

# Osher Lifelong Learning Institute, Winter 2023 Contemporary Economic Policy

University of Massachusetts, Boston March-April, 2023

Host: Jon Haveman, Ph.D. National Economic Education Delegation



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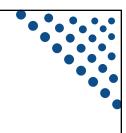
#### Contemporary Economic Policy

- Week 1 (3/13): US Economic Update (Geoffrey Woglom, Amherst College)
- Week 2 (3/20): Monetary Economics (Geoffrey Woglom)
- Week 3 (3/27): Trade and Globalization (Alan Deardorff, Univ. Michigan)
- Week 4 (4/3): Trade Deficits and Exchange Rates (Alan Deardorff)
- Week 5 (4/10): Healthcare Economics (Jon Haveman, NEED)
- Week 6 (4/17): Climate Change Economics (Sarah Jacobson, Williams College)



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#### **Health(care) Economics**

OLLI – University of Massachussets, Boston April 10, 2023

Jon Haveman, Ph.D

NEED





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# **Cre**dits and Disclaimer



- This slide deck was authored by:
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  - Jon Haveman, NEED
- This slide deck was reviewed by:
  - Jonathan Gruber, MIT
  - Robert Hansen, Dartmouth College
- Disclaimer
  - NEED presentations are designed to be nonpartisan.
  - It is, however, inevitable that the presenter will be asked for and will provide their own views.
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- What is Health(care) Economics?
- Health Insurance and Outcomes
- Health Care Systems and Institutions



# What is Health(care) Economics?



- Economics has 2 primary fields: Micro and Macro
- Health Economics is a field of MICROeconomics that focuses on the health care industry.
- Examples of other subfields of microeconomics include:
  - labor economics, industrial organization, economics of education, public economics, and urban economics.



### **Health Economics is part of Microeconomics**

- Although health economics is part of "micro-" economics, it is actually very big:
  - In 2019, U.S. national health expenditures were **17.7% of GDP**, which is equivalent to around **\$3.8 trillion**.
  - U.S. Healthcare is the 5<sup>th</sup> largest economy in the world.
- For comparison, GDP in each country in 2019:

Germany: \$3,845 trillion (4<sup>th</sup> largest economy)
 UK: \$2,827 trillion (6<sup>th</sup> largest economy)
 France: \$2,715 trillion (7<sup>th</sup> largest economy)



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### **Markets Studied in Health Economics**



- Markets for:
  - Physicians
  - Nurses
  - Hospital facilities
  - Nursing homes
  - Pharmaceuticals
  - Medical supplies (such as diagnostic and therapeutic equipment)
  - Health Insurance





# Why Are We Talking About the Market for Health Insurance?



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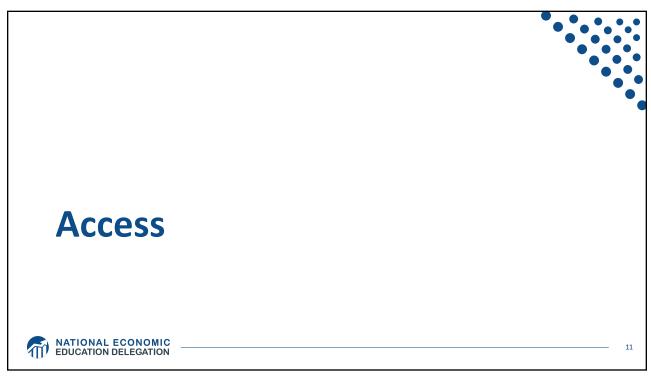


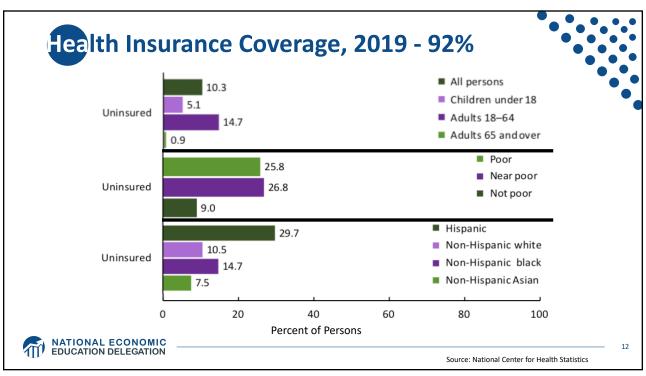


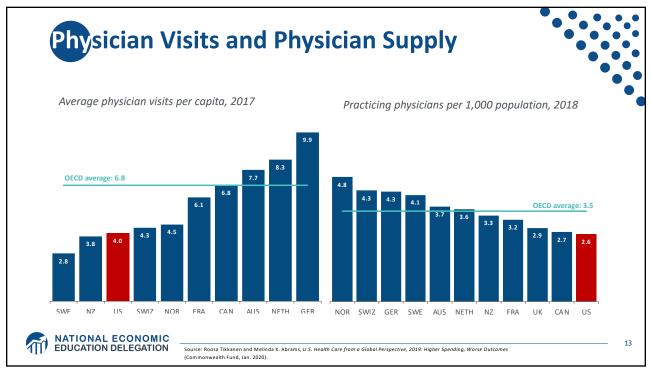
- The market for Health Insurance is where they all come together.
  - Access
  - Quality
  - Cost
- We will discuss metrics of performance for each leg.

