



# HOW TO IMPROVE HEALTHCARE IN LOWER INCOME OECD COUNTRIES

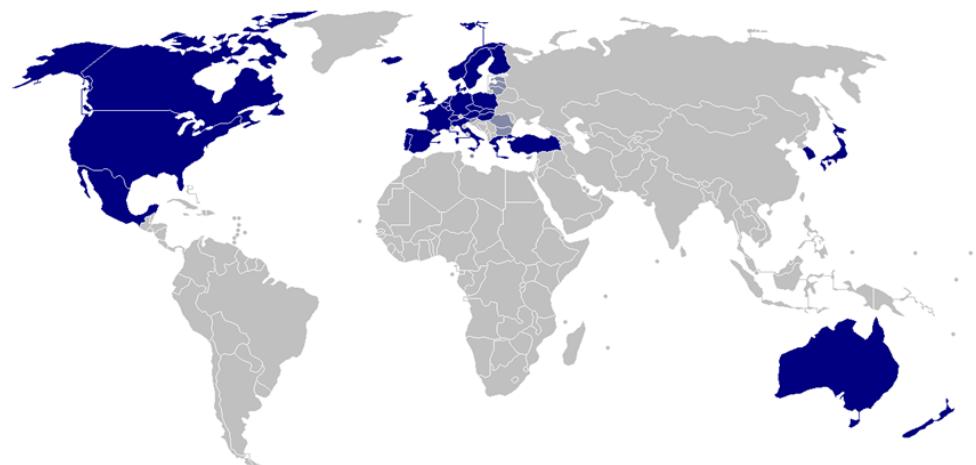
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**Mayank Patidar**



# What is the OECD?

**“The Organization for Economic Co-operation and Development (OECD) is an international organization that works to build better policies for better lives”**

**They are made up of 38 Countries and have been around for 60 years!**



# OECD High Income & Low Income Countries (based on GDP)

## High Income Countries

United States

Switzerland

Japan

Germany

Canada

Belgium

Australia

Norway

Netherlands

Denmark

New Zealand

Korea

Chile

Isreal

France

Austria

Ireland

Spain

Italy

Luxemborg

Sweden

Slovenia

Finland

United Kingdom

## Low Income Countries

Greece

Slovak Republic

Lithuania

Hungary

Czech Republic

Lativa

Colombia

Mexico

Russian Federation

Poland

Estonia

Costa Rica

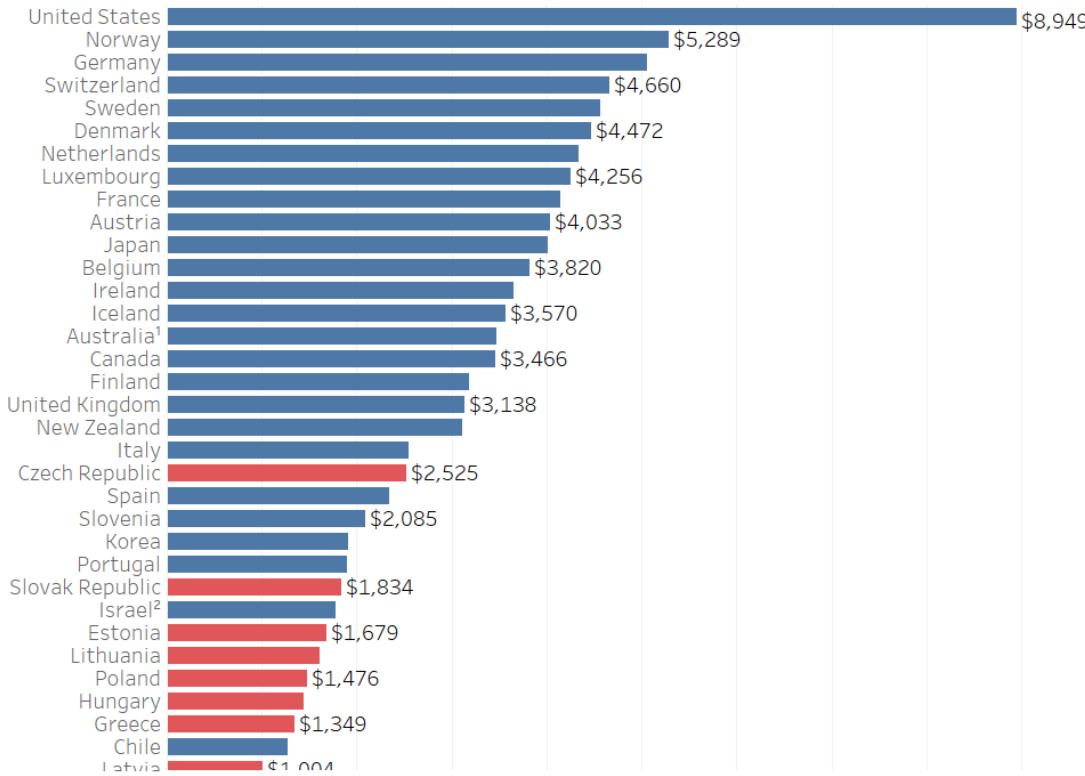


**Health Expenditure is an  
INVESTMENT, not an EXPENSE**

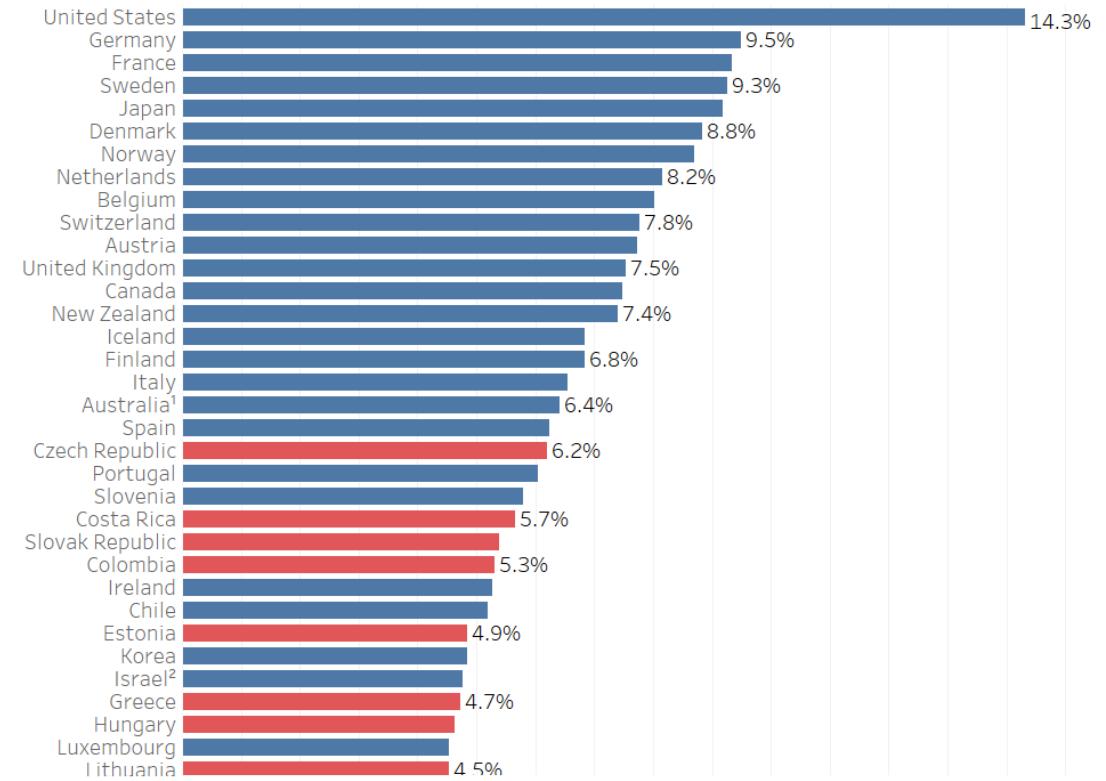
# Health Expenditure in OECD Countries

High Income OECD Countri..

