



HEALTH AND MEDICAL SERVICES

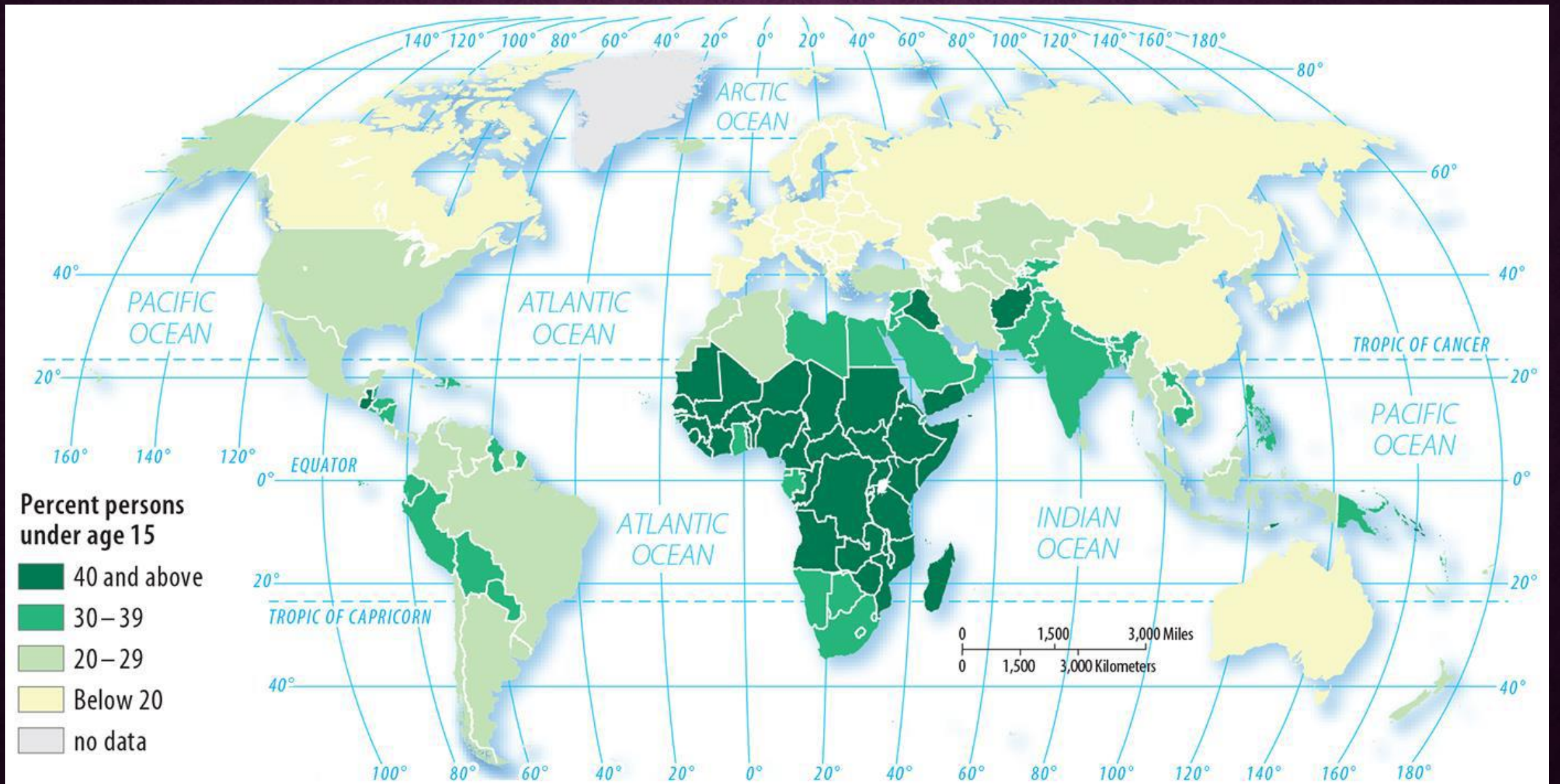
Infant Mortality, Health Care, Medical Facilities

OBJECTIVES

- Explain the demographic transition on the percentages of young and old
- Define the dependency ratio, infant mortality rate, and elderly support ratio

