

Cognitive-Affective Growth in Adolescence: second chances and new beginnings

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New Understandings

1. Adolescence in the life course

- Shifts in adolescent development
- Biology of puberty and brain development
- Shift in the social environment

2. Adolescence and health

- Visibility & data
- Shifting health priorities

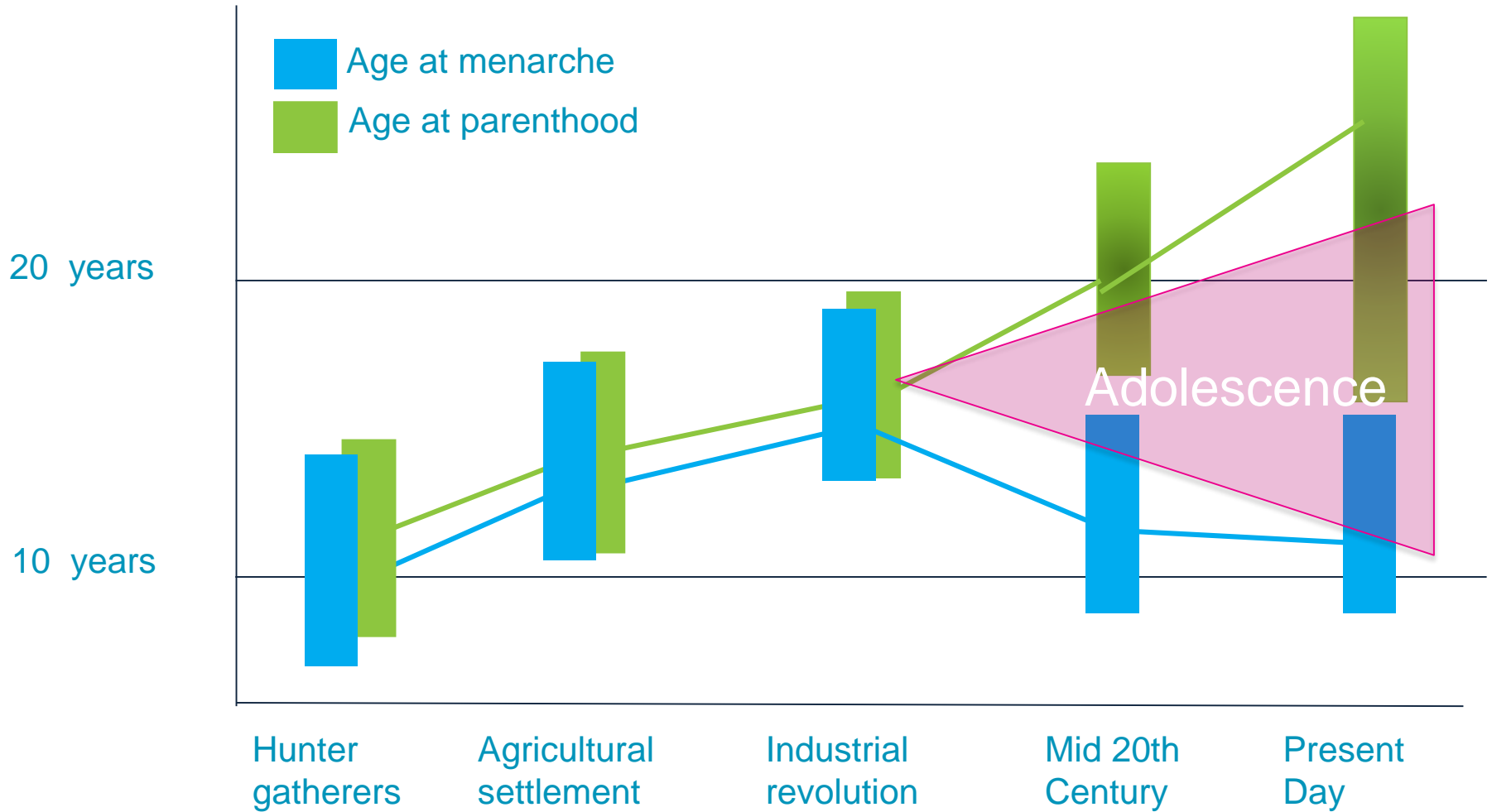
3. Opportunities for interventions

- Protective systems
- Health interventions

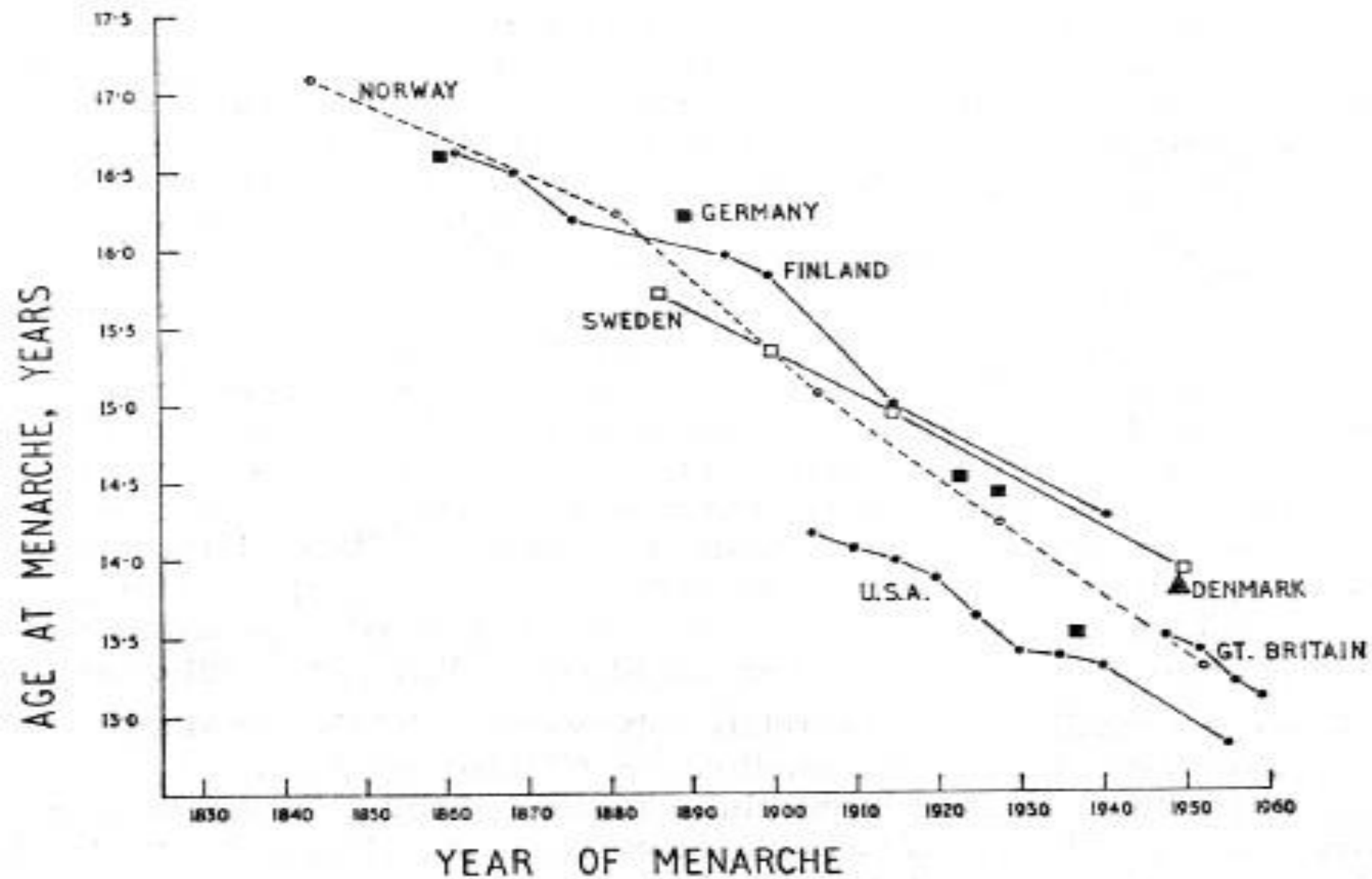
4. Some economic considerations

The 'Evo-devo' of adolescence:

High income countries



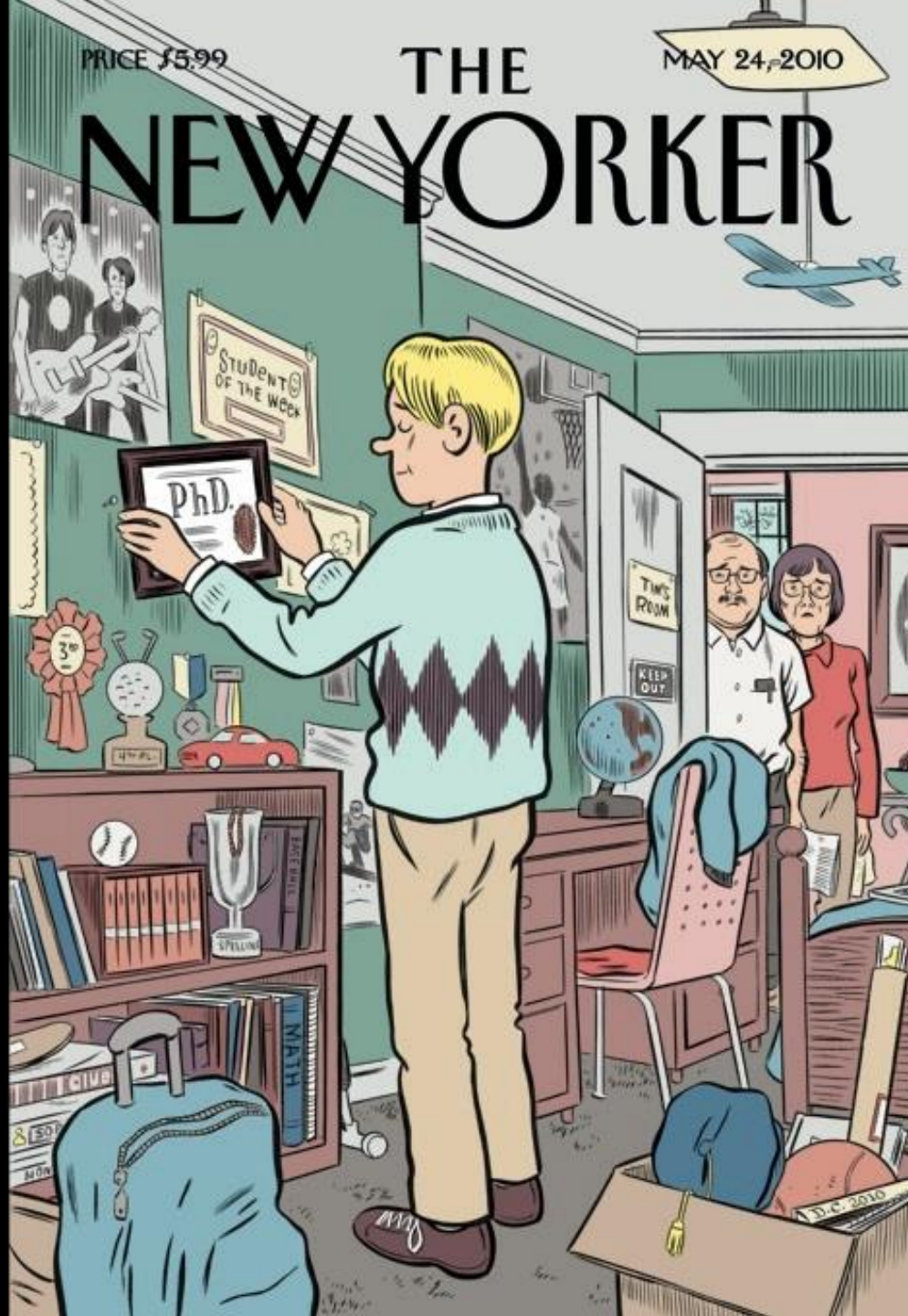
Menarche trends in some high income countries



