

Health(care) Economics

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NEED





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National Economic Education Delegation



Vision

- One day, the public discussion of policy issues will be grounded in an accurate perception of the underlying economic principles and data.

Mission

 NEED unites the skills and knowledge of a vast network of professional economists to promote understanding of the economics of policy issues in the United States.

NEED Presentations

- Are **nonpartisan** and intended to reflect the consensus of the economics profession.



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Honorary Board: 54 members

- 2 Fed Chairs: Janet Yellen, Ben Bernanke
- 6 Chairs Council of Economic Advisers
 - o Furman (D), Rosen (R), Bernanke (R), Yellen (D), Tyson (D), Goolsbee (D)
- 3 Nobel Prize Winners
 - o Akerlof, Smith, Maskin

Delegates: 600+ members

- At all levels of academia and some in government service
- All have a Ph.D. in economics
- Crowdsource slide decks
- Give presentations

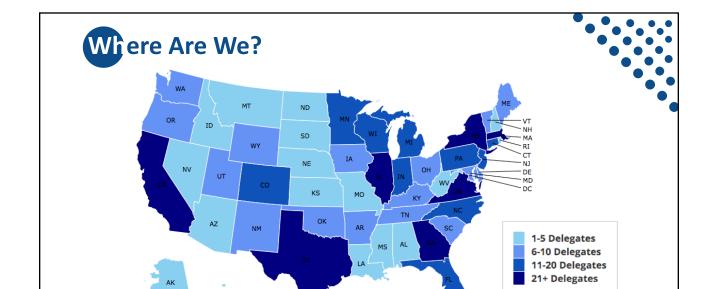
• Global Partners: 44 Ph.D. Economists

- Aid in slide deck development



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Credits and Disclaimer



- This slide deck was authored by:
 - Veronika Dolar, SUNY Old Westbury
 - Jon Haveman, NEED
- 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.
 - Such views are those of the presenter and not necessarily those of the National Economic Education Delegation (NEED).



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- What is Health(care) Economics?
- Taking the Pulse of the Health Economy
- 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.



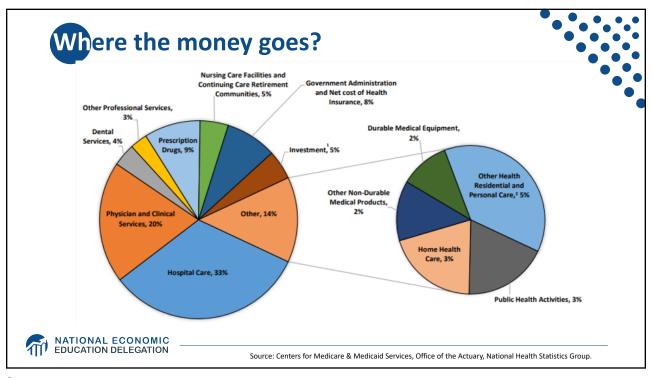
Health Economics is part of Microeconomics

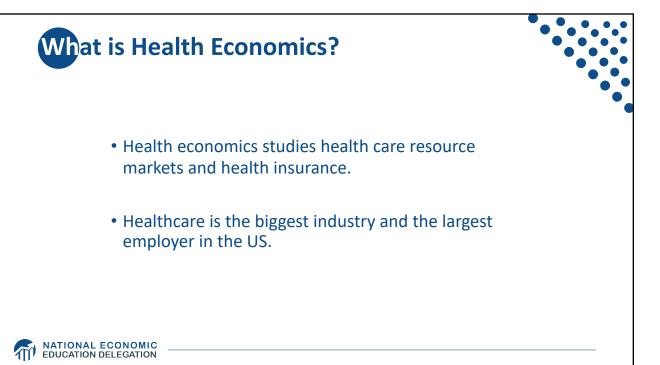


- Although health economics is part of "micro-" economics, it is actually very big:
 - In 2019, U.S. national health expenditure were **17.7% of GDP**, which is equivalent to around **\$3.8 billion**.
 - U.S. Healthcare is the 5^{th} largest economy in the world.
- For comparison, GDP in each country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

Germany: \$3,845 billion (4th largest economy)
 UK: \$2,827 billion (6th largest economy)
 France: \$2,715 billion (7th largest economy)









- 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 for achieve the best results for society.



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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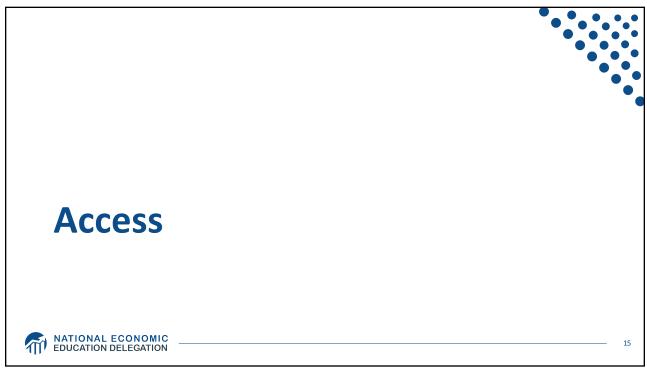
The Three Legs of the Healthcare Stool