DEPENDENCY RATIO

- # of people who are too young or too old to work, compared to the number of people in their productive years
- Dependents – Under 15 and over 65
 - Europe – 47%
 - Saharan Africa – 85%



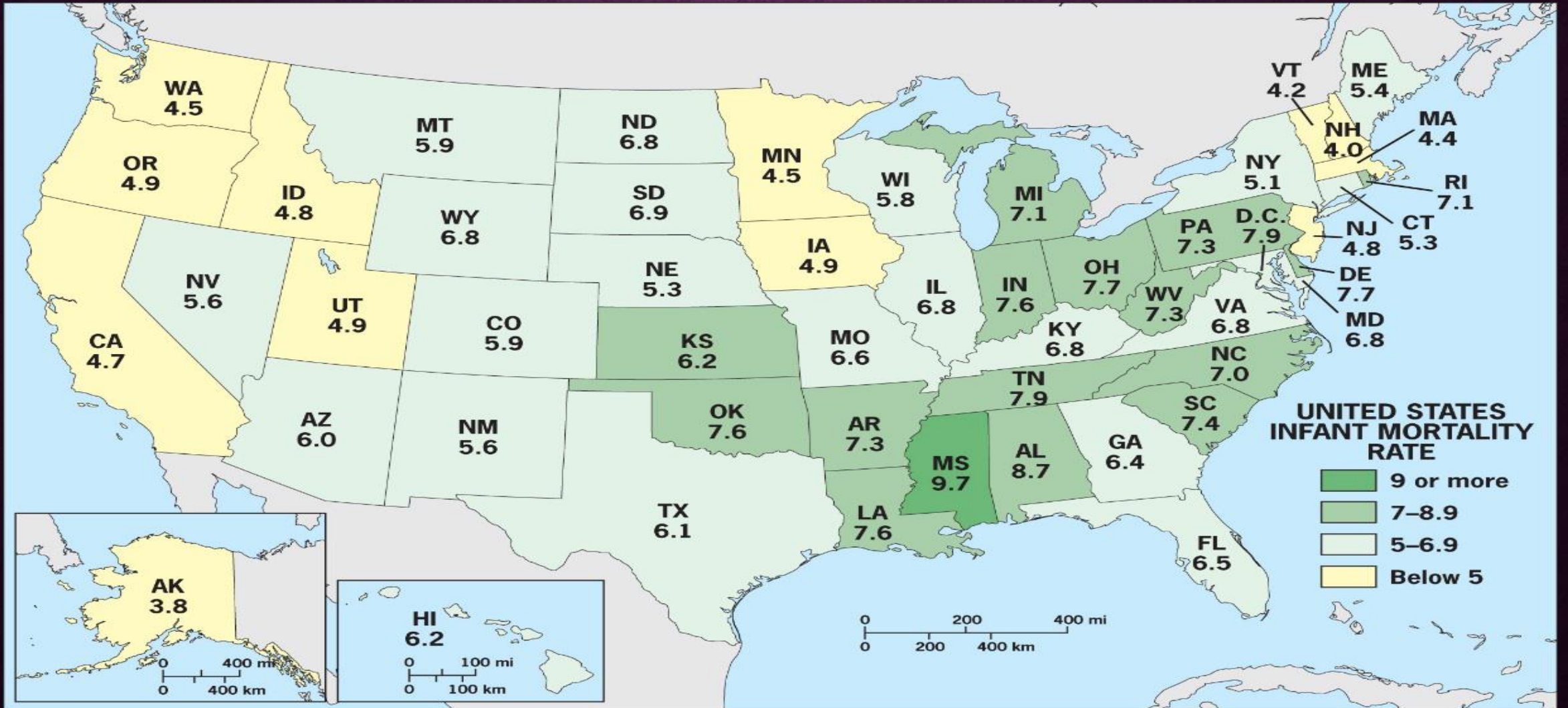
Young outnumber the old in Sub Saharan Africa 14:1



INFANT MORTALITY

- Annual number of deaths of infants under 1 year of age compared with total live births
- Expressed as number of deaths among infants per 1,000 births rather than a percentage
- IMR reflects a country's health care system
 - Lower IMR –well trained doctors, hospitals, and medical supplies

