



**What in the World: A Global Look at Healthcare and Drugs**

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1

Dr. Bisni Narayanan has no financial relationships with ineligible companies

**Disclosures**

8/06/20XX

2

**Learning Objectives**

- Describe the key components of global healthcare systems
- Discuss the performance indicators of global health systems
- Compare pharmaceutical drug spending levels and trends globally
- Define medical tourism and analyze its associated risks and benefits

3

**IPSOS GLOBAL HEALTH SERVICE MONITOR**

Annual study that explores the biggest health challenges facing people

People's perception of their country's healthcare system

Conducted in 34 countries between July- August 2022

**IPSOS SURVEY**

- 50% RATED THEIR COUNTRIES POSITIVELY
- 61% BELIEVE THEIR SYSTEM IS OVERSTRETCHED
- 42% PERCEIVE ACCESS TO TREATMENT/WAITING TIMES AS THE BIGGEST HEALTHCARE CHALLENGE
- 47% CORONAVIRUS REMAINS THE BIGGEST HEALTH PROBLEM FACING PEOPLE

4

4

**THE WHY!!**

5

**Mirror, Mirror 2021**

Study conducted by the Commonwealth Fund 2021, 2017, 2014, 2010

**Goal:** To compare the performance of health care systems of 11 high-income countries

**Methods:** Analysis of 71 performance measures across five domains

Access to care  
Care process  
Administrative efficiency  
Equity  
Health care outcomes

**Key Findings:**

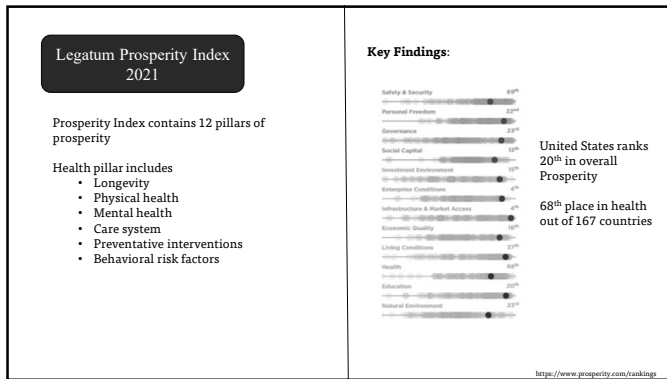
- Top performing countries are Norway, Netherlands, and Australia
- U.S. ranks last overall, despite spending far more of GDP on health care
- U.S. ranks last on access to care, administrative efficiency, equity and health care outcomes but second on measures of care process

**Top performers:**

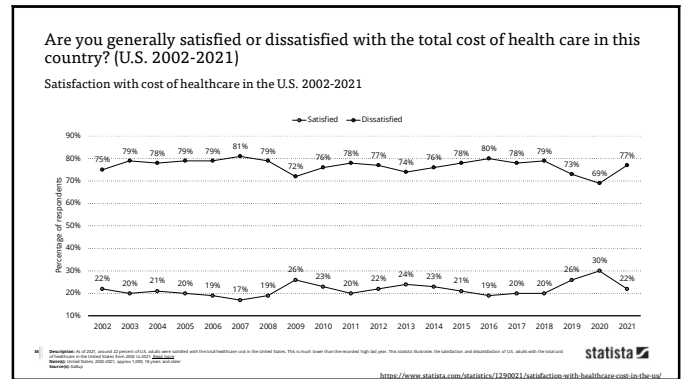
- Universal coverage
- Invest in primary care systems
- Reduce administrative burden
- Invest in social services especially children and working-age adults

<https://www.commonwealthfund.org/publications/fund-reports/2021/mag/mirror-mirror-2021-reflecting-promise>

