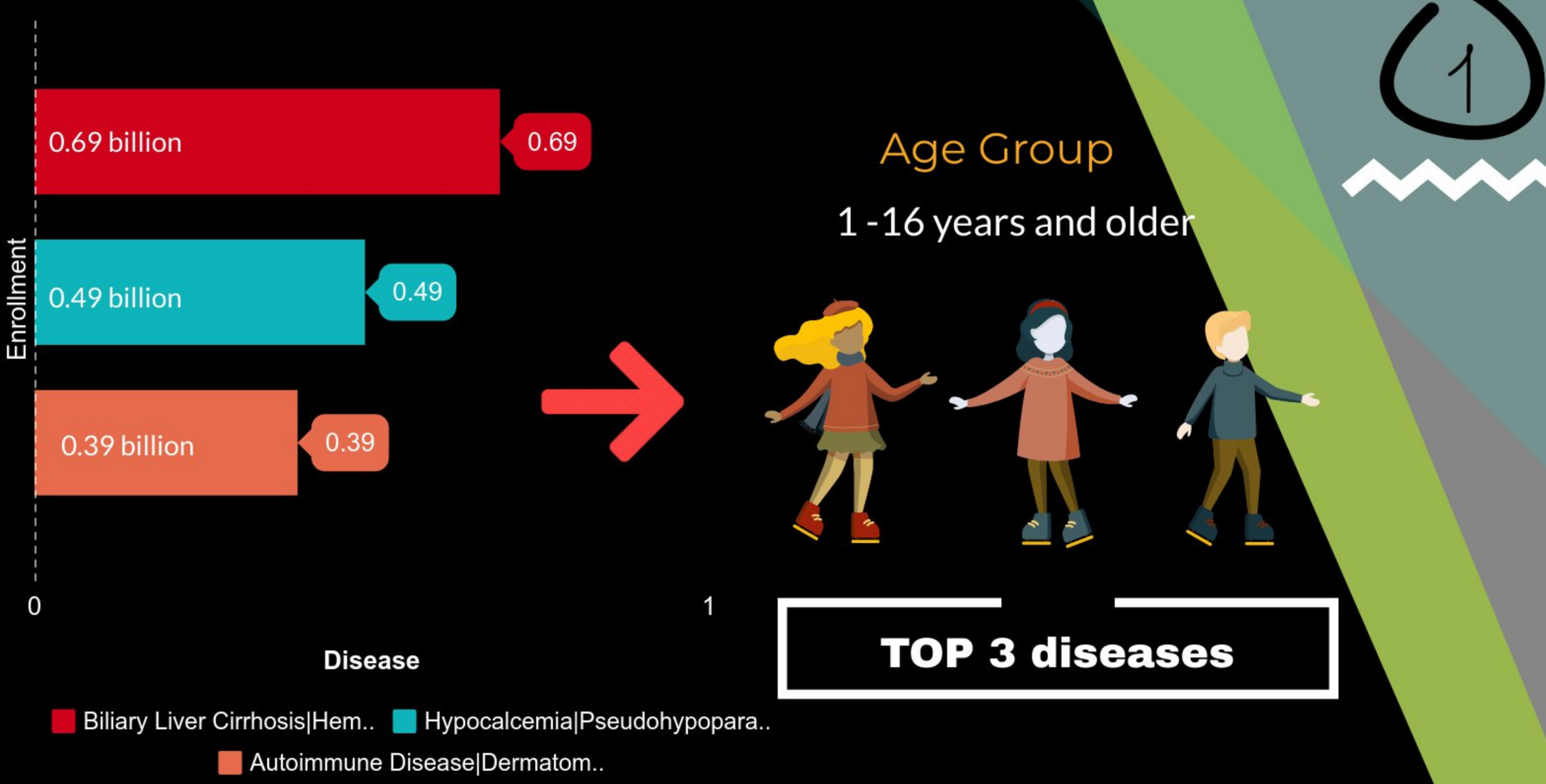