INFANT MORTALITY IN THE US



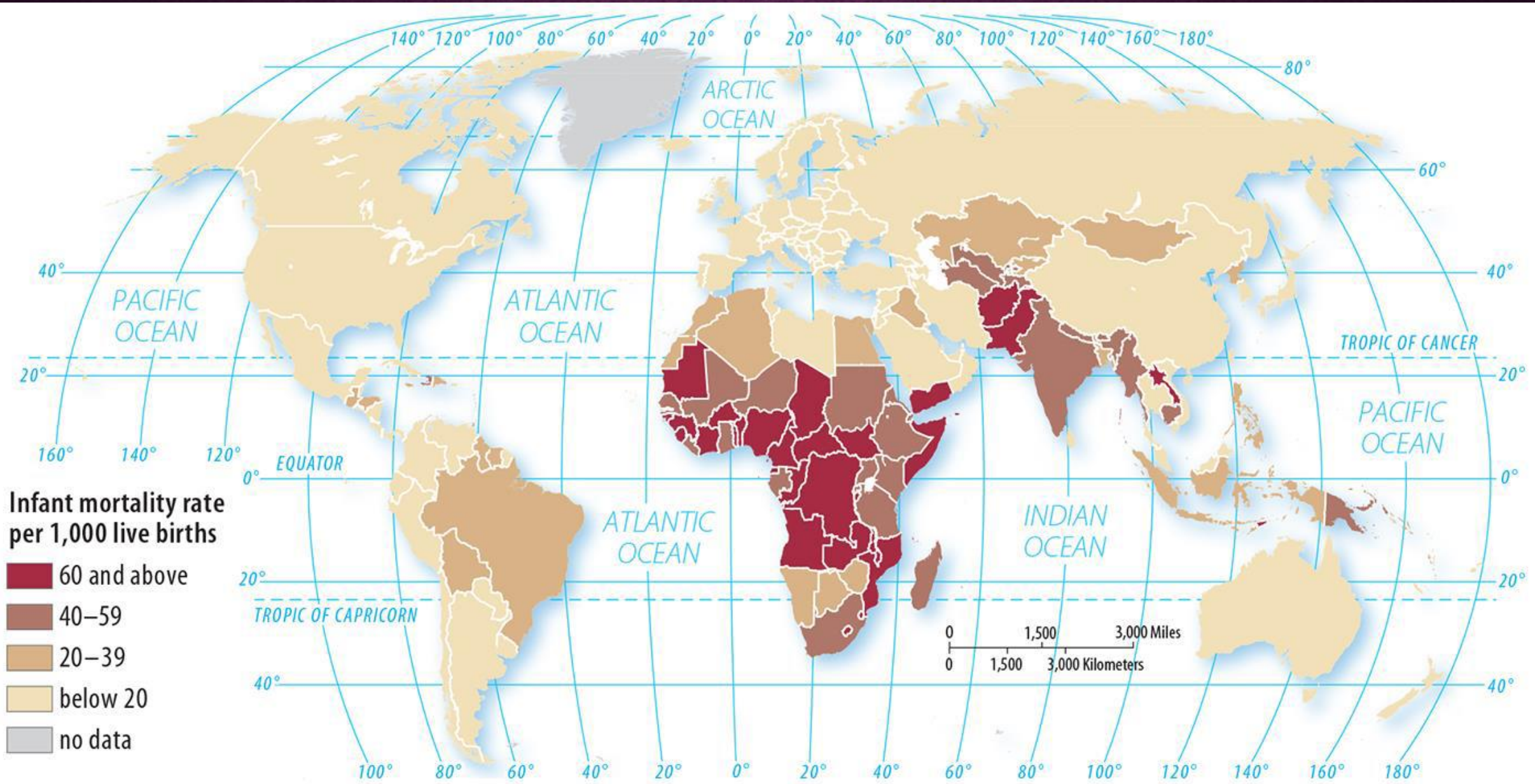
A close-up photograph of a person's arm with a tattoo. A medical syringe is positioned over the arm, with the needle pointing towards the tattoo. The background is a soft, out-of-focus light color.

