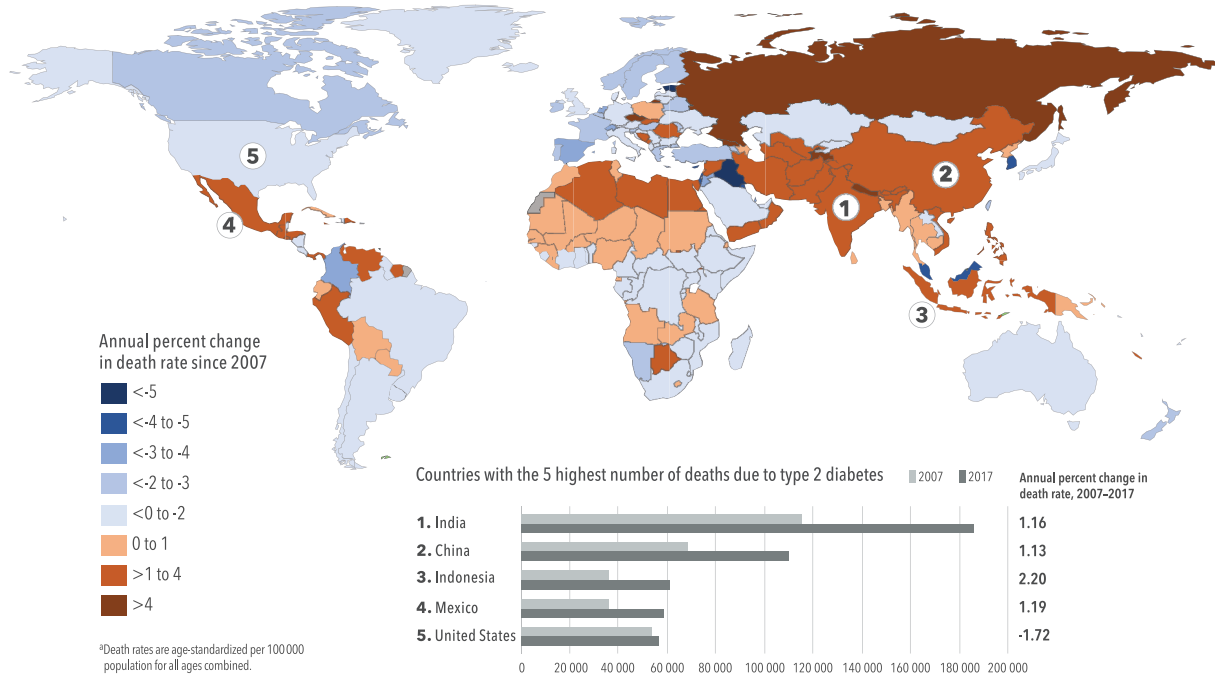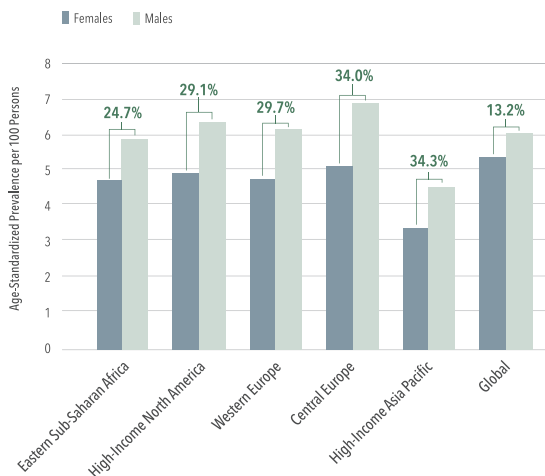# Global Trends in Type 2 Diabetes, 2007–2017

The Global Death Rate Due to Type 2 Diabetes Declined by 0.58% (Annualized) From 2007–2017

Age-standardized[a] annual rate of change in type 2 diabetes deaths per 100 000 persons, 2007–2017

Annual percent change in death rate since 2007

- <-5
- <-4 to -5
- <-3 to -4
- <-2 to -3
- <0 to -2
- 0 to 1
- >1 to 4
- >4

[a]Death rates are age-standardized per 100 000 population for all ages combined.

Countries with the 5 highest number of deaths due to type 2 diabetes — 2007, 2017

	Annual percent change in death rate, 2007–2017
1. India	1.16
2. China	1.13
3. Indonesia	2.20
4. Mexico	1.19
5. United States	-1.72

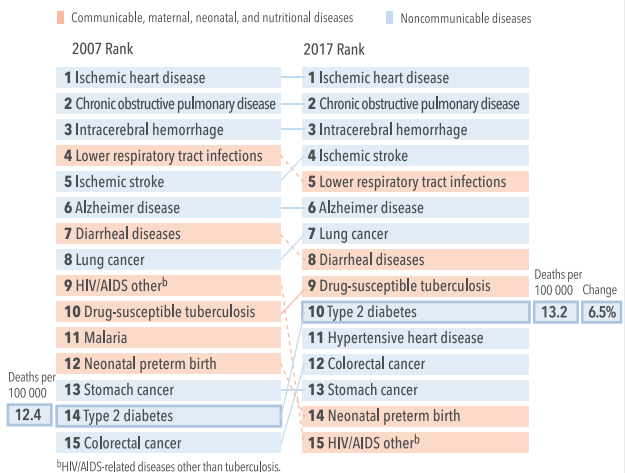(x-axis: 0 – 20 000 – 40 000 – 60 000 – 80 000 – 100 000 – 120 000 – 140 000 – 160 000 – 180 000 – 200 000)

Prevalence of Type 2 Diabetes Was Higher Among Males in 2017

Regions shown are those with the greatest disparities between males and females.

Females — Males

Age-Standardized Prevalence per 100 Persons (y-axis 0–8)

- Eastern Sub-Saharan Africa: 24.7%
- High-Income North America: 29.1%
- Western Europe: 29.7%
- Central Europe: 34.0%
- High-Income Asia Pacific: 34.3%
- Global: 13.2%

Type 2 Diabetes Has Become One of the Top 10 Leading Causes of Death Globally

Age-standardized deaths and percent change, 2007 and 2017

Communicable, maternal, neonatal, and nutritional diseases — Noncommunicable diseases

2007 Rank	2017 Rank
1 Ischemic heart disease	1 Ischemic heart disease
2 Chronic obstructive pulmonary disease	2 Chronic obstructive pulmonary disease
3 Intracerebral hemorrhage	3 Intracerebral hemorrhage
4 Lower respiratory tract infections	4 Ischemic stroke
5 Ischemic stroke	5 Lower respiratory tract infections
6 Alzheimer disease	6 Alzheimer disease
7 Diarrheal diseases	7 Lung cancer
8 Lung cancer	8 Diarrheal diseases
9 HIV/AIDS other[b]	9 Drug-susceptible tuberculosis
10 Drug-susceptible tuberculosis	10 Type 2 diabetes
11 Malaria	11 Hypertensive heart disease
12 Neonatal preterm birth	12 Colorectal cancer
13 Stomach cancer	13 Stomach cancer
14 Type 2 diabetes	14 Neonatal preterm birth
15 Colorectal cancer	15 HIV/AIDS other[b]

Deaths per 100 000: 12.4 (2007 Type 2 diabetes)

Deaths per 100 000: 13.2 — Change: 6.5% (2017 Type 2 diabetes)

[b]HIV/AIDS-related diseases other than tuberculosis.

Authors: Joan Williams, BA; Michaela Loeffler, BA, for the Institute for Health Metrics and Evaluation

IHME — UNIVERSITY of WASHINGTON — JN JAMA Network™