

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

Sausalito Rotary Club November 3, 2022

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NEED





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#### • This slide deck was authored by:

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- What is Health(care) Economics?
- Health Insurance and Outcomes
- Health Care Systems and Institutions
- Health Insurance and Reform







- 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.



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# **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**.
- 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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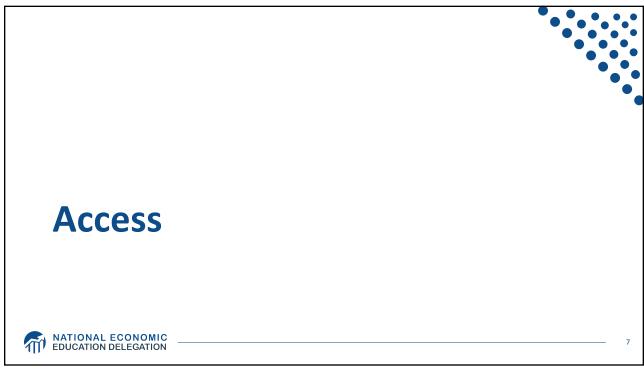
# The Three Legs of the Healthcare Stool

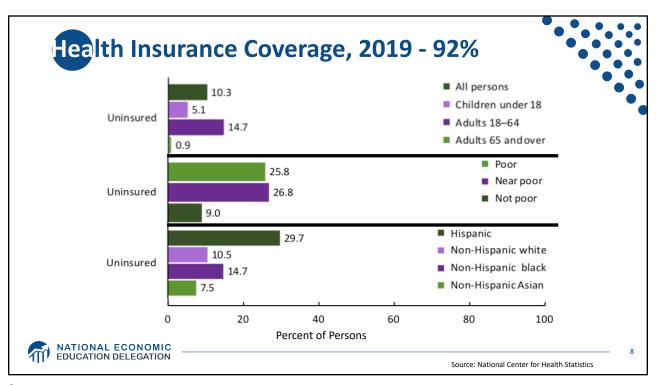


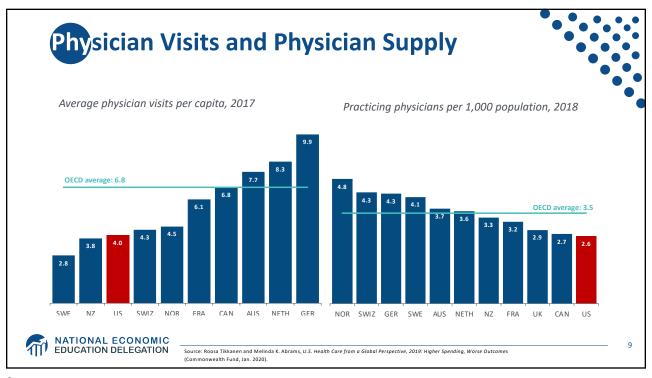
- The market for Health Insurance is where they all come together.
  - Access
  - Quality
  - Cost
- We will discuss metrics of performance for each.



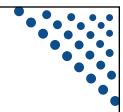
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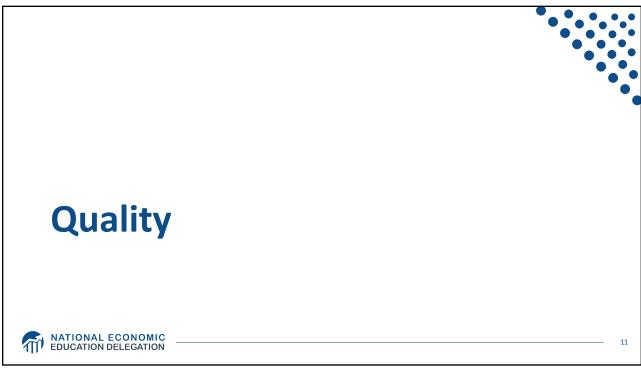
# **Access Notes**

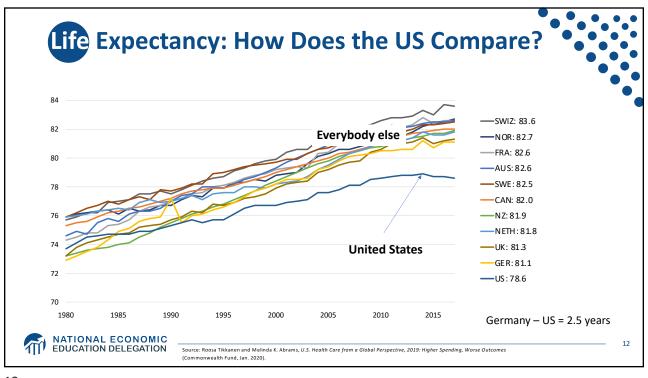


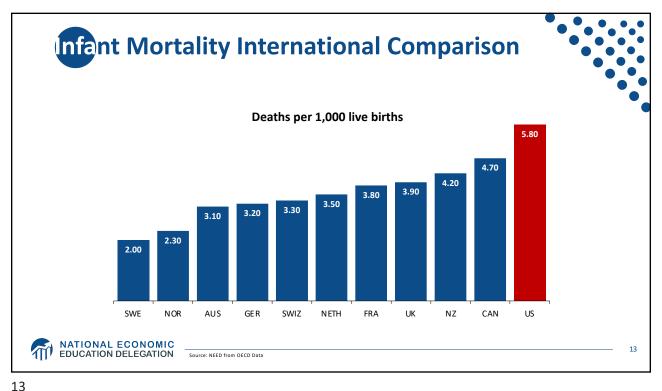
- Insurance coverage in the U.S. is not universal.
- Supply of medical personnel and equipment may be lower than elsewhere.
- Avoidable (amenable) deaths are higher, perhaps indicating less access to care.
- Emergency room use is higher in the U.S. than elsewhere.
- Specialized medicine is more accessible.



