Численность и здоровье населения в прогнозах проекта Global burden of disease

Василий Власов, Высшая школа экономики

VizHub - Population Forecasting - Brave

https://vizhub.healthdata.org/population-forecast/

IHME

Population Forecasting

Visualizations | Help | Share | Download

Trends | Population pyramid

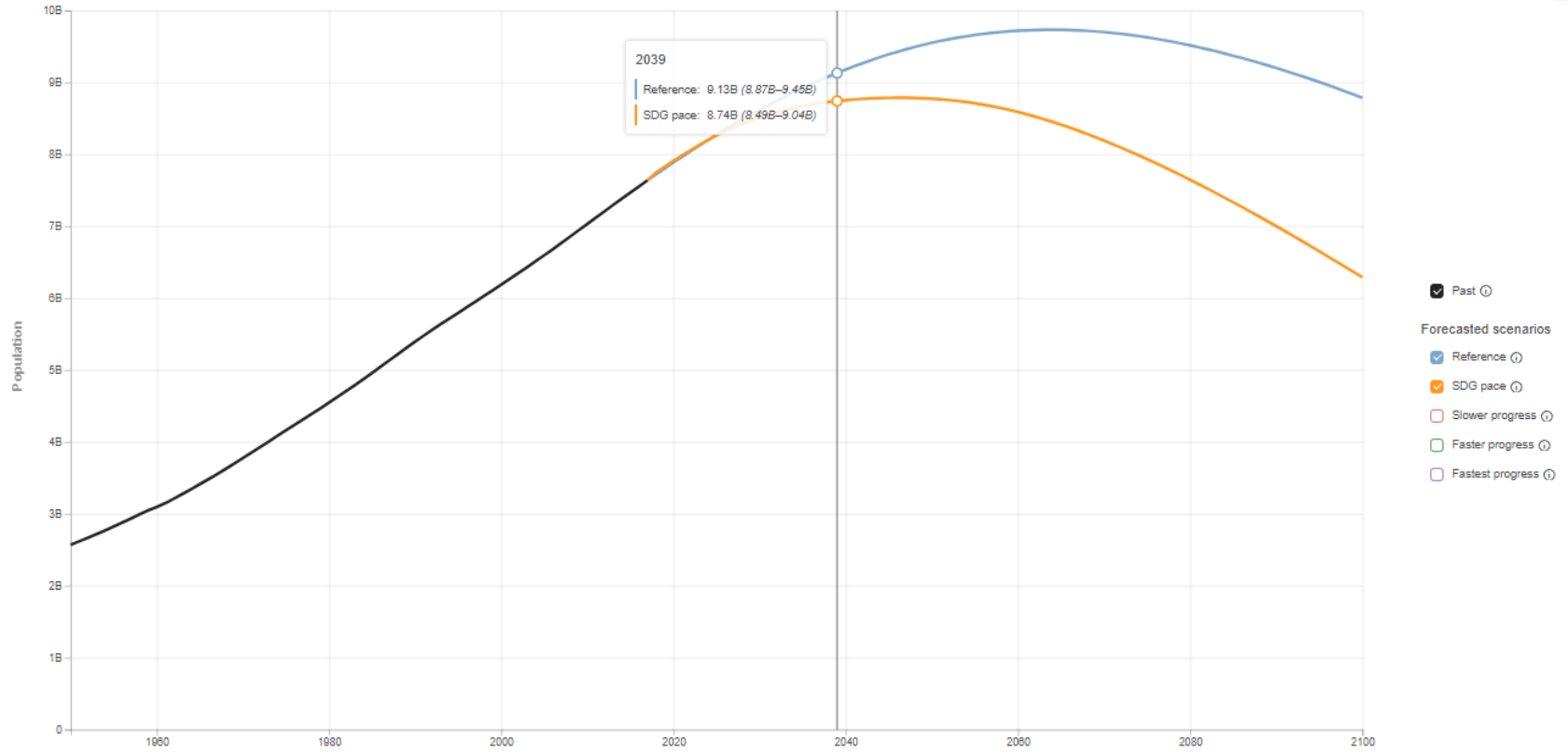