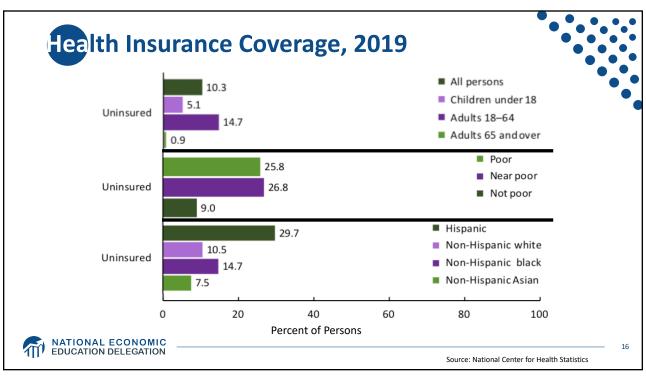


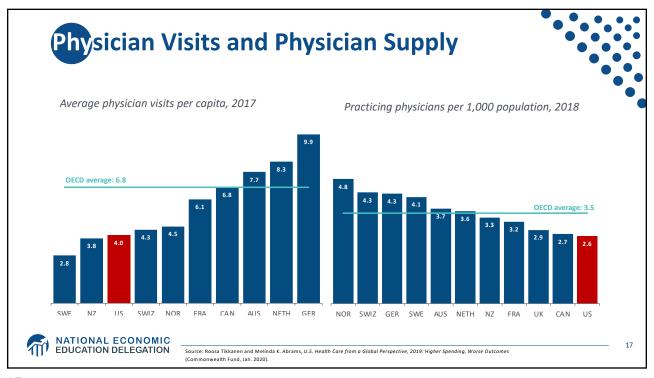
- The market for Health Insurance is where they all come together.
 - Access
 - Quality
 - Cost
- We will discuss metrics of performance for each.

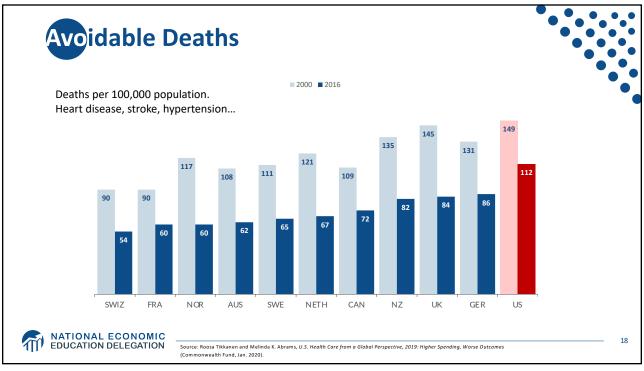


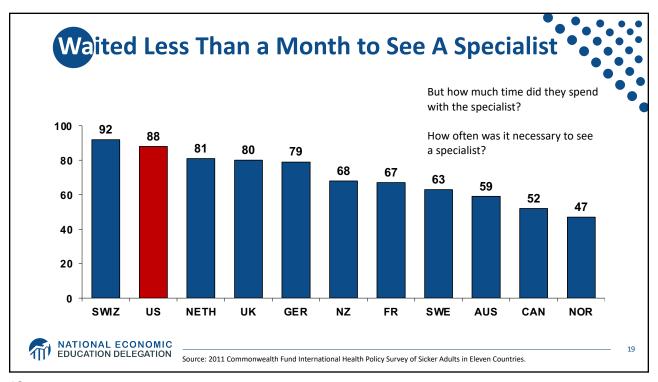
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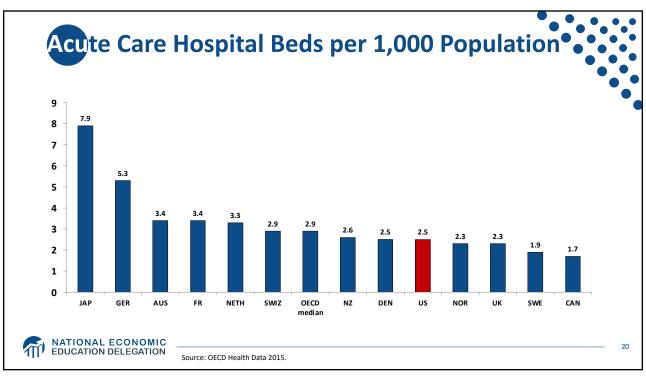