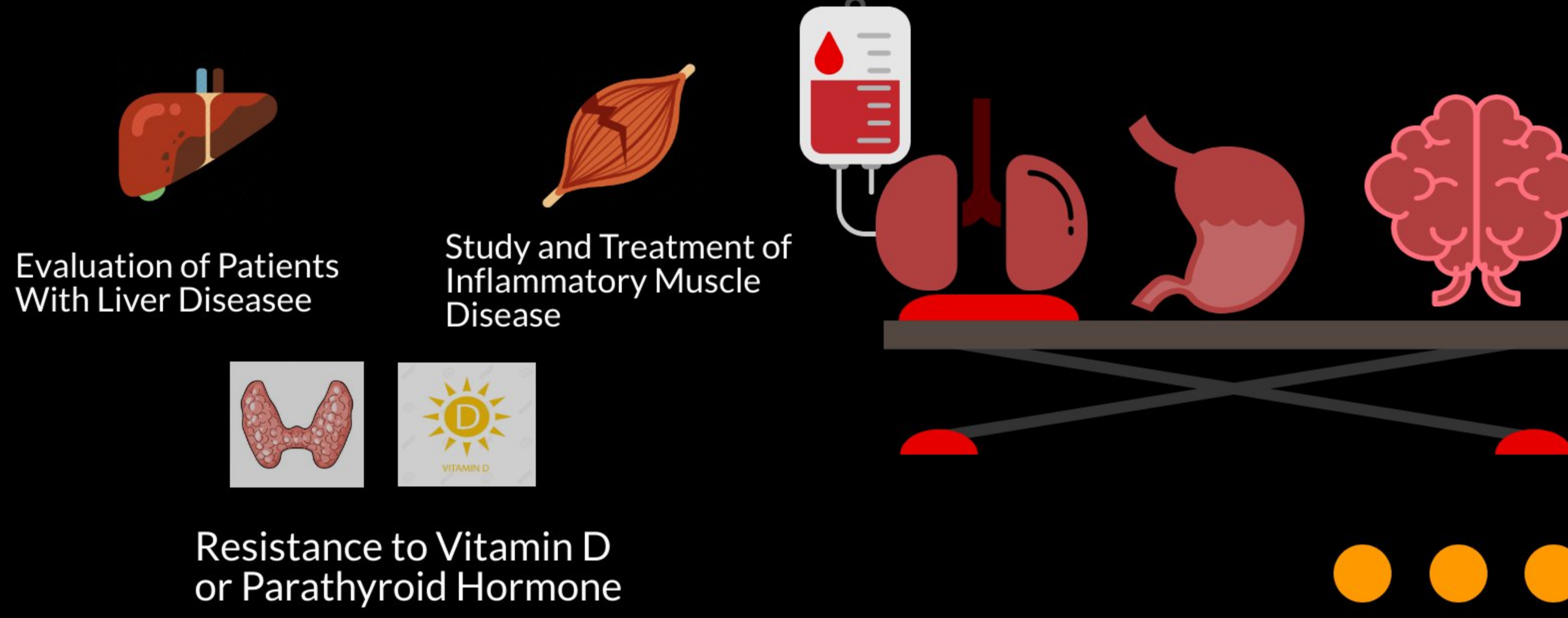