Population | Fertility

Location: Global

Sex: Male | Female | Both

Age group: All ages

Population, Global, Both sexes, All ages, 1950–2100



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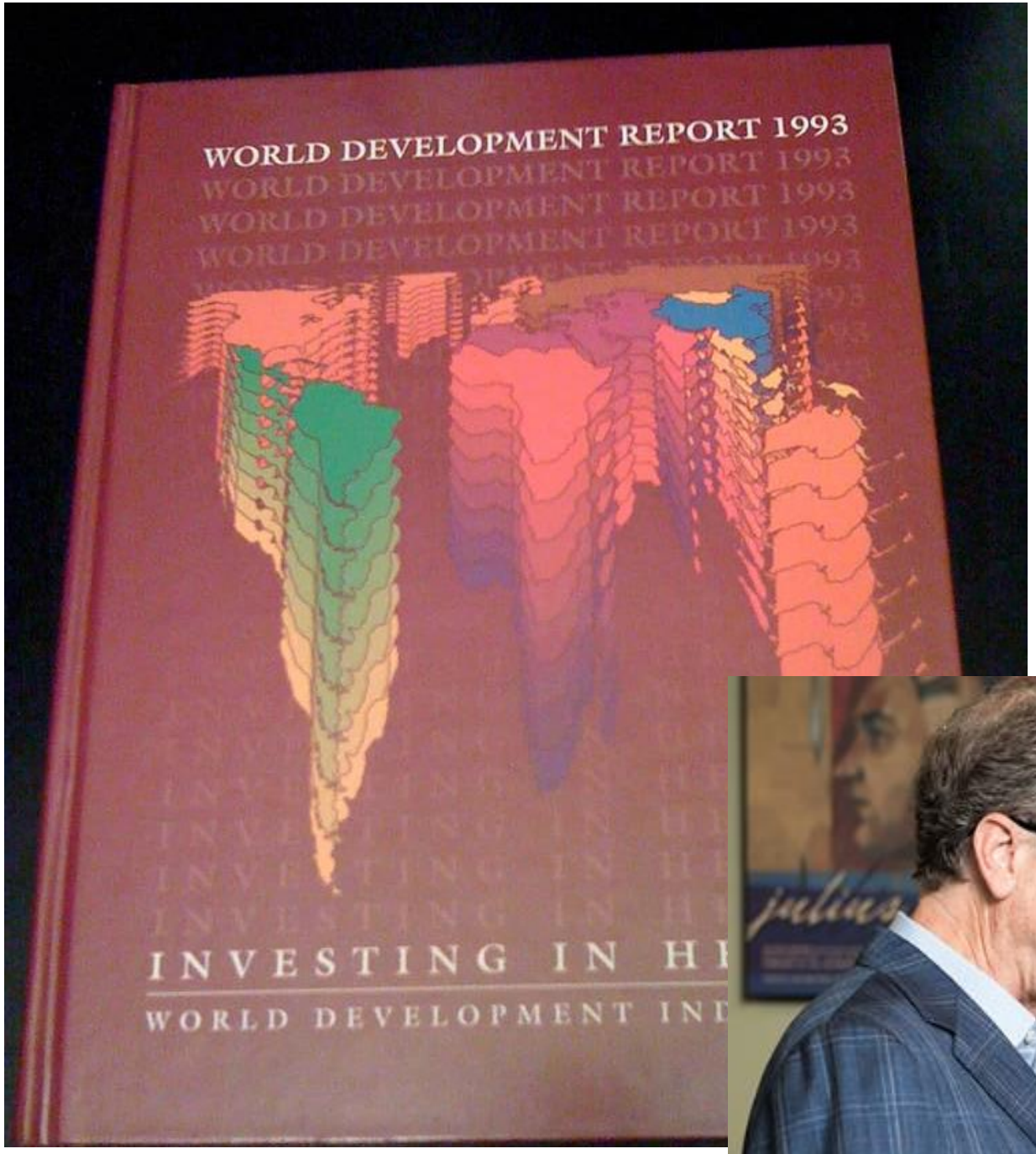
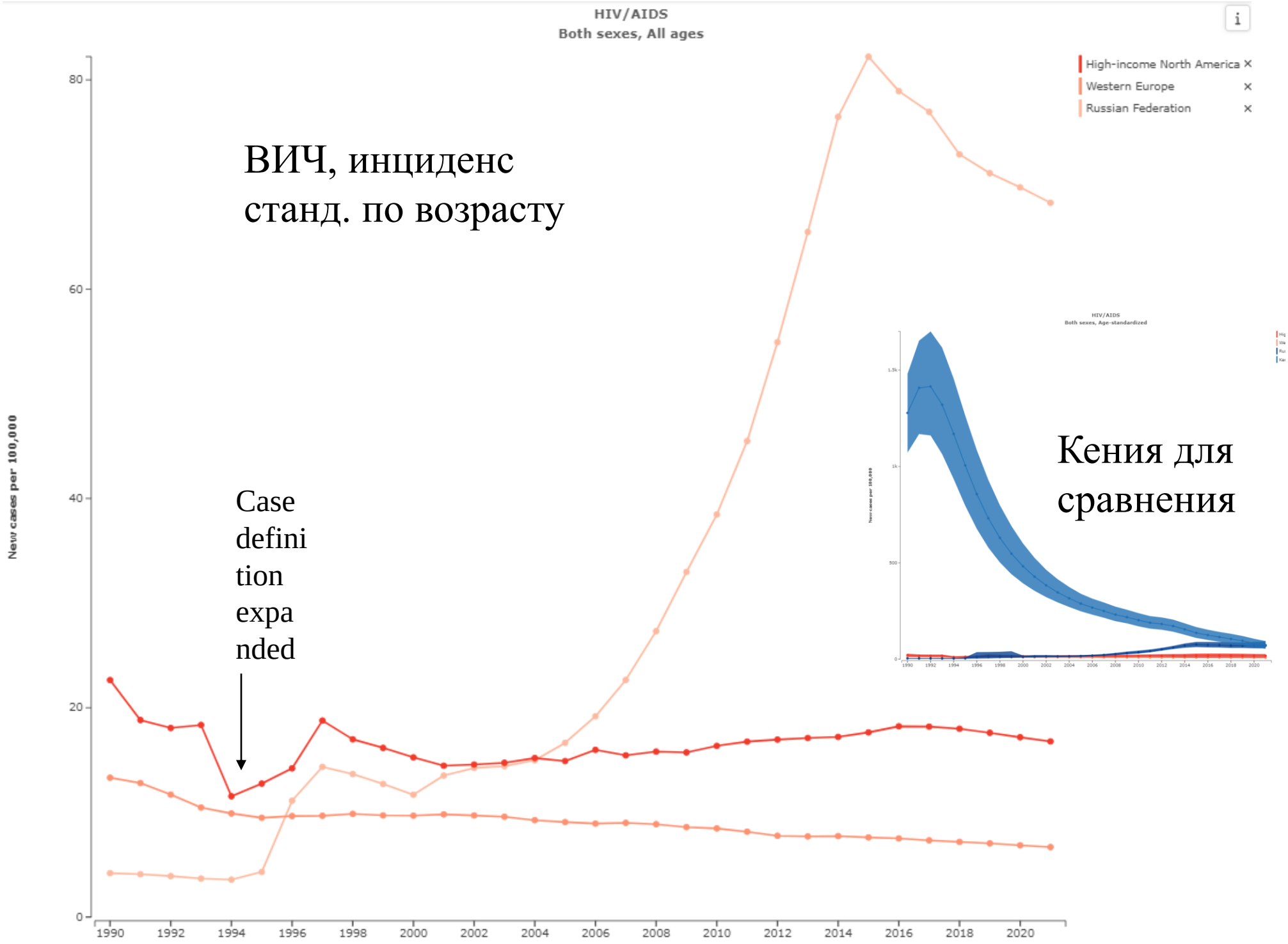
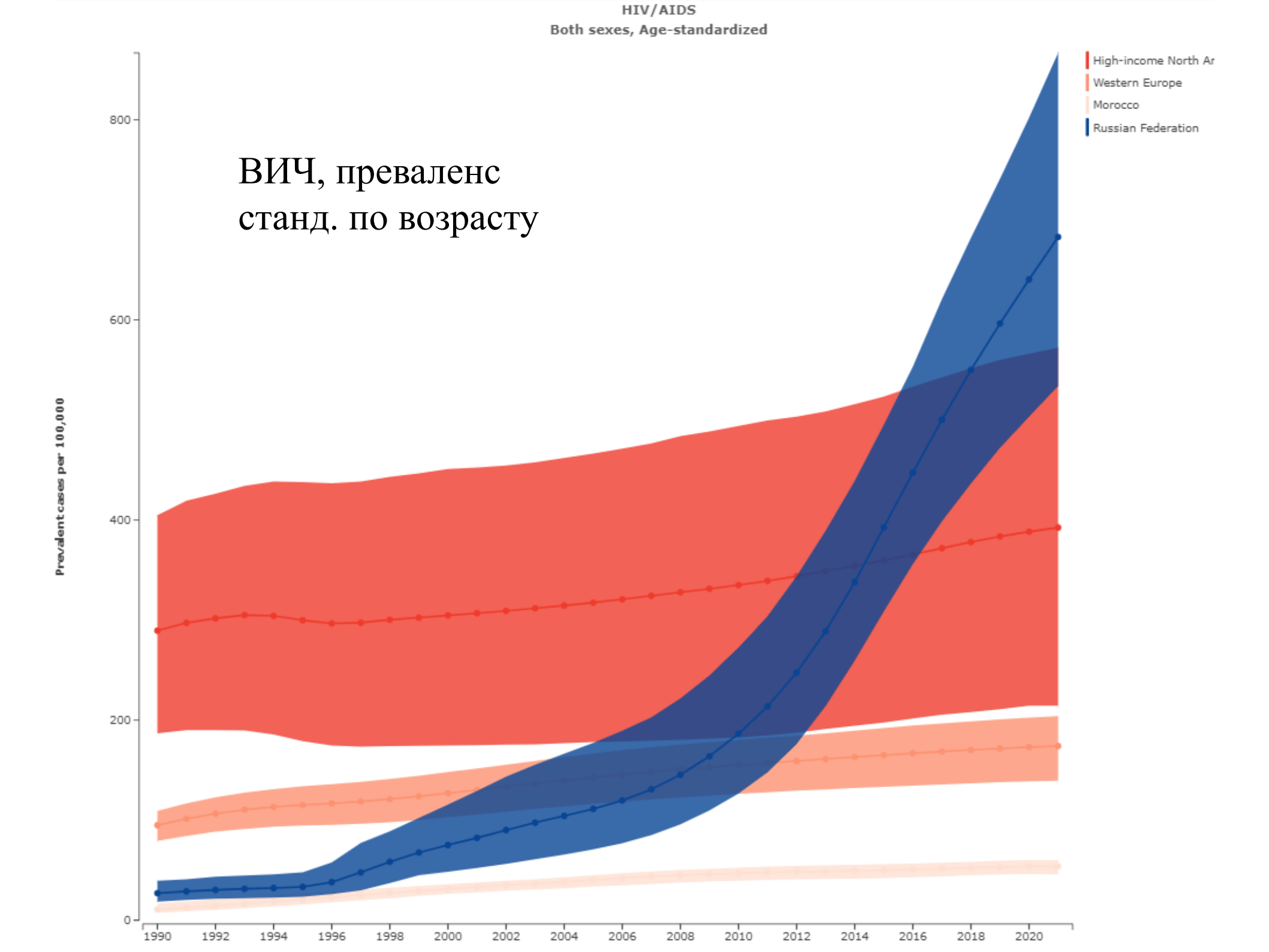
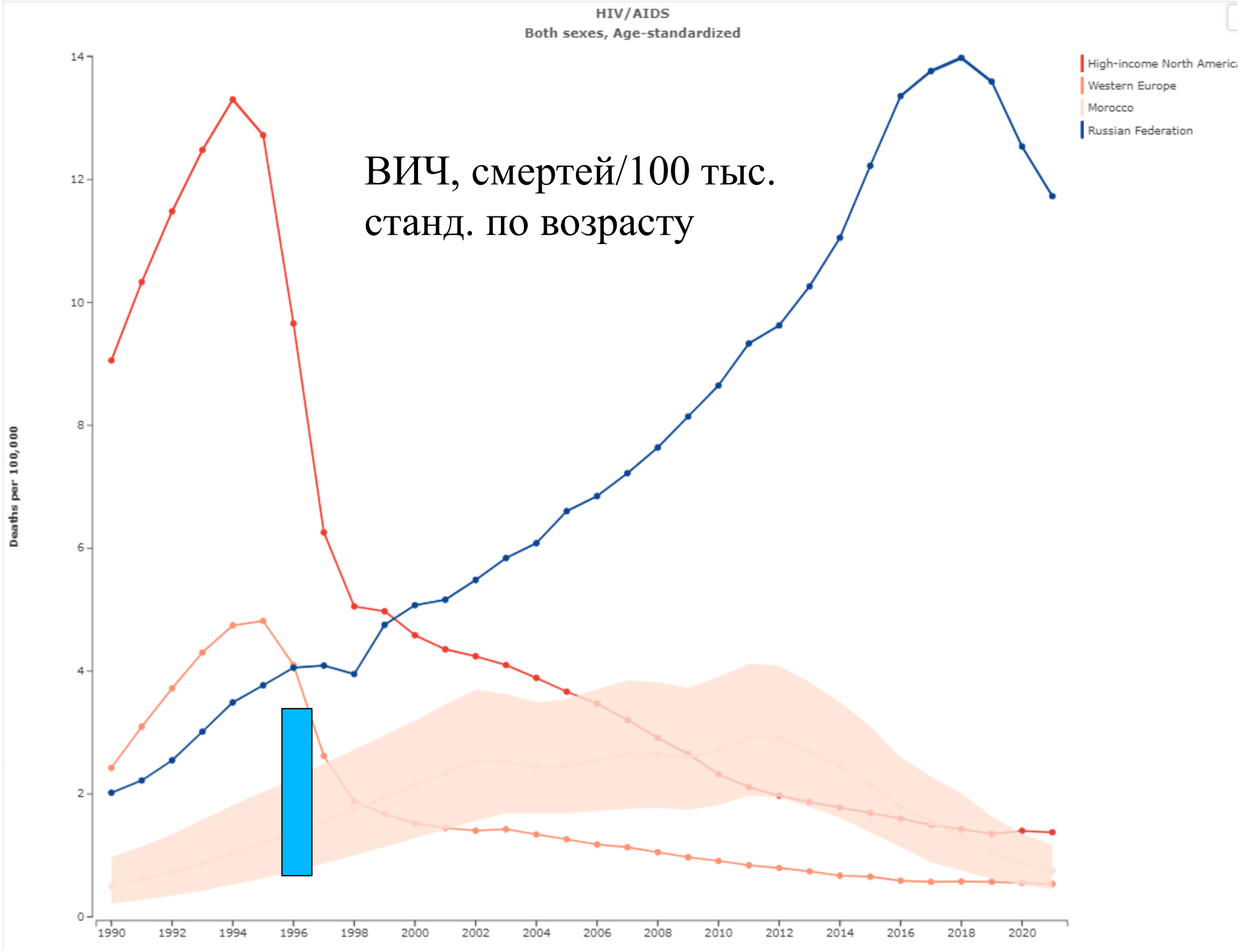