STAGE 4 OF DTM EXAMPLE
EUROPEAN COUNTRY IN STAGE 4 / IMR =4
SUB SAHARAN AFRICA / IMR 64

1 IN 15 BABIES DIE IN SUB SAHARAN AFRICA

**SURVIVORS STILL FACE PROBLEMS BECAUSE OF LACK OF
IMMUNIZATION**

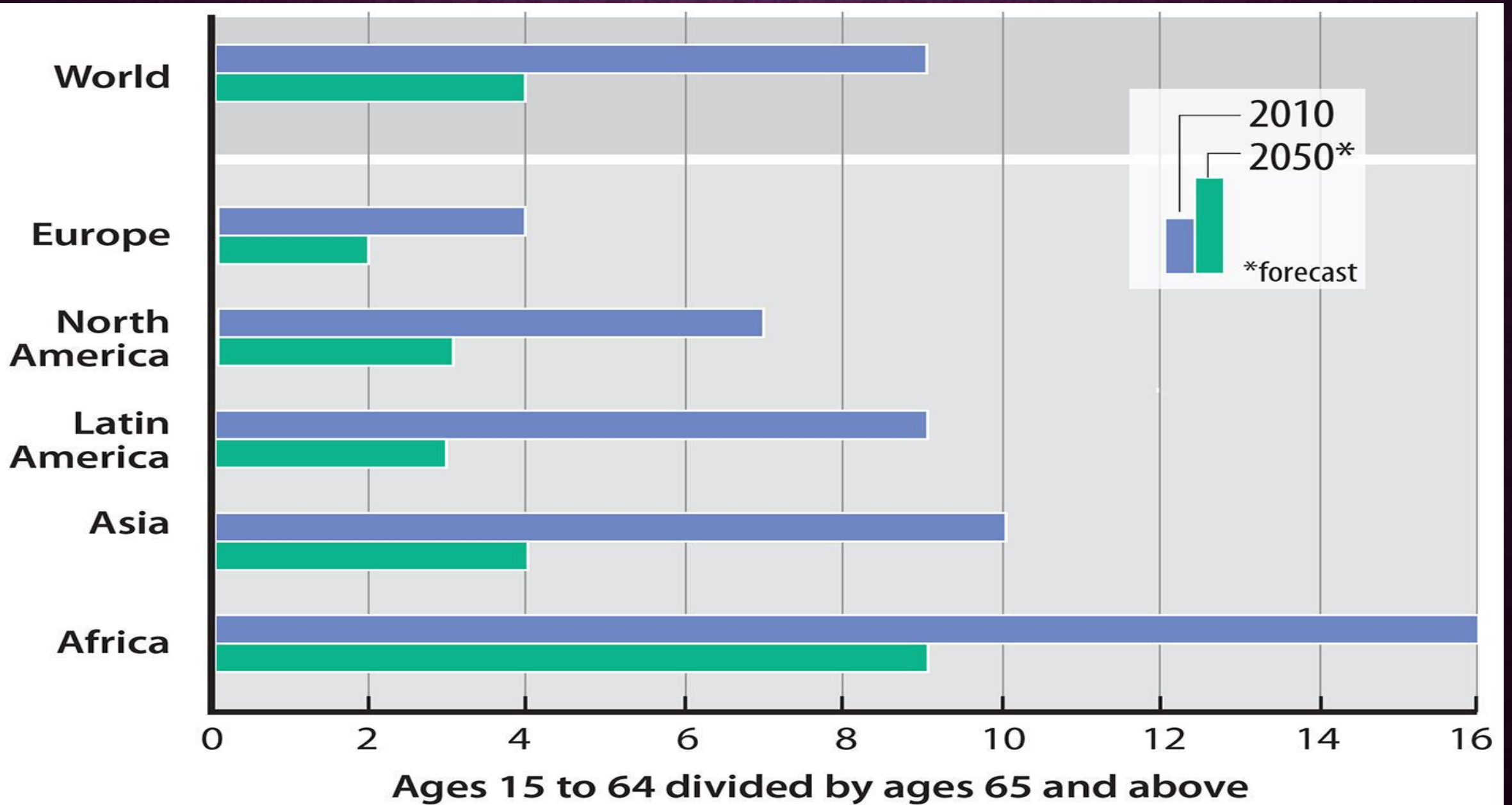
1 IN 250 BABIES DIE IN EUROPE





ELDERLY SUPPORT RATIO

