



# GLOBAL HEALTH STARTER KIT FOR DENTAL EDUCATION

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## Module 1: Global Trends

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# Competencies:

- 1.1.1. Explain the global burden of oral diseases with regard to prevalence, distribution, and the relationship among oral disease, population trends, and global disease patterns.
- 1.1.2. Understand the essential facts about the etiology of main oral conditions and their symptoms and signs.
- 1.1.3. Describe the impact of oral diseases on well-being and quality of life, as well as its social and economic impact.
- 1.1.4. Identify and assess relevant oral health information and make sound decisions (oral health literacy).
- 2.2.1. Understand the burden and distribution of oral and associated diseases in specific community and country.
- 2.3.2. Identify and advocate to address specific oral health needs and reduce inequities and health care system deficits.



# Learning Objectives

By the end of this module, students should be able to do the following:

- Describe major population trends at the global level
- Discuss the relationship between the global burden of infectious/communicable, non-communicable/chronic, and oral diseases
- Predict how current global trends could be affecting oral health across the world
- Explain how the epidemiologic and demographic transition theories assist in understanding the disease patterns (including oral conditions) of and their impact on a community, country, or region

# Warm up: Let's think about our world!

Which is more, globally:

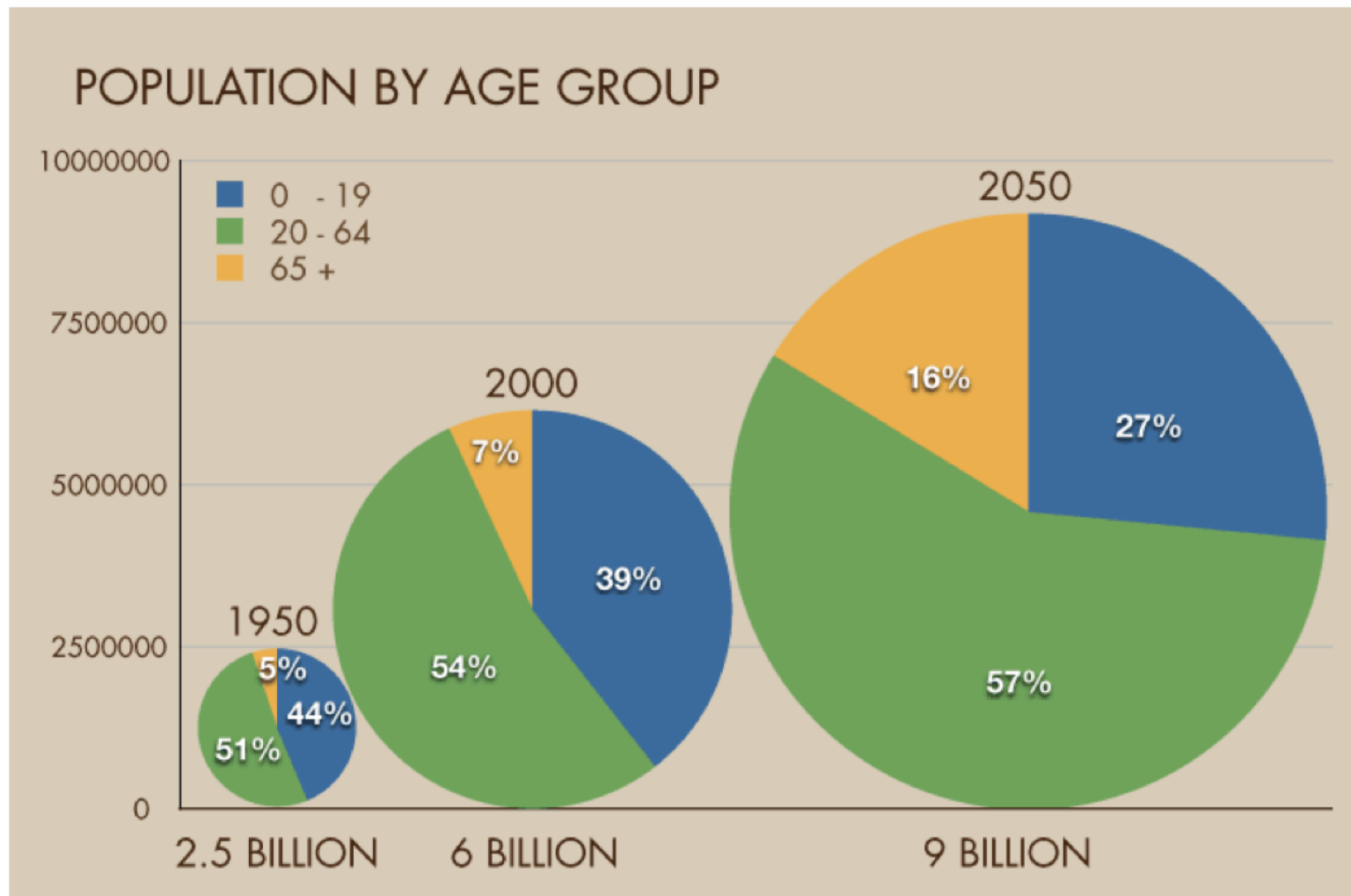
 Older people (65+)   or   Younger people (<5) 