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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.



#### The World Health Report 2000, Health Systems. **Improving Performance Overall Ranking Overall Ranking** 1. France 30. Canada 2. 31. Italy Finland San Marino Australia 4. 33. Chile Andorra Malta Denmark 6. 35. Singapore Dominica 36. Spain Costa Rica

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Slovenia

Cuba



Oman Austria

Japan

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# **Quality of Care Notes**

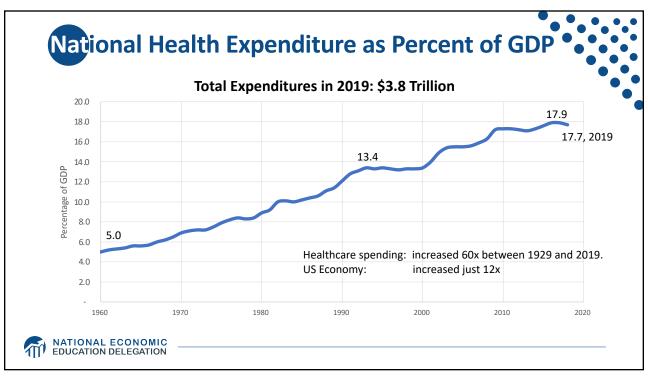


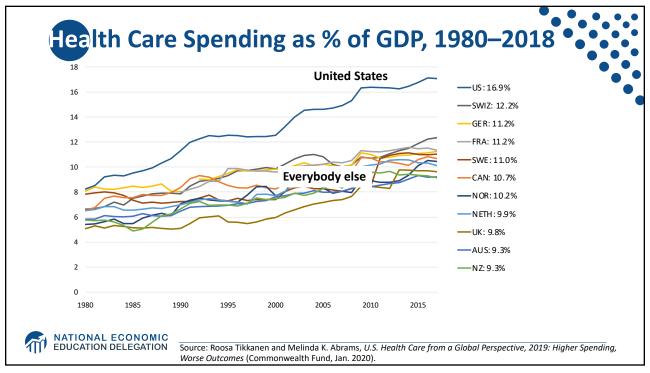
- Metrics of quality in the U.S. are not very good.
- Quality of care is not considered very good in the U.S.
- The system has challenges: obesity/lifestyle.
- The system has bright spots!



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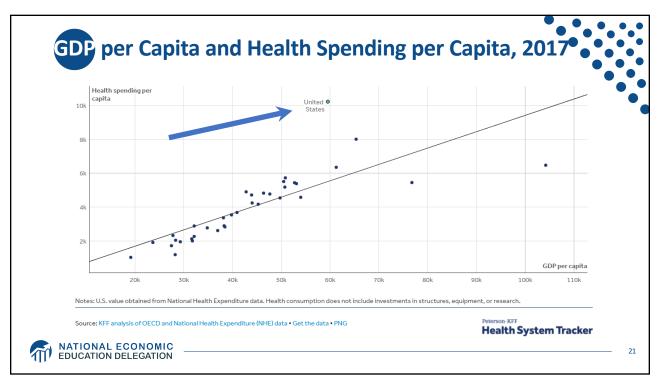


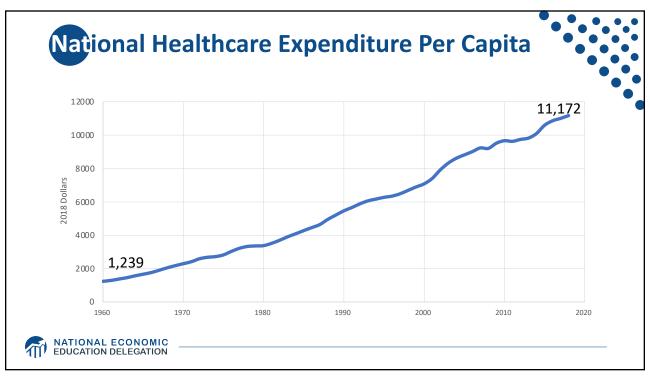
# Why is Healthcare Spending Increasing?

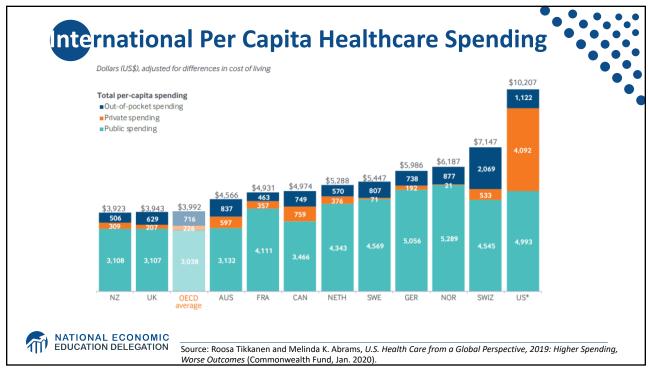


- Costs in the United States, and elsewhere are increasing rapidly.
- The share of economic spending on health care has been steadily increasing for all countries because:
  - Health spending growth has outpaced economic growth.
  - Richer countries demand more services, like attention to health.
- Also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