Health expenditure per capita, 2018



Health expenditure as a share of GDP, 2018



In 2018, the US had the highest per capita health expenditure of 8,949 US\$ among OECD countries

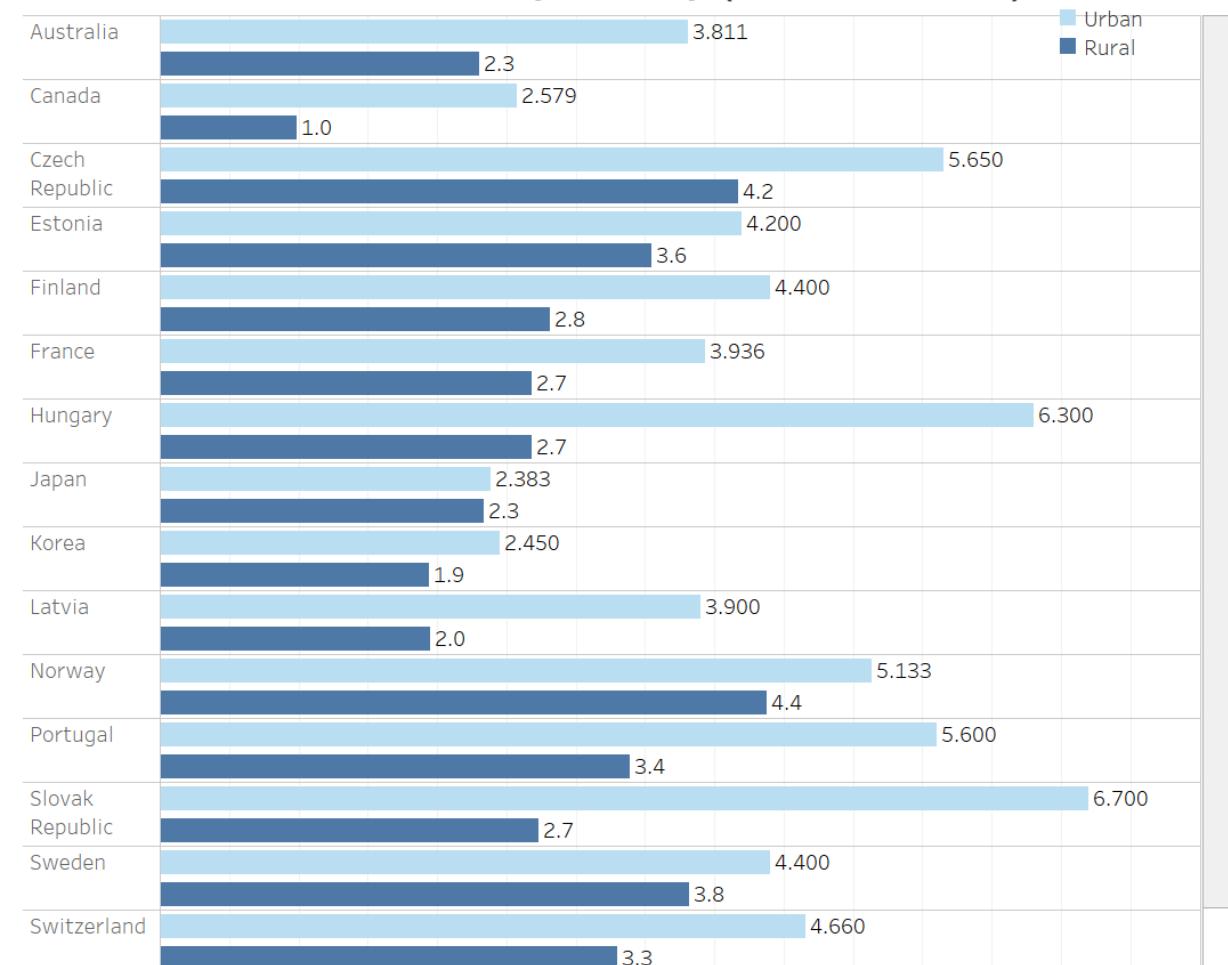
**Bitter Fact: People living in Higher density population areas tend to have more Doctors available than people living in lower-density population areas.**



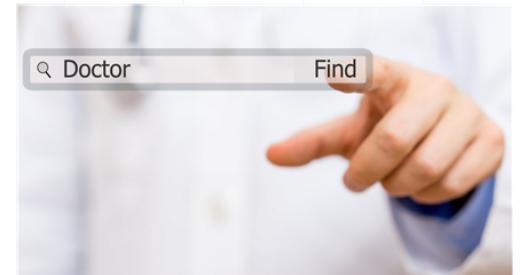
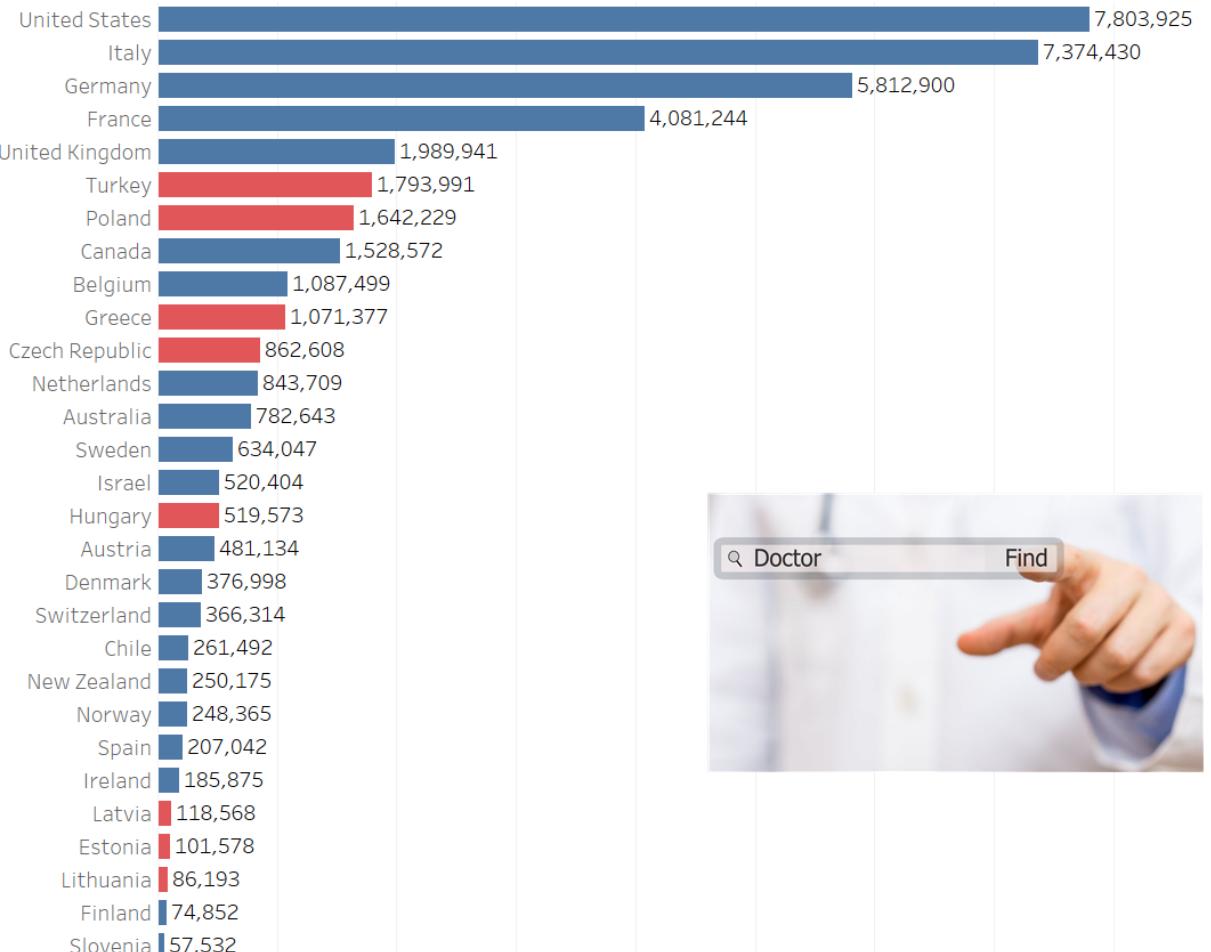
**Urban areas have larger population doctors because, generally higher education rates makes it easier to attract medical students and trainees.**

# Doctors Availability

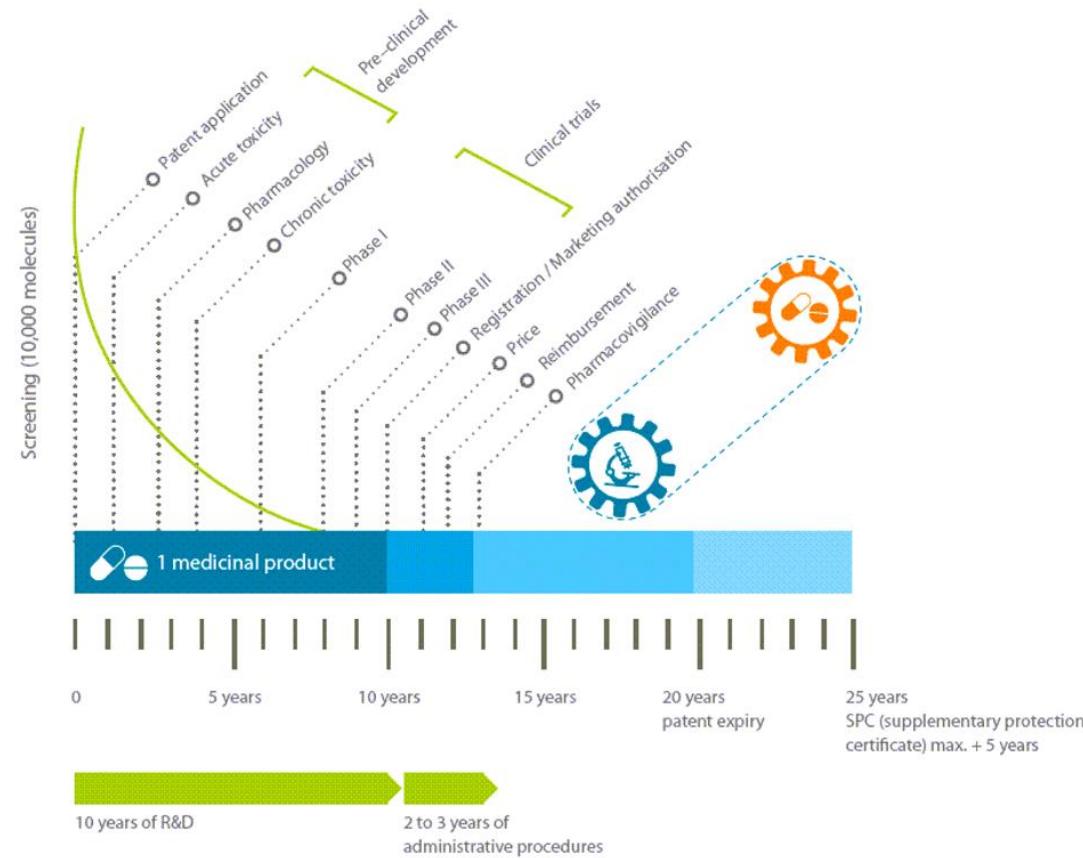
Doctor availability density (rural vs urban )