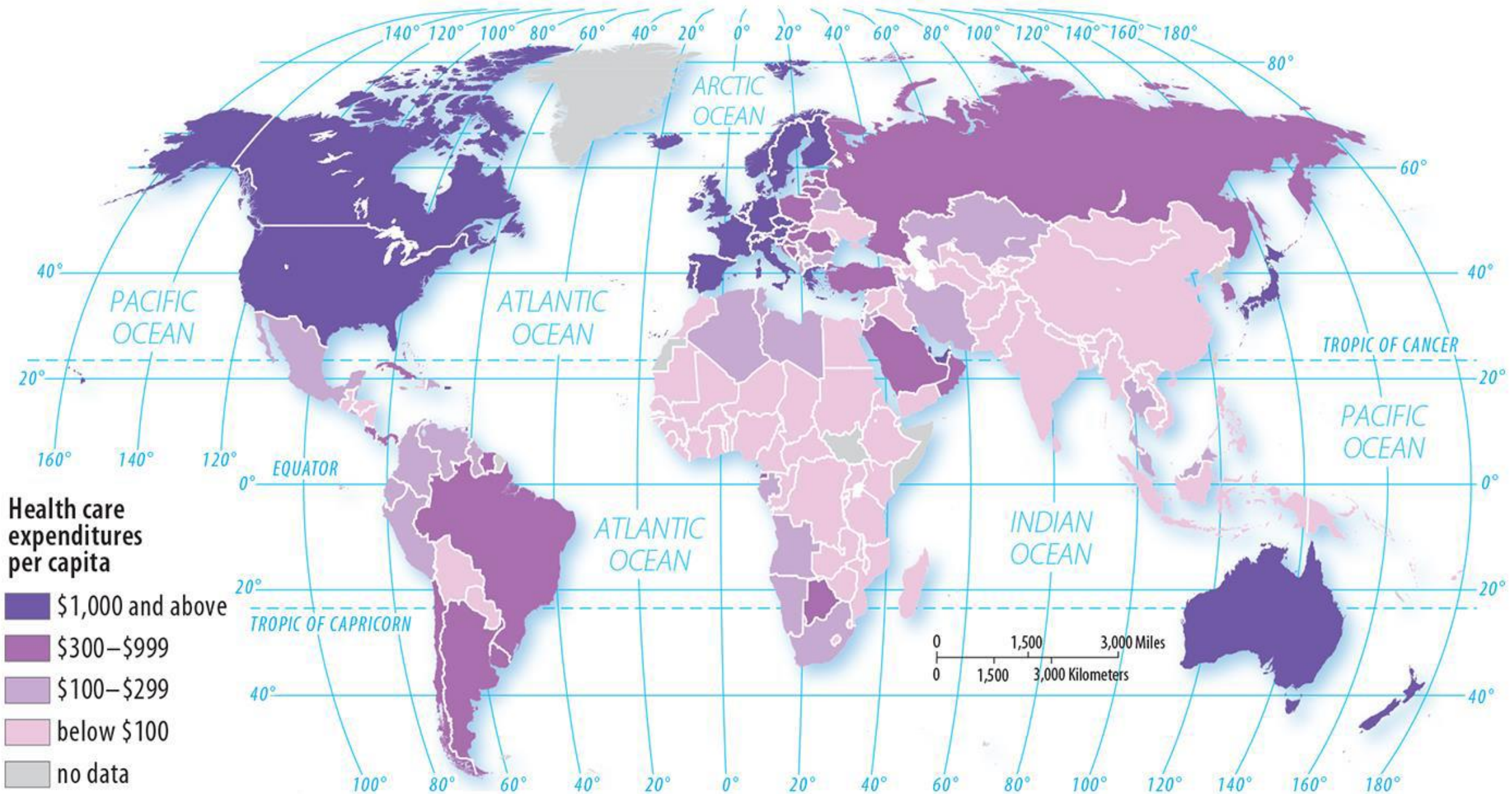
- DTM = Increases in the number of elderly
- Income and Medical Care in retirement needed
- ESR = # of working age people (15-64)/# of persons 65 & older
- World Ratio = 9
- 2050 estimated @ 4
- Smaller Ratio means less workers to contribute to pensions, healthcare, etc