 Rural people   or   Urban people 

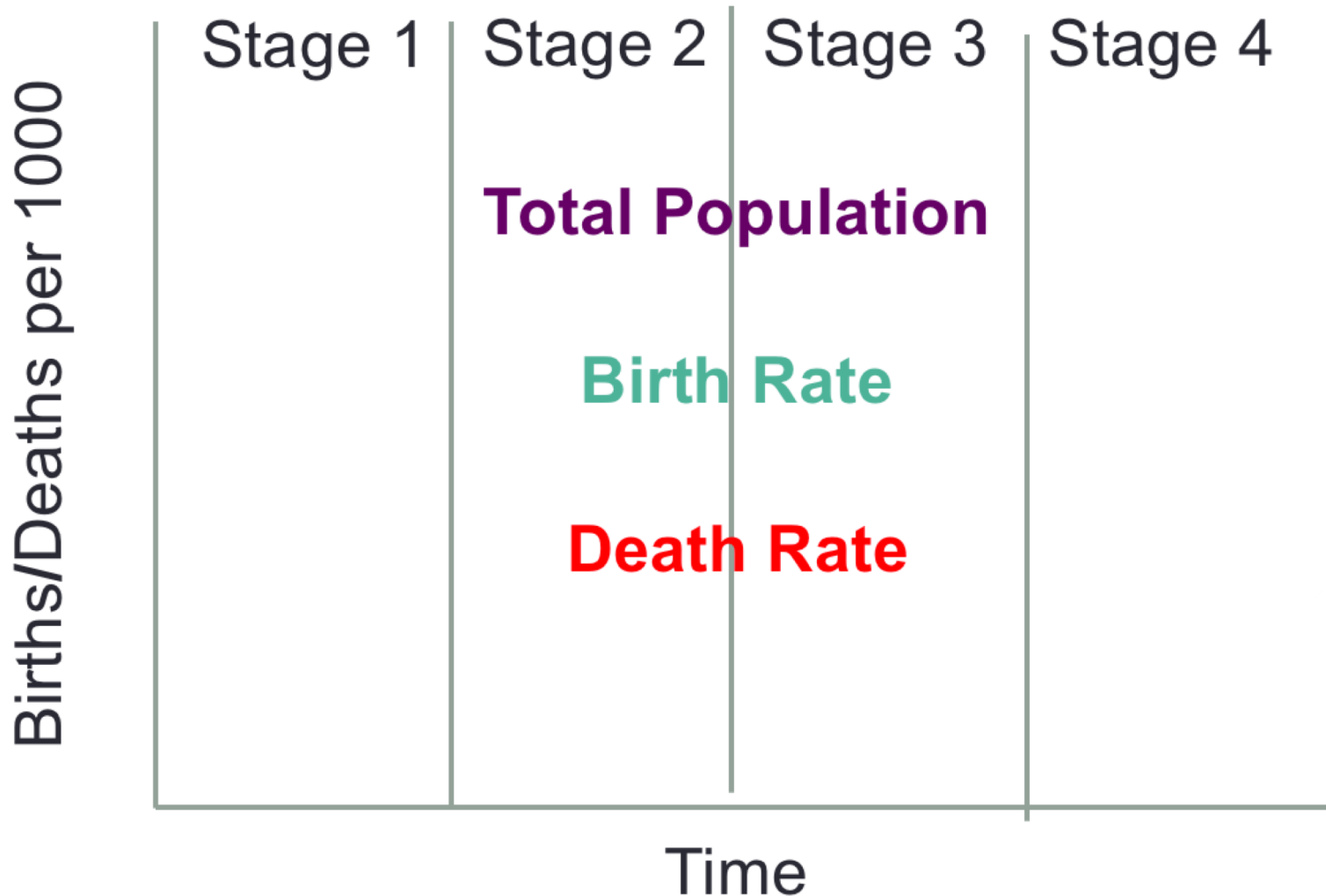
 Toilets   or   Cell phones 

 Untreated cavities   or   Cancers 

# Global Population Trends

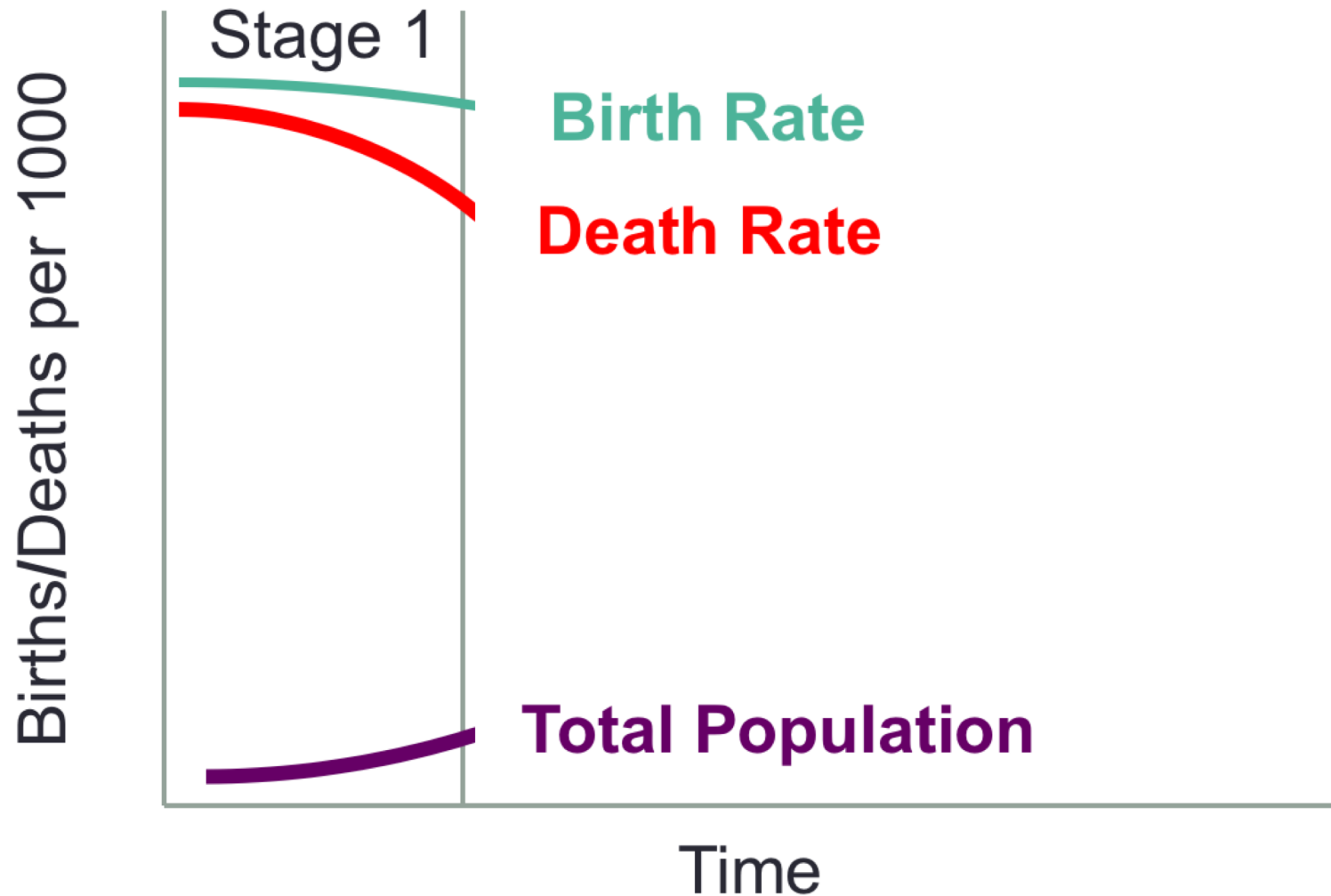


# Demographic Transition

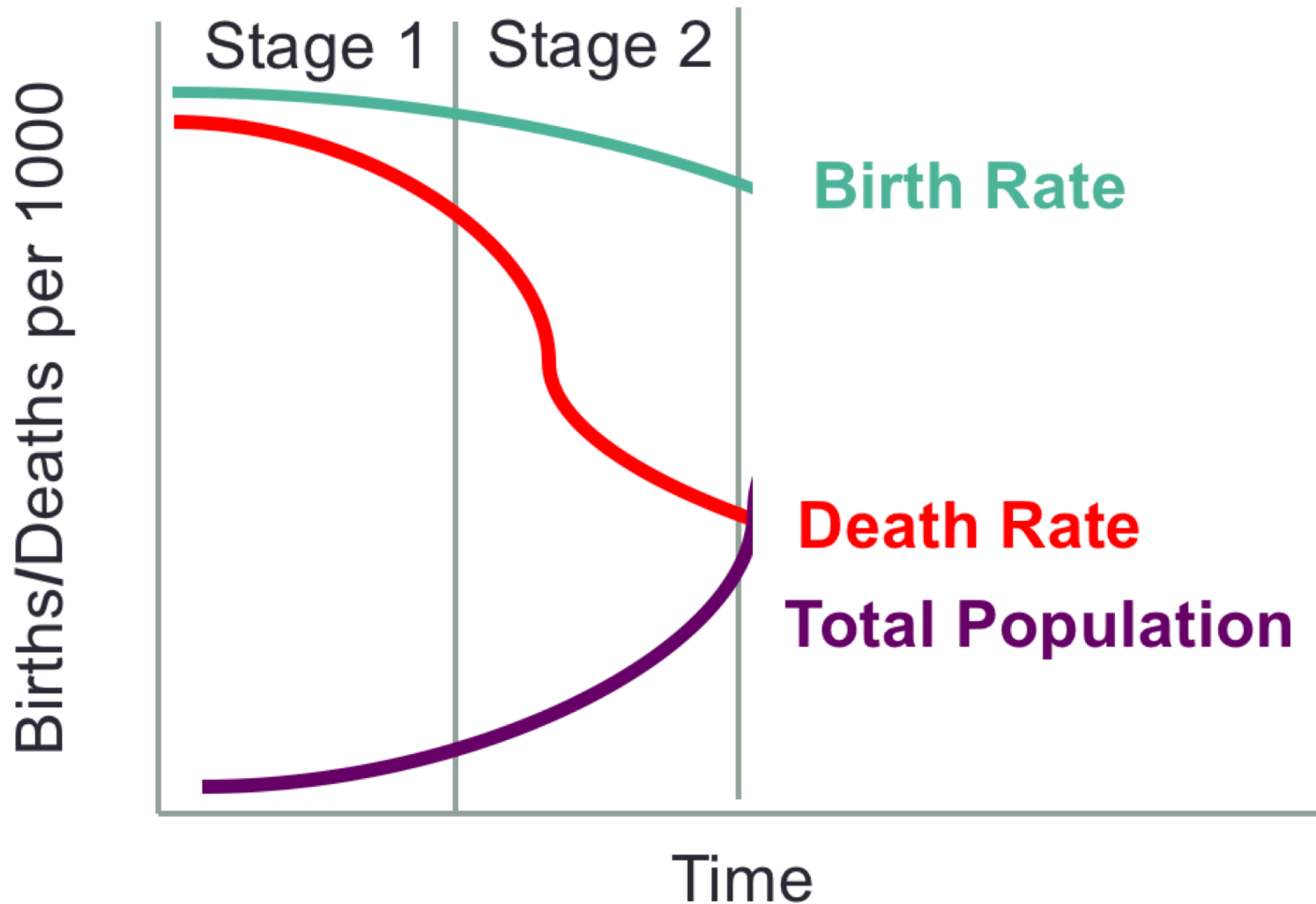