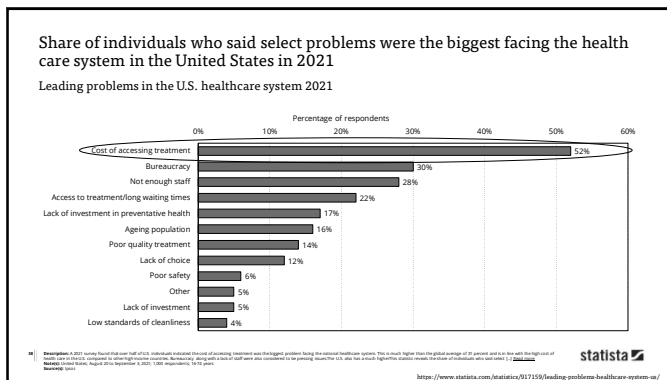
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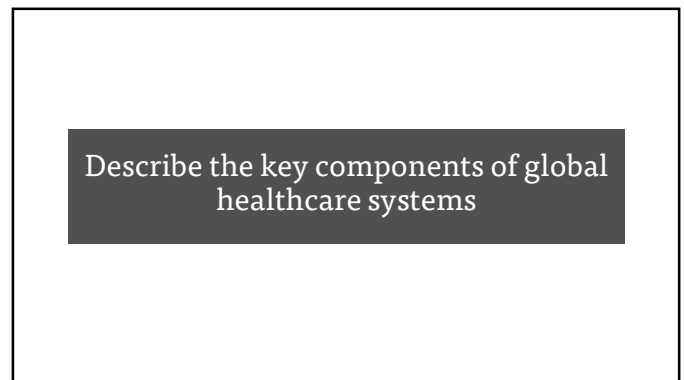
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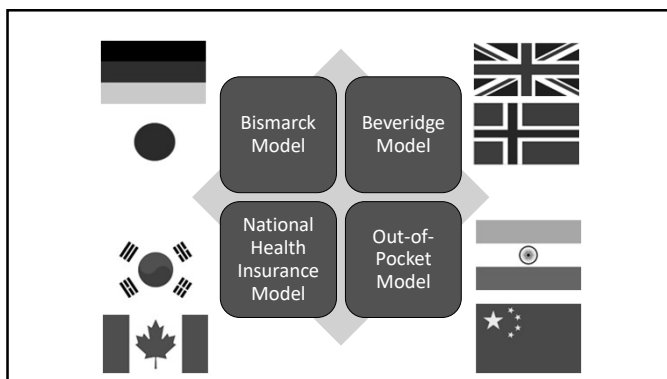
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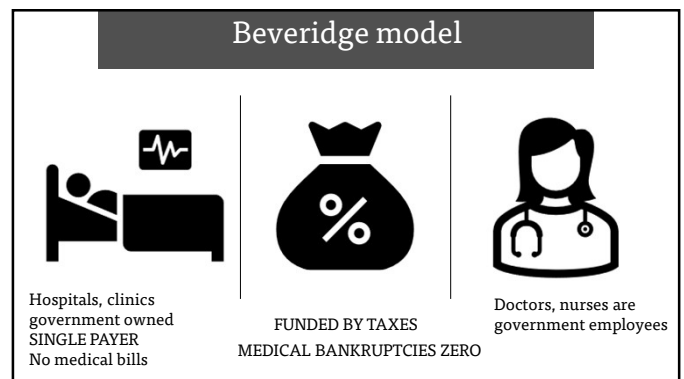
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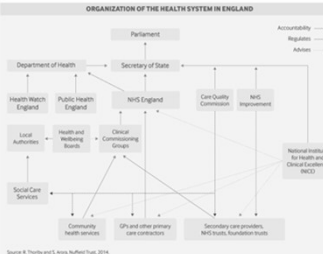
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## NHS Great Britain

**Public coverage 100%**

**Private coverage 10%**

Preventive services  
Inpatient and outpatient hospital care  
Maternity care  
Physician services  
Inpatient and outpatient drugs  
Dental care  
Some eye care  
Mental health care  
Palliative care  
Some long term care  
Rehab  
Home visits



Source: A. Thrift and S. Avey, Nuffield Trust, 2016.

NHS performance summary | The Nuffield Trust accessed Oct 10, 2022

13

## Cost-sharing and out of pocket spending

- NHS has very limited cost-sharing arrangements for publicly covered services
- Services are free at point of use for outpatient and inpatient hospital services
- Outpatient prescription drugs are subject to copayment of GBP 8.80 (USD 12.50) per prescription
- NHS dentistry services are subject to copayments of GBP 256.50 (USD 365.00) per course of treatment
- Vision tests are free for select population

## Safety nets


Service	Fees per encounter	Maximum out of pocket costs
Primary care visit	None	N/A
Specialist consultation	None	N/A
Hospitalization	None	N/A
Outpatient Rx	GBP 8.80 (USD 12.50)/prescription	No copayments for select population*

\* Children < 15 years, students ages 16-18, people > 60, low income, pregnancy, people with cancer, disabilities, long-term conditions


England | Commonwealth Fund accessed Oct 10, 2022

14

## WAIT Times!



Percent waiting >42 days from urgent GP referral to first treatment for various cancer types (2010-2020).