- Christopher Murray


HIV/AIDS
Both sexes, All ages
High-income North America
Western Europe
Russian Federation
New cases per 100,000
80
60
40
20
0
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
ВИЧ, инциденс станд. по возрасту
Case definition expanded
HIV/AIDS
Both sexes, Age-standardized
Кения для сравнения



ВИЧ, преваленс
станд. по возрасту


HIV/AIDS
Both sexes, Age-standardized
Deaths per 100,000
High-income North Americ
Western Europe
Morocco
Russian Federation
ВИЧ, смертей/100 тыс.
станд. по возрасту
0
2
4
6
8
10
12
14
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
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2012
2014
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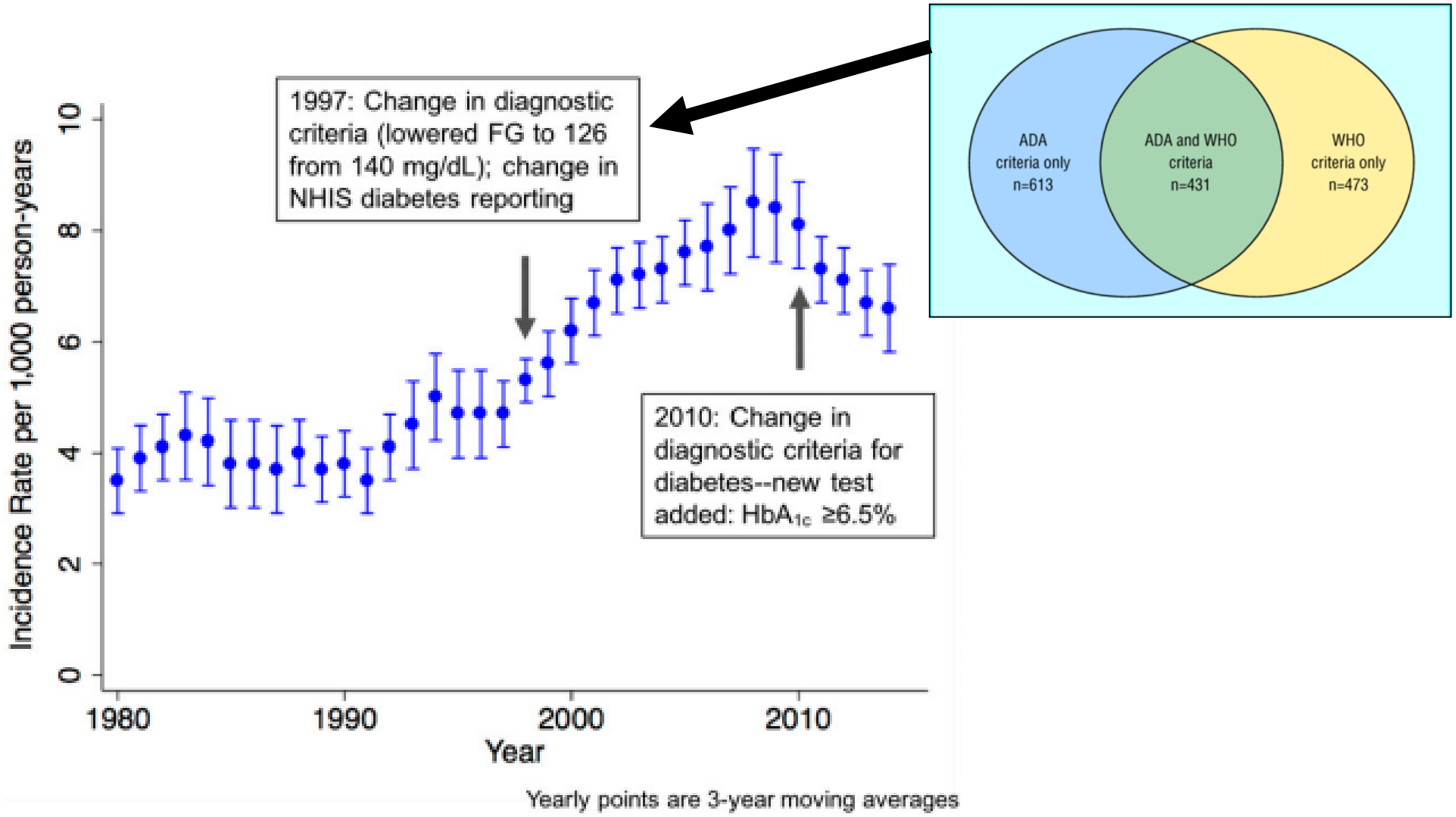
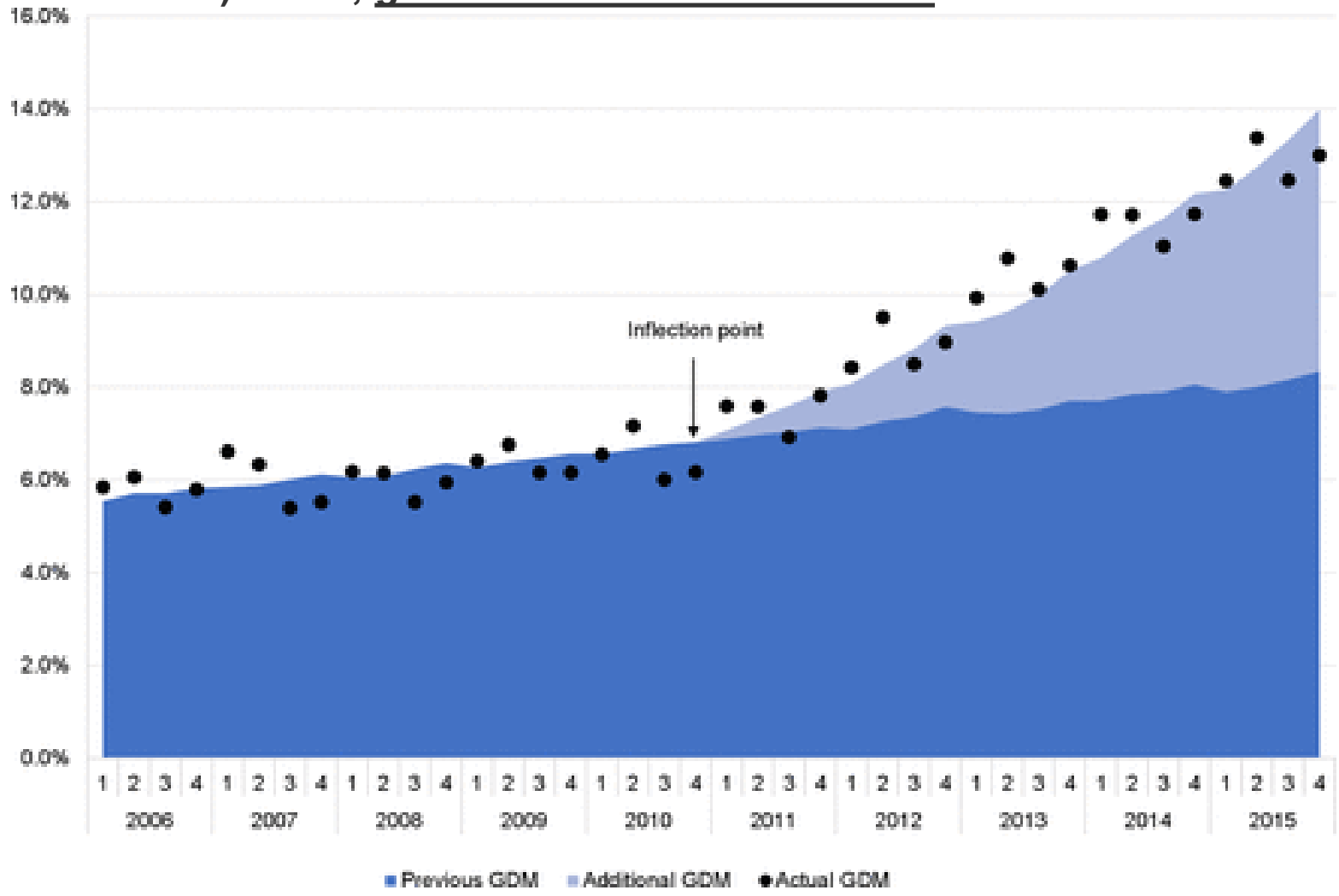
2020