PRICE \$5.99

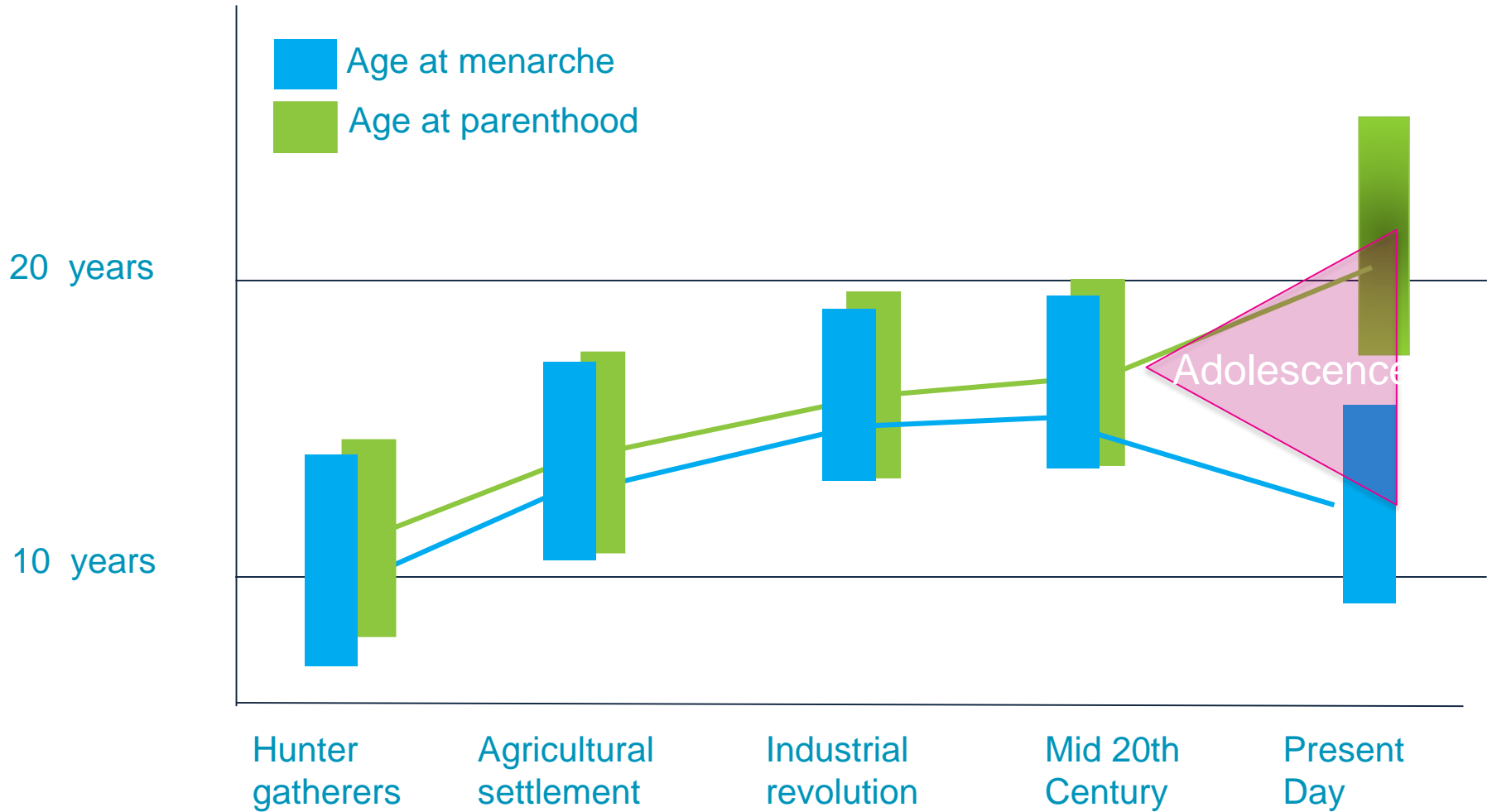
MAY 24, 2010

THE NEW YORKER