Patients waiting to start consultant-led active treatment, NHS England (2010-2020).

**Waiting list for planned hospital care Aug 2022 > 7 million**

**Average ambulance response time > 2.5 times longer than 18-min target**


**Sept 2022, 29% of people A&E spent > 4 hours from arrival to admission, transfer or discharge**

**Sept 2022, > 30,000 patients waited > 12 hours awaiting a decision to be admitted**

NHS performance summary | The Nuffield Trust accessed Oct 10, 2022

15


## BISMARCK MODEL



**MULTI-PAYER**

**ZERO MEDICAL BANKRUPTCIES**

- Fee for service with reimbursement
- Bills paid by sickness funds
- Sickness funds not for profit basis
- Insurance companies may sell additional services for profit
- Funded by employer & employee payroll deduction



Hospitals, doctors are privately owned

16

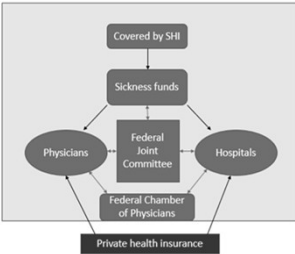
## Germany

**Statutory health insurance 88%**

**Private coverage 11%**

**Programs military, police etc. 1%**

Preventive services  
Inpatient and outpatient hospital care  
Maternity care  
Physician services  
Prescription drugs  
Dental care  
Eye care  
Mental health care  
Palliative and hospice care  
Medical aids  
Rehab  
Sick leave compensation



Germany | Commonwealth Fund accessed Oct 10, 2022

17

## Cost-sharing and out of pocket spending

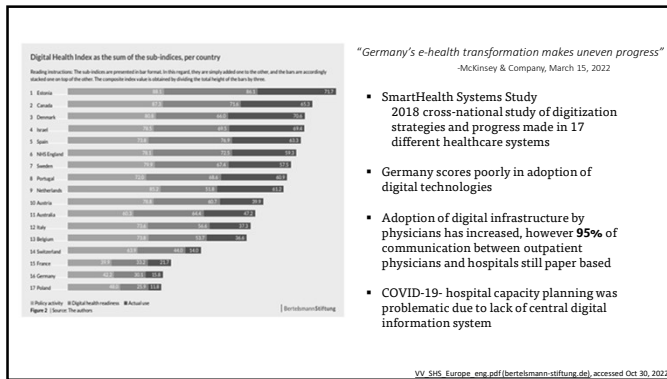
- Copayments determined by federal legislation and apply at the national level
- Sickness funds offer a range of deductibles and no-claims bonuses
- Preventive services such as cancer screenings do not count towards deductible
- Unemployed contribute to SHI in proportion to their benefits, long-term unemployed government contributes on their behalf

## Safety nets

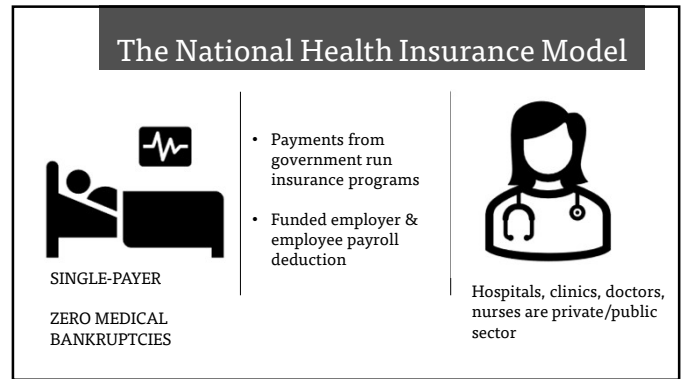
Service	Fees per encounter	Safety nets
Primary care visit	None	Children up to age of 18 exempt from copayments
Specialist consultation	None	
Hospitalization including Rx	EUR 10.00 (USD 12.84) per day	Hospitalizations limited to 28 days/year
Outpatient Rx	Typically, between EUR 5-10 (USD 6.42-12.84)	Copayments limited to 2% of household's gross annual income or 1% for people with serious chronic illness