Age-adjusted diabetes incidence rate and 95% CIs, 1980–2014, NHIS. FG, fasting glucose. Source data: http://www.cdc.gov/diabetes/statistics/incidence/fig2.htm

Predicted incidence of GDM by quarter assuming no change in diagnostic criteria ('previous GDM') and estimated additional GDM cases since the criteria change ('additional GDM'). GDM, gestational diabetes mellitus



Deborah A Randall et al. BMJ Open Diab Res Care 2021;9:e002277

BMJ Open Diabetes Research & Care

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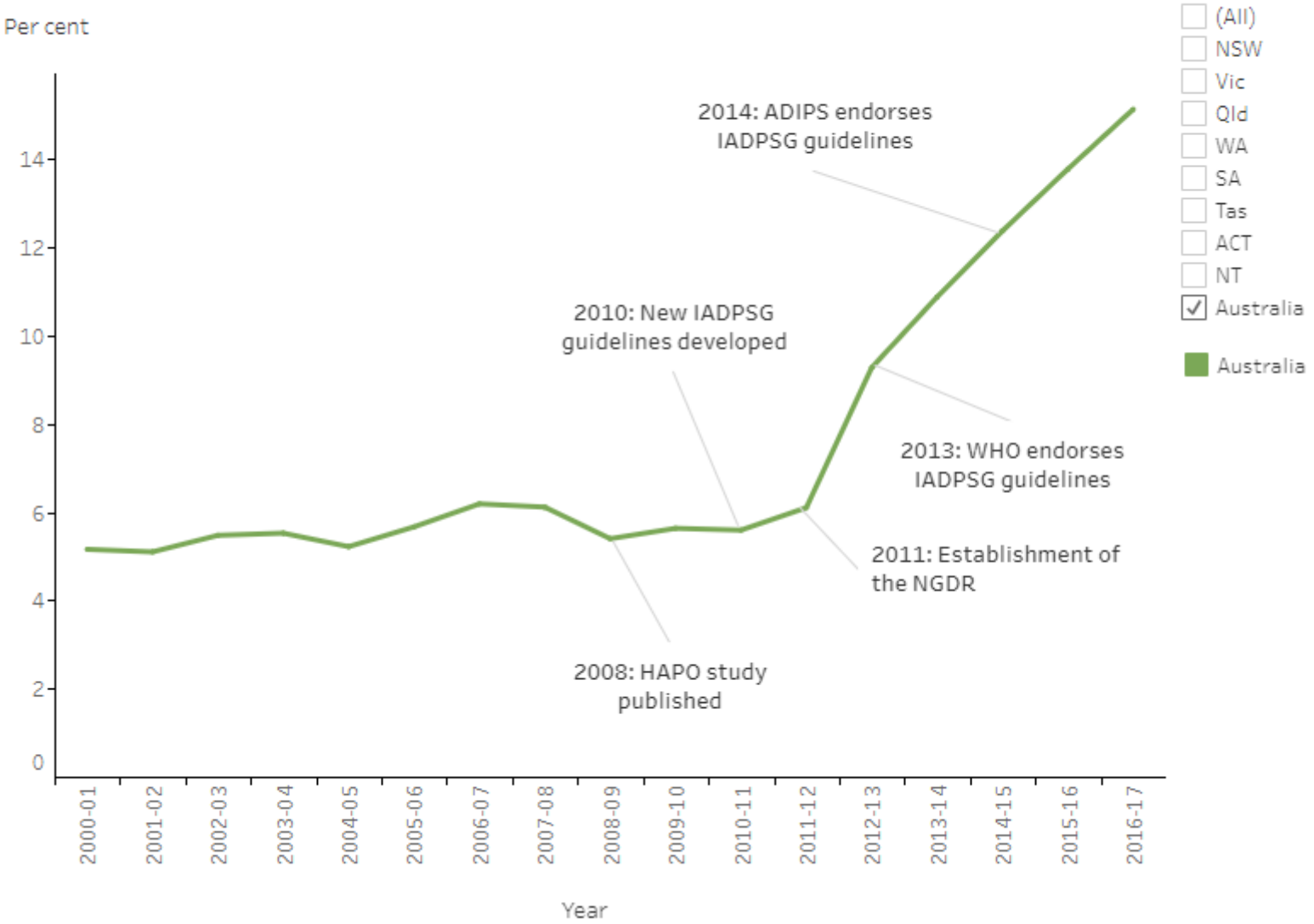
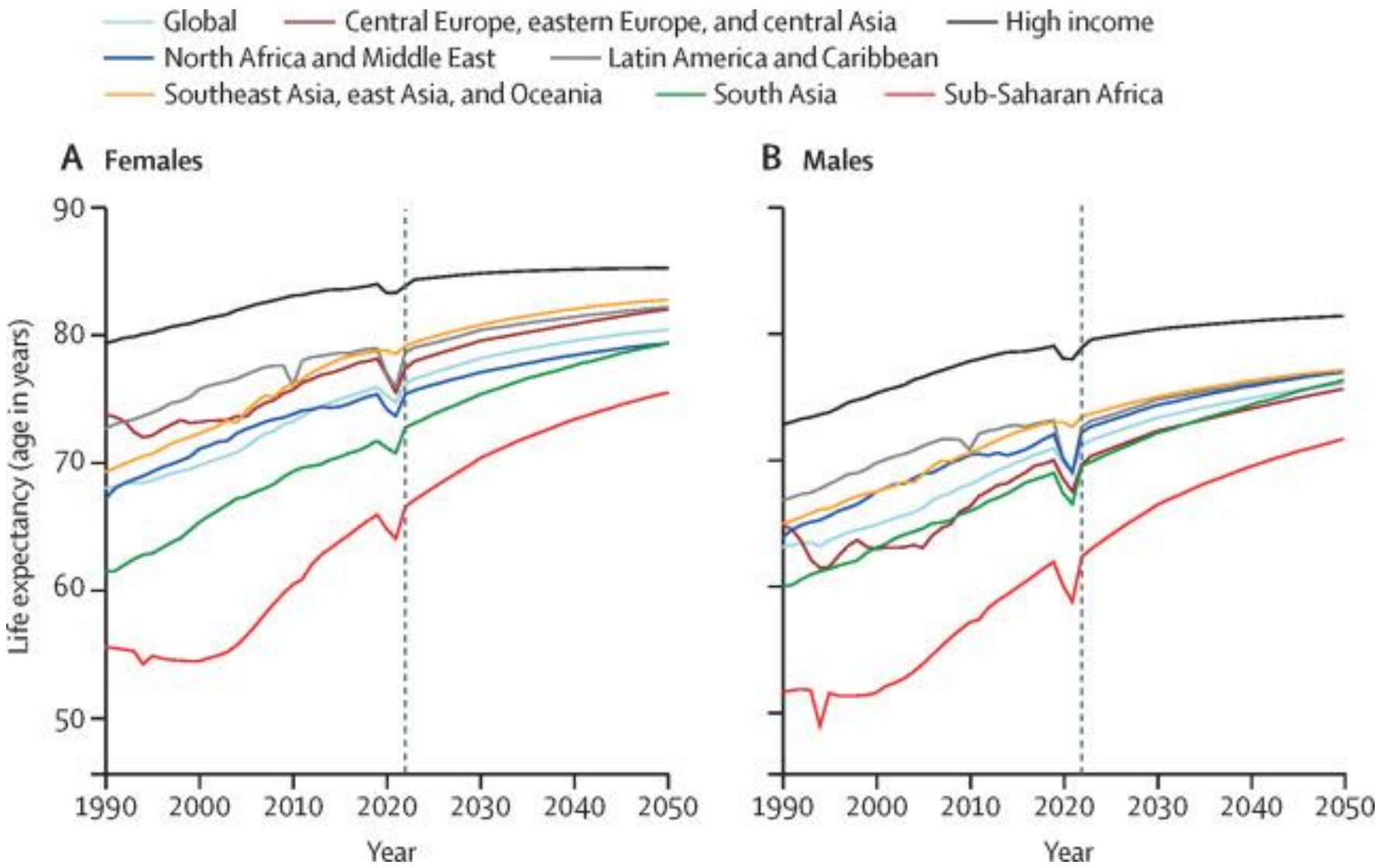
Figure 3: Incidence of gestational diabetes, 2000–01 to 2016–17