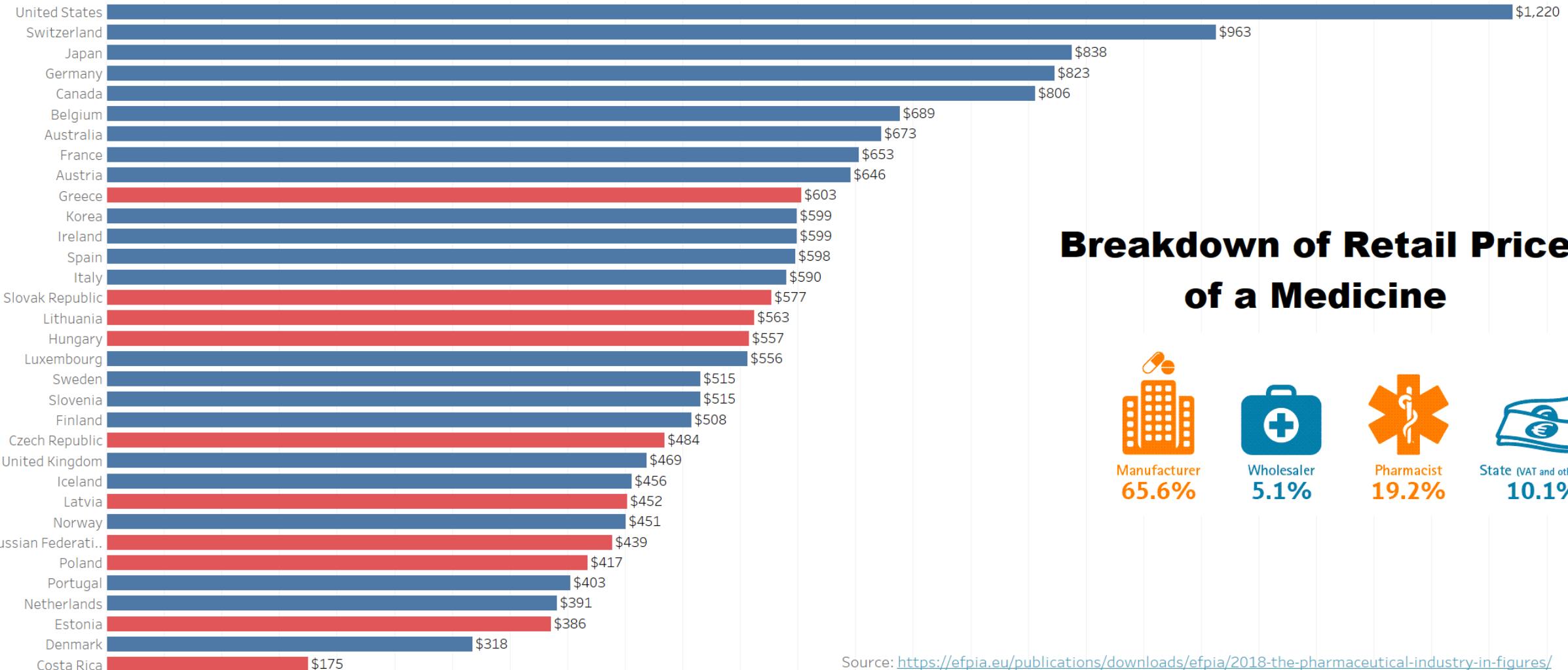
Total number of doctors in OECD Countries



## "It takes **12 to 13 years** for a medicinal product to reach market from first synthesis of new active substance"



# Pharmaceutical Expenditure by OECD countries



## Breakdown of Retail Price of a Medicine

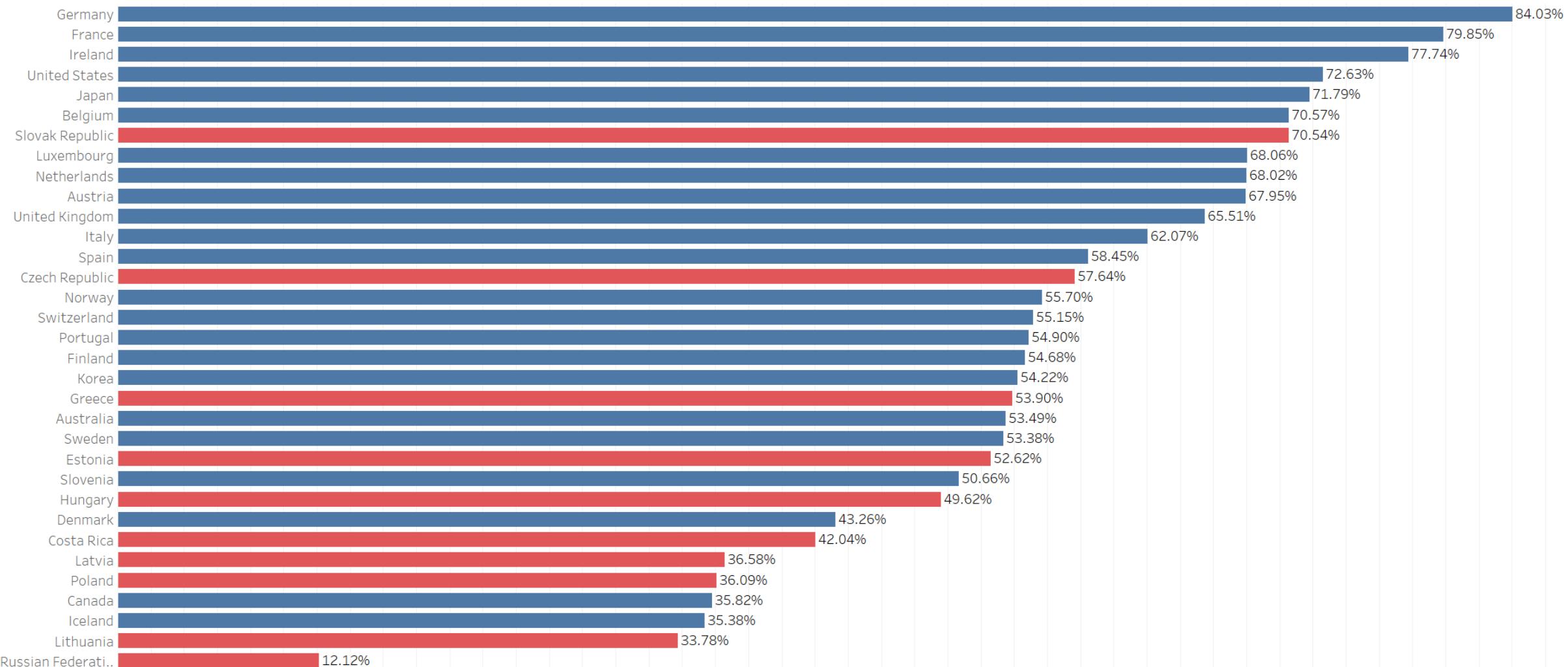


Source: <https://efpia.eu/publications/downloads/efpia/2018-the-pharmaceutical-industry-in-figures/>

## Why Medicines are Expensive?

**"On average, only one or two of every 10,000 substances synthesised in laboratories will successfully pass all stages of development required to become a marketable medicine"**

# % of Government/Insurance spending in Pharma Mark..



# ILLITERACY as a Curse

**Humaira Bachal is on a mission to educate children.**

Source :<https://www.ndtv.com/world-news/pakistani-woman-on-a-mission-to-educate-children-553051>



**A girl died because her mother couldn't read the expiration date on a bottle of medicine.**

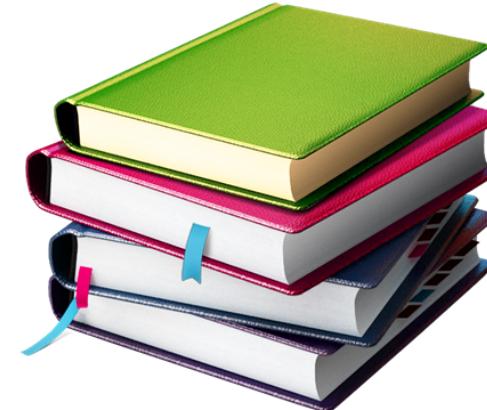
**A women died giving birth at home, because their families didn't know how to send them to the hospital.**

**stated by Humaira Bachal,..**

Humaira won **Women of Impact Award**, 2013 at 4th [Women of the World Festival](#)

**“People don't realize how a man's whole life  
can be changed by one book.”**

**-Malcolm X**



# Need of Educating people

**One in Four young people in developing countries unable to read, says UN**

Source :<https://www.theguardian.com/global-development/2014/jan/29/illiteracy-education-young-people-developing-countries>