### **Markets Matter for Costs**



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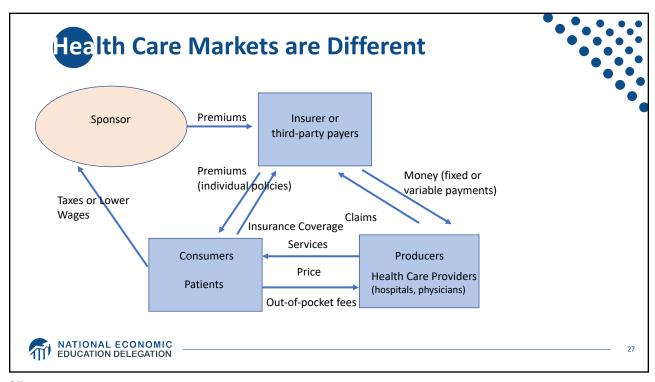


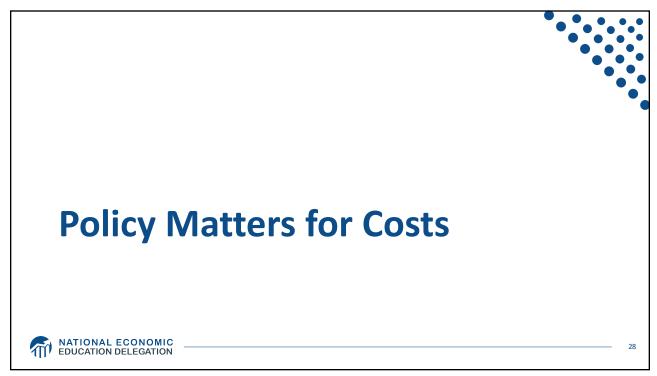


- Market Structure
- Type of products and services
- Principal-Agent Problem
- Asymmetric Information
- Moral Hazard
- Moral Imperative (?)



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# **Hospital Monopolization**

- 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 Price Comparisons**

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

US Higher

**US Lower** 

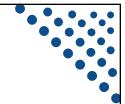
	AUS	CAN	FR	GER	NETH	NZ	SWITZ	UK	US
Brand-name drugs	0.40	0.64	0.32	0.43	0.39	0.33	0.51	0.46	1.00
Generic drugs	2.57	1.78	2.85	3.99	1.96	0.90	3.11	1.75	1.00



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

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# **Medicare Modernization Act**



- 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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# **concentration in Pharmaceutical Companies**



- 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.



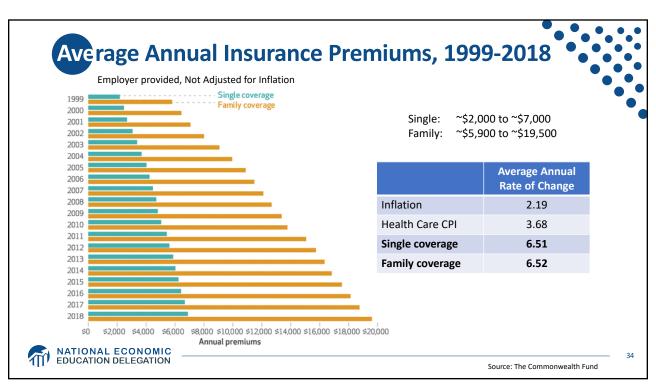
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### **Monopolization of Health Insurance Market**

- 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 has 11)
- As of July 2019, the number of states with only 1 or 2 insurers had increased from 11 to 20.



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## Reason for Higher Health Insurance Rates



- Rising prices in the health sector
- Advances in medical technologies
- Increased demand for services
- Concentration of insurance companies!



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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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## **Any Questions?**

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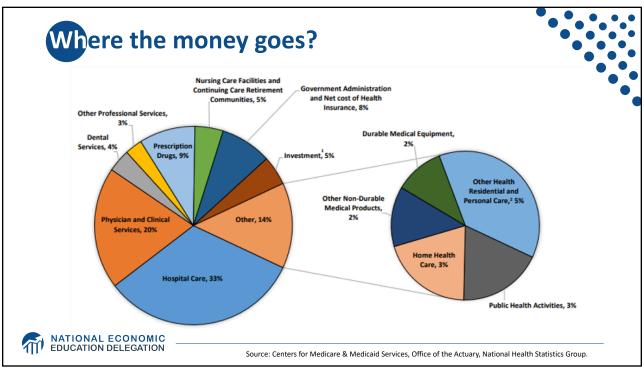
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- Health economics studies health care resource markets and health insurance.
- Healthcare is the biggest industry and the largest employer in the US.