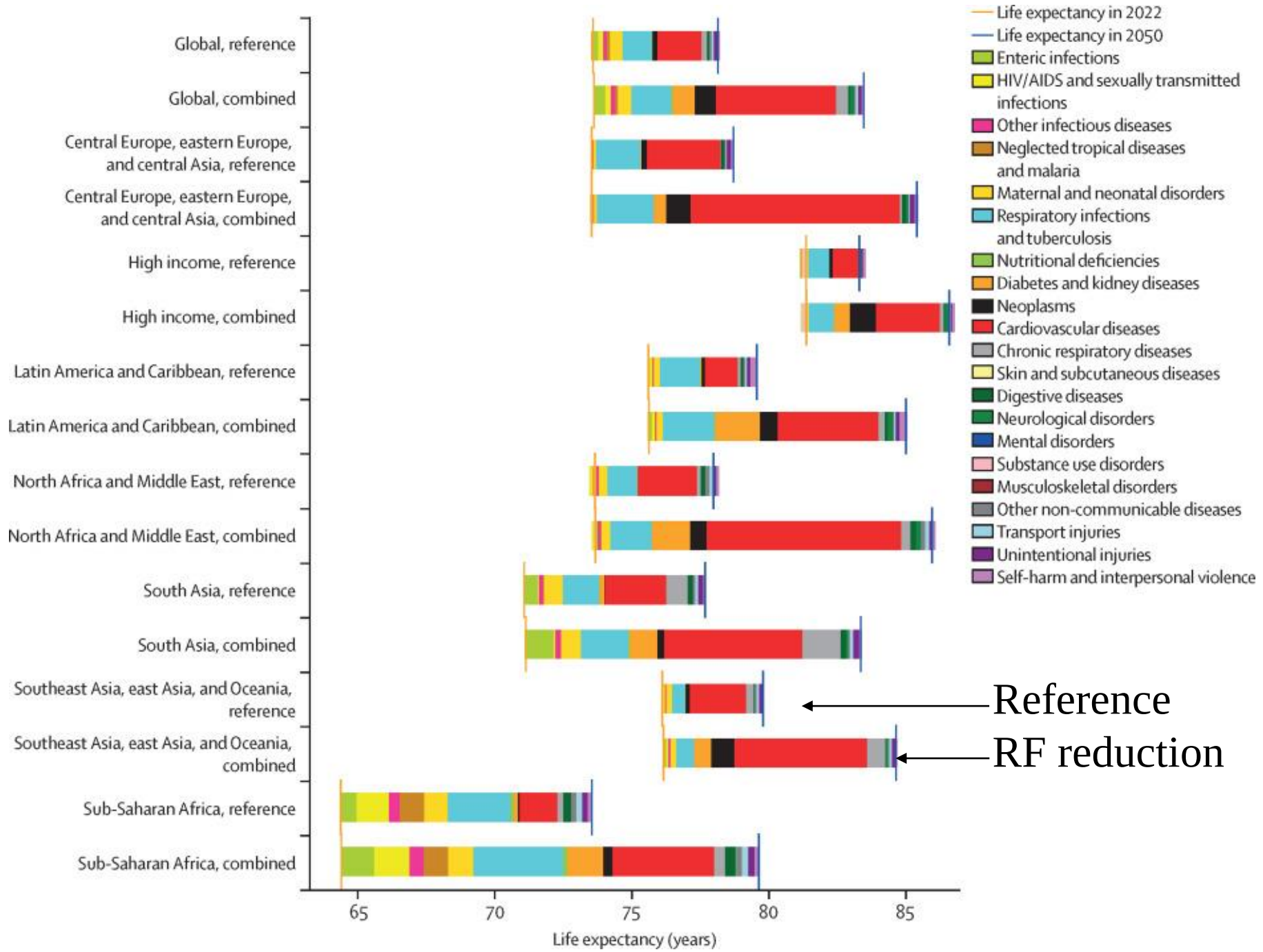


https://www.aihw.gov.au/reports/diabetes/incidence-of-gestational-diabetes-in-australia/contents/changing-trends?generatedpdf=true&jobid=83298&jobtoken=a6f9fcc809614cc3aab51634b16b86a6



Global and super-regional life expectancy, 1990–2050

Burden of disease scenarios for 204 countries and territories, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021
The Lancet, 2024, Volume 403, Issue 10440, 2204 – 2256



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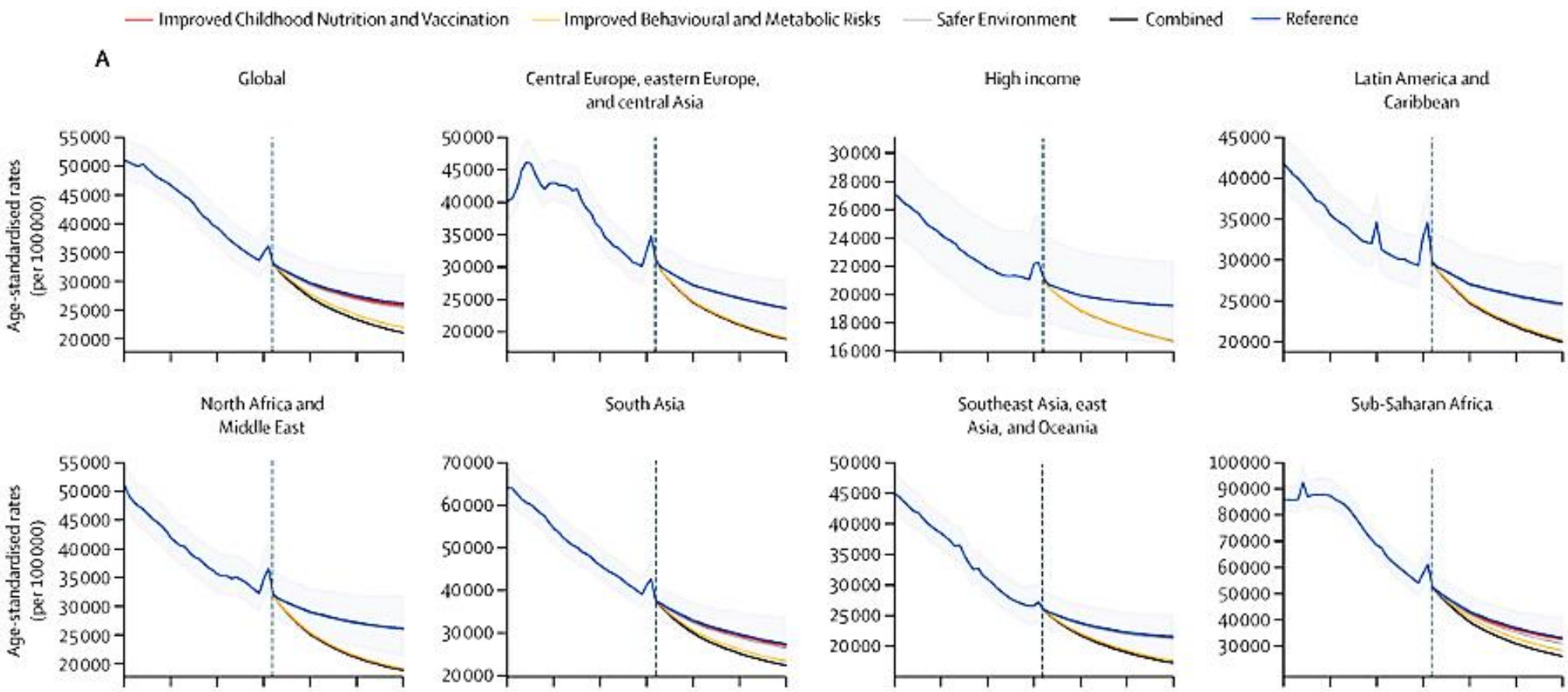