**175 Million**

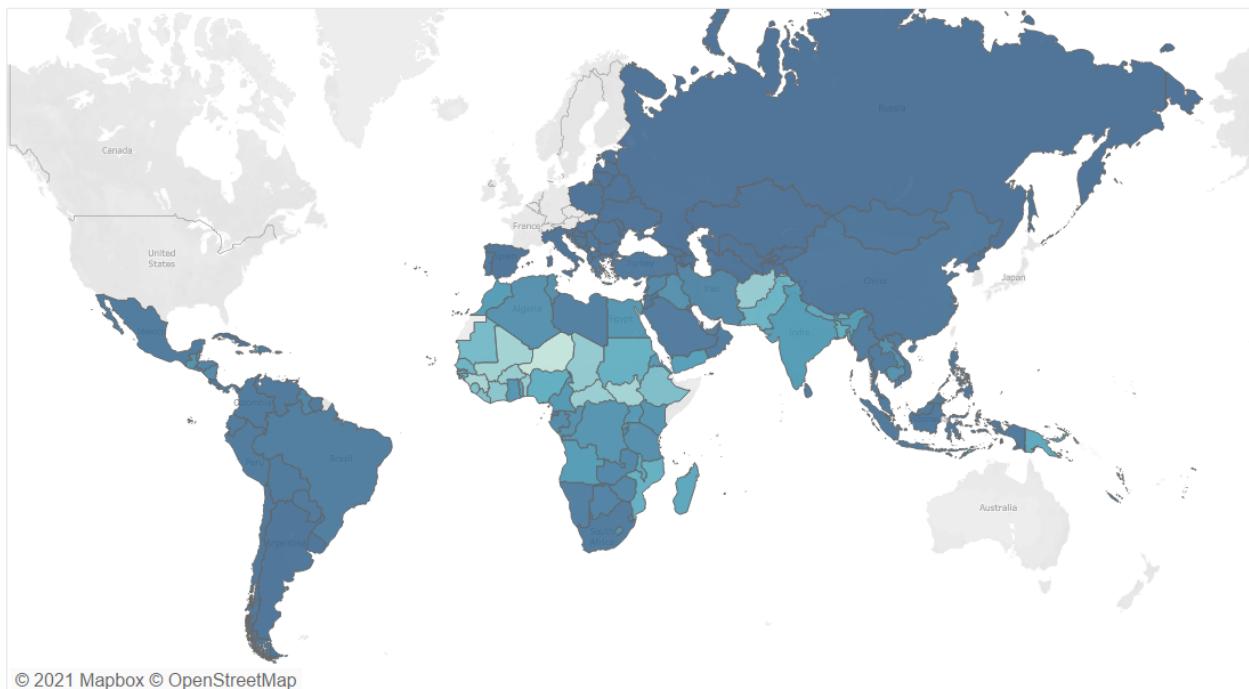
**Young people lack even basic literacy skills.**



# Global Learning Crisis

**Billions of \$\$ are spend on Education by developing countries, says UN**

Source :<https://www.theguardian.com/global-development/2014/jan/29/illiteracy-education-young-people-developing-countries>

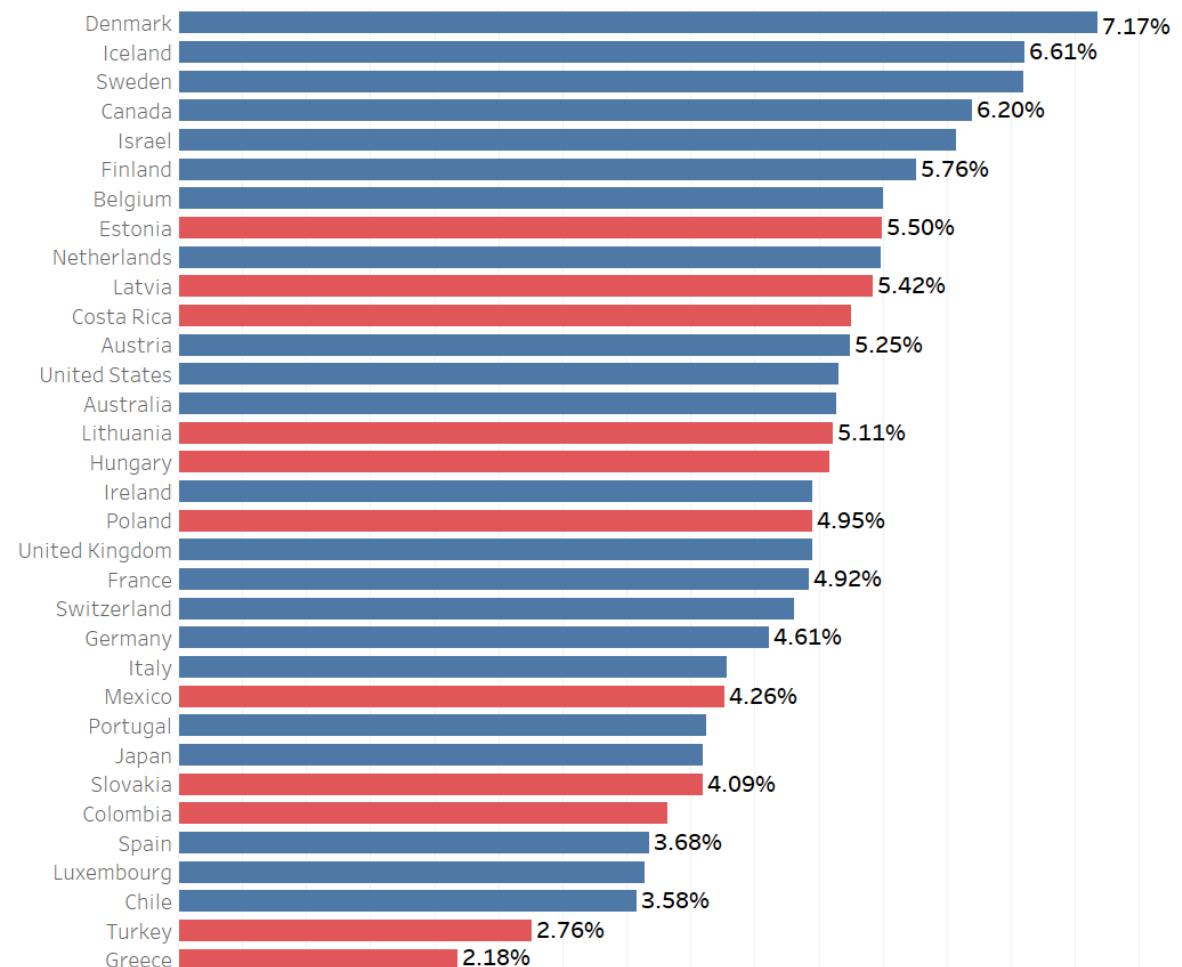
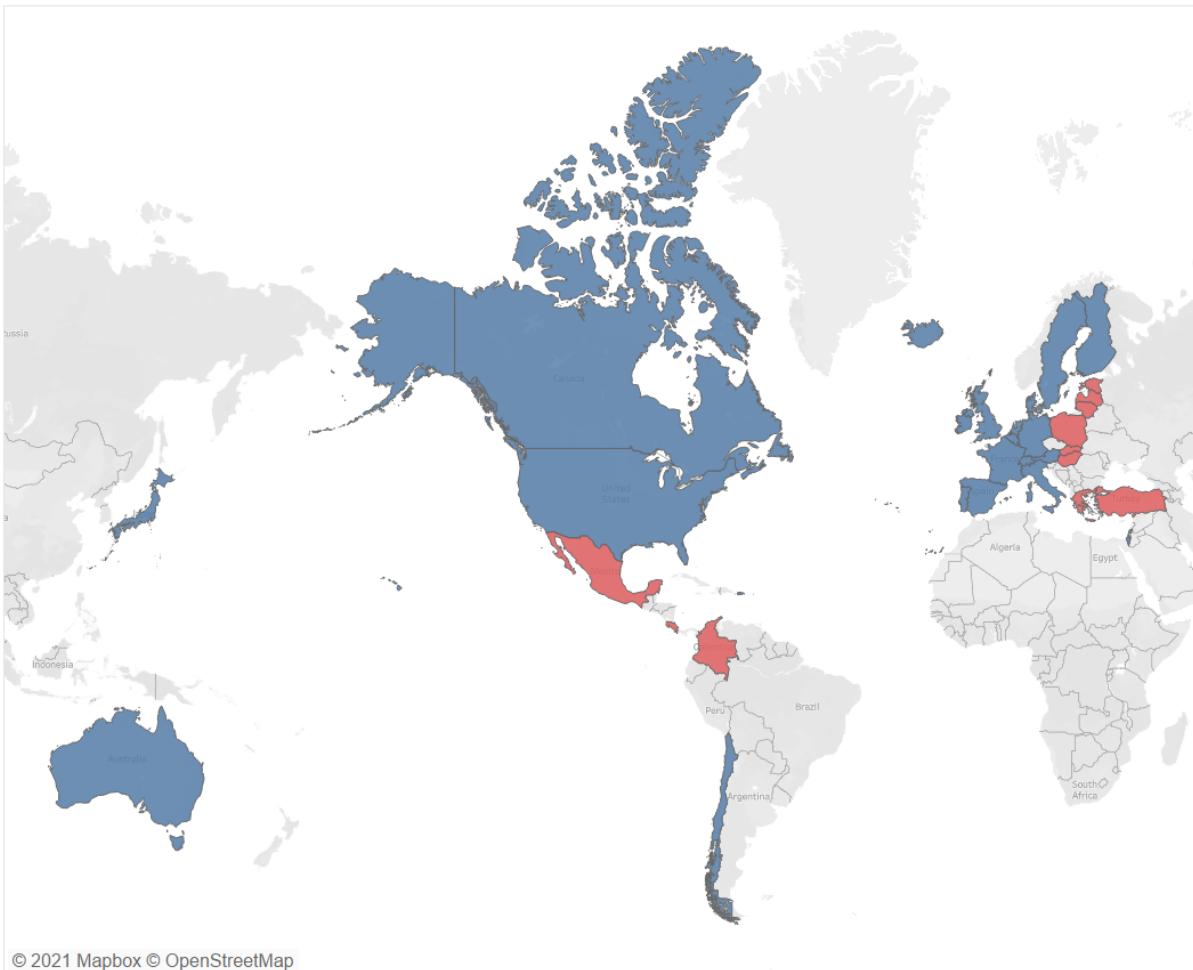


