
 - Bigger increases the closer are the hospitals
 - Price increases spillover to other hospitals too
- Account for about 50% of all mergers since 2000

Out-of-market mergers

- Less understood
- No formal structure for analyzing in court
- These types of mergers are essentially permitted without risk of DOJ/FTC challenge

Out-of-market mergers

- Involve larger systems spanning different isolated markets
 - Advocate-Aurora: 27 hospital system in IL and WI
 - o Baptist Memorial-Mississippi Baptist: 22 hospitals in TN, AR, and MS
 - UPMC-Pinnacle: 24 hospital system recently added 8 in central PA
 - o Catholic Health Initiatives-Dignity Health: 142 hospitals in 21 states
 - HCA: 177 hospitals in 21 states
 - RCCH HealthCare Partners: 89 hospitals in 30 states, focusing on non-urban areas
- About 35% of all mergers are out-of-market but in same state, 15% out-of-state
- Smaller but meaningful price increases, 5 to 10%

1. Out of market mergers and common customers

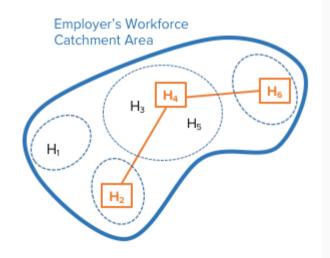


Broader Merger Geographies Require New Approaches by the FTC

These emerging conceptual frameworks have not yet been used in a federal merger challenge, despite the rapid pace of cross-market and multimarket hospital mergers.

Cross-Market Regional Mergers^a

- Employers often draw workers from numerous distinct markets within a broader geographic region.
- To sell insurance to these employers, insurers must build a hospital network covering all markets where their employees live.
- A merger that gives a hospital system a presence in several of these distinct markets also gives that system more market power – even if it does not increase hospital concentration within any of the smaller markets.
- By negotiating on an "all or nothing" basis, the system can force insurers to include all system members in the network and to pay them higher prices.



For full slide deck and all references see https://www.nihcm.org/categories/hospital-consolidation-trends-impacts-outlook.

2. Out of market mergers and multimarket contact



Broader Merger Geographies Require New Approaches by the FTC

These emerging conceptual frameworks have not yet been used in a federal merger challenge, despite the rapid pace of cross-market and multimarket hospital mergers.



Mergers Across Distant Markets^a

- As large hospital systems (HSs) expand their geographic reach nationally, they are increasingly competing against one another in multiple far-flung markets.
- The mutual forbearance hypothesis posits that such systems may avoid competing strenuously in any given common market so as to not set off vigorous competition with rival system members in other common markets.
- Consolidations that increase the extent of multimarket contact can lead to higher hospital prices – even when the markets of the merging entities do not overlap at all and there is no increase in market power locally.

For full slide deck and all references see https://www.nihcm.org/categories/hospital-consolidation-trends-impacts-outlook.

Where do we go frome here?

- 1. Adopt sensible policies
- 2. Antitrust enforcement