Global and super-regional all-cause age-standardised DALY rat

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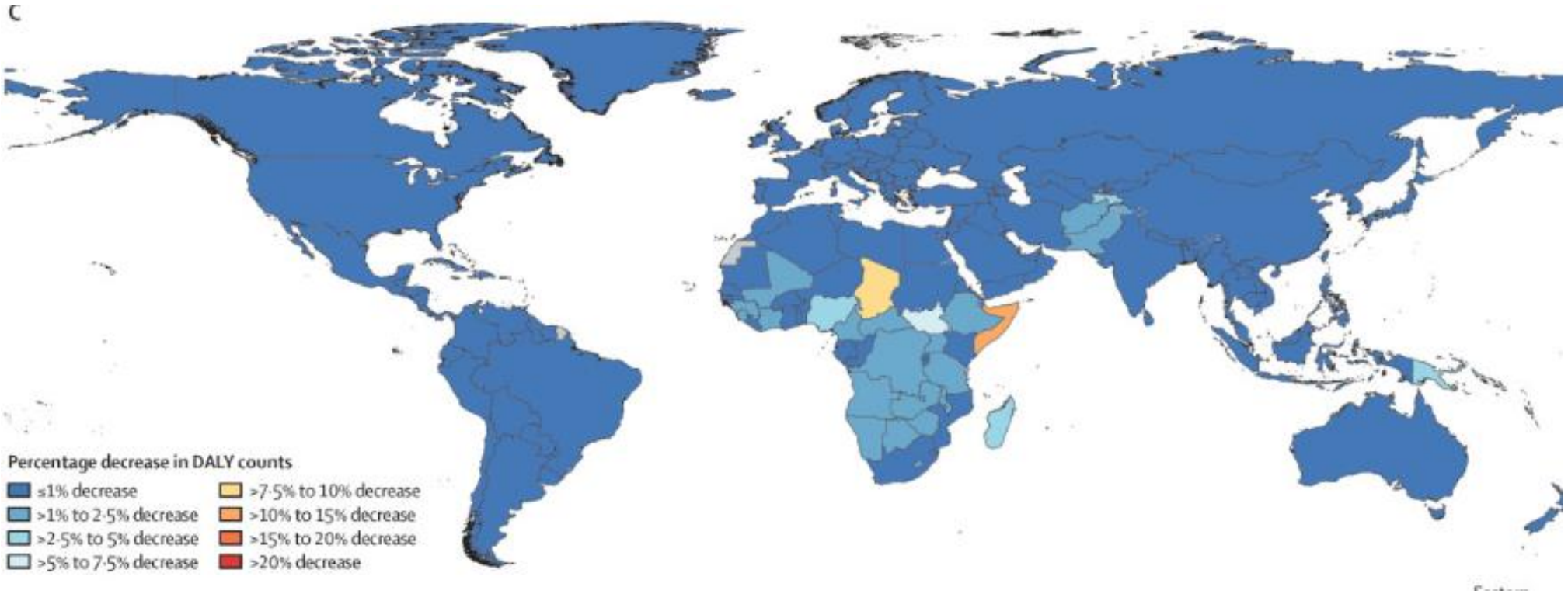

% decrease in DALY counts in 2050 between the reference scenarios and Improved Childhood Nutrition and Vaccination Scenario

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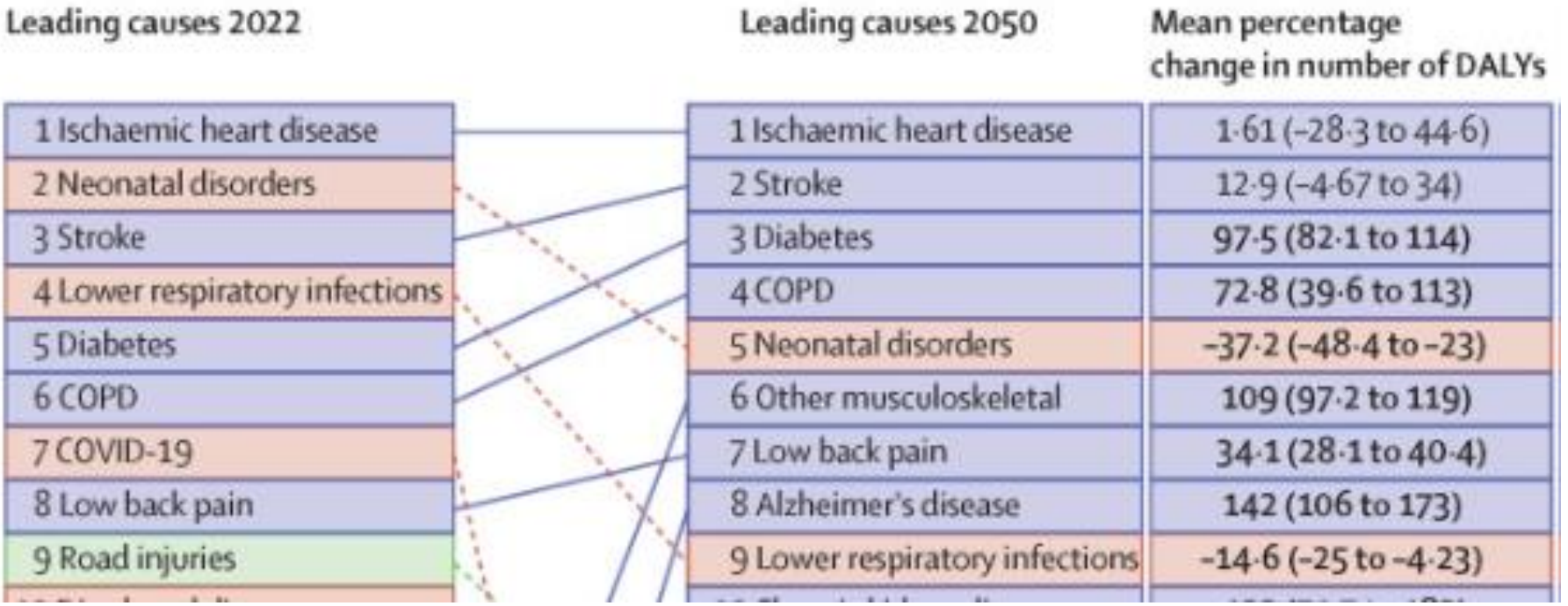