**250 Million**

**Children are not learning basic reading and math skills.**



# OECD countries spending on Education



# What is Preventive care?

**Preventive care is health care that prevents disease, injury, or illness, rather than treating a condition that has already become catastrophic or acute.**

**Preventive care can include:**

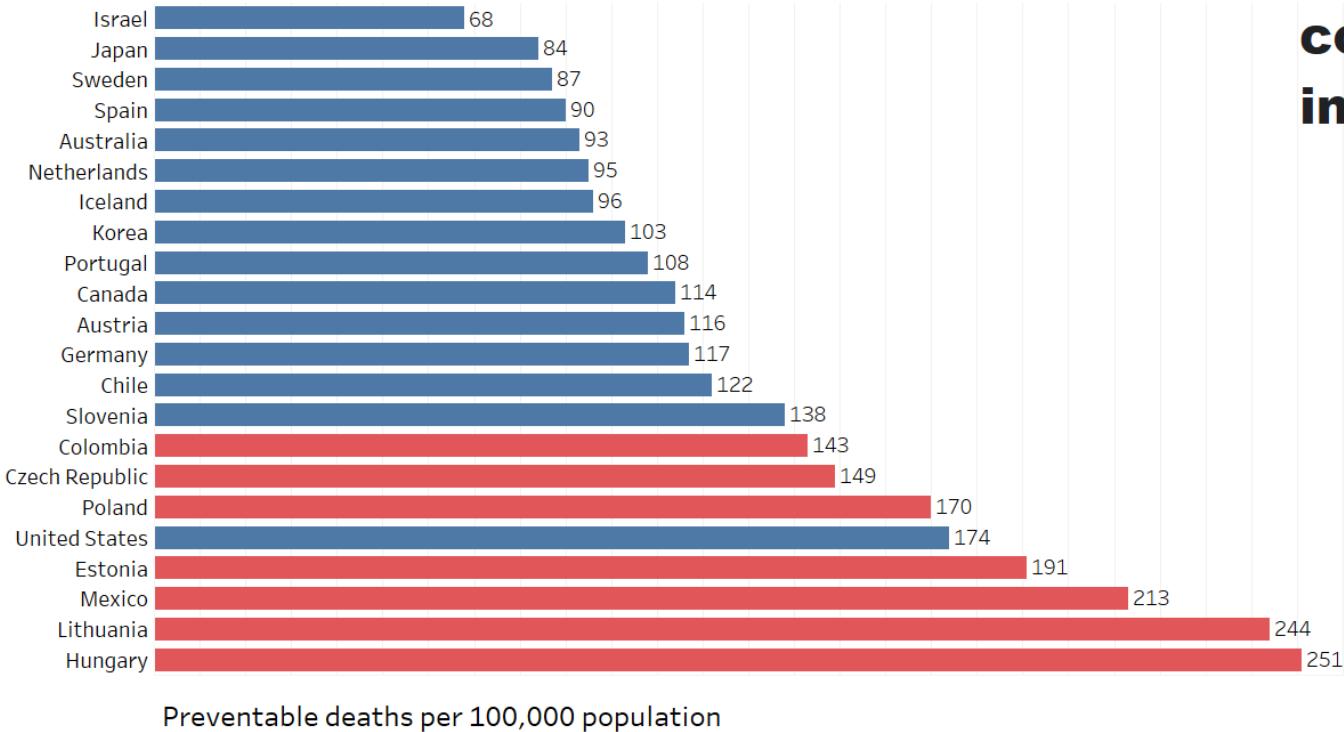
- Doctor visits
- Immunizations
- Contraception
- Allergy medications
- Insulin



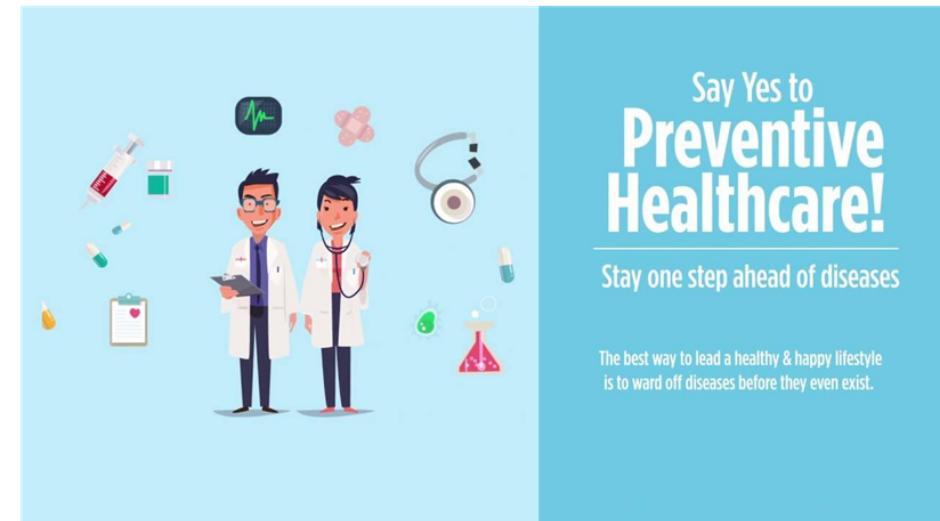
# Deaths in OECD countries

**Do you know how many deaths could have been avoided in OECD countries in 2017 with proper preventive care?**

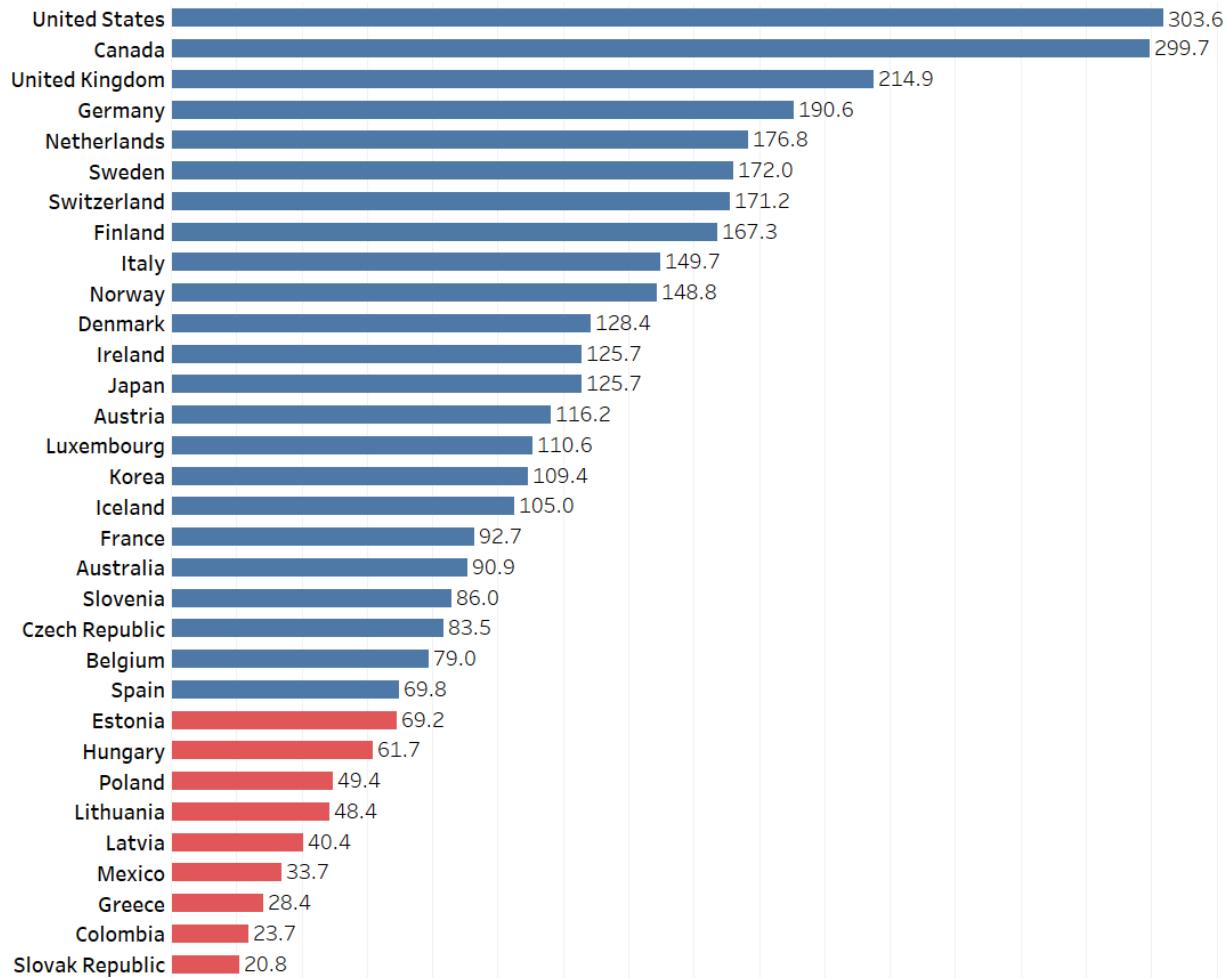
Source: <https://www.oecd-ilibrary.org/sites/3b4fdbf2-en/index.html?itemId=/content/component/3b4fdbf2-en>