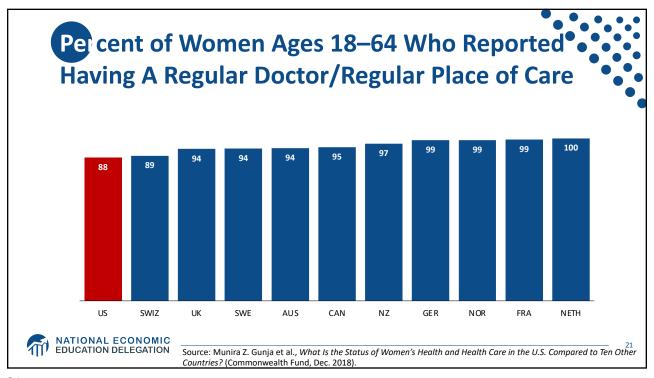


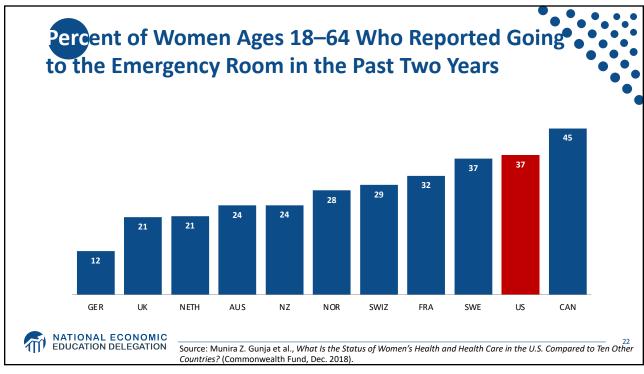
















- Insurance coverage in the U.S. is not universal.
- Supply of medical personnel and equipment may be lower than elsewhere.
- Avoidable (amenable) deaths are higher, perhaps indicating less access to care.
- Emergency room use is higher in the U.S. than elsewhere.
- Specialized medicine is more accessible.

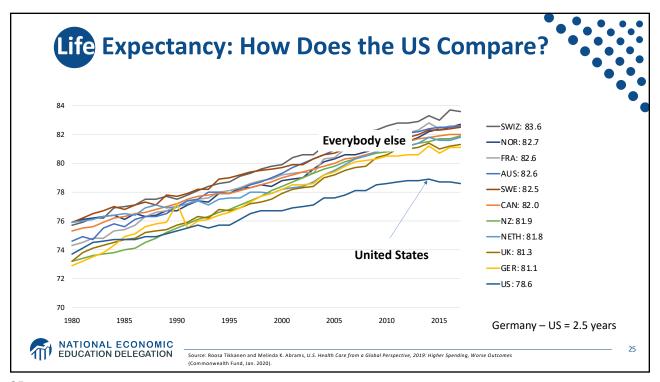


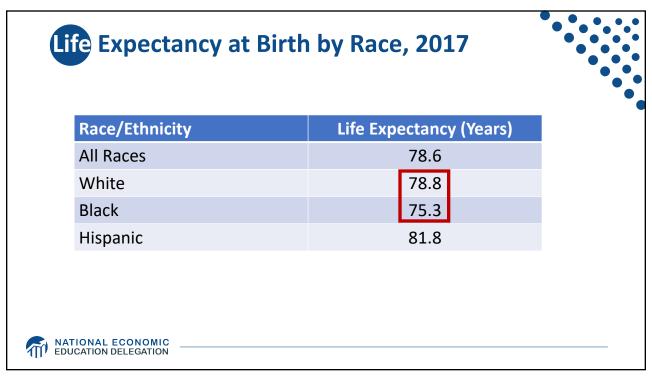
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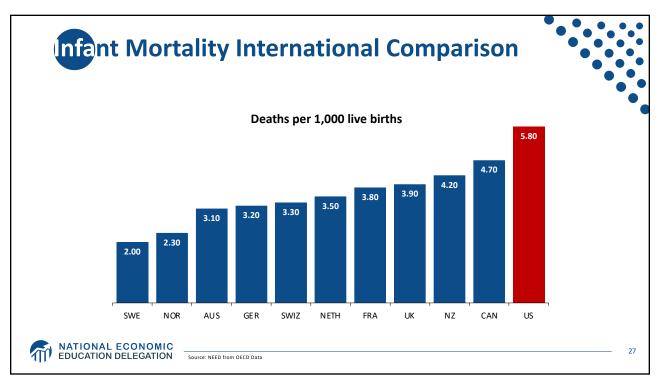
Quality

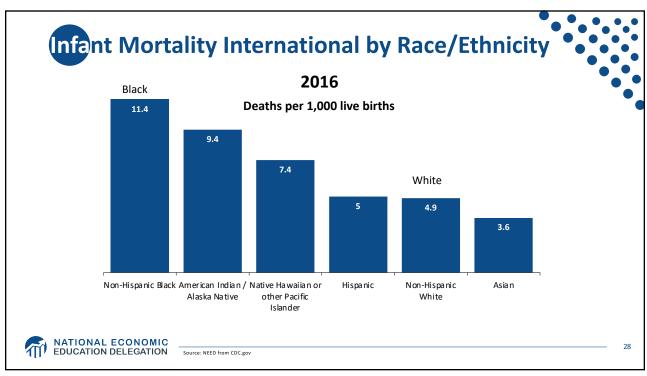


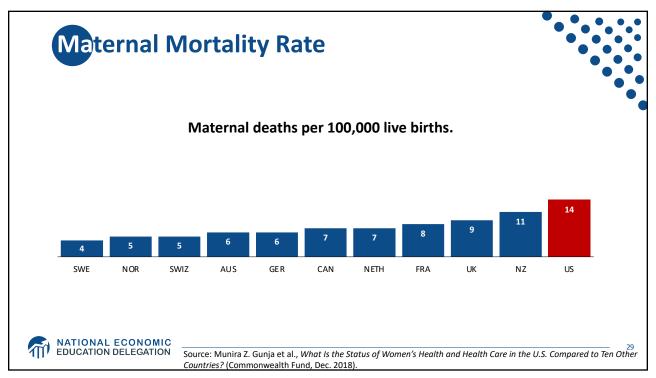
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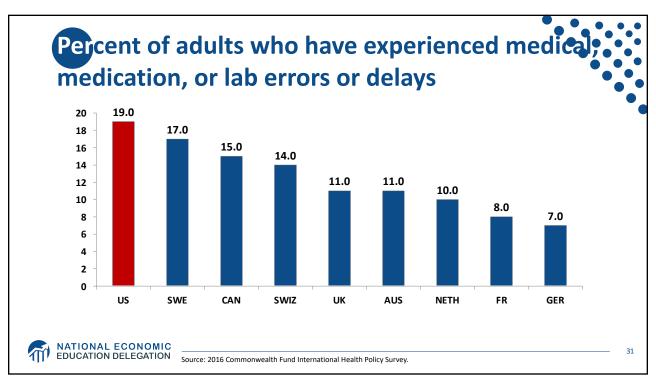