Leading 20 Level 3 causes of global DALYs

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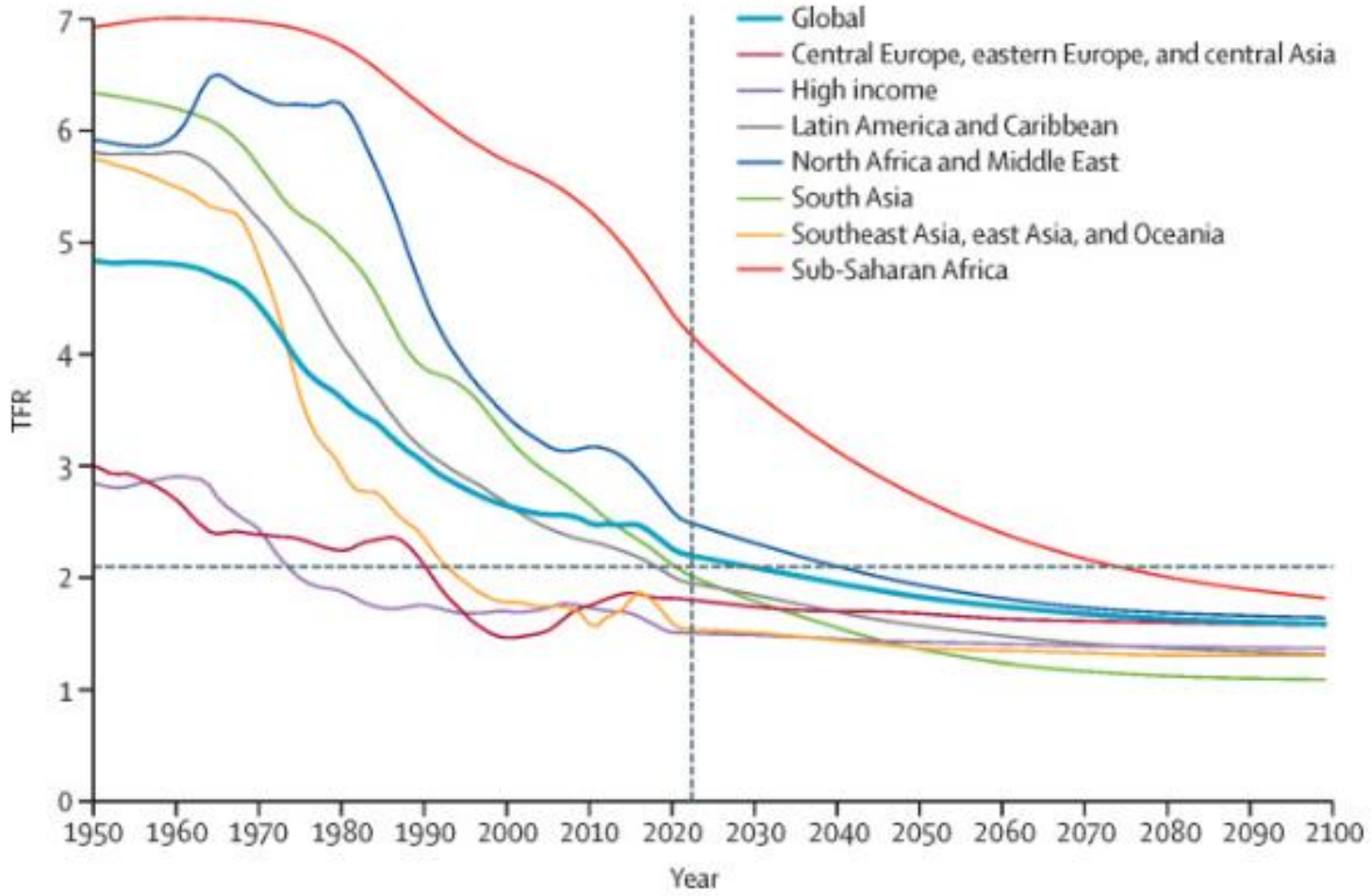
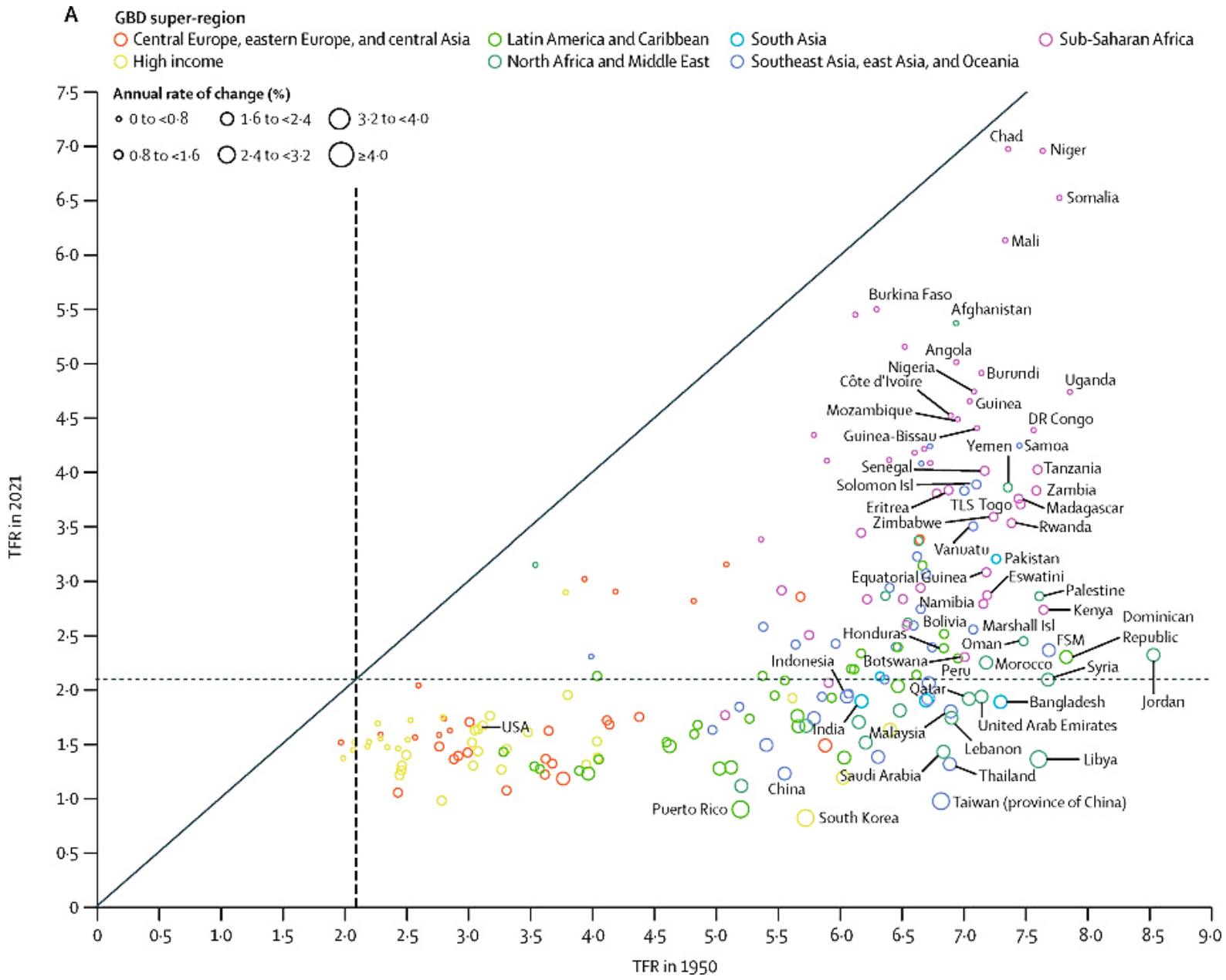


Figure 1 TFR, globally and by GBD super-region, 1950–2100

Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographic analysis for the Global Burden of Disease Study 2021
The Lancet, Volume 403, Issue 10440, 2024, 2057 – 2099