**Preventable deaths covers deaths which could have been avoided by public health interventions focusing on wider determin..**



# How much OECD countries spend on prevention? (per capit..)



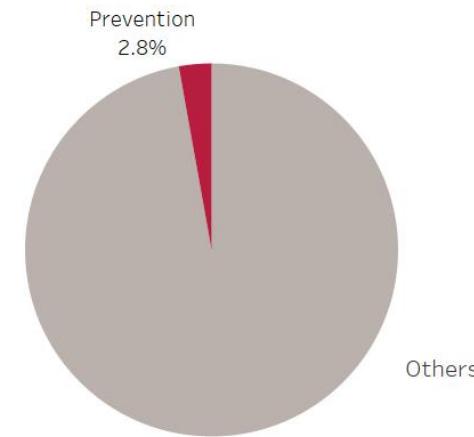
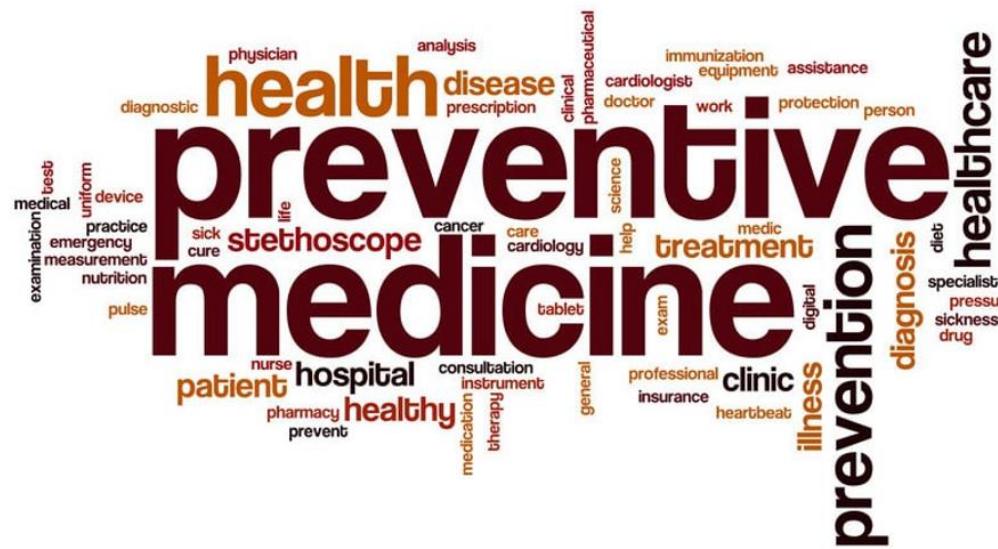
**In 2017, per capita prevention expenditure was highest in the United States and Canada with more than \$250.**



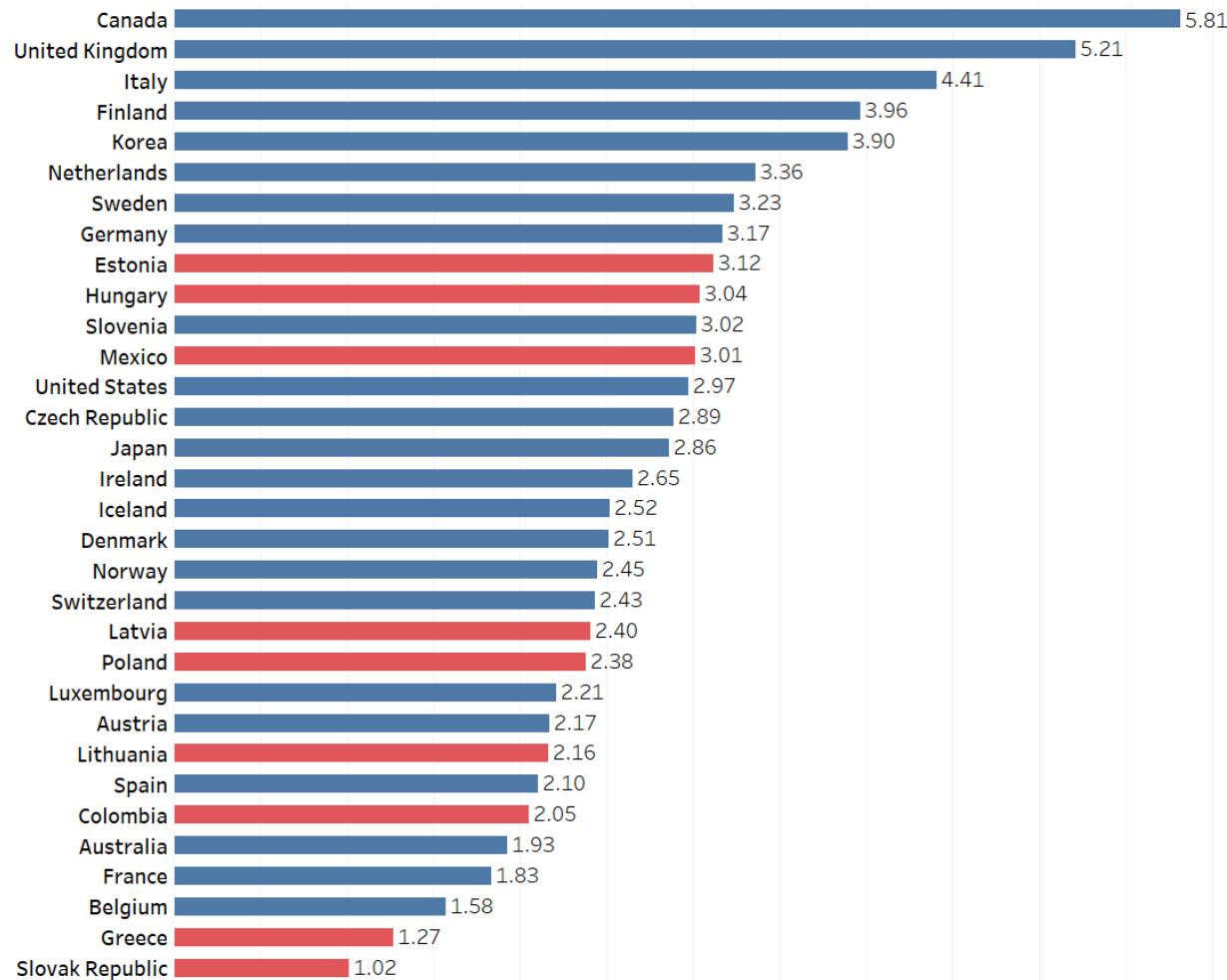
**Low-income OECD countries like the Slovak Republic, Colombia, and Mexico were spending less on prevention healthcare.**

# Low Expenditure on Preventive Healthcare

In 2015, the average expenditure on preventive health care in all OECD countries is only **2.8%** of the total health expenditure



# Prevention Expenditure as a % of health expenditure



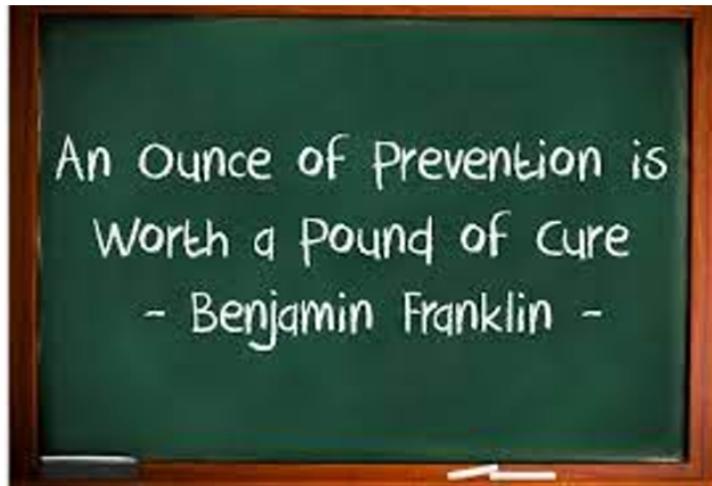
The average preventive care in high-income countries accounts for **2.95%** of health expenditures, but in low-income countries, it is only **2.38%**



# The Importance of Preventive Health Care

## Preventive Health Care:

- ★ Improves Your Health in the Long-Term
- ★ Increases Lifespan
- ★ Avoid High Medical Expenses