Germany | Commonwealth Fund accessed Oct 10, 2022

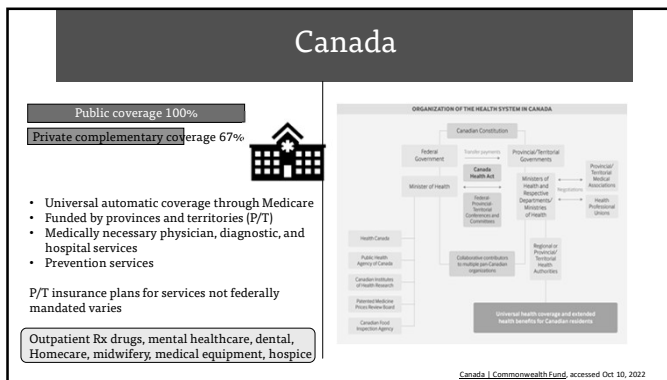
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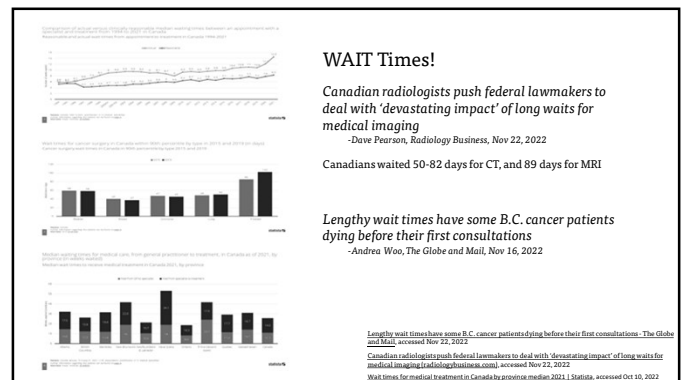
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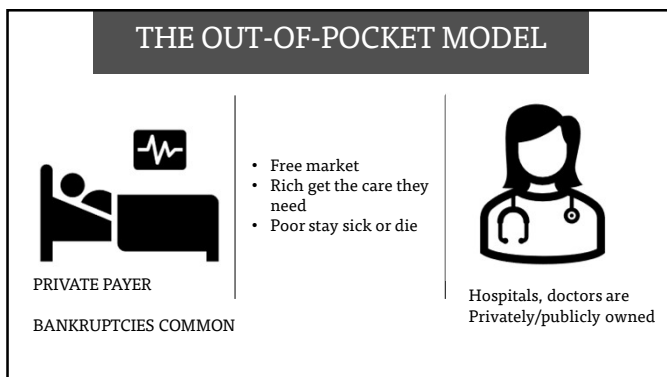
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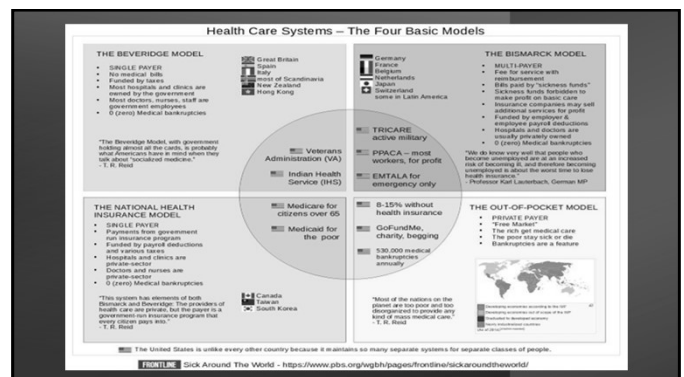
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24

## Knowledge check

Question 1: Which type of healthcare system does Germany use?

- a. Beveridge model
- b. Bismarck model\*
- c. National health insurance model

Question 2: What is a common problem encountered in the universal payer model?

- a. High out of pocket cost of care
- b. Long wait times \*
- c. Higher mortality rates

25

## Discuss the performance indicators of global health systems

26

### Performance Indicators

Measurable elements of practice performance for which there is evidence or consensus that they can be used to assess the quality, and hence change of quality, of care provided

### OECD

Organization for Economic Co-operation and Development

Health at a Glance 2021, 24 indicators around 6 dimensions

Health Status

Risk factors

Access to Care

Quality of Care

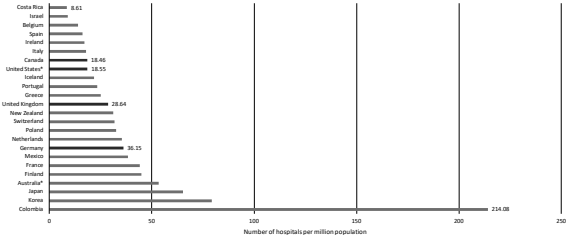
Health System Capacity

Health at a Glance 2021 - OECD Indicators | Health at a Glance | OECD Library (oecd-ilibrary.org), accessed Oct 20, 2022