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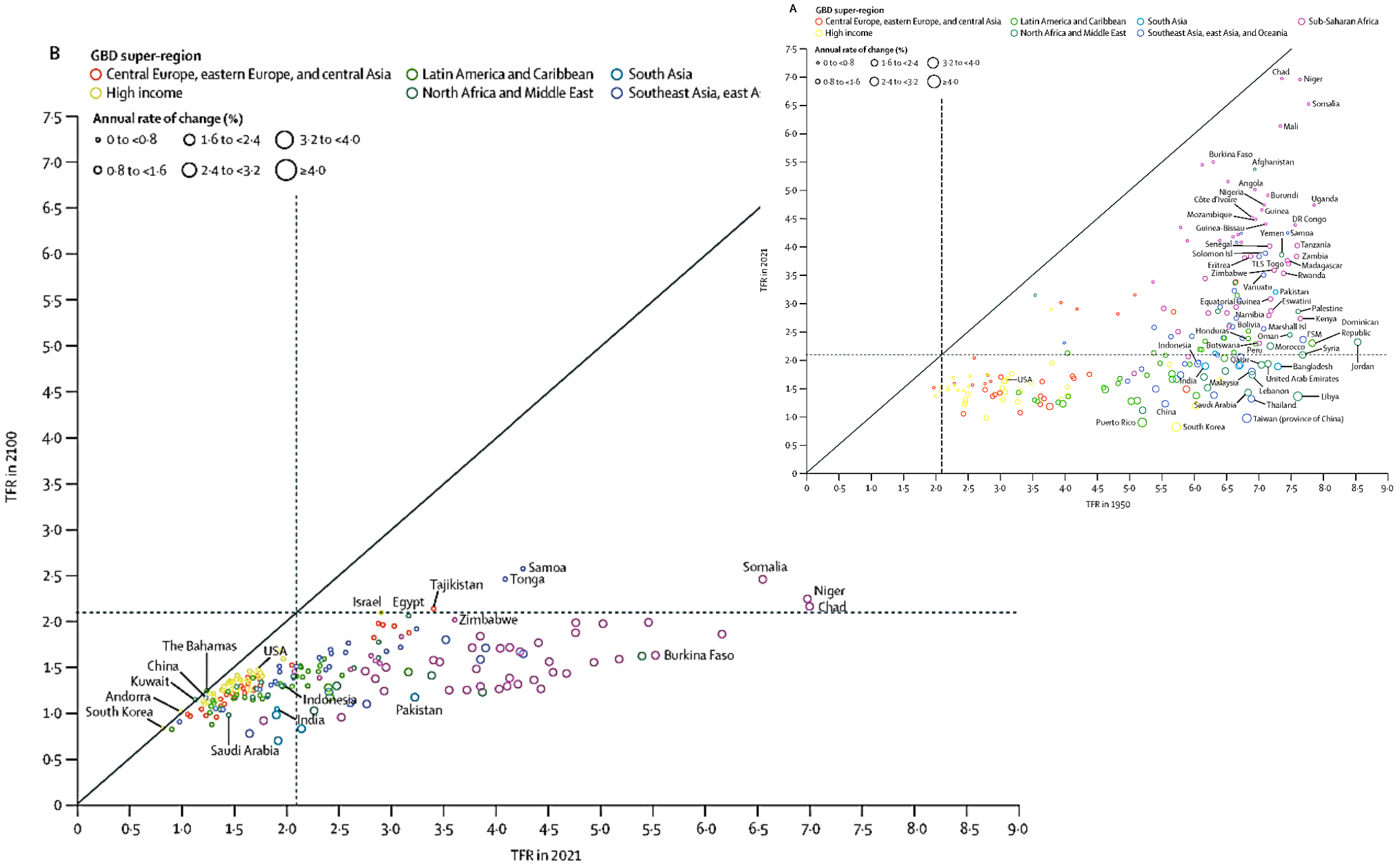
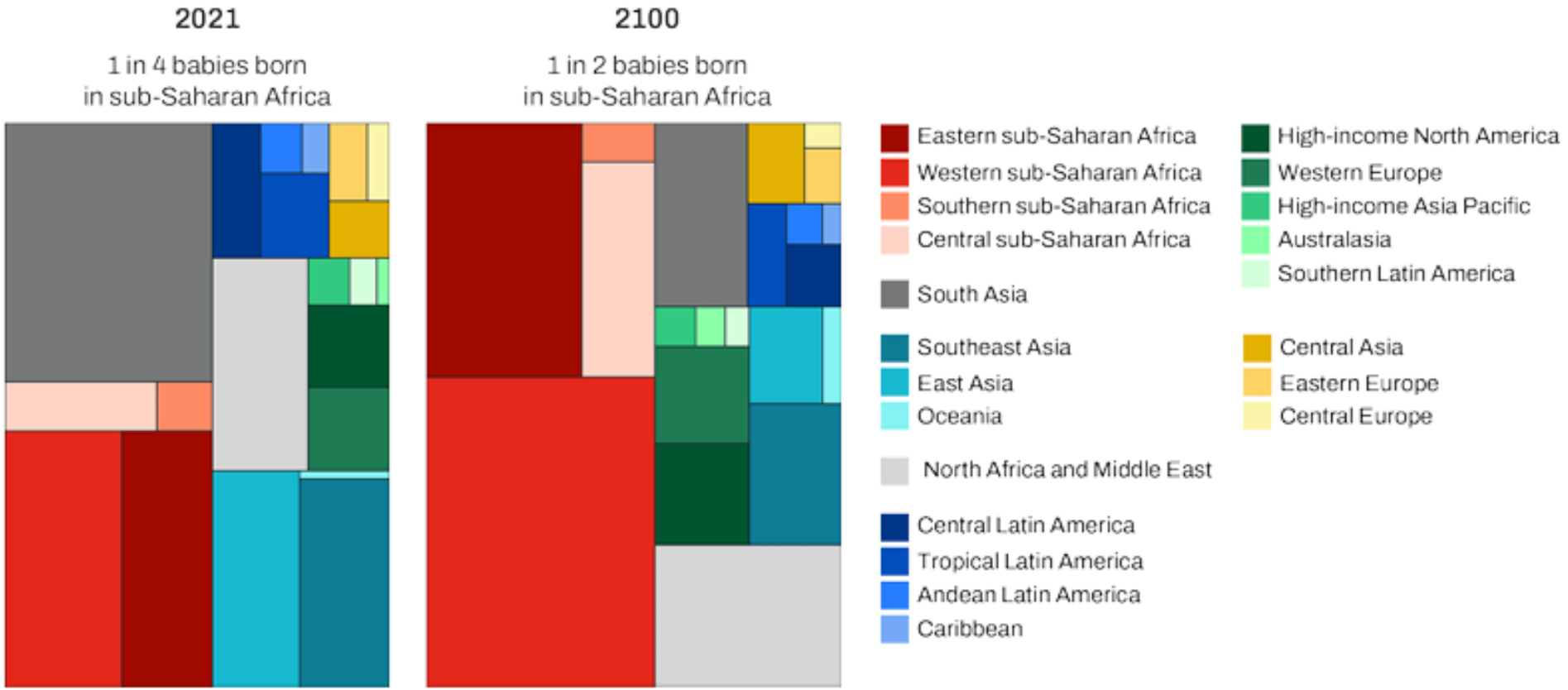


Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographic analysis for the Global Burden of Disease Study 2021

The Lancet, Volume 403, Issue 10440, 2024, 2057 – 2099

By 2100, more than half of all babies will be born in sub-Saharan Africa, primarily in Western and Eastern sub-Saharan Africa.

Proportion of births by GBD region in 2021 and 2100



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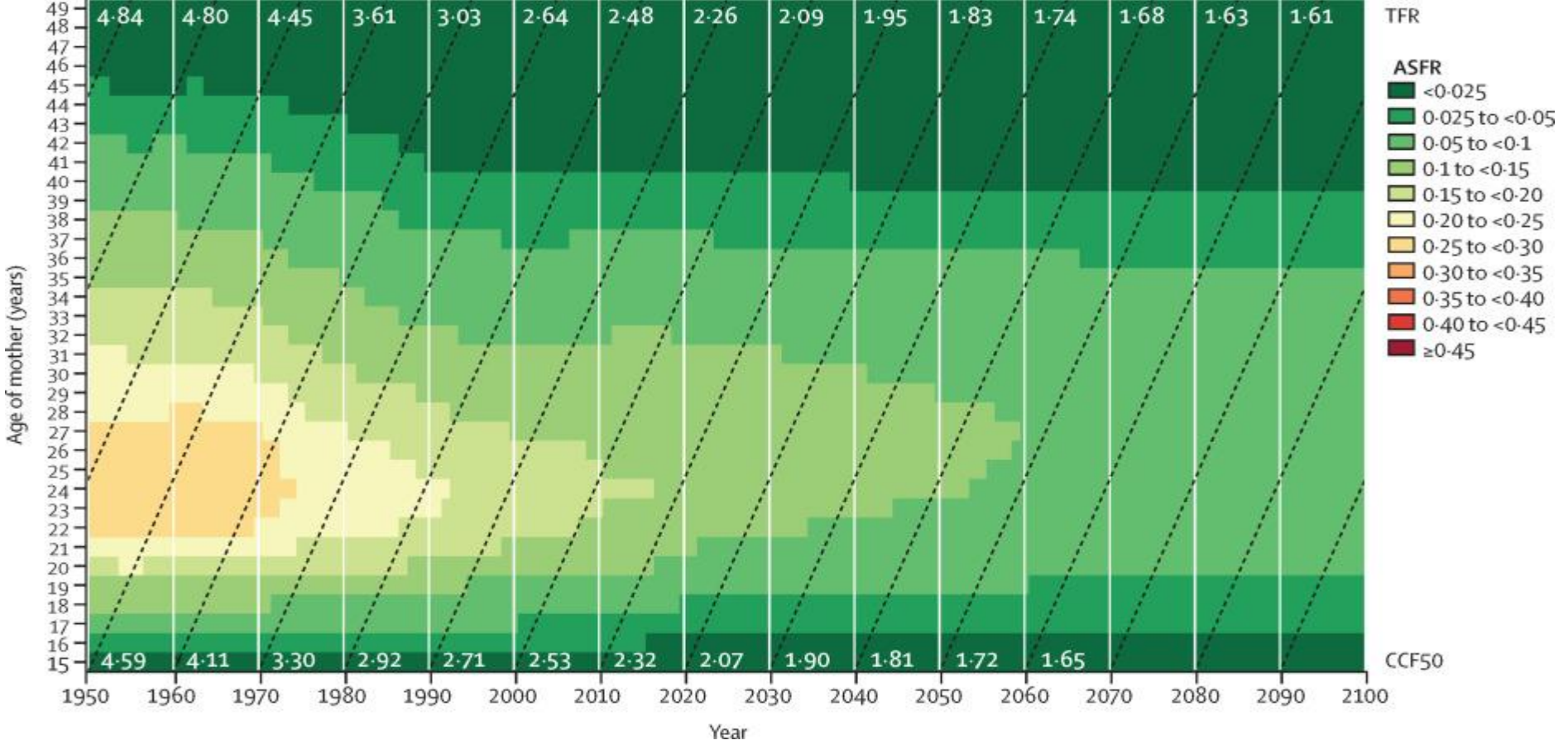

single-year ASFR (colour fill), TFR (numbers at the top), and CCF50 estimates (white numbers at the bottom)…the vertical axis indicates age of mother.

CCF50 estimates - for each 10-y birth cohort. CCF50 is the sum of ASFR cells on the diagonal (ie, representing birth cohort), whereas TFR is the sum of ASFR cells vertically (ie, ASFR values from the same calendar year by age of mother). CCF50 is a cohort measure and years labelled on the x-axis are in period space. CCF50 values correspond to those entering their reproductive age (15–49 y) at that year (i.e. the birth cohort 15 y earlier). The vertical white lines indicate each decade, and the diagonal black dashed lines assist with visualising cohort space. ASFR=age-specific fertility rate. CCF50=completed cohort fertility at age 50 years. TFR=total fertility rate.

Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographianalysis for the Global Burden of Disease Study 2021

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