HEALTH CARE

- Public Assistance
- Annual per capita expenditures on health care
 - Europe \$1000
 - US \$5000
 - Sub Saharan Africa less than \$100
 - 15 % of Government expenditures in Europe and North America
 - Less than 5% in Sub Saharan Africa and South Asia





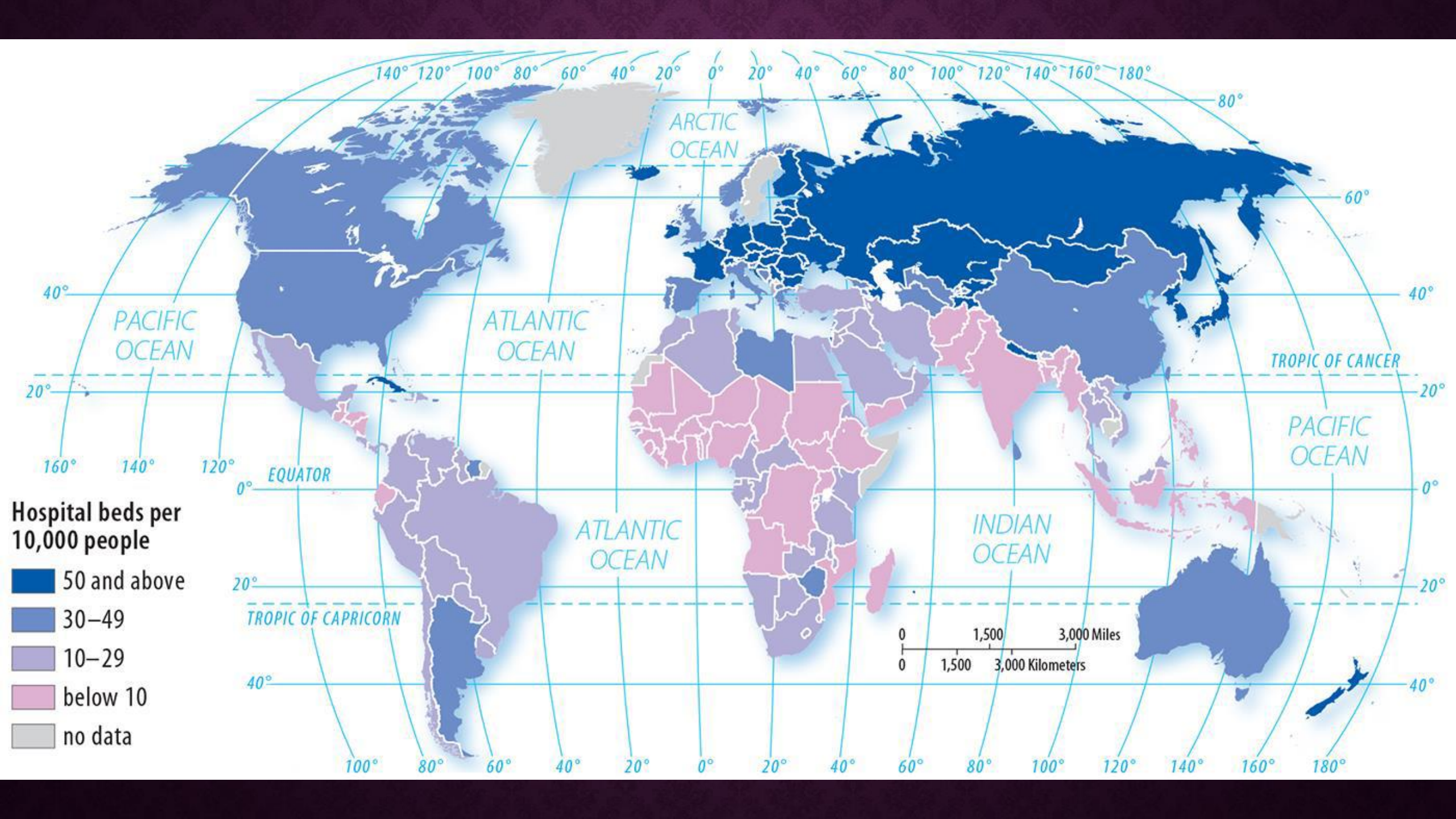
MEDICAL FACILITIES

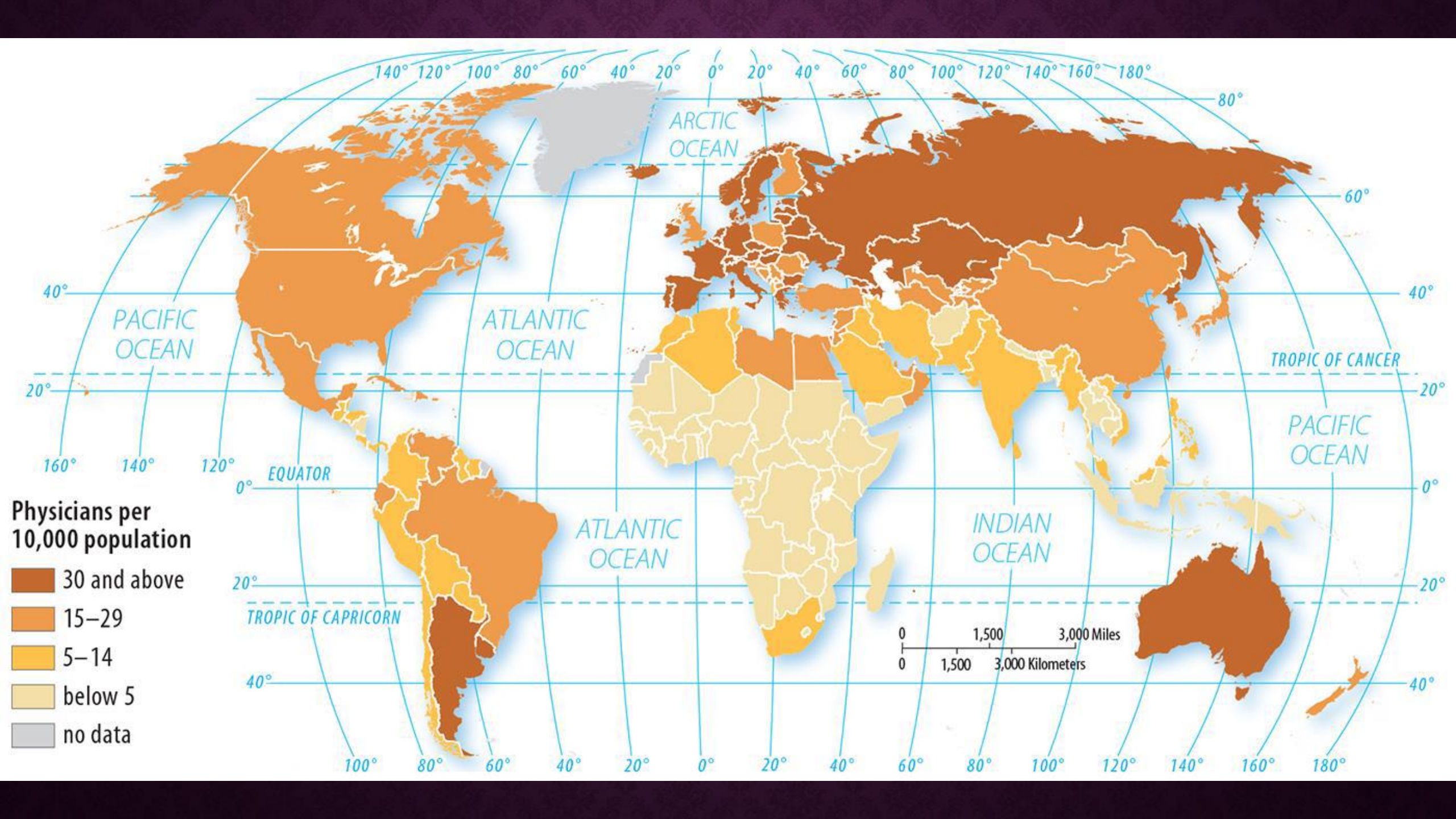
- Europe – 50 hospital beds per 1000 / 30 physicians per 10,000
- Sub Saharan Africa, South and Southwest Asia – fewer than 20 hospital beds / fewer than 5 physicians