27

## Hospitals per million population

Rate of hospitals in select countries worldwide in 2020 (per million population)

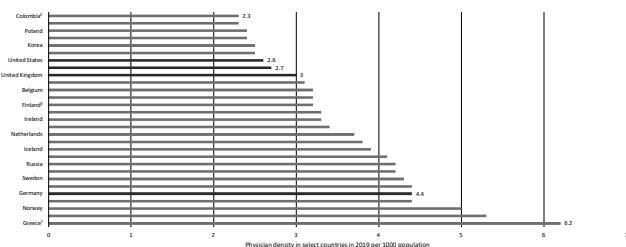


Hospital rate in select countries worldwide 2020 | Statista, accessed Oct 23, 2022

28

## Physician density per 1000 population

Physician density in select countries in 2019 per 1000 population

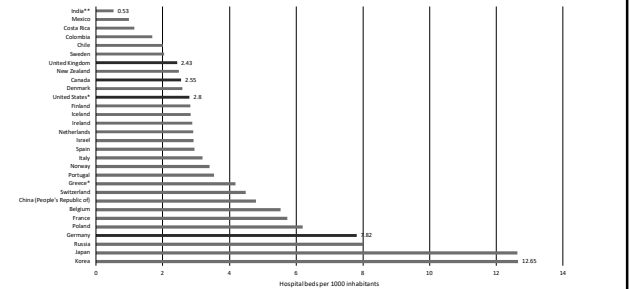


Physician density in select countries 2019 | Statista, accessed Oct 23, 2022

29

## Hospital bed density per 1000 population

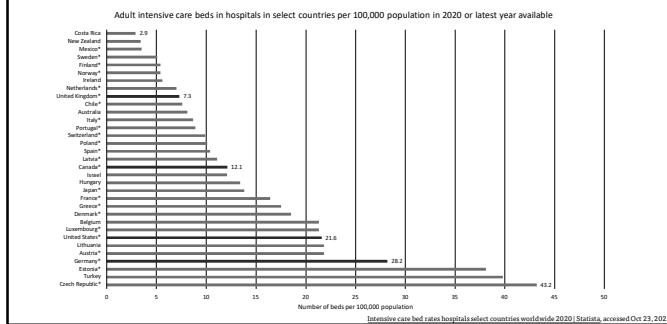
Hospital bed density in select countries in 2020 per 1000 population



Hospital bed density select countries 2020 | Statista, accessed Oct 23, 2022

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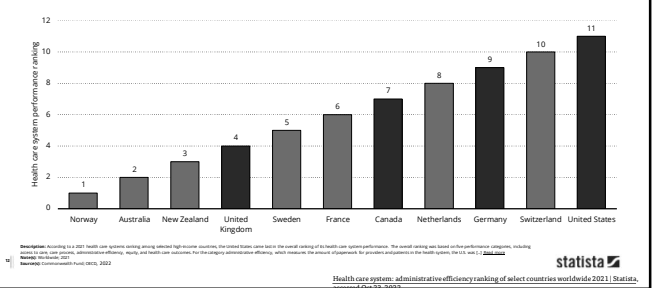
### Adult intensive care beds per 100,000 population



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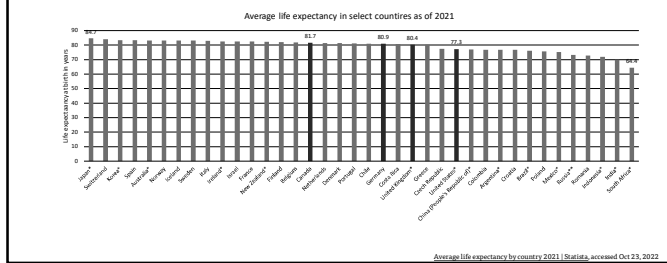
### Administrative efficiency ranking of the United States' health system compared to ten other high-income countries in 2021

Administrative efficiency ranking of 11 select countries' health care systems 2021



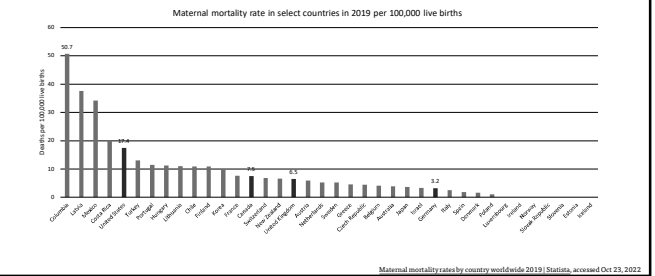
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### Average life expectancy in 2021