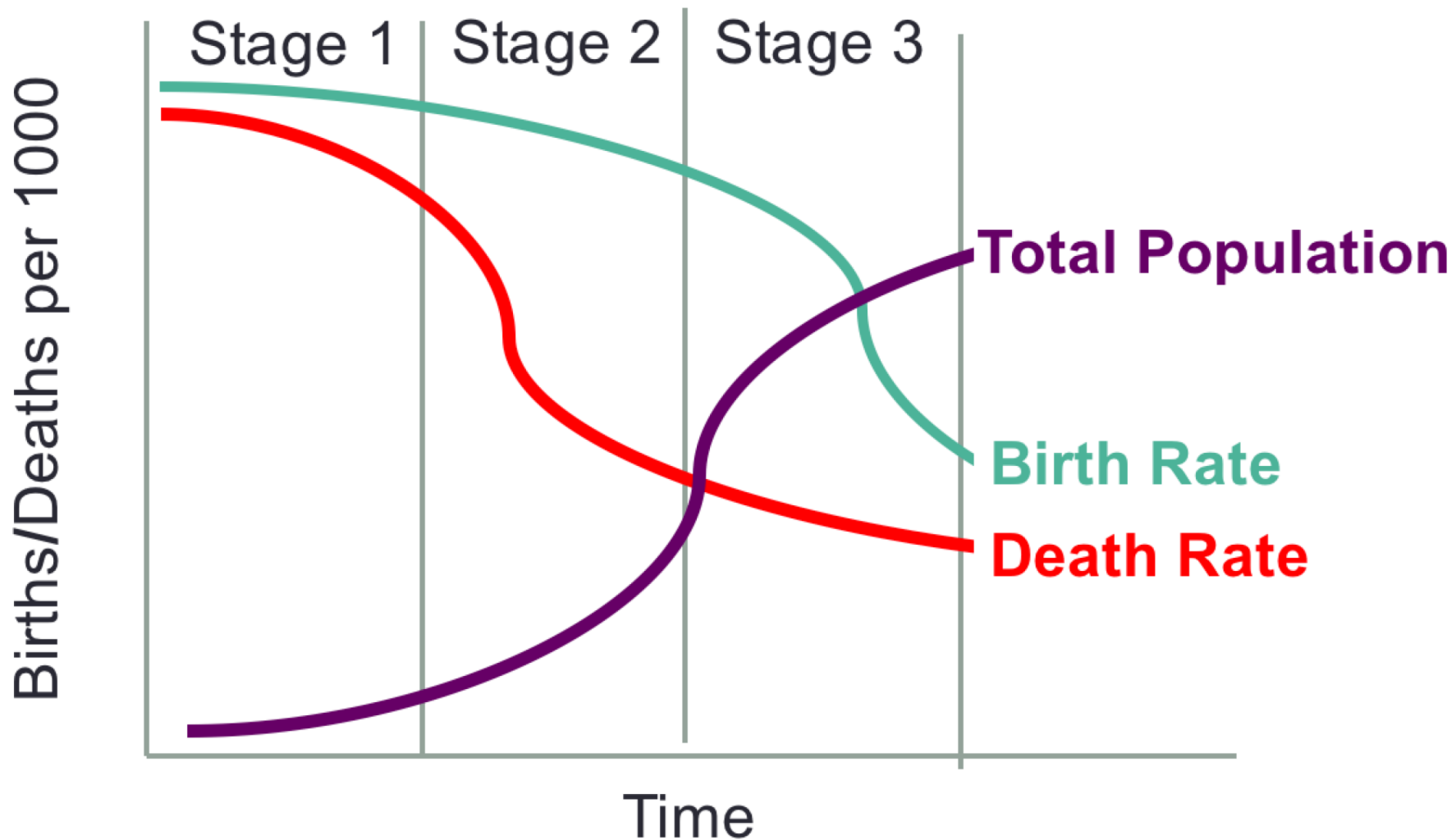
# Demographic Transition



# Demographic Transition

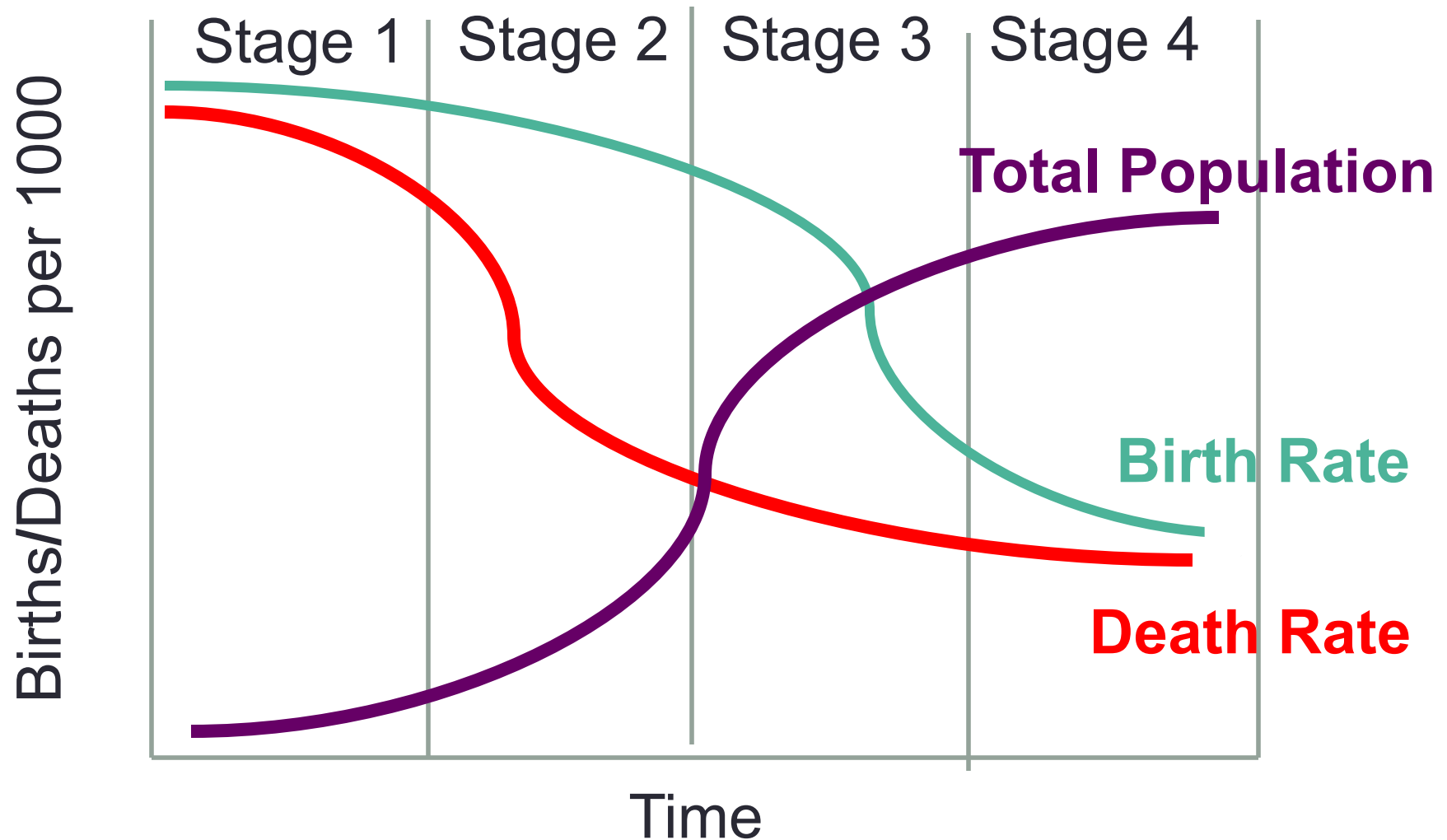


# Demographic Transition



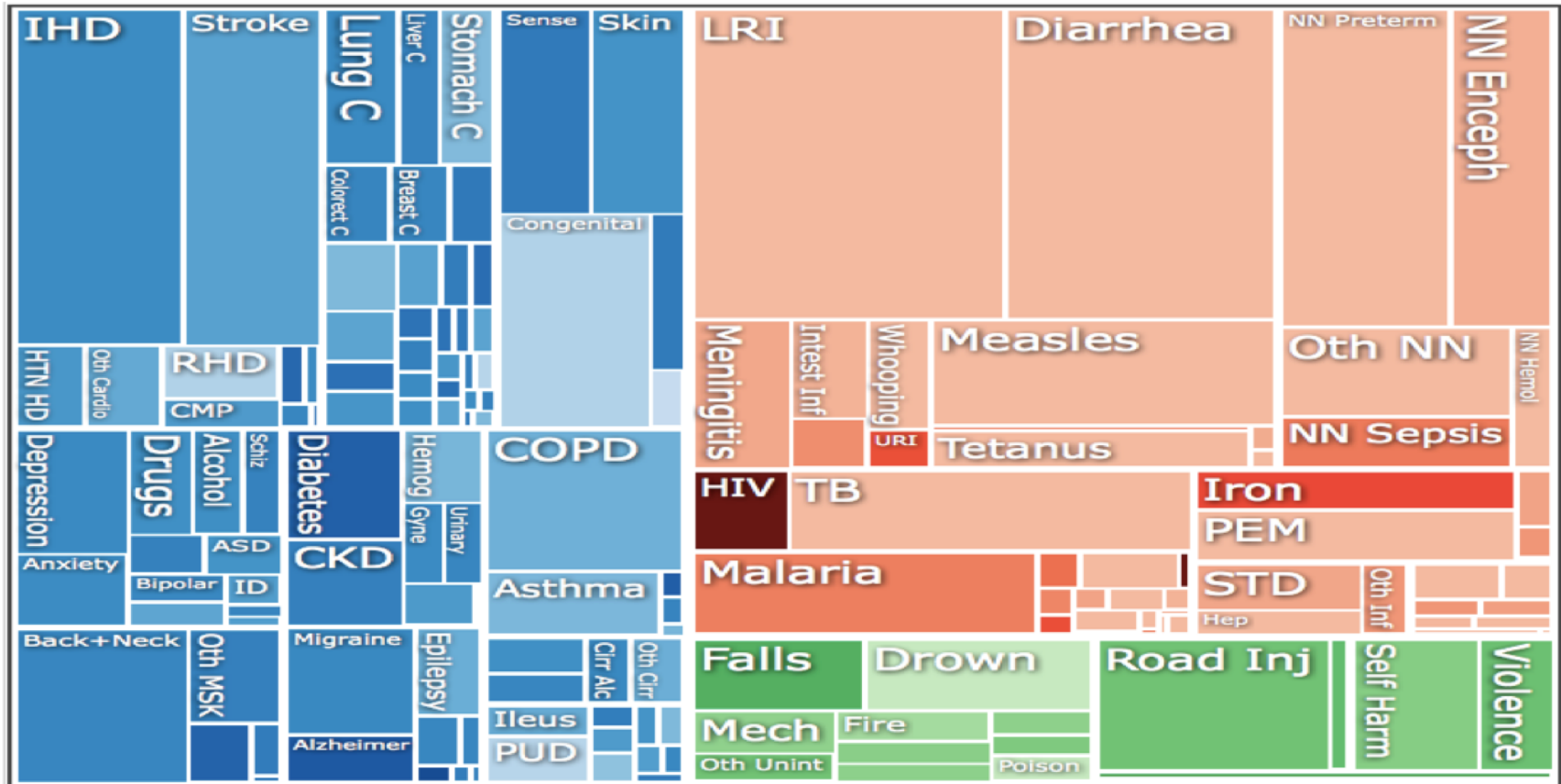