Maternal Mortality Rate by Race • American Indian/Alaska Native and Black women are 2 to 3 times as likely to die from a pregnancy-related cause than white women. **PREGNANCY-RELATED DEATHS** PER 100,000 LIVE BIRTHS 50 • 40 30 10 • 30 Black Women American Indian/ MMWR @ DE Full report: bit.ly/maternaldeath_ MATIONAL ECONOMIC EDUCATION DELEGATION

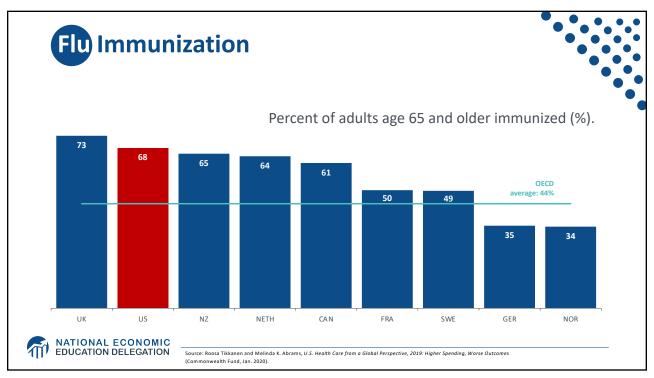


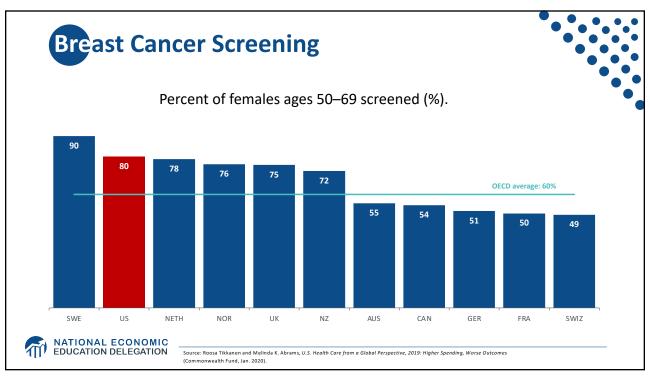
Prevention and Screening

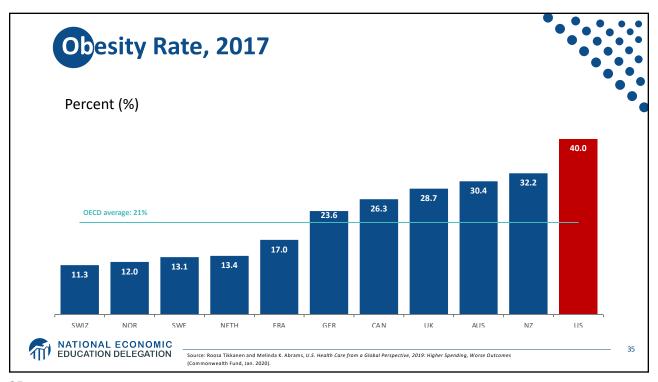


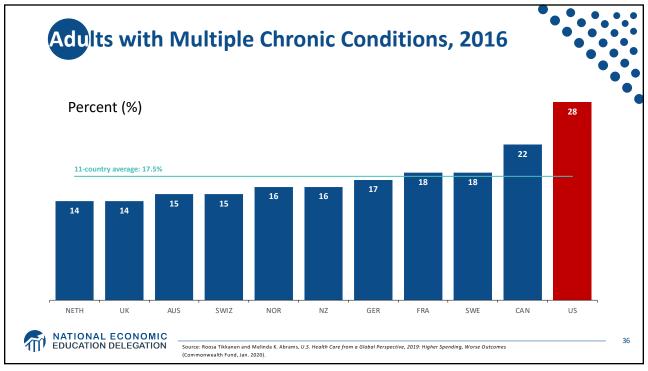
- The U.S. excels in **some** prevention measures, including flu vaccinations and breast cancer screenings.
- The U.S. has the highest average five-year survival rate for breast cancer, but the Lowest for Cervical Cancer.