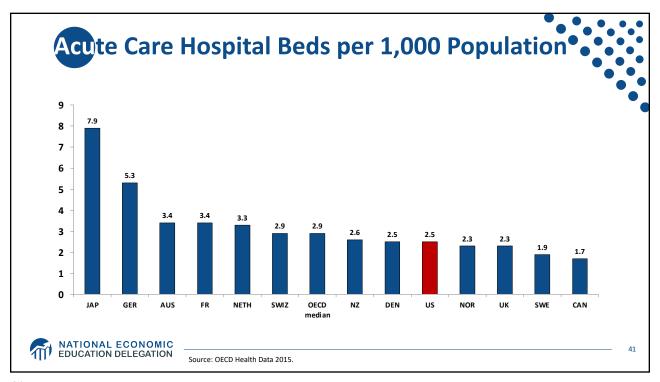


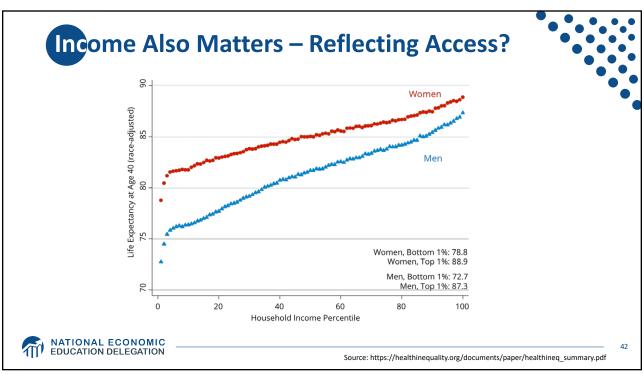


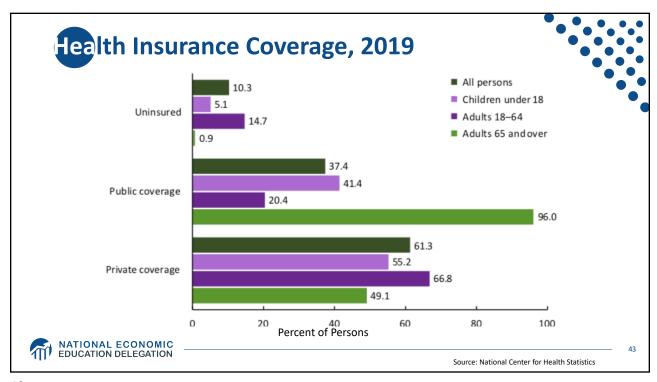
# What is a Market?

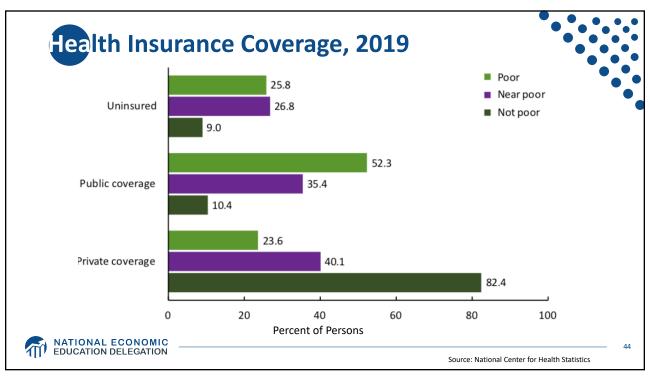
- A market is a group of buyers and sellers of a particular product in the area or region under consideration. The area may be the earth, or countries, regions, states, or cities.
- The concept of a market is any structure that allows buyers and sellers to exchange any type of goods, services, and information.
- 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.