# Demographic Transition



# Global Disease Trends

1990



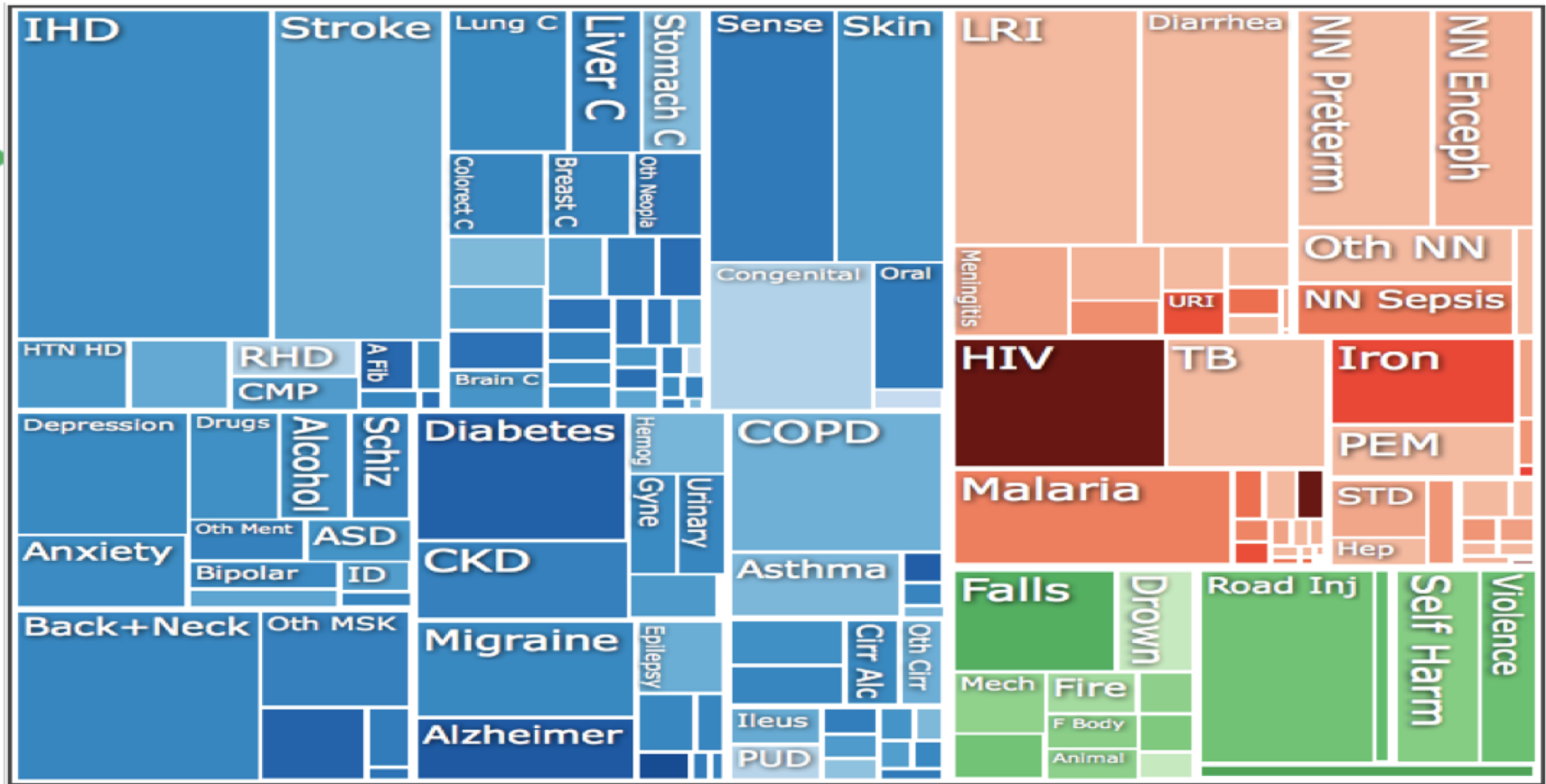
Communicable Diseases

Non- Communicable Diseases

Injuries/Violence

# Global Disease Trends

2016

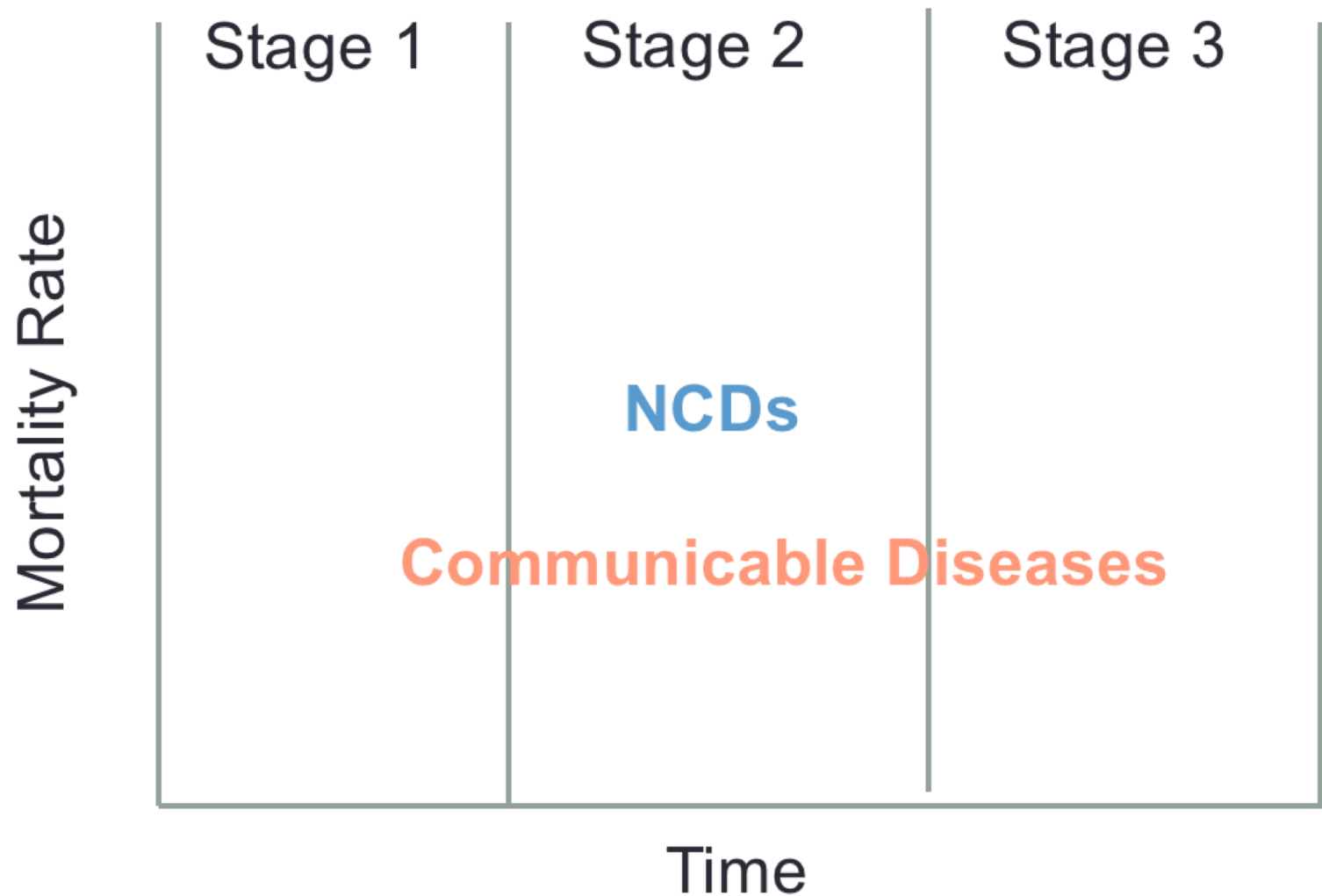


Communicable Diseases

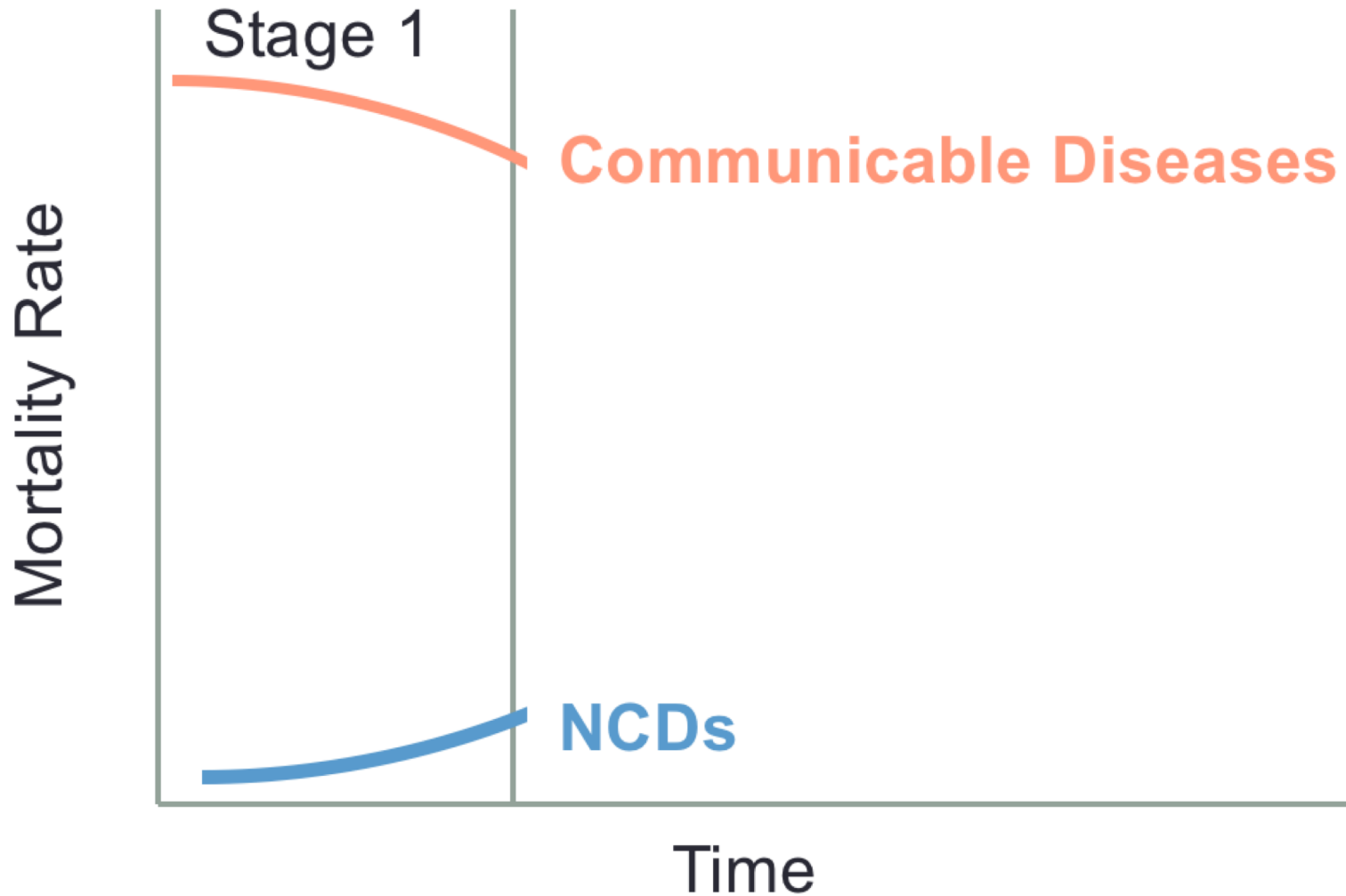