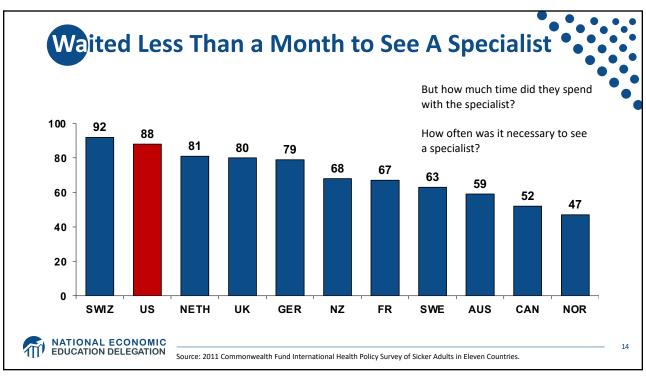


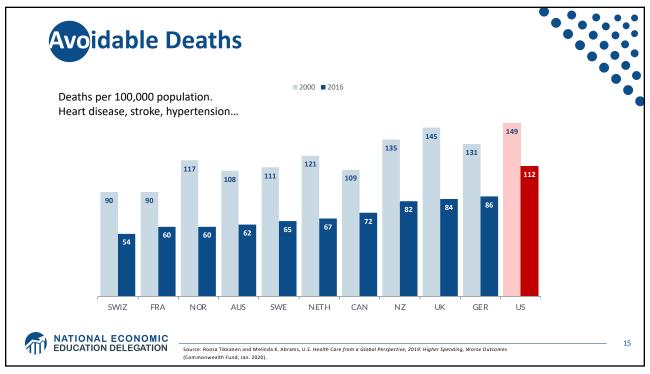
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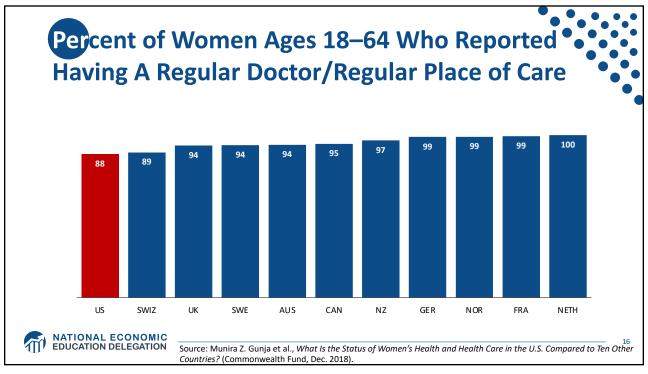


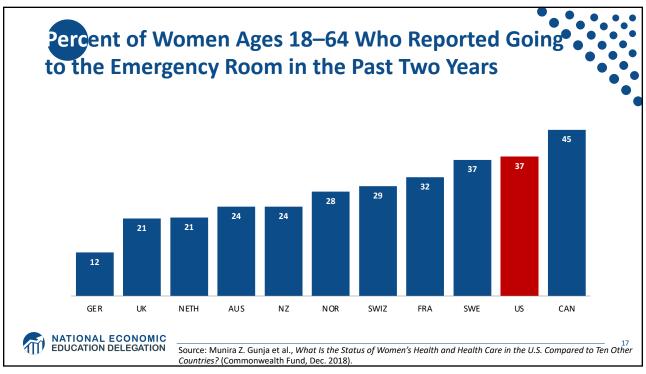










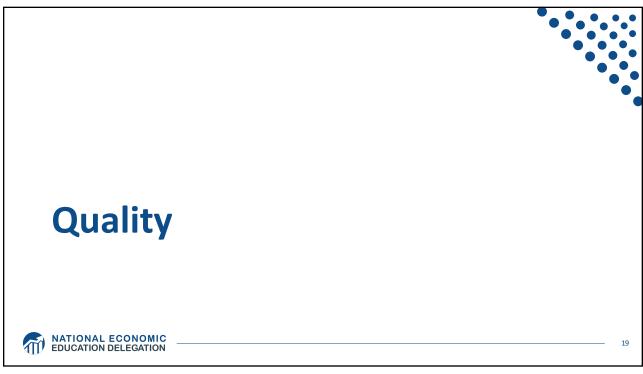


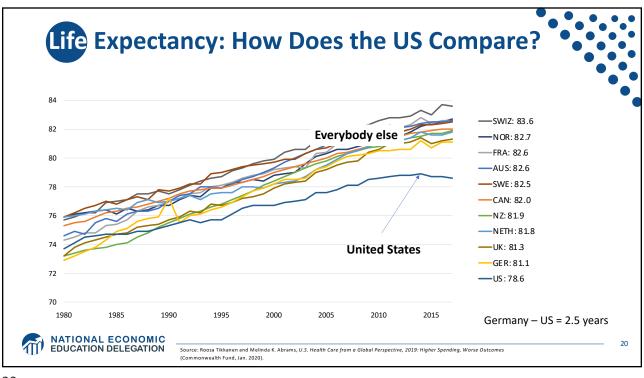
# **Acc**ess Notes

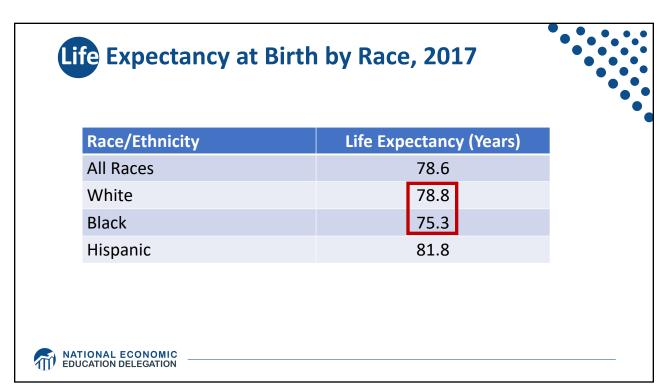
- Insurance coverage in the U.S. is not universal.
- Supply of medical personnel and equipment may be lower than elsewhere.
- Avoidable (amenable) deaths are higher, perhaps indicating less access to care.
- Emergency room use is higher in the U.S. than elsewhere.
- Specialized medicine is more accessible.