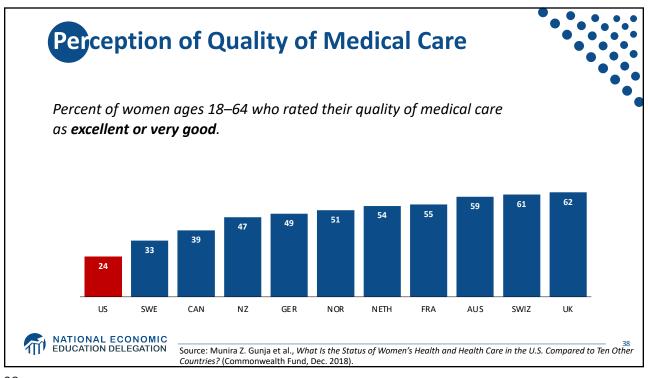












Quality of Care Notes



- 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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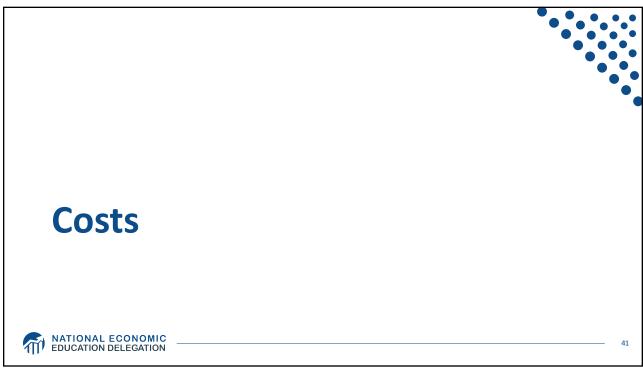
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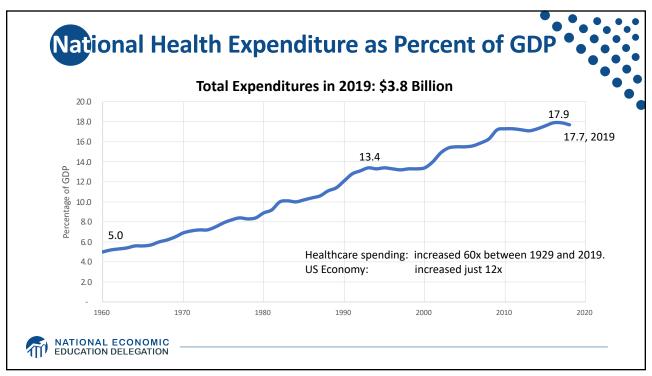
A Bit About Quality

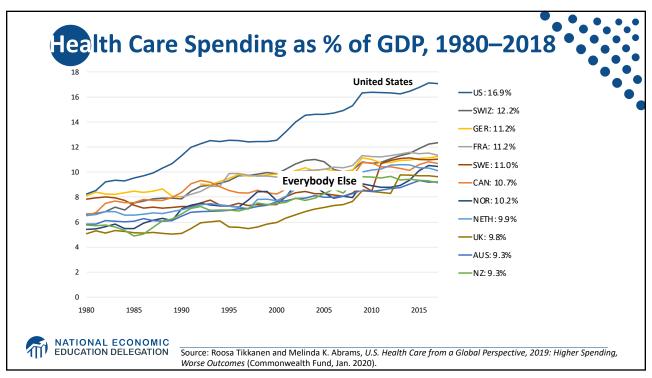


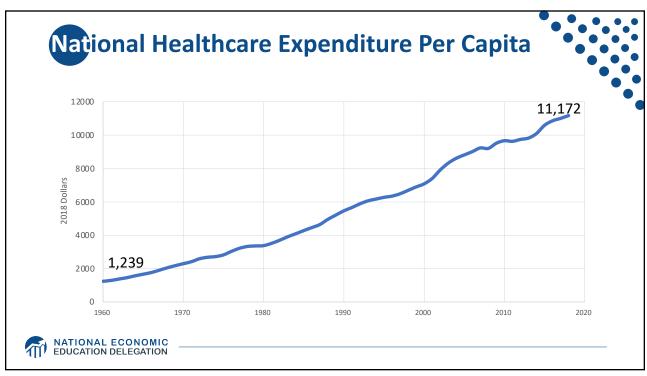
- The U.S. has the **highest chronic disease burden** and an obesity rate that is two times higher than the OECD average.
- Americans had **fewer physician visits** than peers in most countries, which may be related to a low supply of physicians in the U.S.
- Compared to peer nations, the U.S. has among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