Non- Communicable Diseases

Injuries/Violence

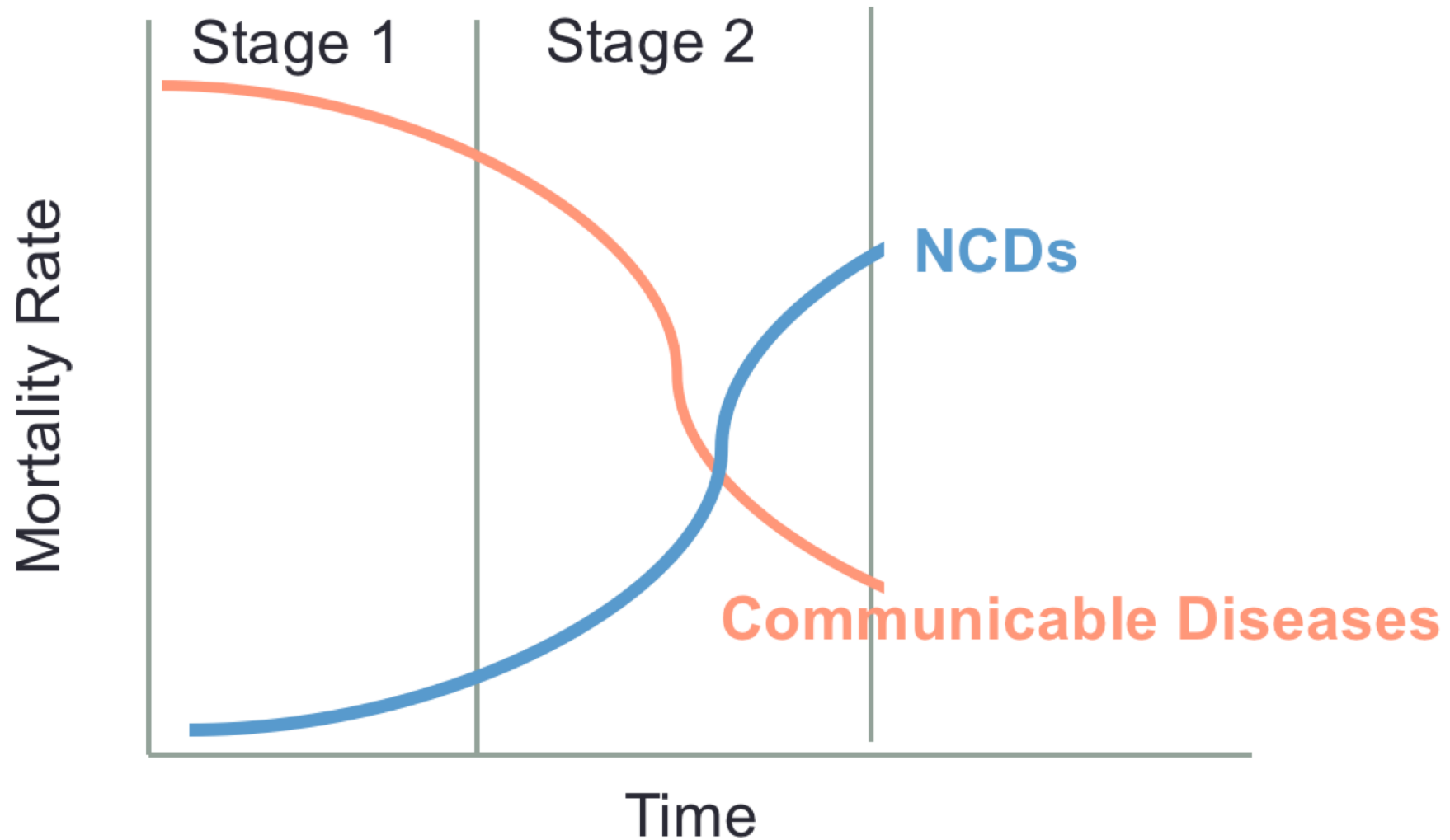
# Epidemiologic Transition



# Epidemiologic Transition

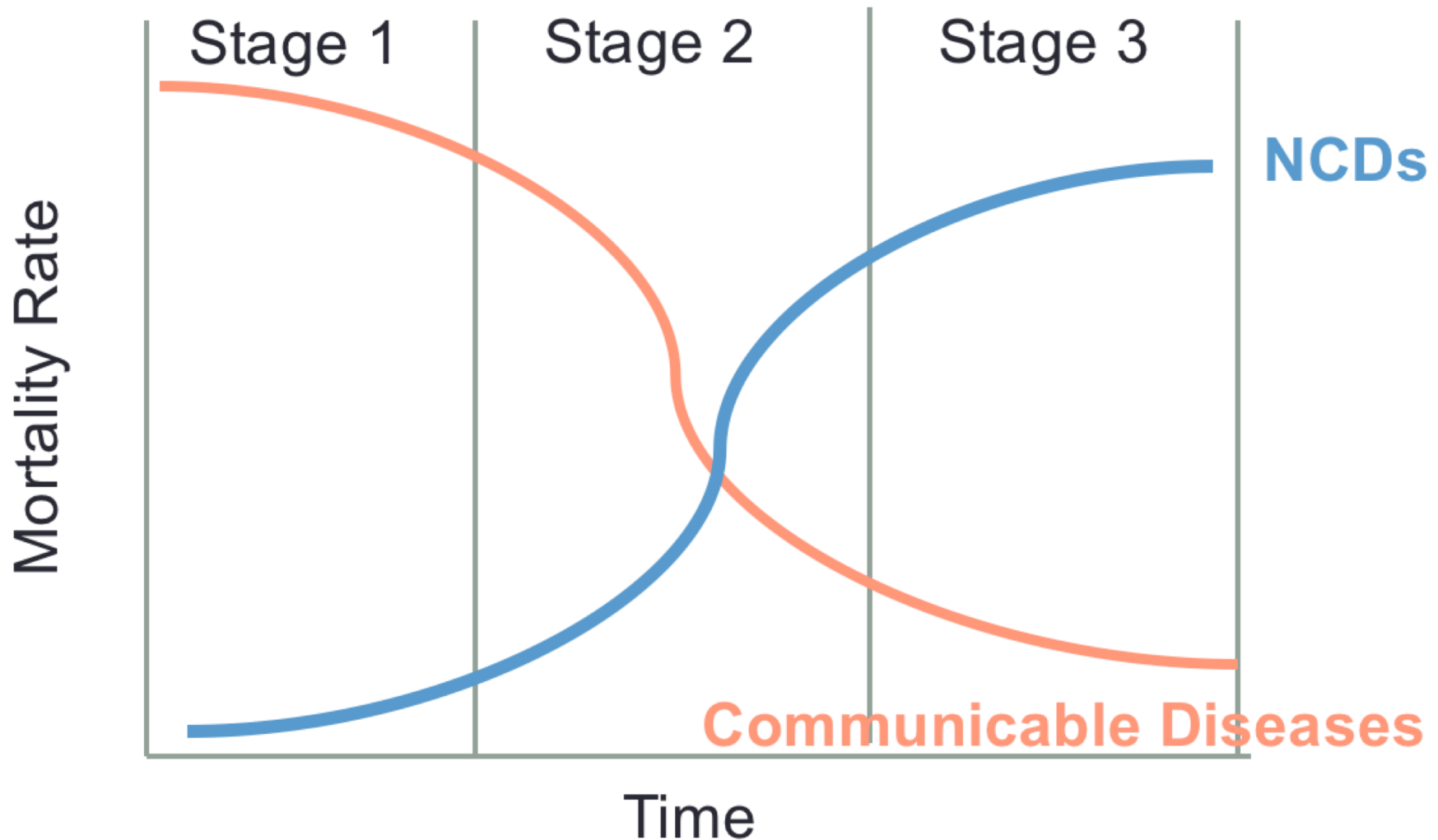


# Epidemiologic Transition





# Epidemiologic Transition