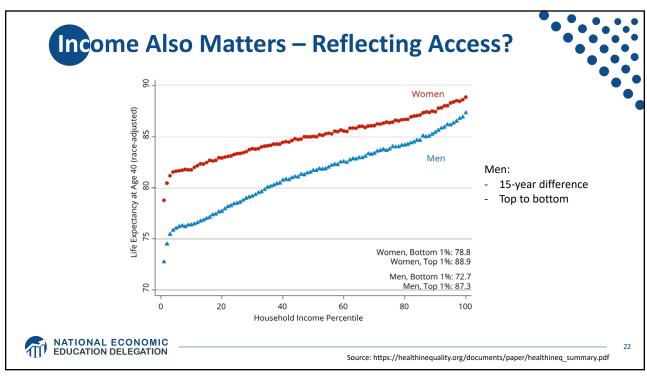


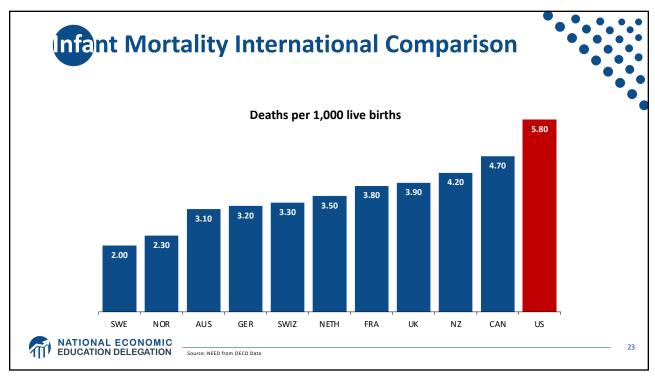
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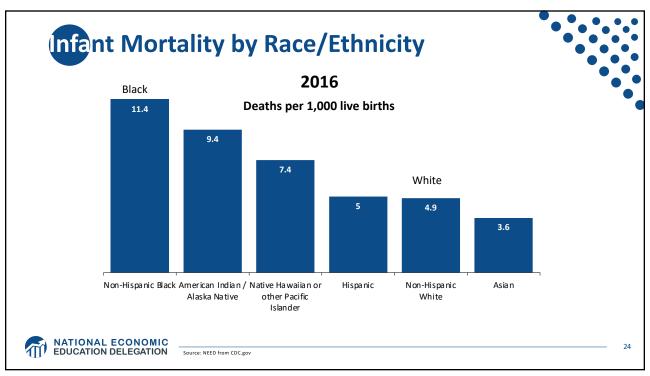


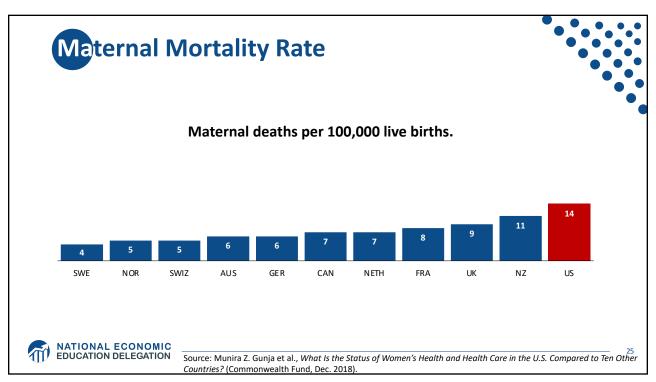


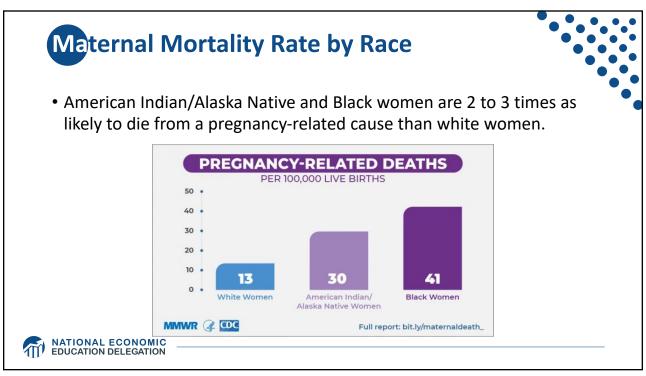


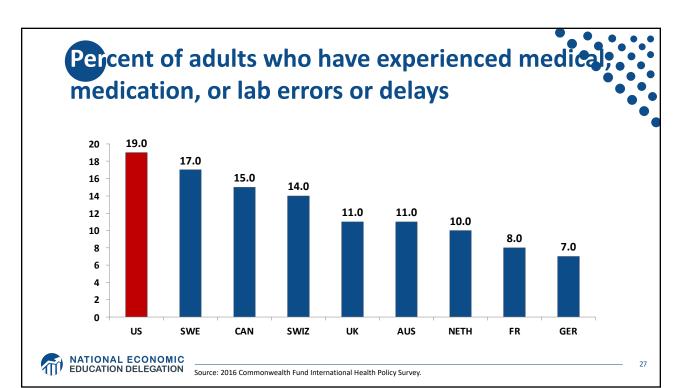










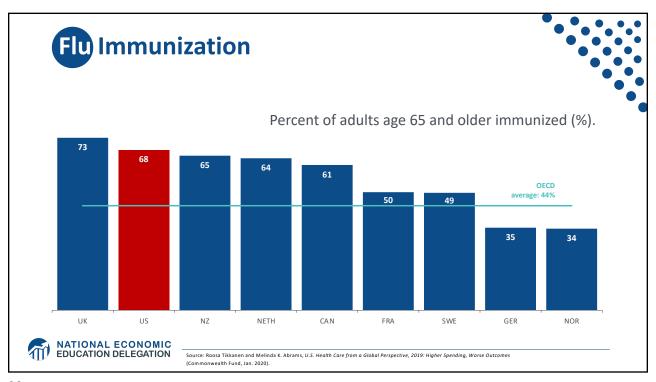


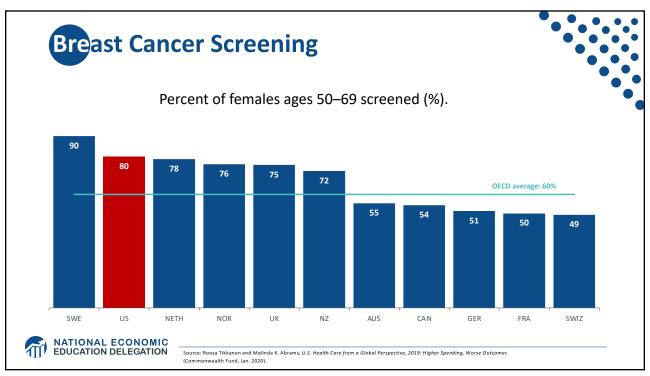
## **Prevention and Screening**

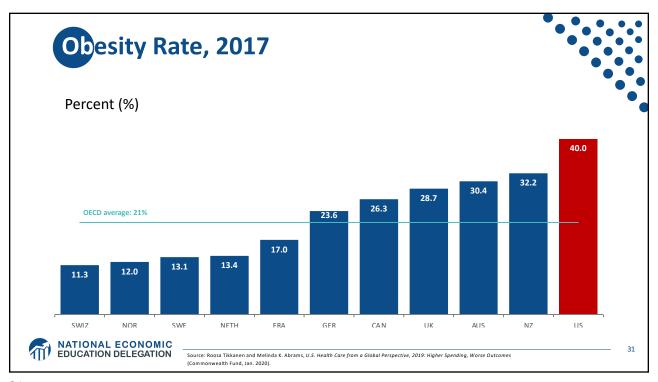


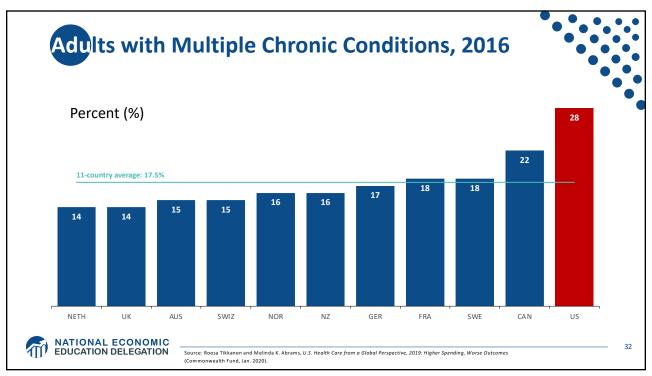
- The U.S. excels in **some** prevention measures:
  - including flu vaccinations and breast cancer screenings.
- The U.S. has:
  - The highest average five-year survival rate for breast cancer,
  - but the Lowest for cervical cancer.