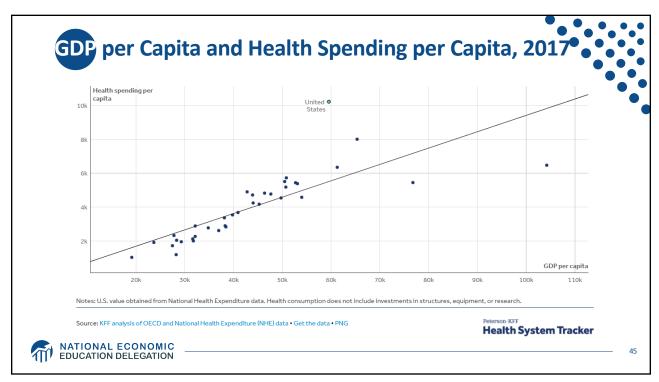


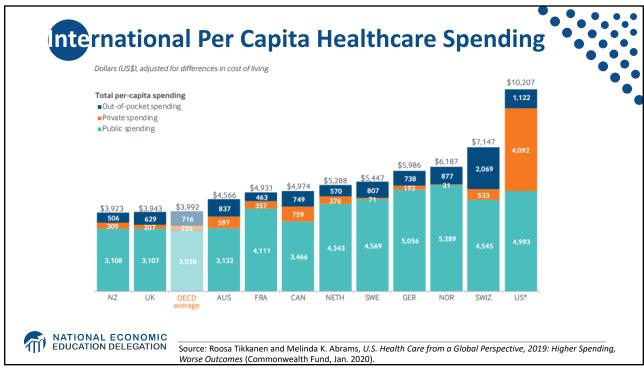


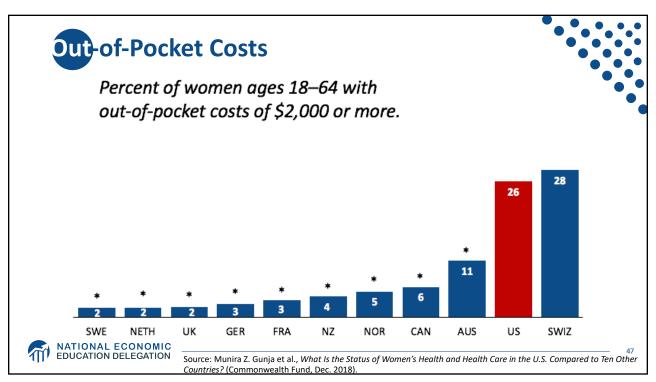












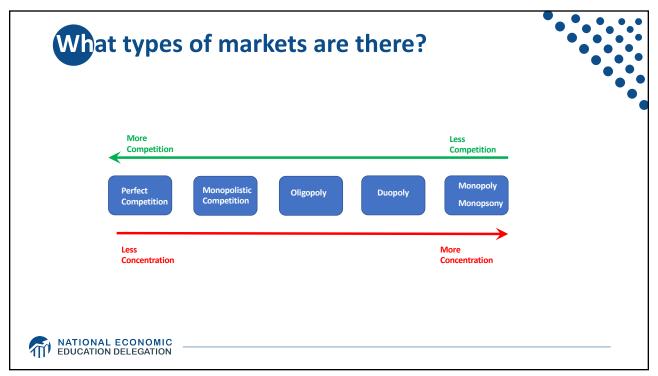
Why is Healthcare Spending Increasing?

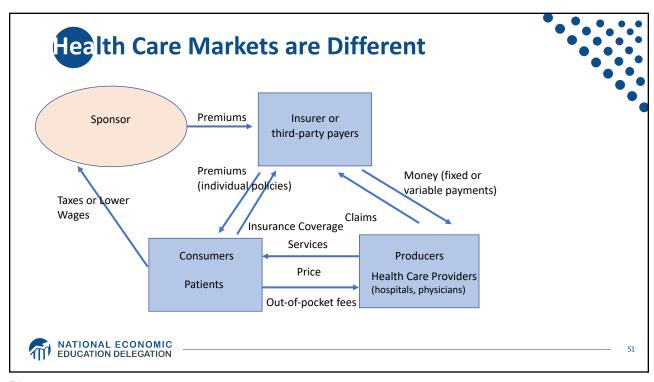


- Costs in the United States, and elsewhere are increasing rapidly.
- The share of economic spending on health care has been steadily increasing for all countries because:
 - Health spending growth has outpaced economic growth.
 - Richer countries demand more services, like attention to health.
- Also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













Policy Matters for Costs



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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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Hospital Monopolization

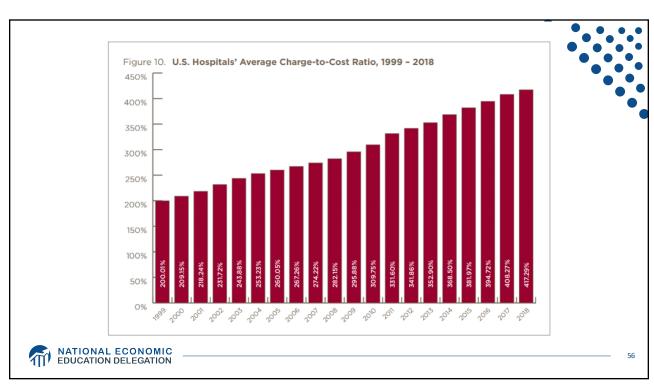


- Market consolidation among and between health systems, hospitals, medical groups, and health insurers has surged over the last decade.
- Over an 18-month period between July 2016 and January 2018:
 - hospitals acquired 8,000 more medical practices
 - 14,000 more physicians left independent practice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



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

	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

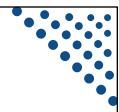


Source: IMS Health; analysis by Gerard Anderson, Johns Hopkins University.

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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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- 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.