## Ways to Practice Preventive Care

- ★ Weight Management
- ★ Mental Health Screenings
- ★ Physical Health Screenings
- ★ Encourage a healthy lifestyle, such as healthy eating and exercise
- ★ Update vaccinations

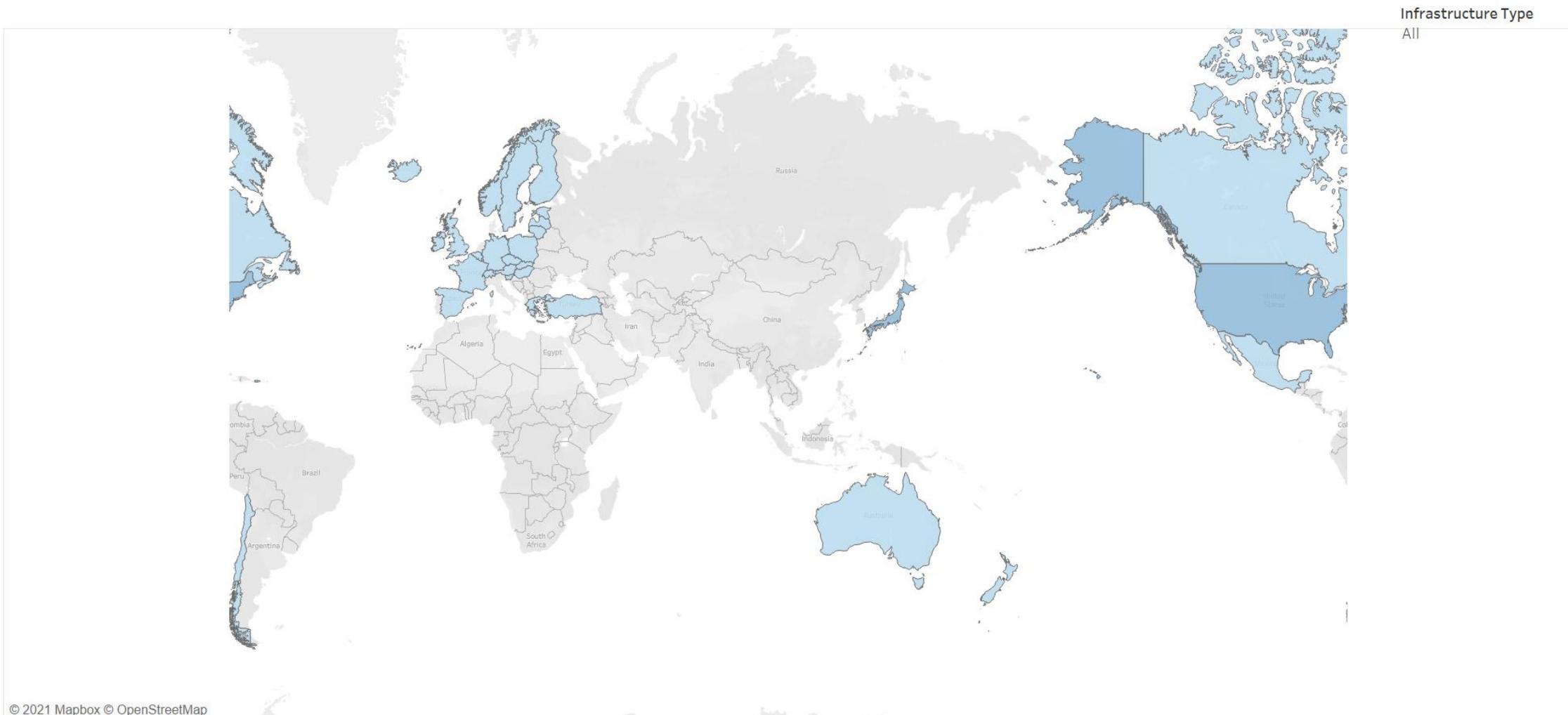


# What is Infrastructure?

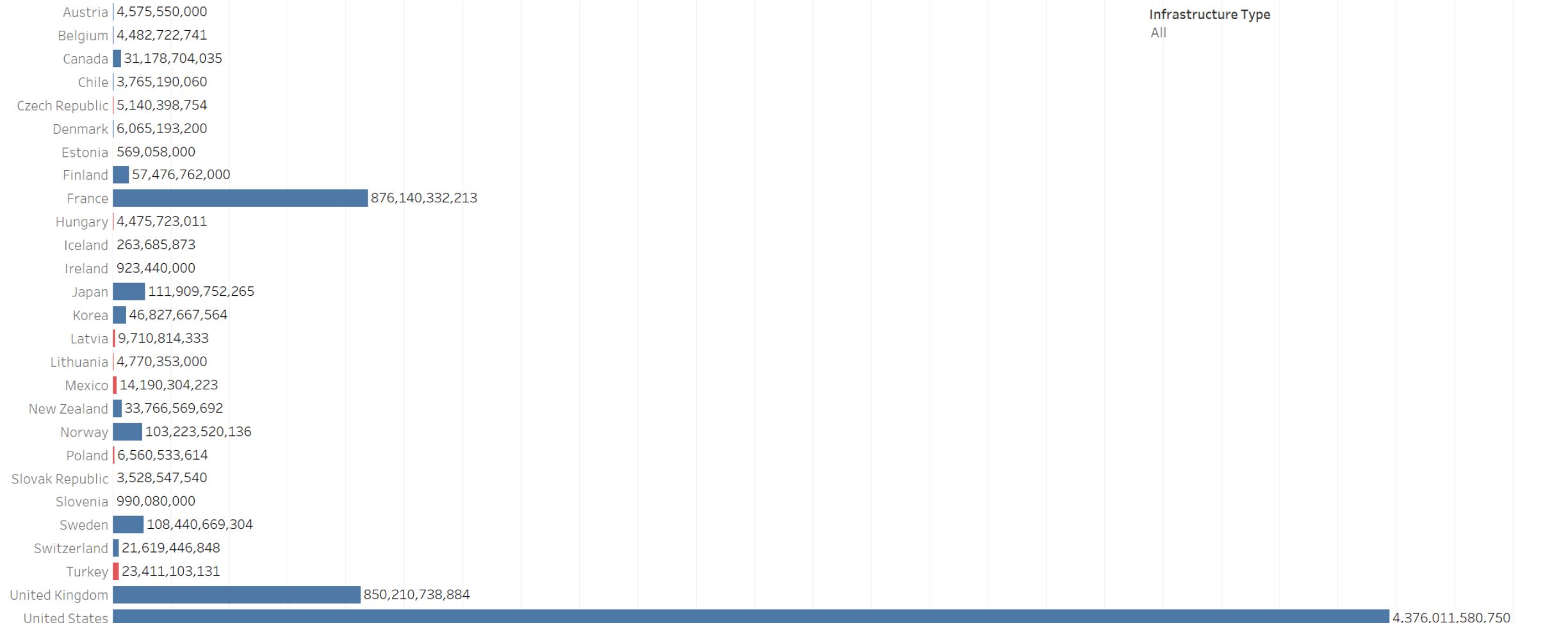
**“The fundamental facilities and systems serving a country, city, or area, as transportation and communication systems, power plants, and schools”**



# OECD countries Expenditure on Infrastructure

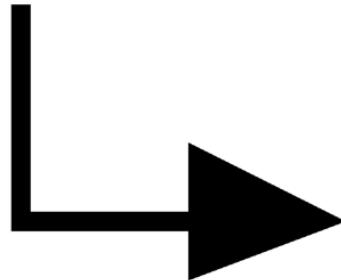


# Infrastructure spending in different categories

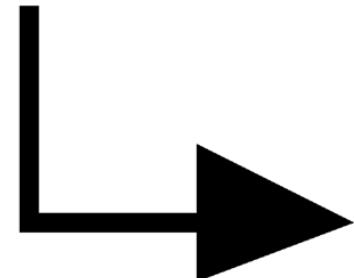


# Why is Infrastructure Important?

**Better Infrastructure leads to better roads**



**Better roads leads to easier travel  
from one place to another**



**Easier travel means ambulances can  
reach people faster in times of  
emergency**

# An alternate solution to the healthcare crisis?

Developing countries should allocate more resources towards **infrastructure** to help people get the help they need faster