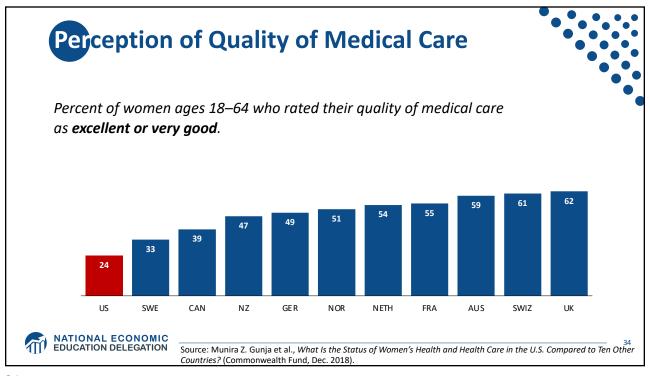




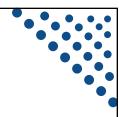












- Metrics of quality in the U.S. are not very good.
- Quality of care is not considered very good in the U.S.
- The system has challenges: obesity/lifestyle.
- The system has bright spots!



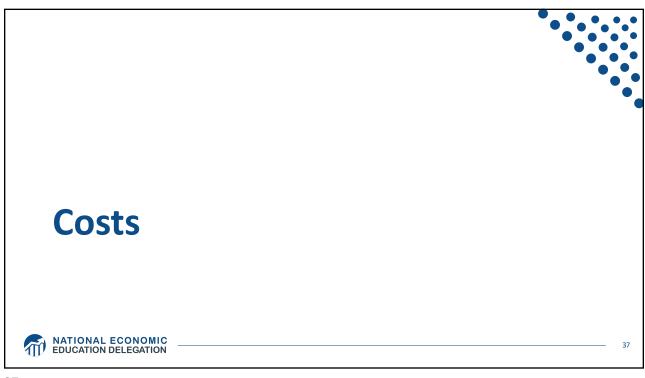
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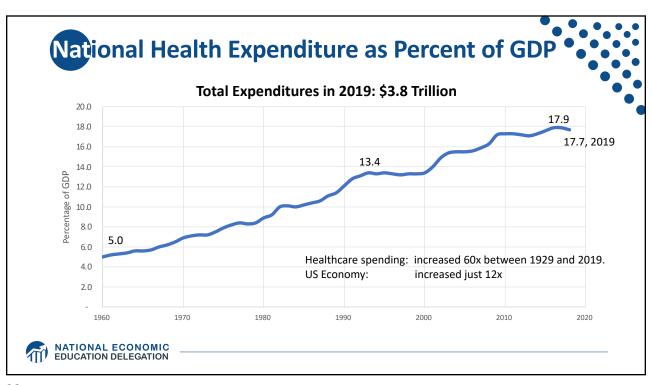
## **A Bit About Quality**

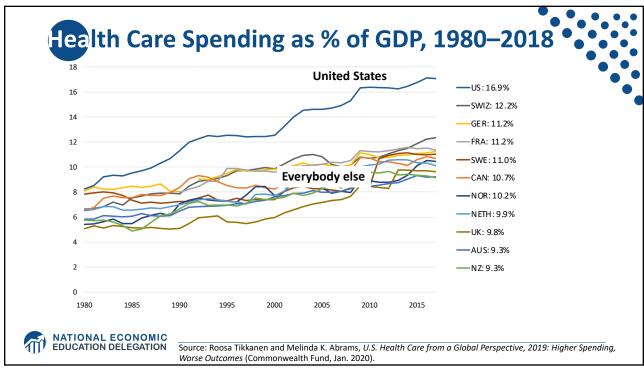


- The U.S. has the highest chronic disease burden.
  - and an obesity rate that is two times higher than the OECD average.
- Americans had **fewer physician visits** than peers in most countries.
  - which may be related to a low supply of physicians in the U.S.
- The U.S. has among the highest # of hospitalizations from preventable causes.
  - and the highest rate of avoidable deaths.
- Americans use some expensive technologies more often than our peers.
  - MRIs, and specialized procedures, such as hip replacements.
- The U.S. outperforms its peers in terms of preventive measures.
  - One of the highest rates of breast cancer screening among women ages 50 to 69.
  - Second-highest rate (after the U.K.) of flu vaccinations among people age 65 and older.







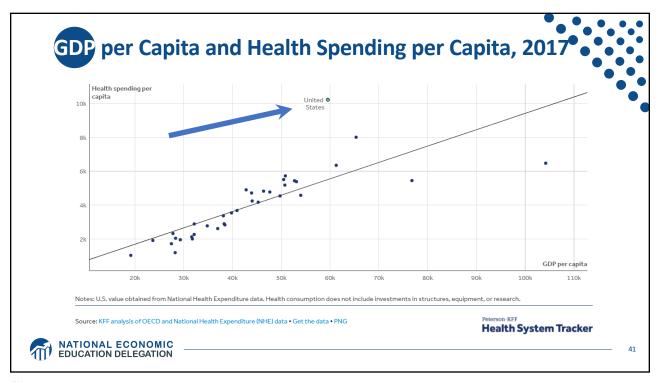


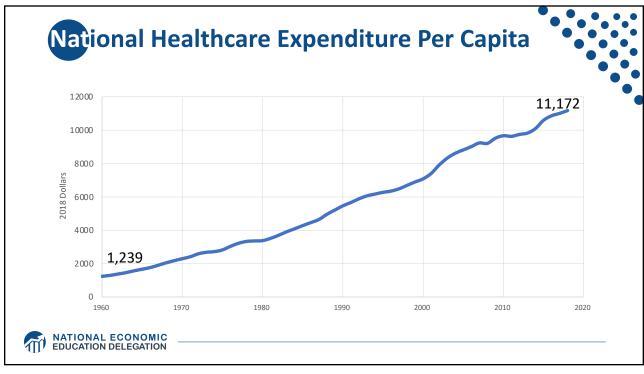
# Why is Healthcare Spending Increasing?