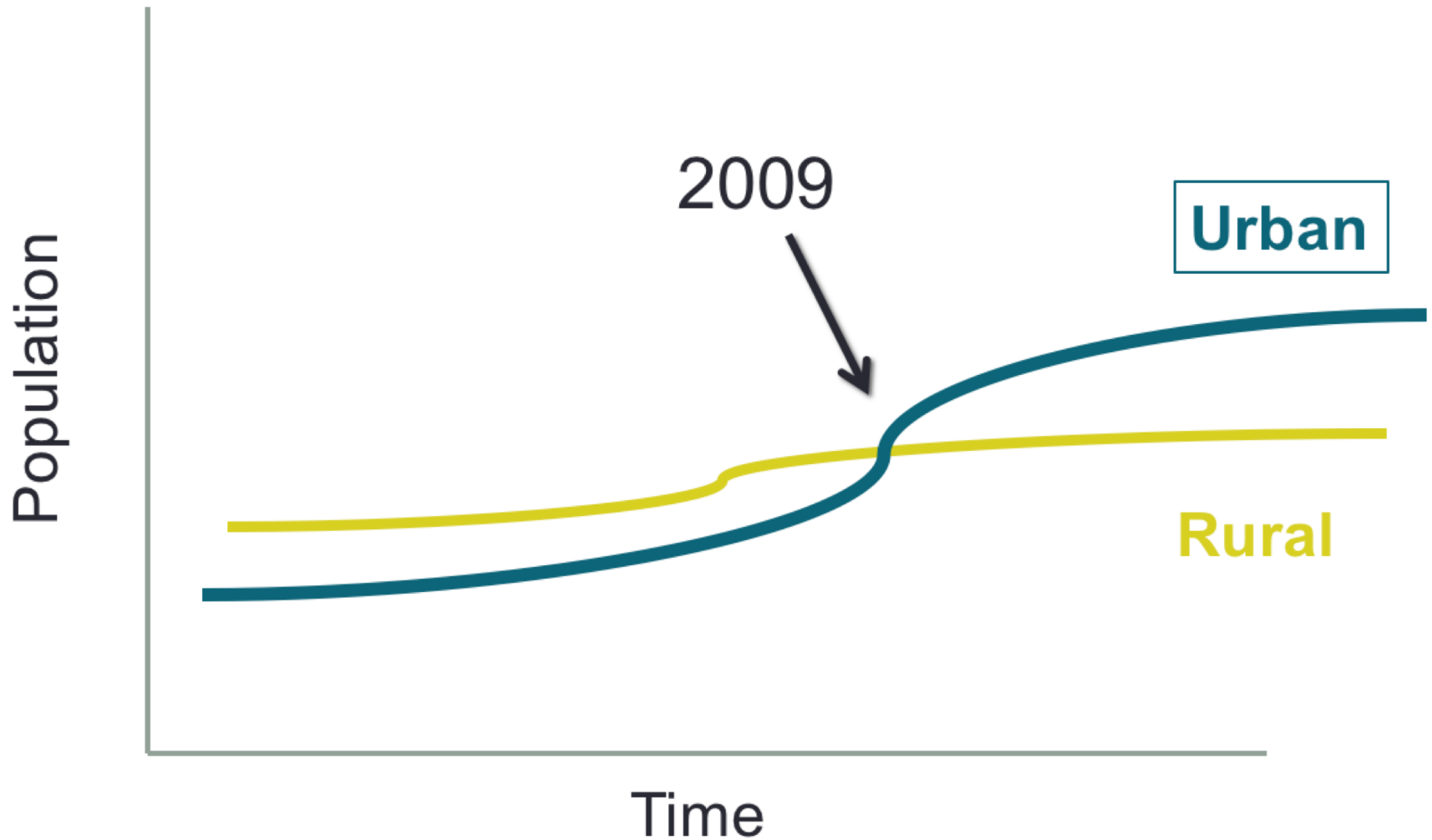


## Other trends: Nutrition

The global food system is **broken**

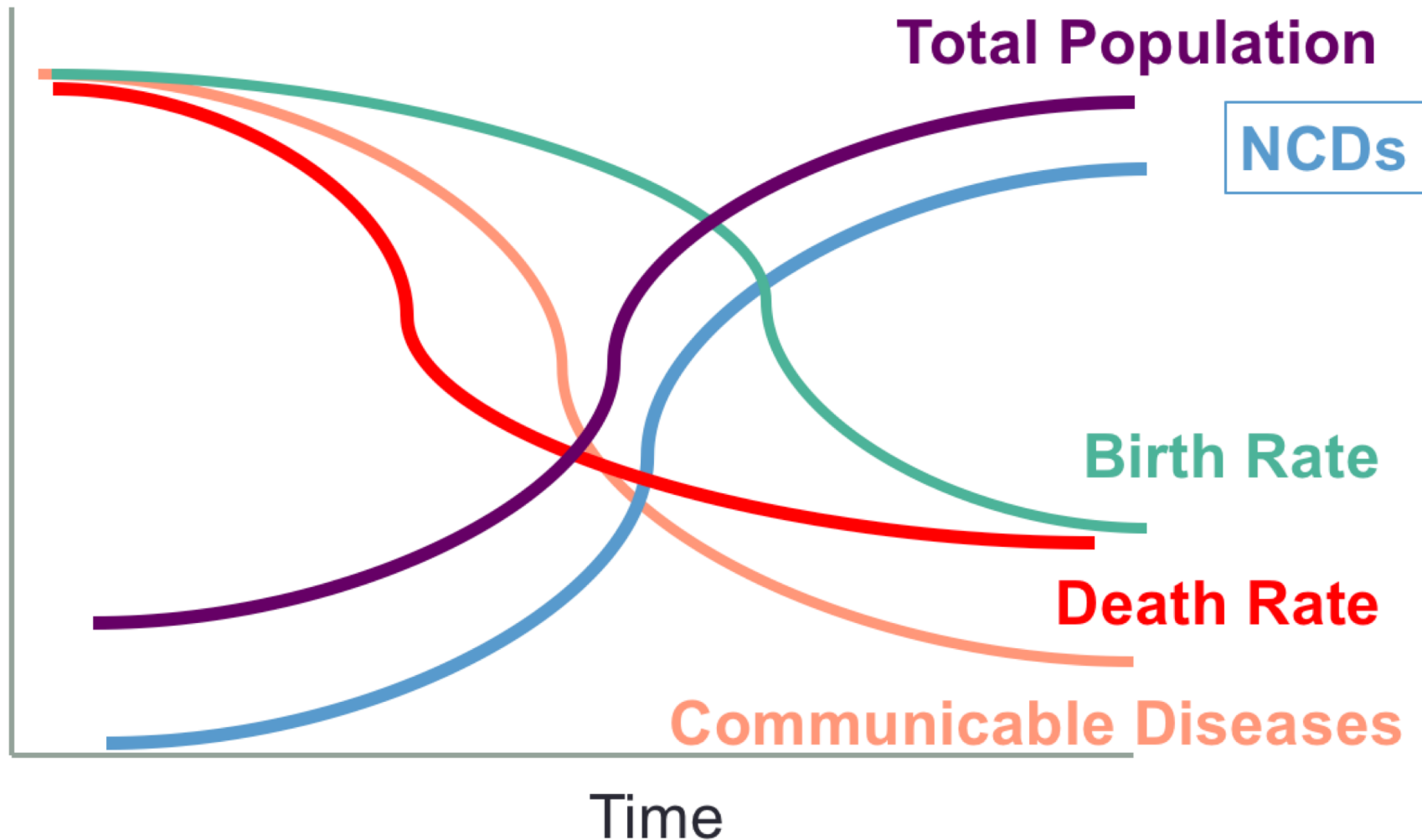


# Other trends: Urbanization





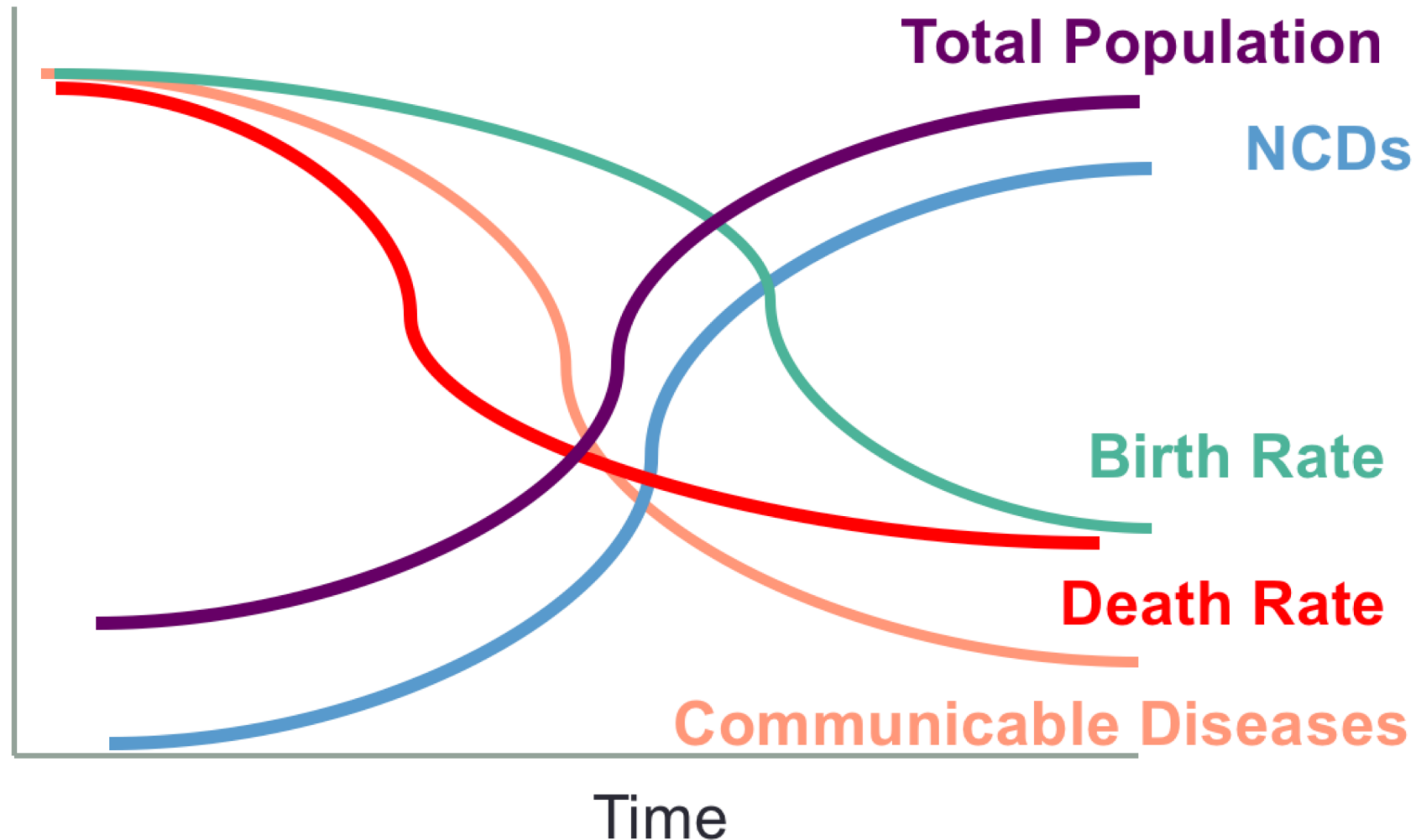
# Putting it all together:



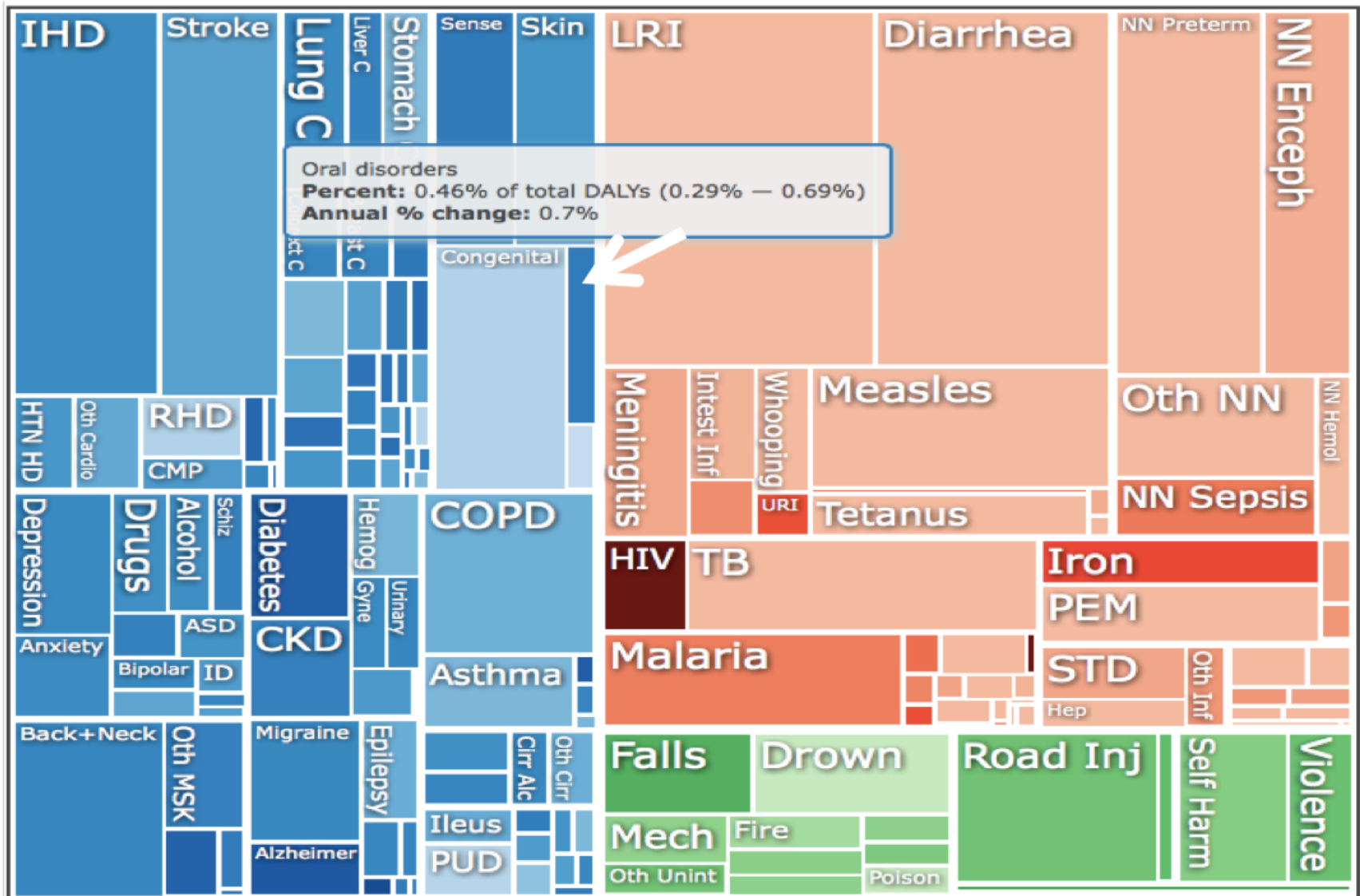


# What about oral health and disease?

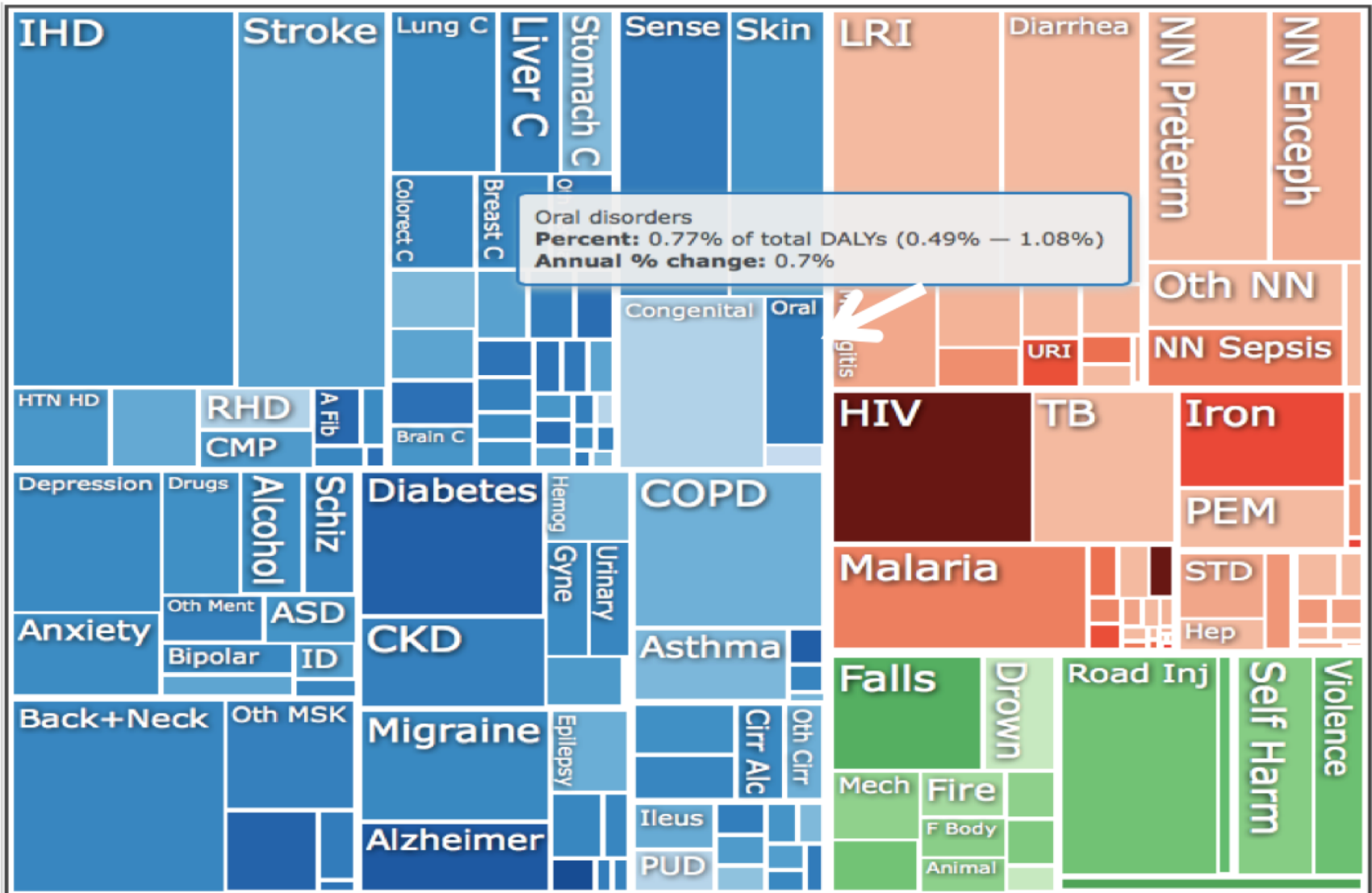
# Oral Disease Burden?