Alexion Analytics Challenges 2019

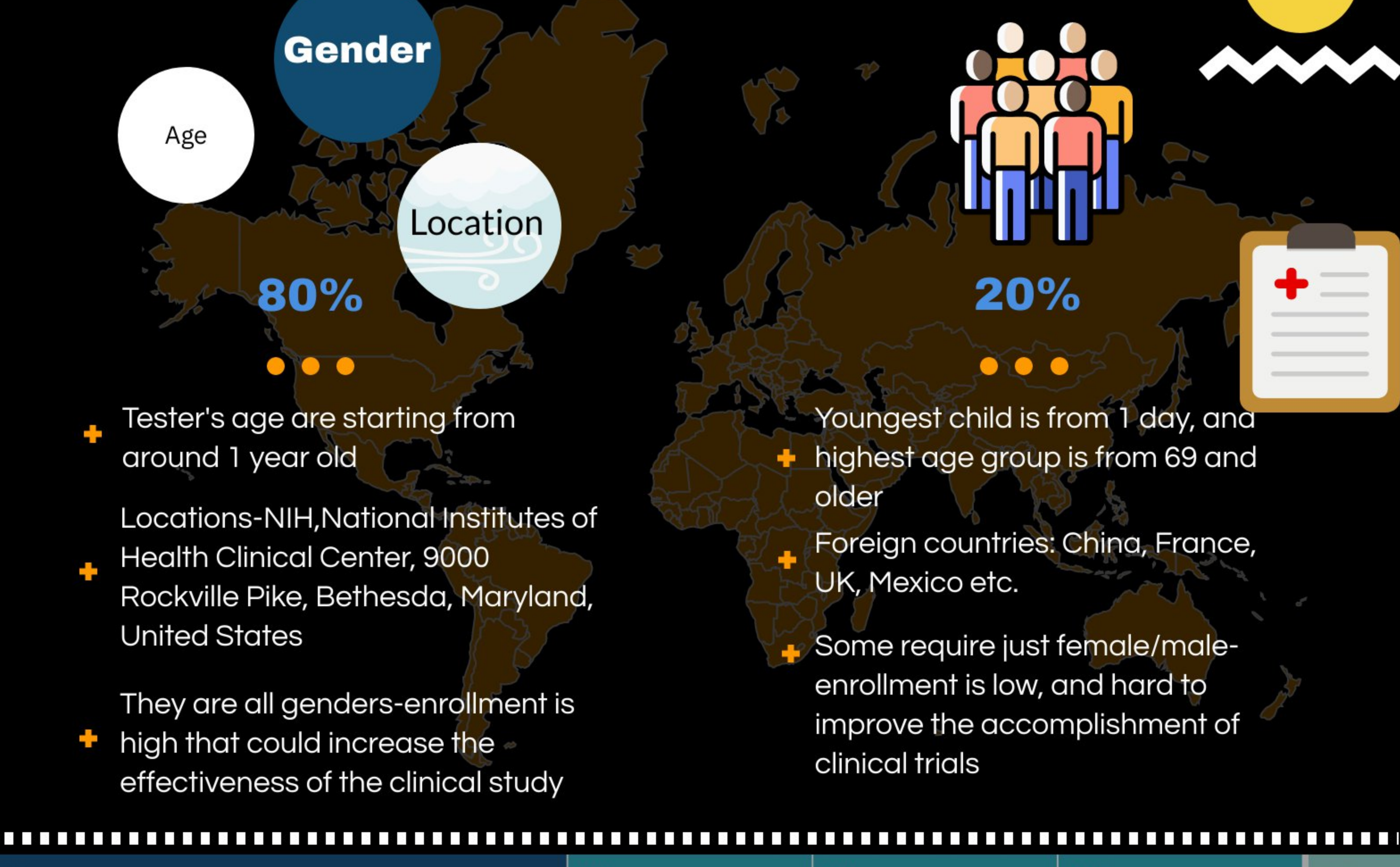
Which rare diseases had the most trials?



There are 3 clinical studies that have more than 1.6 billions people to participate



How does sampling effect trial success?



Funding Sources



Future Trends in Clinical Trial

In the future, there will be more enrollment and participant, and number of clinical trials will increase, but it doesn't mean we will have more drug and treatment because of high rate of failure rate, regulations, and data security.

5 Future Trends in Clinical Trial

The rise of patient-centric practices



- + the FDA pushing for greater diversity in clinical trials.
- + The tailored approach increase participation in clinical trials.
- + Changing patient recruitment increase participation and lower costs.

2017
\$11 millions investment in antidote technologies clinical trail. The center for devices and radiologic health in the USA released its digital health plan, and commit to follow the European commission's smart wearables paper

+ Making data more free and open is a trend we will see accelerate

With the growth of the Clinical Study Data Request platform likely to continue in the coming year.



eHealth and data sharing across the EU

mHealth and Wearable Tech



+ The use of wearables in clinical trials is in its embryonic phase, but the impact could be huge

+ "70-80% of data being collected by the patient in their own home, rather than centres, is probably achievable and good for everybody."



Automated clinical trial supplies

+ The trend toward automation will increase, as will the push toward outsourcing.

+ A 2017 industry study found that 53% of respondents outsource more than 61% of their trials budget – a figure that's likely to increase.

+ Using innovative encryption methods like Blockchain, data can be safely and securely shared across barriers and borders

+ Blockchain solutions allow secure access to clinical trial information.

Cyber Security



SOURCE BLOCK

<https://www.dropbox.com/s/qqlsad3ilnxuuyo/Clinical%20Trial%20Data%20Pull.xlsx?dl=0>

<https://www.dropbox.com/s/588qzv9bu04shhx/Data%20Dictionary.xlsx?dl=0>

<https://www.mesm.com/blog/clinical-trials-innovation-what-s-on-the-horizon/>

Our Team:



Jianjin Liao

tug62810
Temple University
Fox Business School
Management Information System



Qing Yu

tuh28856
Temple University
Fox Business School
Management Information System