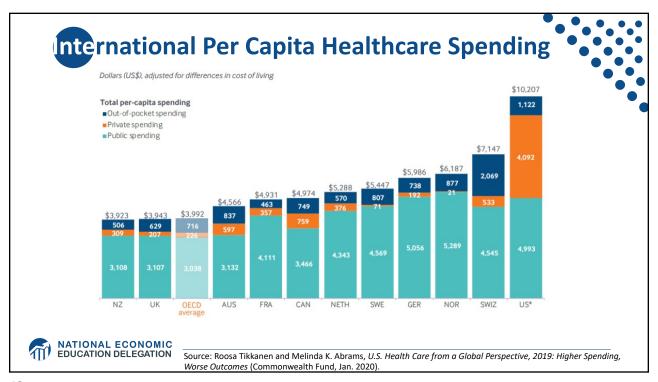


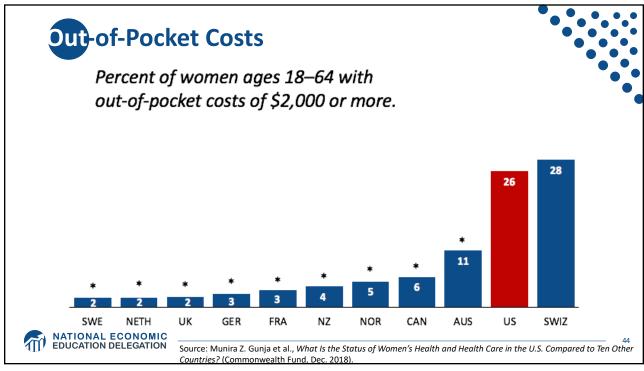
- Costs in the United States, and elsewhere are increasing rapidly.
- The share of economic spending on health care has been steadily increasing for all countries because:
  - Health spending growth has outpaced economic growth.
  - Richer countries demand more services, like attention to health.
- Also because of
  - Advances in medical technologies.
  - Increased demand for services.
  - Rising prices in the health sector why?













#### Why Are Costs so High in the US?



One Reason:

The United States is the only profit-motivated healthcare system in the world.



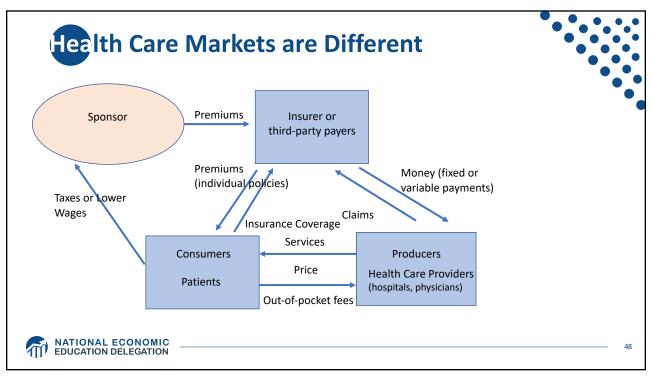
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#### **Markets Matter for Costs**









# **Policy Matters for Costs**



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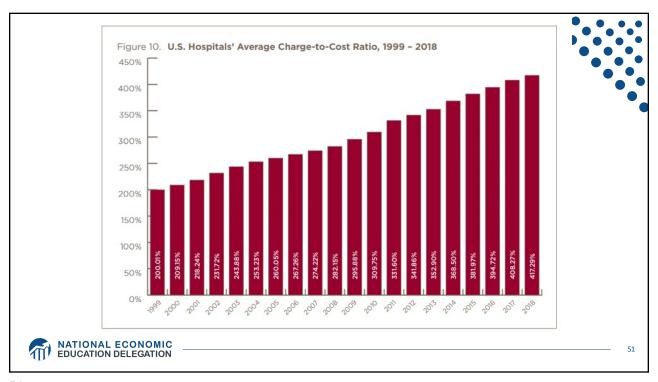


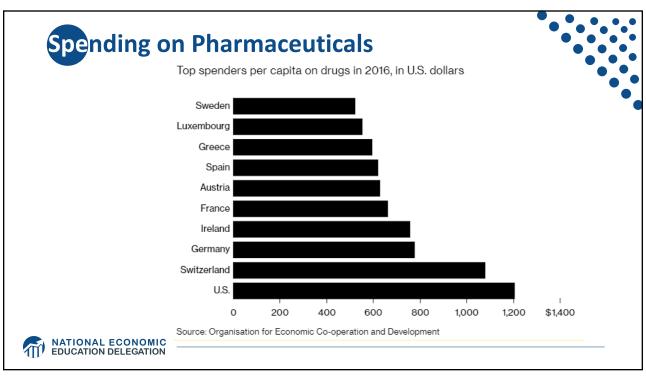


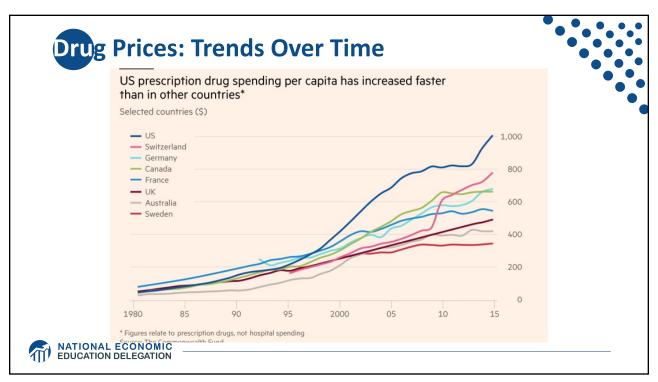
- Market consolidation among and between health systems, hospitals, medical groups, and health insurers has surged over the last decade.
- Over an 18-month period between July 2016 and January 2018:
  - Hospitals acquired 8,000 more medical practices.
  - 14,000 more physicians left independent practice to become hospital employees.