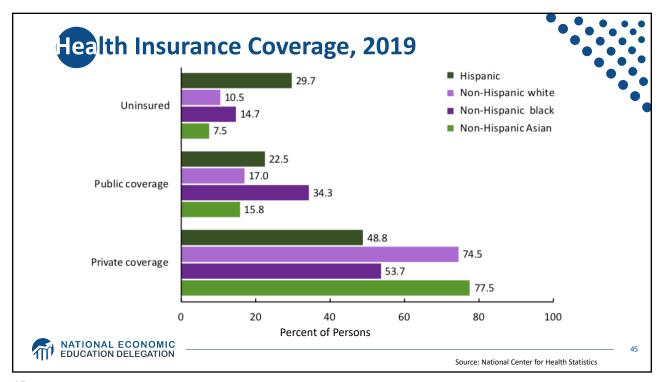


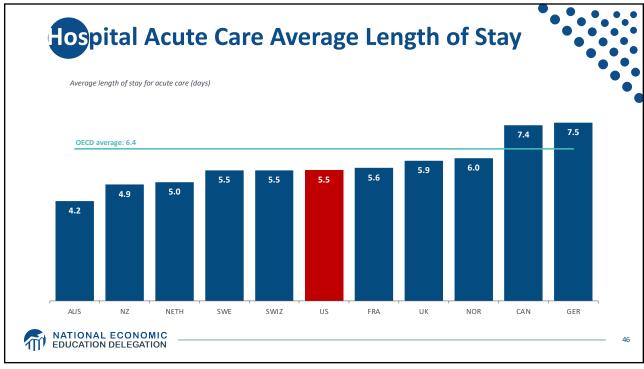


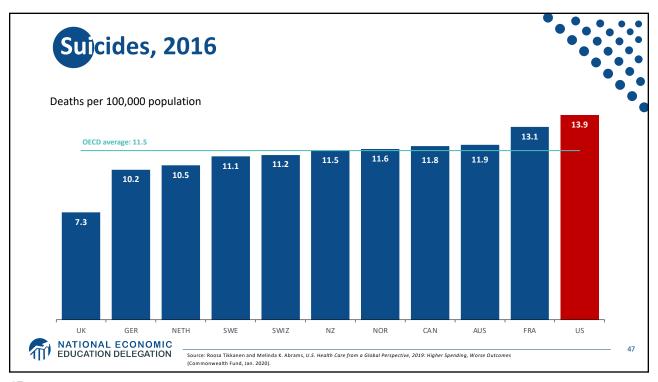


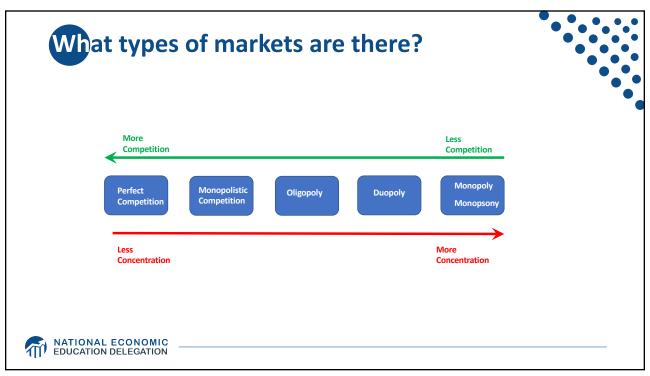


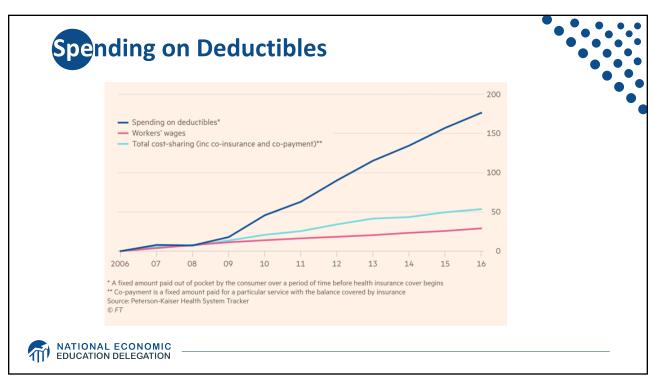












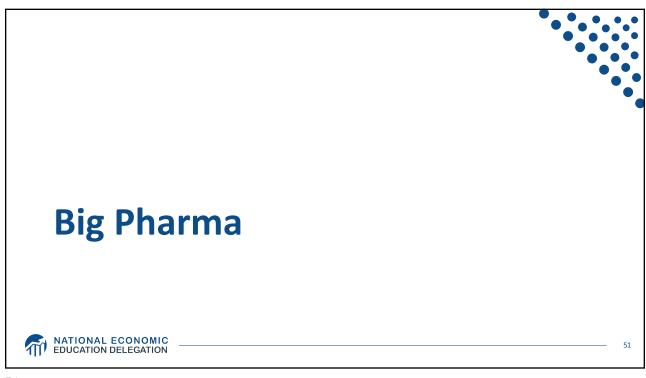
# **Hospital Monopolization Across the Nation**

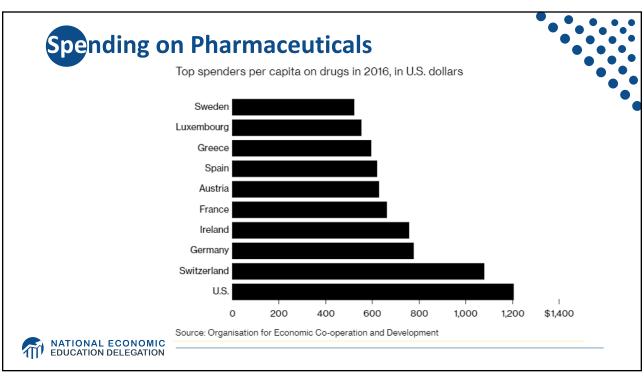


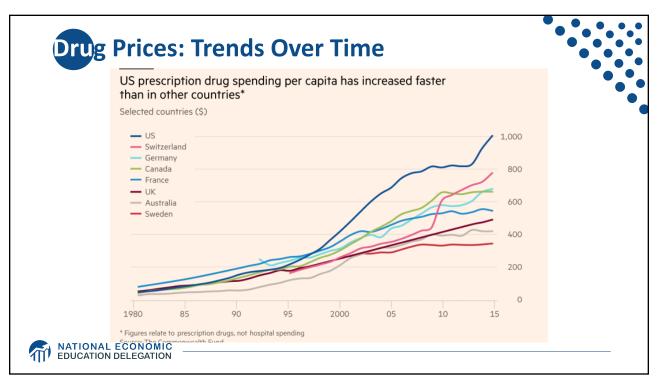
- Most of the top 100 most expensive hospitals are located in states in the west and south.
  - Florida had the highest number, with 40 hospitals.
  - Other top states included Texas with 14 hospitals, Alabama with eight, Nevada with seven, and California with six.
- Hospitals Charge Patients More Than 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.