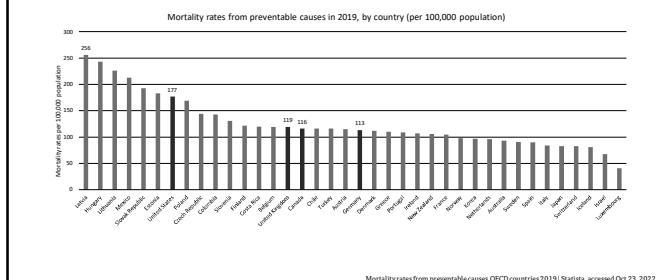
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### Maternal mortality rate in 2019



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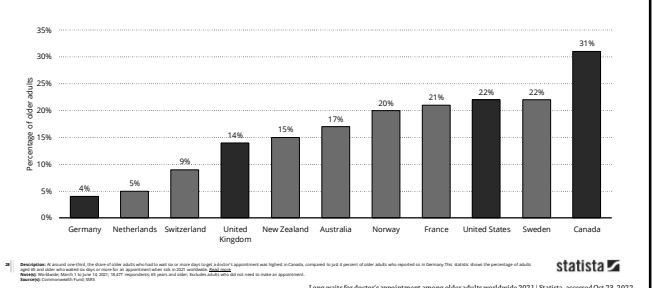
### Mortality rates from preventable causes 2019



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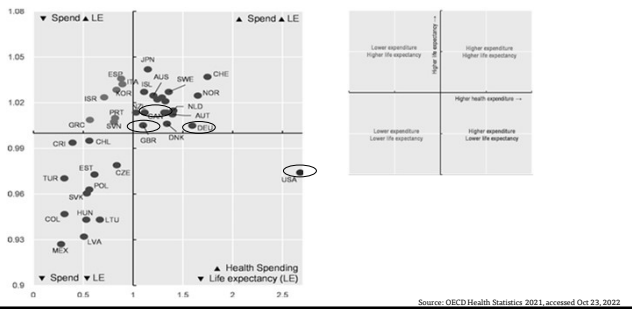
### Percentage of adults aged 65 and older who waited six days or more for an appointment when sick in 2021 worldwide

Share of older adults with long waits for doctor's appointment worldwide 2021



36

To what extent does health spending translate into better life expectancy?



37

## Knowledge check

Question 3: In comparison to other high-income countries, where does the U.S system's administrative efficiency rank?

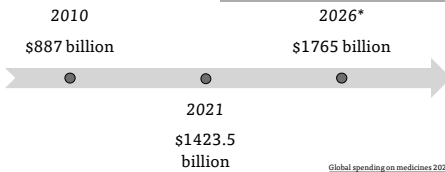
- b. 9th
- c. 10th
- d. 11<sup>th</sup> \*

38

Compare pharmaceutical drug spending levels and trends globally

39

## Global Spending on Rx



Global spending on medicines 2026 forecast | Statista, accessed Oct 23, 2022

40

## COVID-19 Impact on spending

- Total vaccine costs of \$251 billion through 2026
- Rx spending through 2026 is expected to be \$133 billion higher than pre-COVID outlook
- Supply chain issues
- 14.3% increase in calming/sleeping/mood drugs

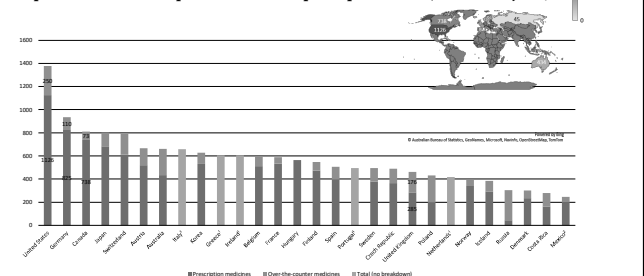
### Impact of COVID-19 on use of medicines

- 2020, 2021 significant short-term impact from COVID-19
- Global market growth will return to pre-pandemic projections by 2025 despite year-to-year fluctuations
- Pricing and value of medicines will be under increased scrutiny
- Potential impact of economic factors on countries budgeting and shifts in policies on healthcare and medicine spending

Global use of medicines 2022 outlook to 2026-12-21-dorweb.pdf(pdfjs.org), accessed Oct 23, 2022