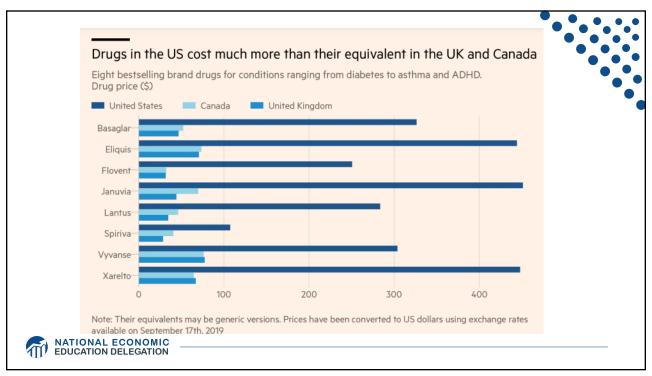


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Drug Prices for 30 Most Commonly Prescribed Brand-Name and Generic Drugs, 2006–07 US is set at 1.00

US Higher

**US** Lower

	AUS	CAN	FR	GER	NETH	NZ	SWITZ	UK	us
Brand-name drugs	0.40	0.64	0.32	0.43	0.39	0.33	0.51	0.46	1.00
Generic drugs	2.57	1.78	2.85	3.99	1.96	0.90	3.11	1.75	1.00



Source: IMS Health; analysis by Gerard Anderson, Johns Hopkins University.

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# **Medicare Modernization Act**



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- Prescription Drug Component
- Medicare Part D, by law, cannot negotiate drug prices like other governments do.
- In 2017, Medicare spent nearly \$8 billion on insulin.
  - The researchers said that if Medicare were allowed to negotiate drug prices like the U.S. Department of Veterans Affairs (VA) can, Medicare could save about \$4.4 billion just on insulin.



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- The number of mergers and acquisitions involving one of the top 25 firms more than doubled:
  - 29 in 2006 to 61 in 2015
- Between 1995 and 2015, 60 drug companies merged into 10.

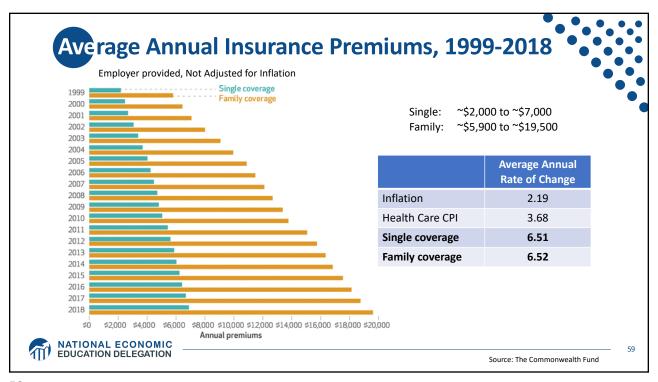


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## Monopolization of Health Insurance Markets

- As of 2011, there were close to **100 insurers** in **Switzerland** competing for consumer health care dollars, **forcing firms to compete** by setting prices to just cover costs.
- In the United States, **markets are state specific** and consumers may choose from plans available in the state in which they reside.
- In 2014, of the 50 states and the District of Columbia:
  - 11 had only 1 or 2 insurers
  - 21 had 3 or 4, and
  - only 19 states had 5 or more. (CA had 11)
- As of July 2019, the number of states with only 1 or 2 insurers had increased from 11 to 20.









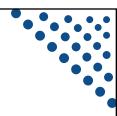
# Health Care Systems and Institutions



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# **Definition: Universal Coverage**



- **Universal coverage** refers to health care systems in which *all* individuals have insurance coverage.
- Generally, this coverage includes:
  - Access to all needed services and benefits.
  - Protects individuals from excessive financial hardships.
    - o Medical indebtedness is the #1 cause of bankruptcies in the United States.
- Canada has universal coverage, the United States does not.



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## Definition: Single-Payer

- king one entity
- Single-payer refers to financing a health care system by making one entity solely and exclusively responsible for paying for medical goods and services.
  - Not necessarily the government.
- It is only the financing component that is socialized.
  - The money for the payment can be either collected by:
    - o Taxes collected by the government.
    - o Premiums collected by National or Public Health Insurance.
- Single-payer systems: 17 countries
  - Norway, Japan, United Kingdom, Kuwait, Sweden, Bahrain, Brunei, Canada, United Arab Emirates, Denmark, Finland, Slovenia, Italy, Portugal, Cyprus, Spain, and Iceland.



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### **Definition: Socialized Medicine**



- Socialized medicine this model takes the single-payer system one step further.
  - Government not only pays for health care but operates the hospitals and employs the medical staff.
- This has NEVER been a part of the debate in the United States.



### **Definition: Third-Party Payer**

- A third-party payer is an entity that pays medical claims on behalf of the insured. Examples of third-party payers include government agencies, insurance companies, health maintenance organizations (HMOs), and employers.
  - Employer-sponsored health plans
  - Individual market health plans
  - National health insurance



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# **Health System Classification**

- Developed countries of the world have each taken a different approach for their health care delivery systems.
- 5 basic models:

- Bismarck

- Beveridge - socialized medicine

(France, Germany, Japan, Switzerland) (United Kingdom, Spain, New Zealand)

- National health insurance

(Canada)

- Out of pocket model self insurance
- Mixed

(United States)



# Model 1: Bismarck



#### • In this model, health insurance is paid for through PREMIUMS.

- Everybody must have insurance, only poor don't have to pay premiums.
- Premiums are paid into the "gov't sickness fund" or directly to private insurers.
- All insurers are private, but can't make money off the sickness fund.

#### • Pros:

- Everybody is covered and can avoid expensive healthcare bills.
- Administrative costs are much lower than in the U.S.
- Little waiting time to receive basic services.

#### • Cons:

- Focus on low costs can mean fewer services are available in rural areas.
- Mandatory premiums are high.
- Longer waiting times for elective services.



https://www.ahaap.org/bismarck-model

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# Model 2: Beveridge



- Everybody has insurance, universal coverage. Everybody receives care at no cost.
- All insurers are public.
- Supplemental insurance is available in the private market.

#### • Pros:

- Universal coverage.
- Government controls quality of care, so cost of care may be low.
- No medical bills or co-pays.

#### • Cons:

- Taxes are high, regardless of use of healthcare.
- Government controls quality of care, so service availability might be low.
- Longer waiting times for non-emergency care.
- Potential for excessive use of the system.

https://www.ahaap.org/beveridge-model

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# **Model 3: National Health Insurance**



- This model has elements of both Beveridge and Bismarck.
  - Like Beveridge: government is the single payer and paid for through taxes.
  - Like Bismarck: All health-care insurers are in the private sector.

#### • Pros:

- Lowers the cost of healthcare for the economy bargaining power.
- Low administrative costs for care.
  No incentive to deny claims.
- Healthier workforce.