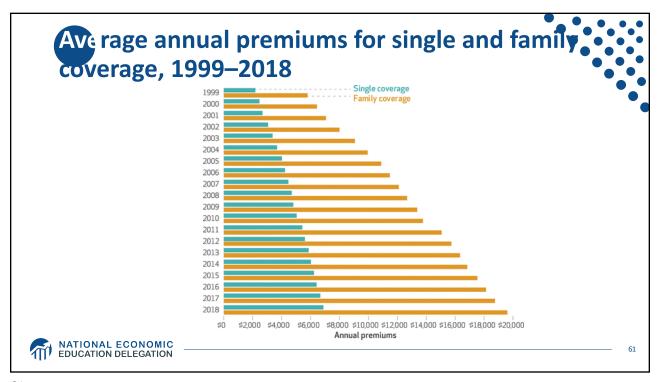


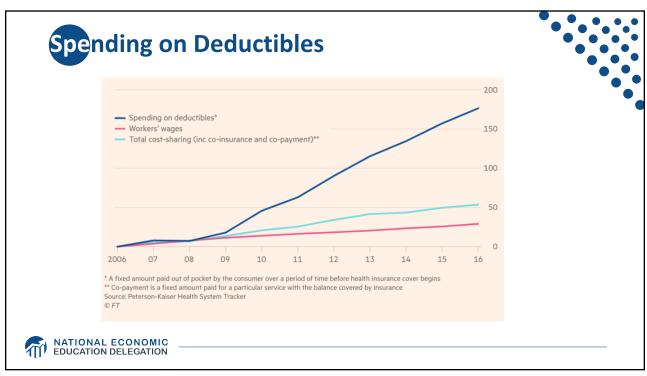
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Monopolization of Health Insurance Market

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











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



Health Care Systems and Institutions



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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:
 - National health insurance (Canada)
 - Bismarck (France, Germany, Japan, Switzerland)
 - Beveridge socialized medicine (United Kingdom, Spain, New Zealand)
 - Out of pocket model you pay yourself
 - Mixed (United States)



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- 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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Health Insurance and Reform



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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.



Definition: Single-Payer

- ng one
- Single-payer refers to financing a health care system by making one entity solely and exclusively responsible for paying for medical goods and services.
- It is only the financing component that is socialized.

The money for the payment can be either collected by

- Taxes collected by the government
- 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 actually 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 is NOT part of the current debate in the US.



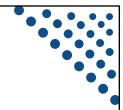
Definition: Third-Party Payer

- 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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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.



Summary

- US HealthCare system is not preforming well (very expensive with low quality and access).
- One of the main reasons for very high costs is the monopolization of healthcare markets.
 - Hospitals, health insurance, big pharma, physicians, etc.
- In addition, the Medicare Modernization Act of 2003 by law prevents government to negotiate drug prices.
- 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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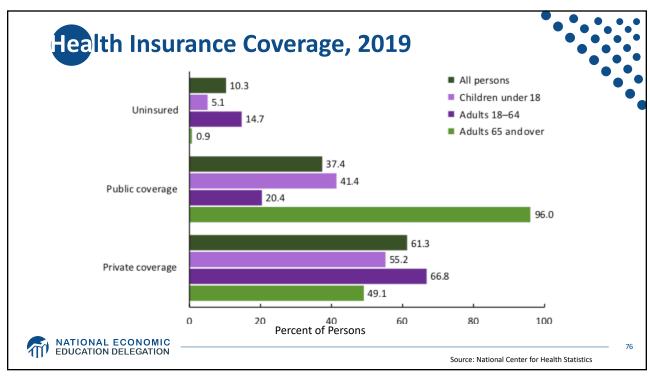
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- Climate Change
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- Trade and Globalization
- Minimum Wages

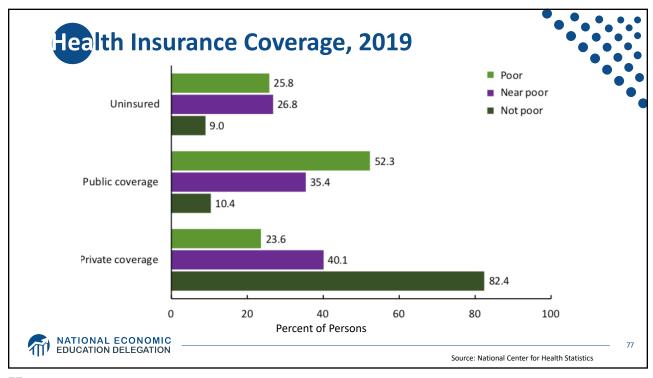
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- Autonomous Vehicles
- US Social Policy