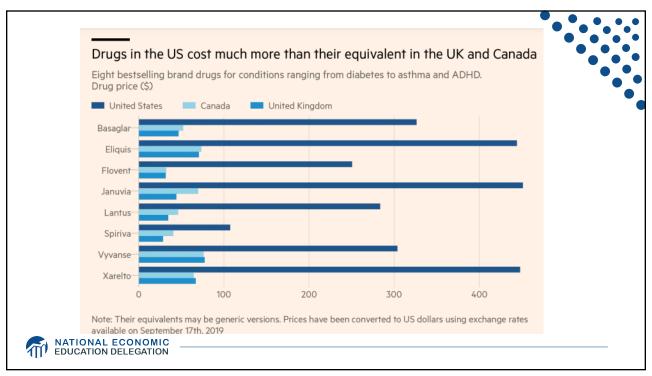


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- Turing Pharmaceuticals' 5,555% price increase of Daraprim in 2015 and Mylan's 500% increase of EpiPen prices...
- More than 3,400 drugs boosted their prices in the first six months of 2019, an increase of 17% in the number of drug hikes from a year 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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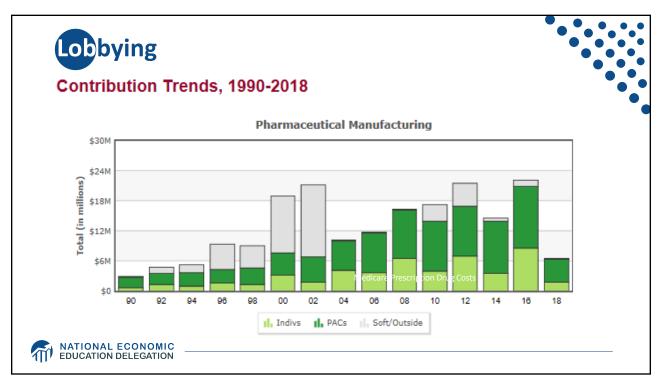
# Reasons for higher drug prices

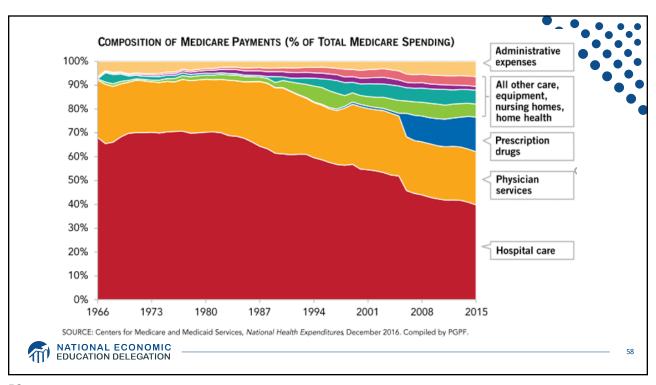


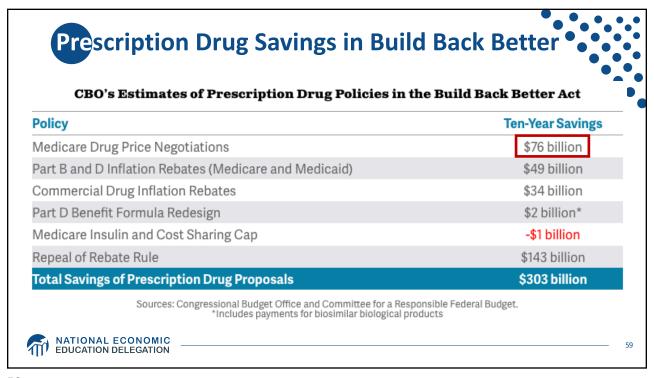
- The Medicare Prescription Drug, Improvement, and Modernization Act, also called the **Medicare Modernization Act** or MMA, is a federal law of the United States, enacted in 2003.
  - Prohibits government negotiation of lower prices.
- Growing concentration of pharmaceutical companies.

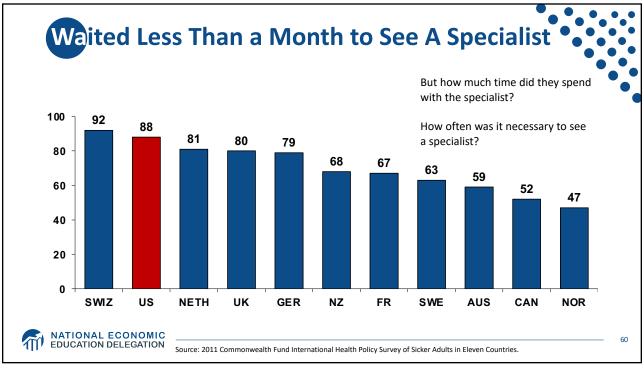


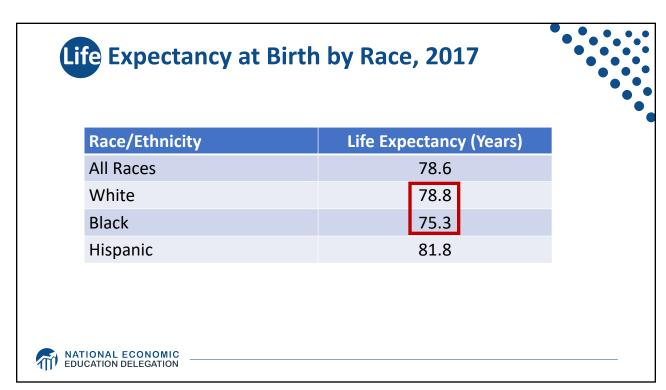
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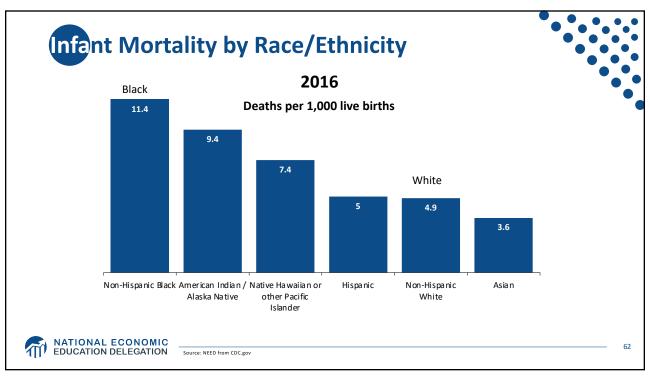