#### • Cons:

- Everybody pays regardless of health care received.
- May stop people from being careful about their health.
- Limits payouts to doctors.
- May affect technology adoption.



https://www.ahaap.org/national-health-insurance-model

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# **US**Health Care System



- Medicare National Health Insurance
- Military Veteran Care Beveridge model (socialized medicine)
- Employer-sponsored insurance Bismarck model
- Individual market health plans Bismarck model
- Uninsured Out of pocket model



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Tradeoffs take place among the three legs:

- Increasing quality in health care may lead to higher health care costs.
  - This means a compromise in access (affordability).
- I.e., with increasing quality, access may suffer.
- By increasing access, quality may suffer.
- By decreasing costs, quality may suffer.



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# Summary



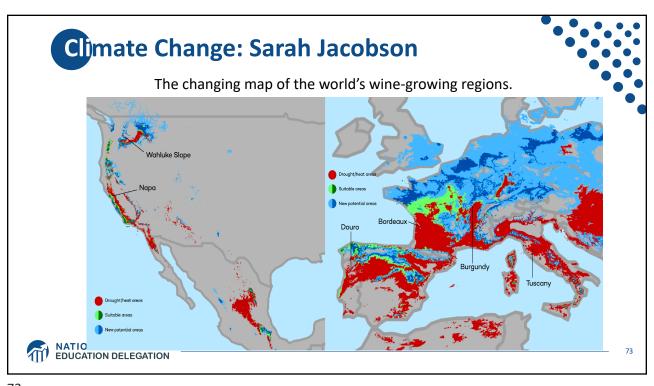


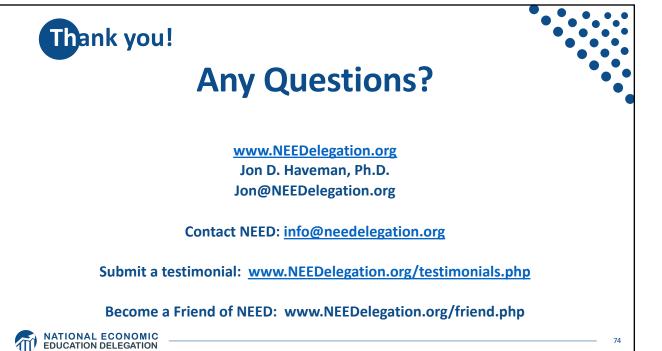


- Hospitals, health insurance, big pharma, physicians, etc.
- A few simple solutions could drastically reduce costs:
  - Enforcement of antitrust laws in this sector.
  - Introduction of a public option in the health insurance market.
  - Ability for the US government to negotiate drug prices like most every other nation.
- Universal health insurance would increase access and perhaps also reduce costs.
- But there are always tradeoffs: you can pick two, but the third may suffer.



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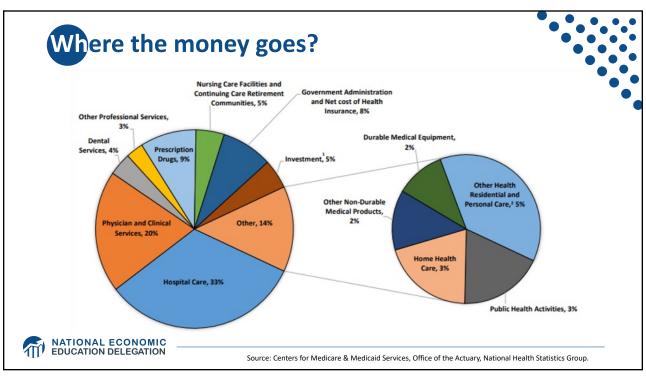






- Health economics studies health care resource markets and health insurance.
- Healthcare is the biggest industry and the largest employer in the US.



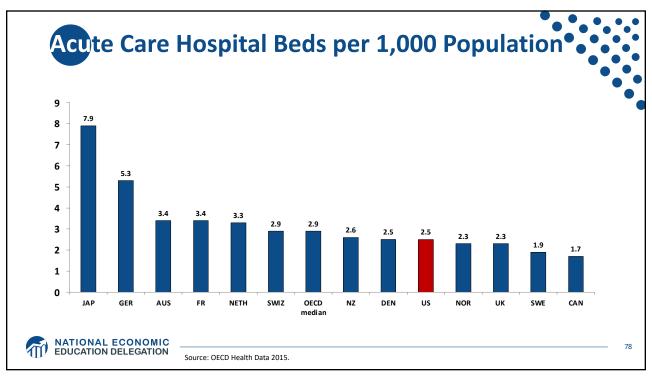


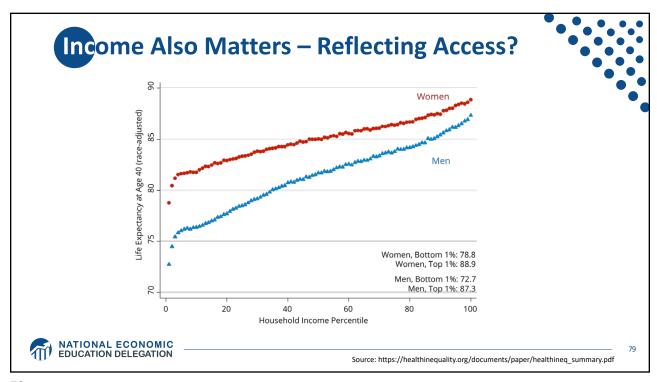
### What is a Market?

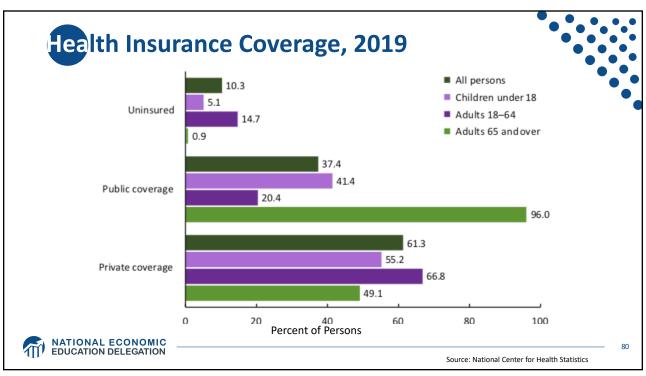
- A market is a group of buyers and sellers of a particular product in the area or region under consideration. The area may be the earth, or countries, regions, states, or cities.
- The concept of a market is any structure that allows buyers and sellers to exchange any type of goods, services, and information.
- Markets can be physical and non-physical.
- There are many different types of markets and depending on the type, different rules should be set up to achieve the best results for society.