**Pharmaceutical  
spending  
is not  
EVERYTHING!**



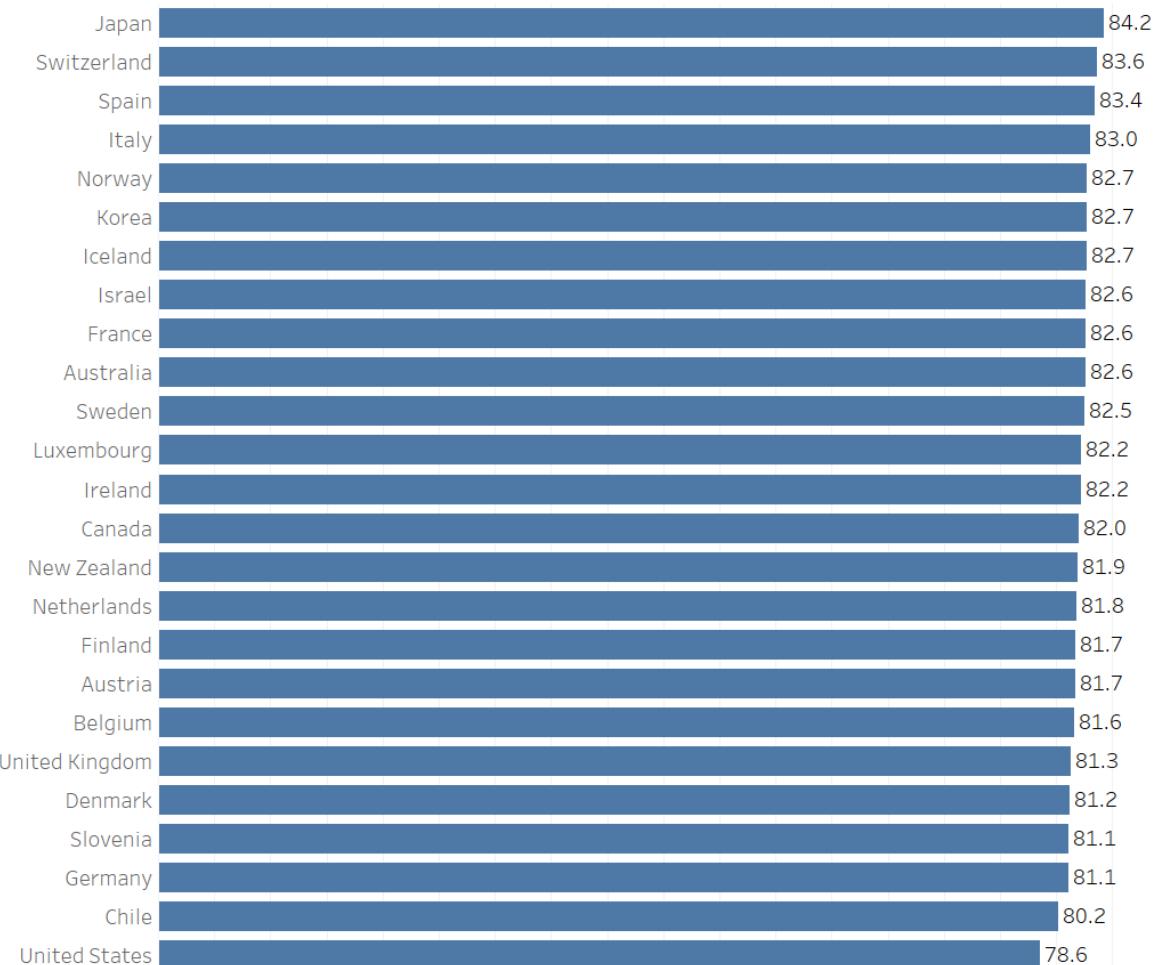
## NOW WHAT??

**How the extra spending on Healthcare, Pharmacy, Education, Infrastructure, and Preventive Care will help the Lower Income OECD Countries?**

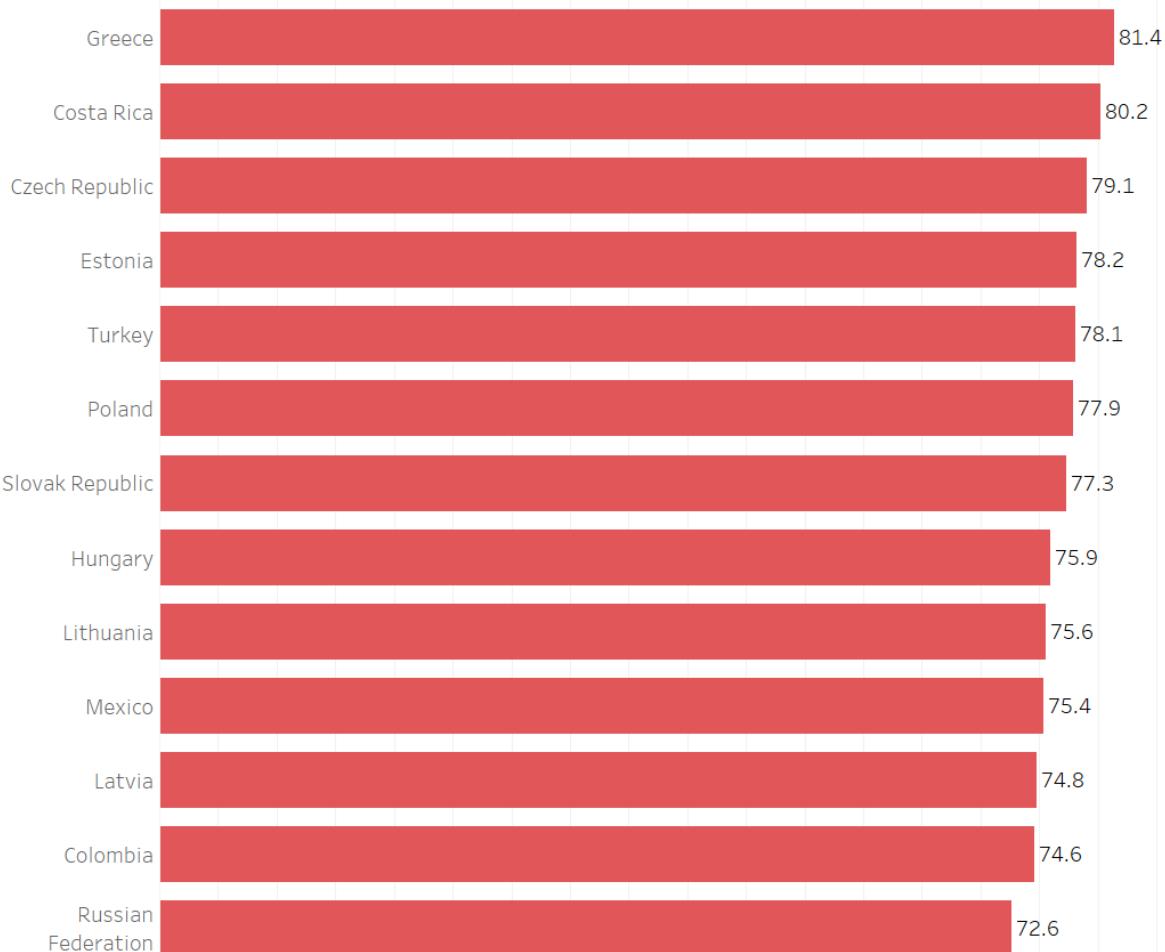


## Life Expectancy for higher income countries is 82, but for lower income countries it is ..

High Income countries



Low Income countries



# Conclusion

**To improve Health Care condition, the Lower Income countries should:**

- **Spend more % of their GDP on Health Infrastructure**
- **Promote compulsory insurance for their population**
- **Improve Education to bring medical awareness**
- **Improve Infrastructure with good accessibility to hospitals**
- **Vaccinate population as part of preventive care**



# References

- [1] OECD (2019), *Health at a Glance 2019: OECD Indicators*, OECD Publishing, Paris, <https://doi.org/10.1787/4dd50c09-en>.
- [2] Belloni, A., D. Morgan and V. Paris (2016), "Pharmaceutical Expenditure And Policies: Past Trends And Future Challenges", *OECD Health Working Papers*, No. 87, OECD Publishing, Paris, <https://doi.org/10.1787/5jm0q1f4cdq7-en>.
- [3] 2018: *The pharmaceutical industry in figures*. EFPIA Homepage. (n.d.). <https://efpia.eu/publications/downloads/efpia/2018-the-pharmaceutical-industry-in-figures/>.
- [4] Indicator C2. What proportion of national wealth is spent on educational institutions? Education at a Glance 2020 : OECD Indicators: OECD iLibrary. Education at a Glance 2020: OECD Indicators | OECD iLibrary. (n.d.). <https://www.oecd-ilibrary.org/sites/623cd4d5-en/index.html?itemId=%2Fcontent%2Fcomponent%2F623cd4d5-en>.
- [5] Press, A. (2014, March 6). *Pakistani woman on a mission to educate children*. NDTV.com. <https://www.ndtv.com/world-news/pakistani-woman-on-a-mission-to-educate-children-553051>.
- [6] Indicator C2. What proportion of national wealth is spent on educational institutions?: Education at a Glance 2020 : OECD Indicators: OECD iLibrary. Education at a Glance 2020 : OECD Indicators | OECD iLibrary. (n.d.). <https://www.oecd-ilibrary.org/sites/623cd4d5-en/index.html?itemId=%2Fcontent%2Fcomponent%2F623cd4d5-en>.
- [7] Roser, M., & Ortiz-Ospina, E. (2016, June 22). *Financing Education*. Our World in Data. <https://ourworldindata.org/financing-education>.
- [8] Guardian News and Media. (2014, January 29). *One in four young people in developing countries unable to read, says UN*. The Guardian. <https://www.theguardian.com/global-development/2014/jan/29/illiteracy-education-young-people-developing-countries>.
- [9] Gmeinder, M., D. Morgan and M. Mueller (2017), "How much do OECD countries spend on prevention?", *OECD Health Working Papers*, No. 101, OECD Publishing, Paris, <https://doi.org/10.1787/f19e803c-en>.
- [10] Kimberly Amadeo "Why Preventive Care Lowers Health Care Costs" , January 28, 2021, <https://www.thebalance.com/preventive-care-how-it-lowers-aca-costs-3306074>