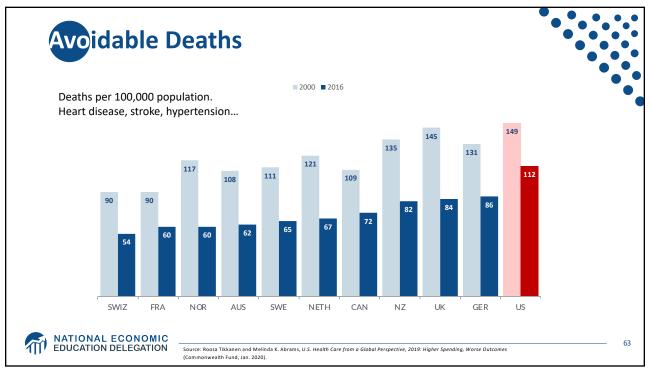


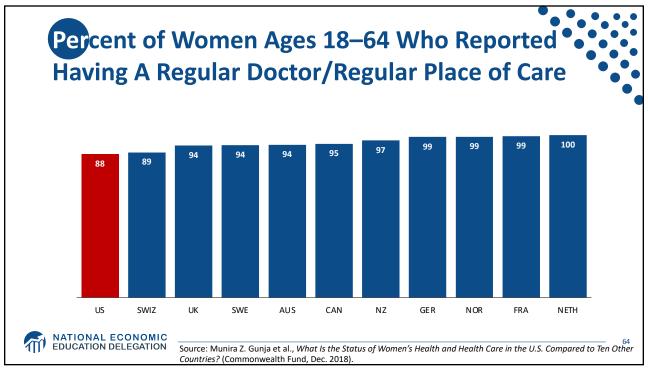


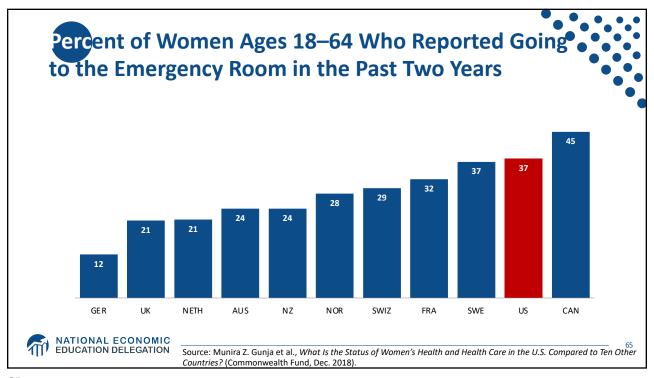


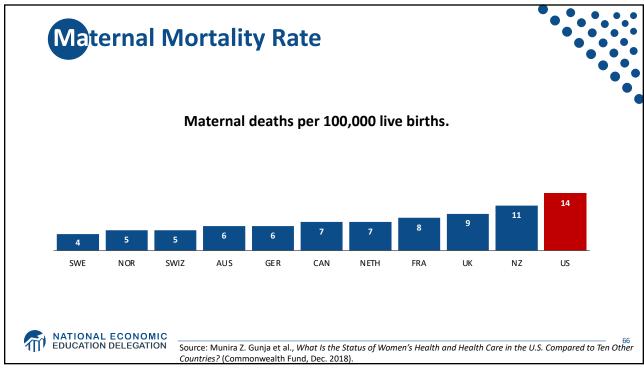


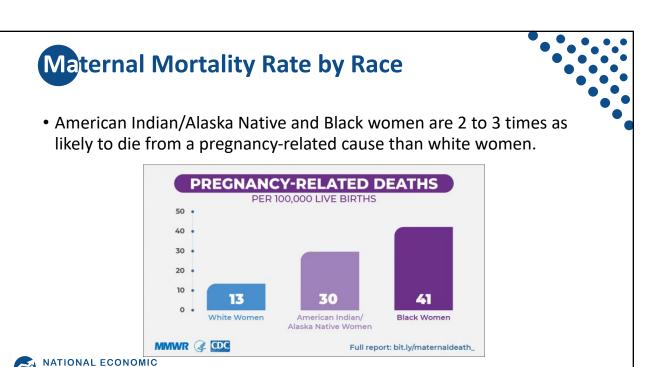




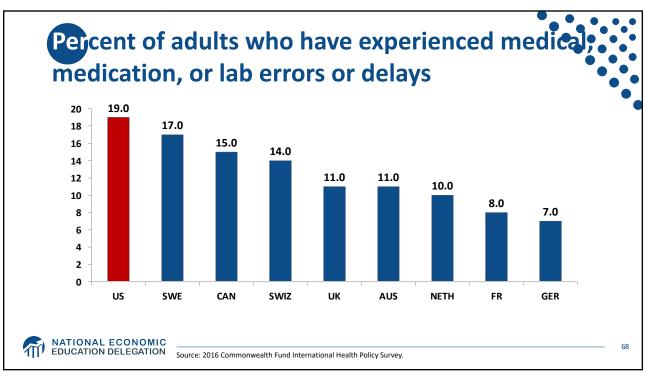








EDUCATION DELEGATION

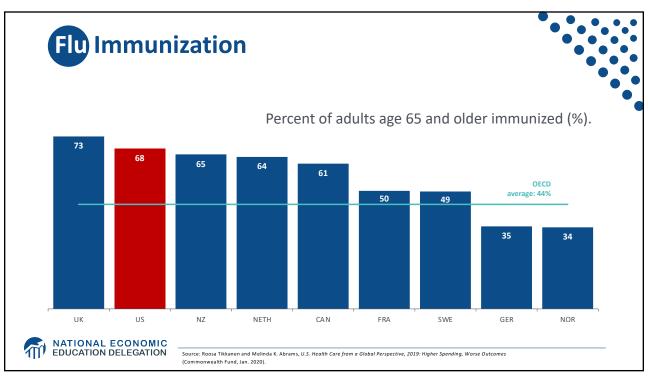


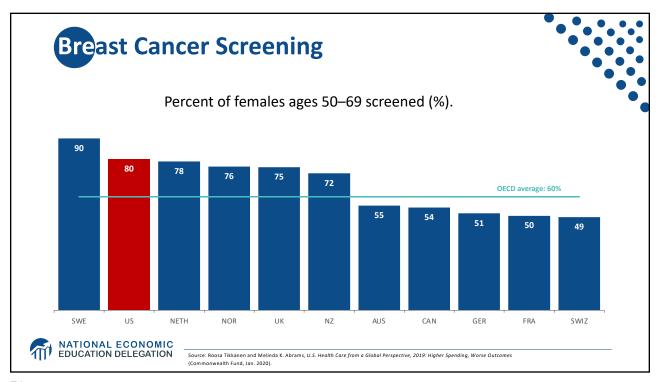
## **A Bit About Quality**

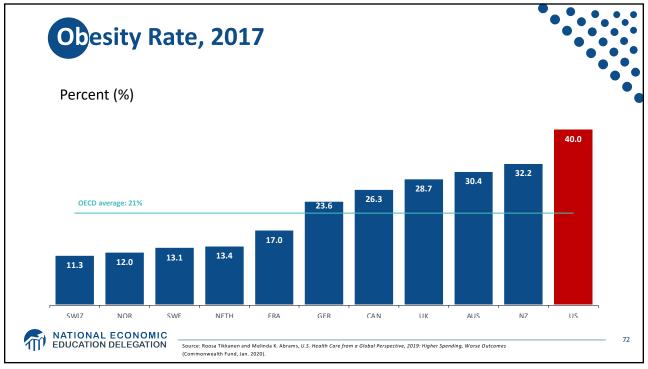
- The U.S. has the highest chronic disease burden.
  - and an obesity rate that is two times higher than the OECD average.