41

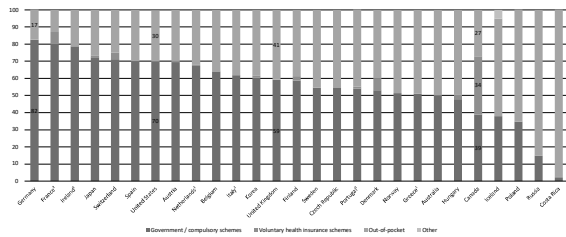
## Expenditure on retail pharmaceuticals per capita, 2019 (or nearest year)



OECD (2021), "Expenditure on retail pharmaceuticals per capita, 2019 (or nearest year)", in Health at a Glance 2021: OECD Indicators, OECD Publishing, Paris, <https://doi.org/10.1787/2021/000000000000>

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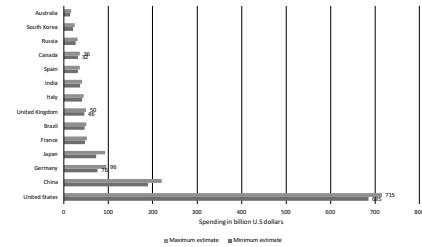
Expenditure on retail pharmaceuticals by type of financing, 2019 (or nearest year)



OECD (2021) "Expenditure on retail pharmaceuticals by type of financing, 2019 (or nearest year)" in Health at a Glance 2021: OECD Indicators. OECD Publishing, Paris. <https://doi.org/10.1787/842021010000>

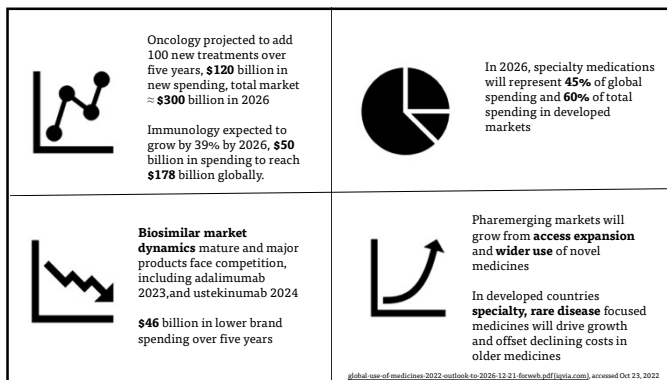
43

Projected spending on medicine worldwide in 2026 (in billion U.S dollars)



global use of medicines 2022 outlook to 2026-22-21-forweb.pdf (ipia.com), accessed Oct 23, 2022

44



45

## Knowledge check

Question 4: **In the developed nations, which of these is most likely to fuel pharmaceutical drug spending?**

- a. Specialty medications\*
- b. COVID-19 therapeutics
- c. Over the counter medications

46

Define medical tourism and analyze its associated risks and benefits

## Medical tourism

When consumers elect to travel across international borders with intention of receiving some form of medical treatment.



\$ 4 billion in 2021



From 2022-2030  
CAGR 32.51%  
\$97.9 billion



Top 10  
Thailand, India, Turkey,  
Spain, Costa Rica,  
Colombia, Brazil,  
Singapore



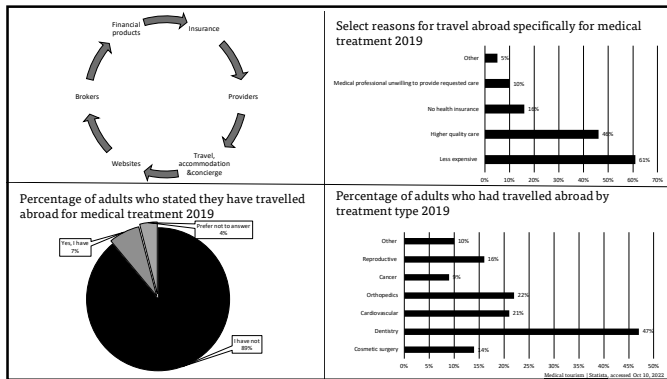
Key players  
Bumrungrad International  
Hospital, Samitivej Hospitals,  
and Bangkok Hospital Group,  
Apollo Hospitals Enterprise  
Ltd., and Fortis Hospitals

Medical Tourism Market Size & Share Report, 2020 to 2030 (research.com), accessed Oct 23, 2022