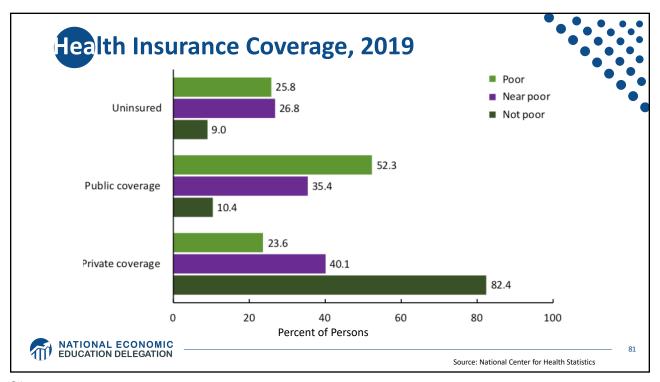


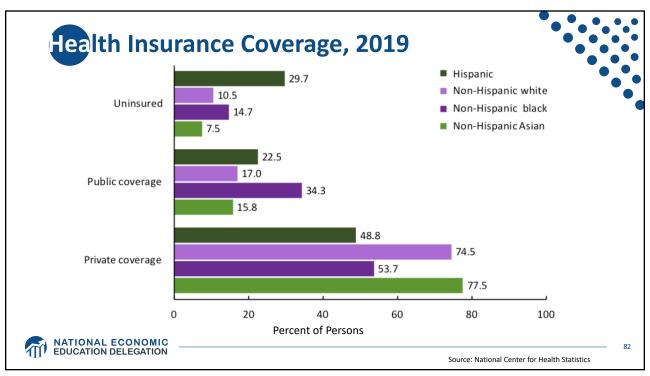
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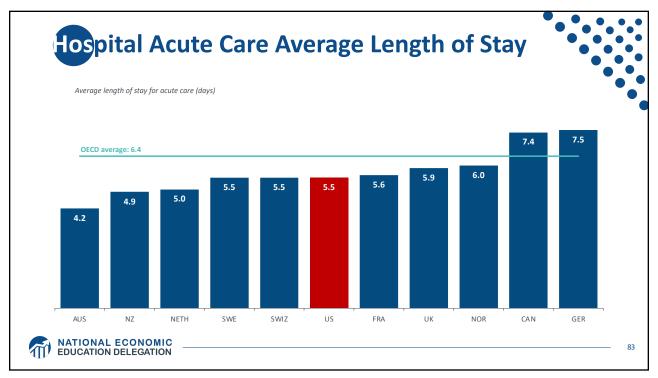


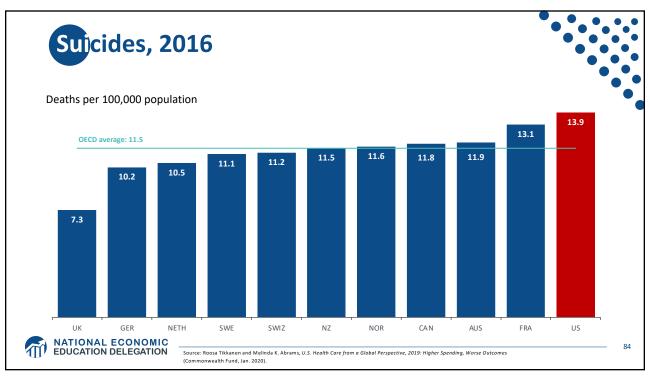


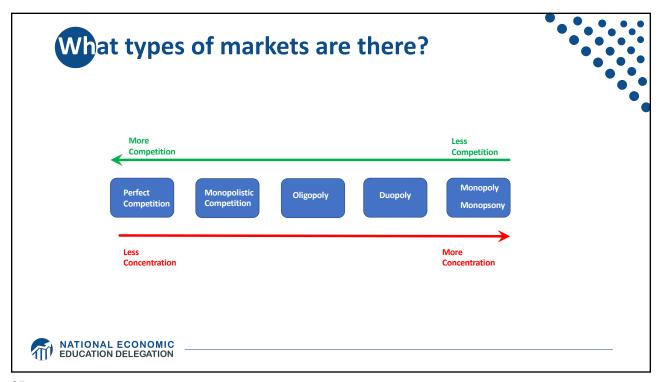


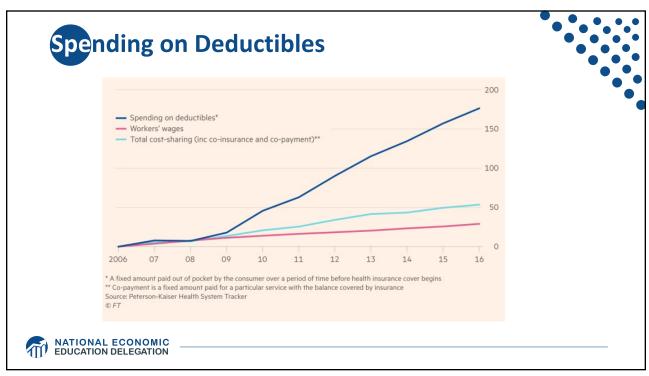












### **Hospital Monopolization Across the Nation**

- Most of the top 100 most expensive hospitals are located in states in the west and south.
  - Florida had the highest number, with 40 hospitals.
  - Other top states included Texas with 14 hospitals, Alabama with eight, Nevada with seven, and California with six.
- Hospitals Charge Patients More Than Four Times the Cost of Care
- The most expensive hospitals cost of care range from 1,808 % at the high end to 1,129 % at the low end.



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# **Big Pharma**





- Turing Pharmaceuticals' 5,555% price increase of Daraprim in 2015 and Mylan's 500% increase of EpiPen prices...
- More than 3,400 drugs boosted their prices in the first six months of 2019, an increase of 17% in the number of drug hikes from a year earlier.
  - The average price hike is 10.5%, or 5 times the rate of inflation.
- About 41 drugs boosted their prices by more than 100% in 2019.
- Over 10 years, the net cost of prescription drugs in the United States rose more than THREE TIMES FASTER than the rate of inflation.



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## Reasons for higher drug prices



- The Medicare Prescription Drug, Improvement, and Modernization Act, also called the **Medicare Modernization Act** or MMA, is a federal law of the United States, enacted in 2003.
  - Prohibits government negotiation of lower prices.
- Growing concentration of pharmaceutical companies.



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