- Americans had **fewer physician visits** than peers in most countries.
  - which may be related to a low supply of physicians in the U.S.
- The U.S. has among the highest # of 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.

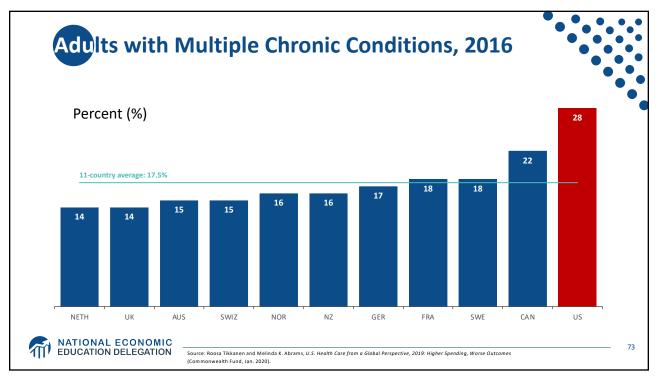


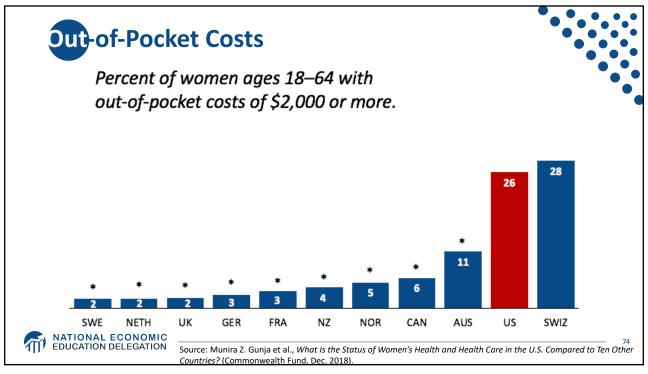
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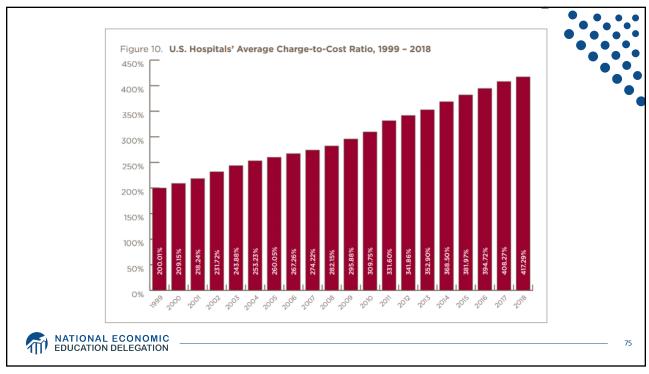
















Tradeoffs take place among the three legs:

- 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.