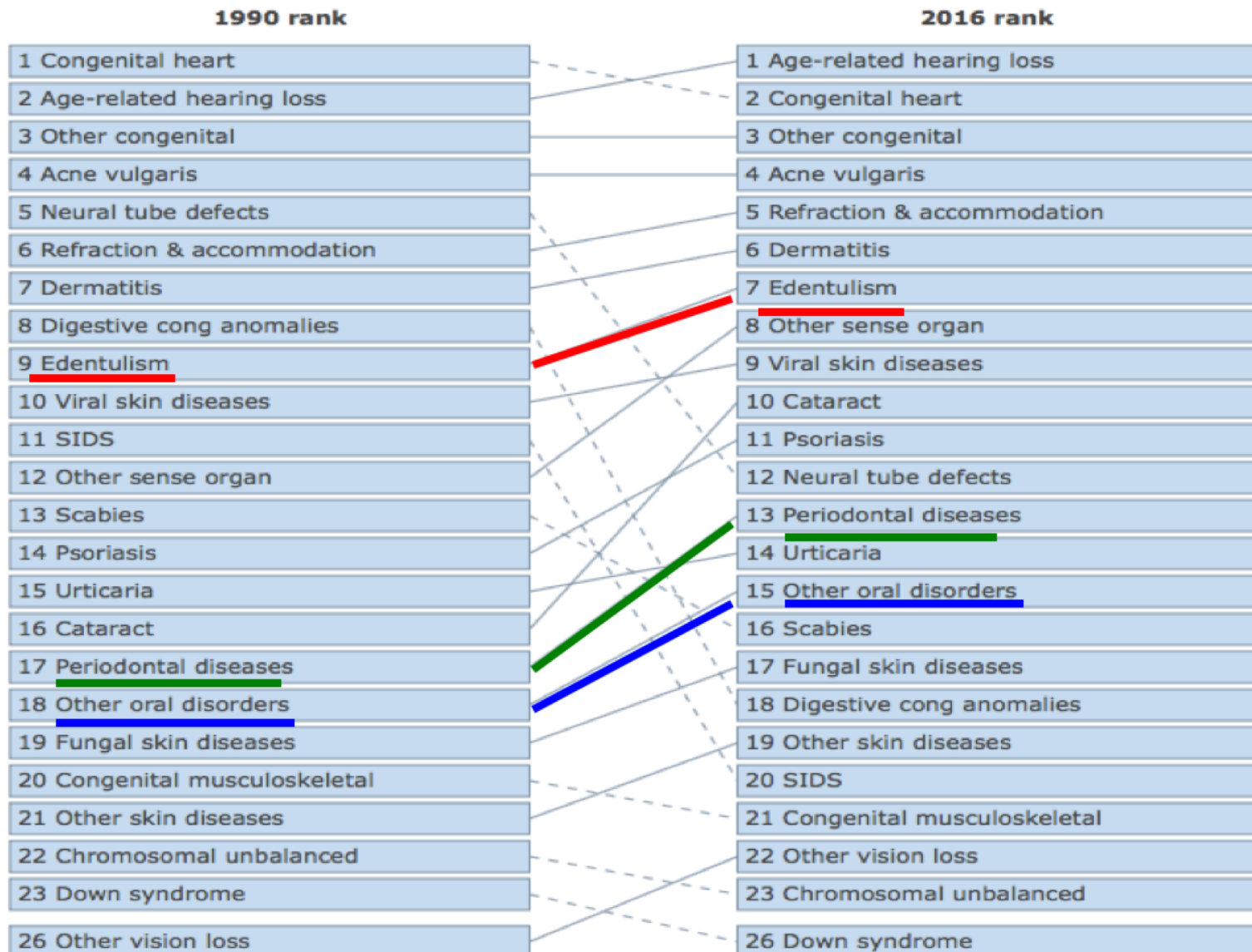
# Oral Disease Trends: 1990



# Oral Disease Trends: 2016



# Oral Disease Trends:



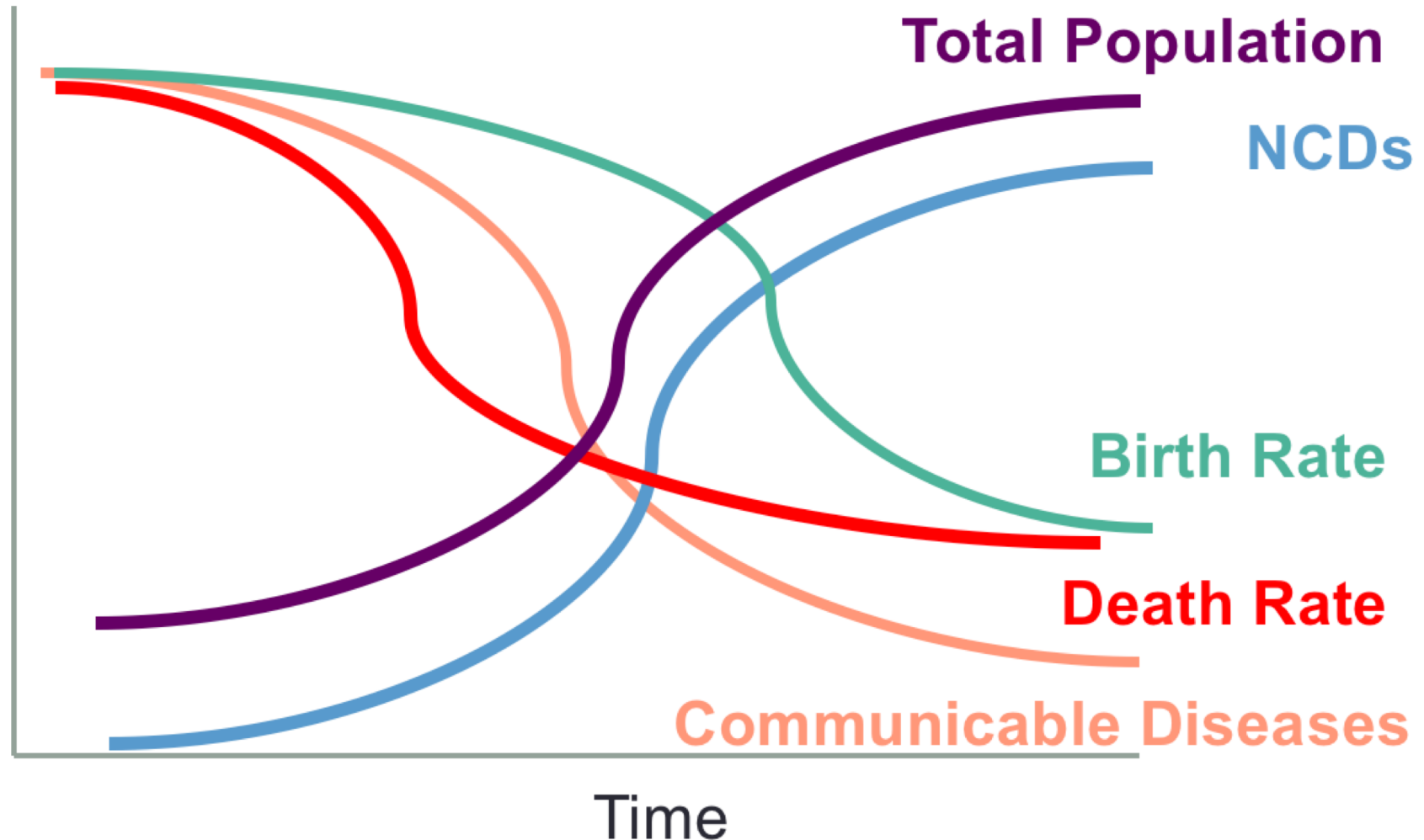


# Oral Diseases: Fast Facts

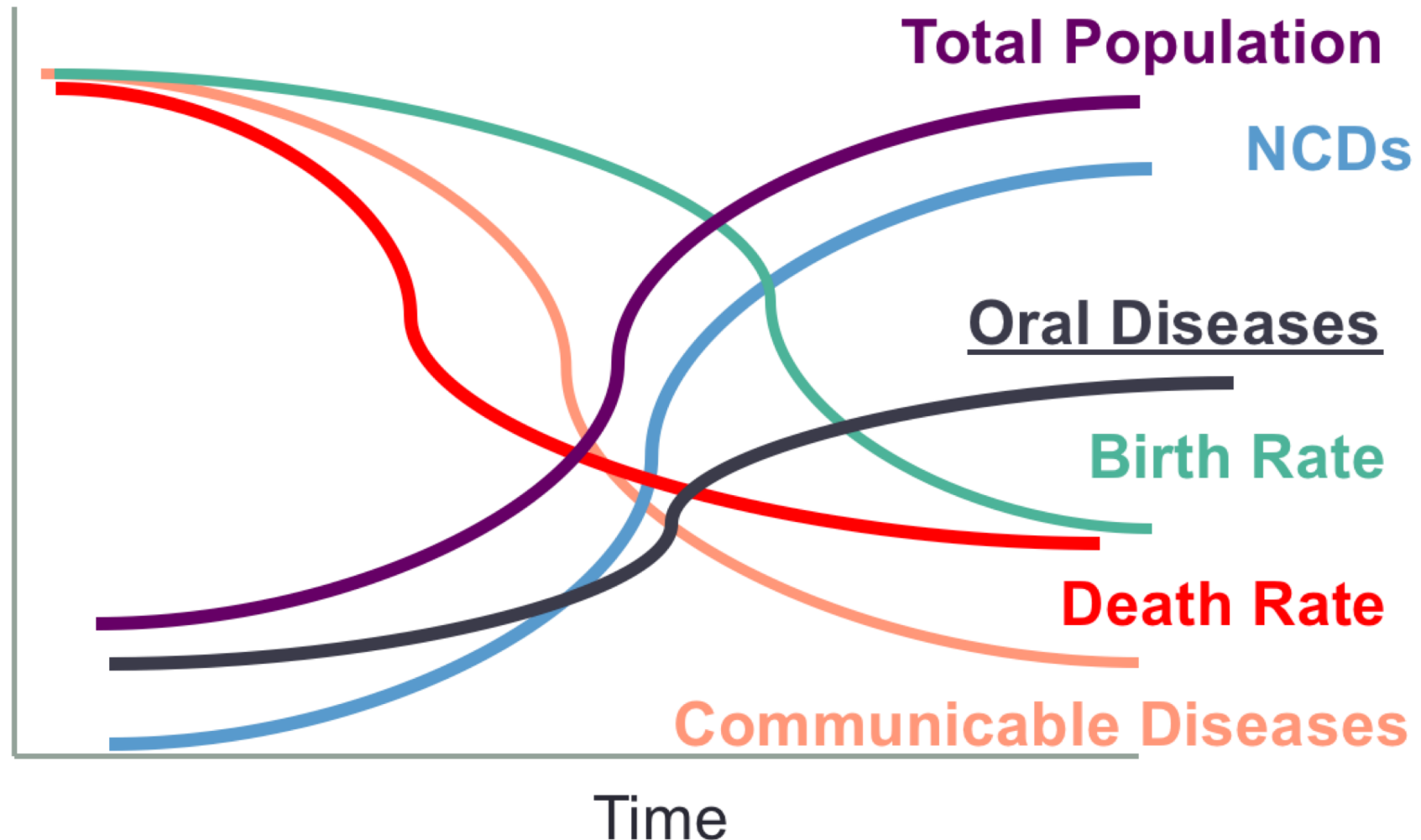
- 3.9 billion people today have **untreated** oral diseases
- Dental caries is the **most prevalent** disease in the world
- Can negatively impact outcomes due to **other NCDs** (such as ability to control hemoglobin A1C levels when living with diabetes)
- **Negatively affect speech, nutrition, mental state, self-confidence, quality of life, ability to attend work/school, and well-being**



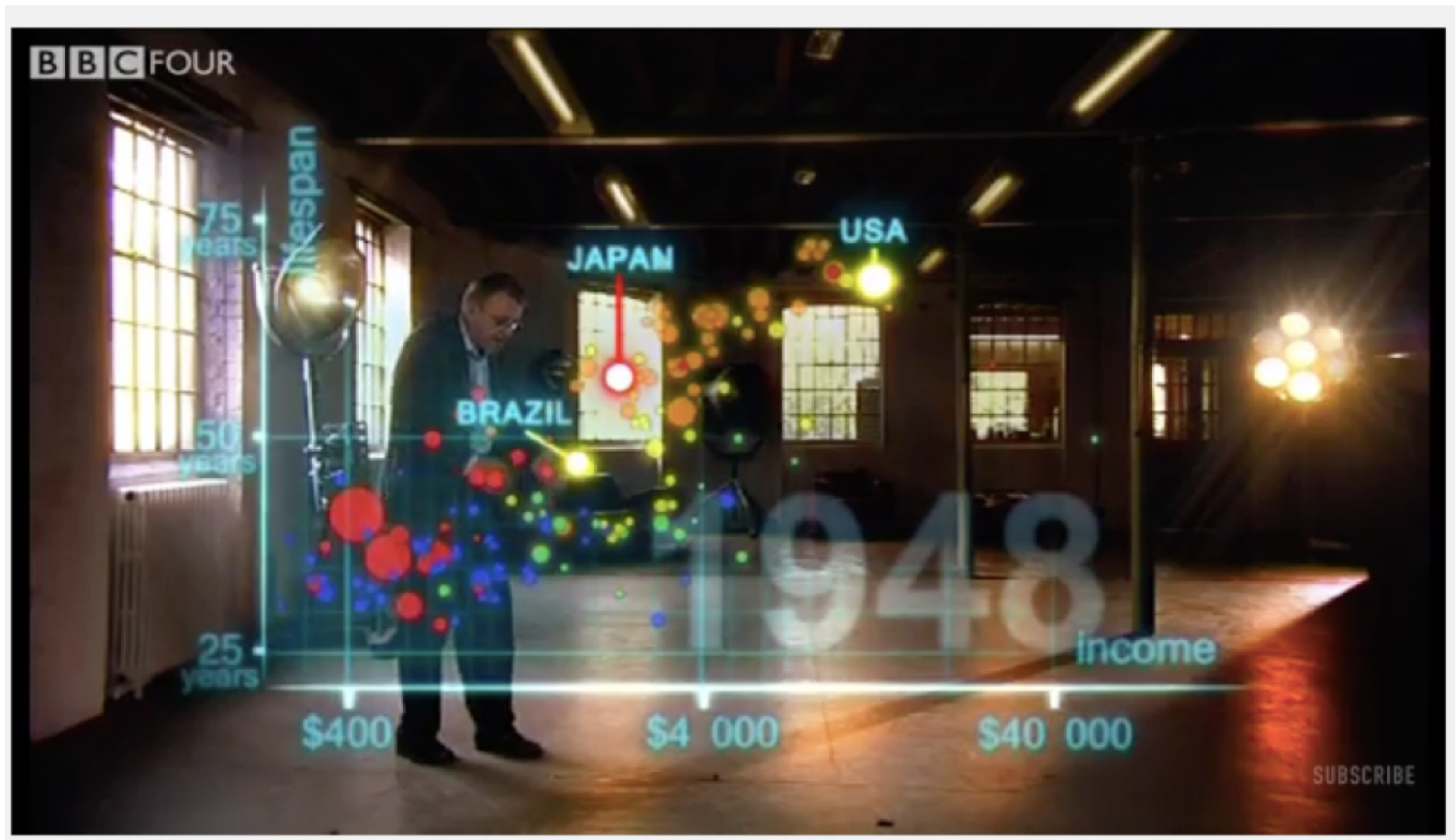
# Oral Disease Burden?



# Oral Disease Burden:



# Wrap Up



Data: Gapminder.org



To continue learning, please check out our other modules:

**Module 2: Global Goals**

**Module 3: Back to Basics-Primary Care**

**Module 4: Social Determinants and Risks**

**Module 5: Ethics and Sustainability**

# Global Health Starter Kit for Dental Education



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