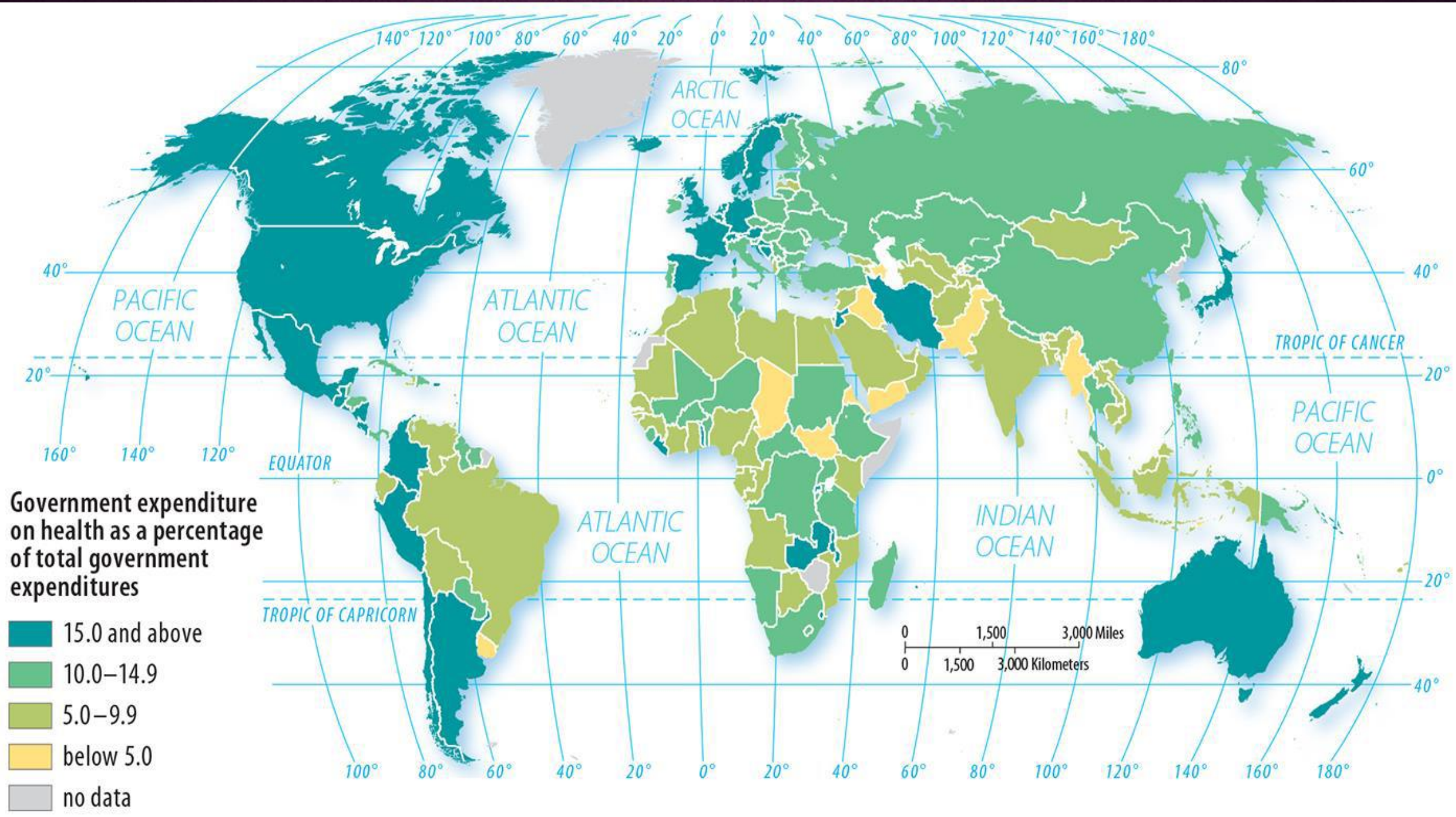


MEDICAL FACILITIES

- Most Developed countries offer healthcare for little to no cost
 - Europe – 70/30
 - Developing Countries- people pay more than half cost of healthcare
- US is the exception – US citizens pay 55% of healthcare and resembles patterns in developing countries







Government expenditure on health as a percentage of total government expenditures

- 15.0 and above
- 10.0–14.9
- 5.0–9.9
- below 5.0
- no data

0 1,500 3,000 Miles
0 1,500 3,000 Kilometers