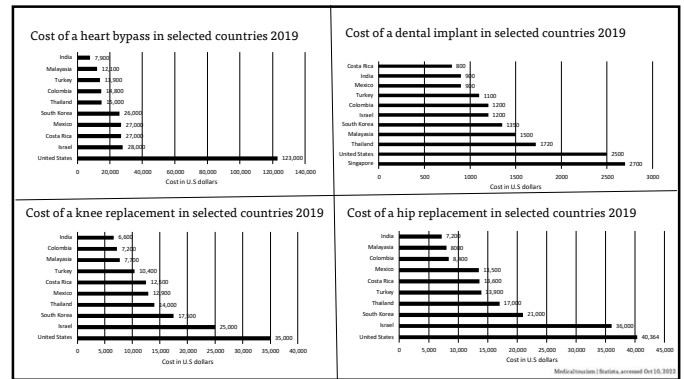
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48

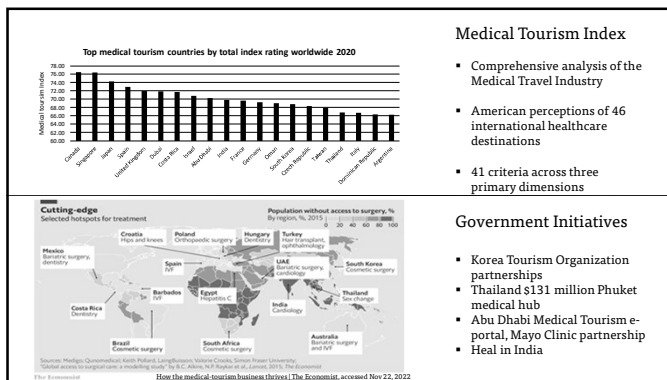




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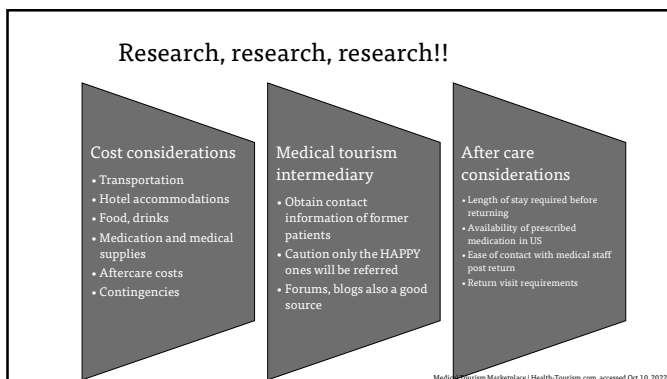
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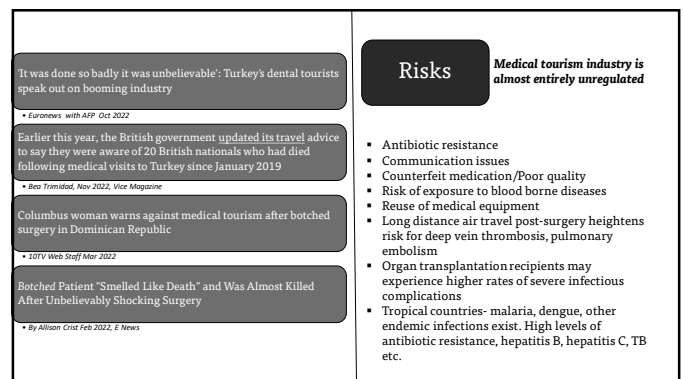
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52



53



54

## Useful websites

- JCI Accreditation: JCI is the leading medical accreditation organization for medical facilities in the US and across the globe. If the hospital, clinic or treatment center is certified by the Joint Commission International, it is approved of as a high-quality medical center.
  - [A list of JCI accredited hospitals and medical centers \(health-tourism.com\)](#)
- International accreditation bodies that certify healthcare facilities on various global locations.
  - [Accreditation Canada \(CCHSA\)](#)
  - [Australian Council on Healthcare Standards \(ACHS\)](#)
  - [International Society for Quality in Health Care \(ISQua\)](#)
  - [European Society for Quality Research \(ESQR\)](#)
  - [International Organization for Standardization \(ISO\)](#)
- [Medical Tourism Index](#): Third edition. Ranks American perceptions of 46 international healthcare destinations, providing insight into how consumers view 41 criteria across three primary dimensions, including Destination Attractiveness, Safety, and Quality of Care.
- [CDC travel advisory](#)

55

## Knowledge check

Question 5: **What should patients who are considering an out of country surgical procedure look at most closely?**

- a. JCI accreditation of hospital\*
- b. Price of the procedure
- c. d. Availability of cheap accommodation

56



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57

Session Code

58