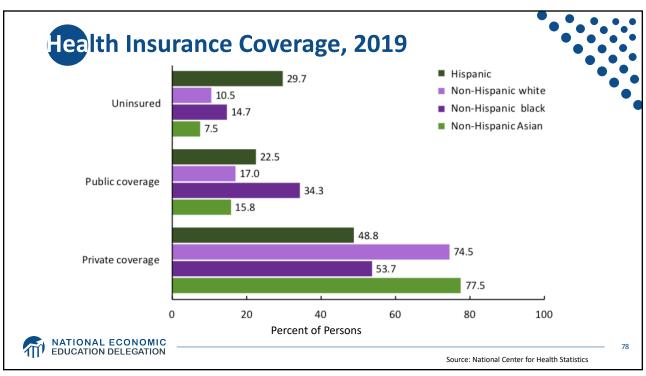


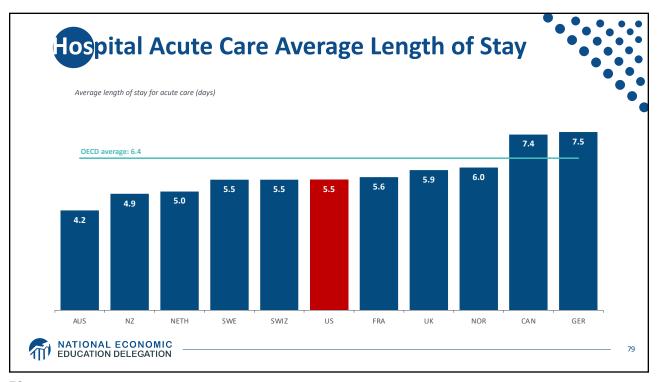
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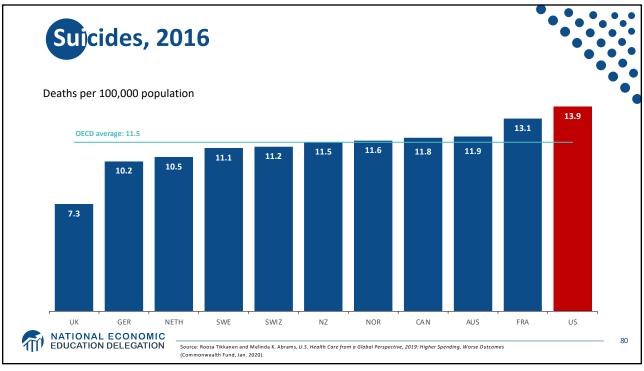
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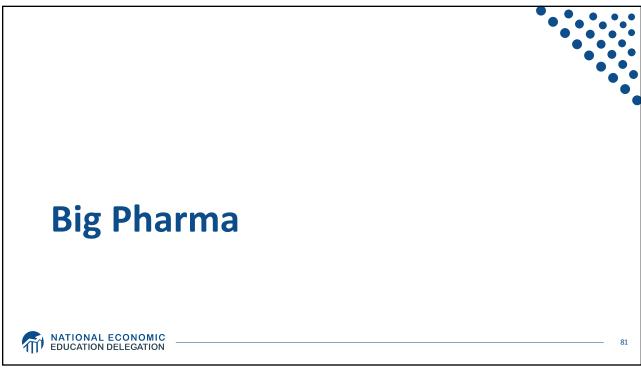


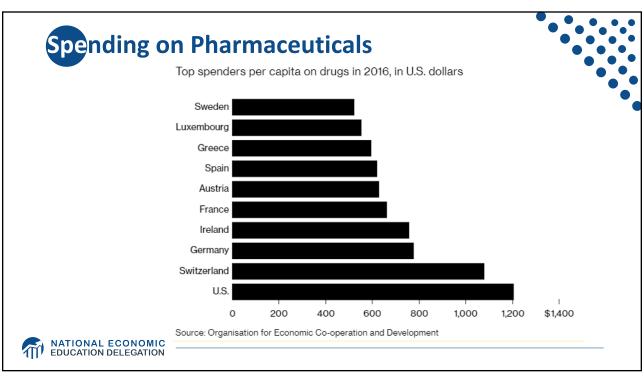


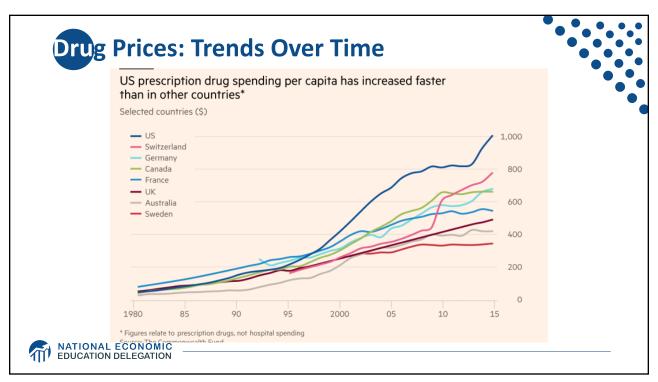


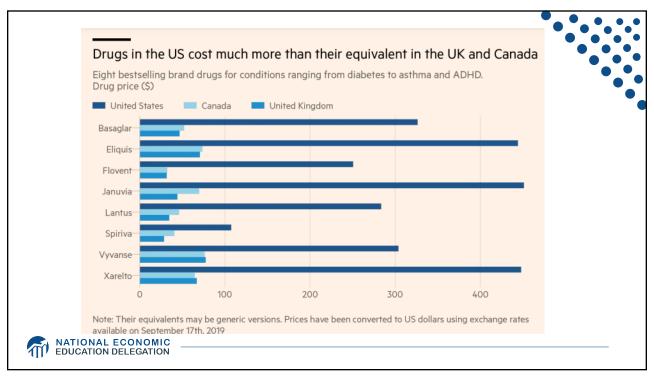














- Turing Pharmaceuticals' 5,555% price increase of Daraprim® in
- More than 3,400 drugs have boosted their prices in the first six months of 2019, an increase of 17% in the number of drug hikes from a year earlier.
- The average price hike is 10.5%, or 5 times the rate of inflation.

2015 and Mylan's 500% increase of EpiPen®...

- About 41 drugs have boosted their prices by more than 100% in 2019.
- Over the course of a decade, 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.
- Concentration of pharmaceutical companies and increase in prices.