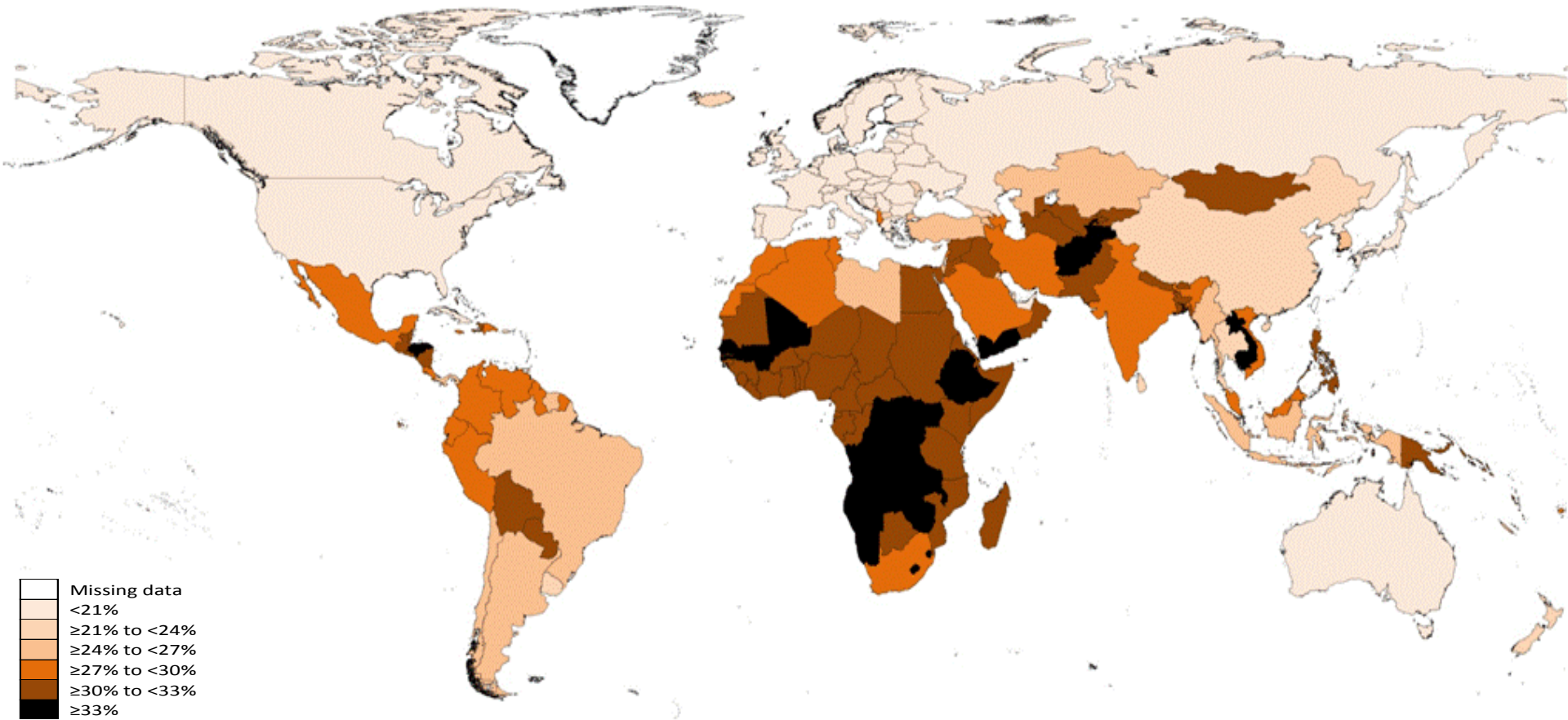
The 'Evo-devo' of adolescence:

Low & middle income countries



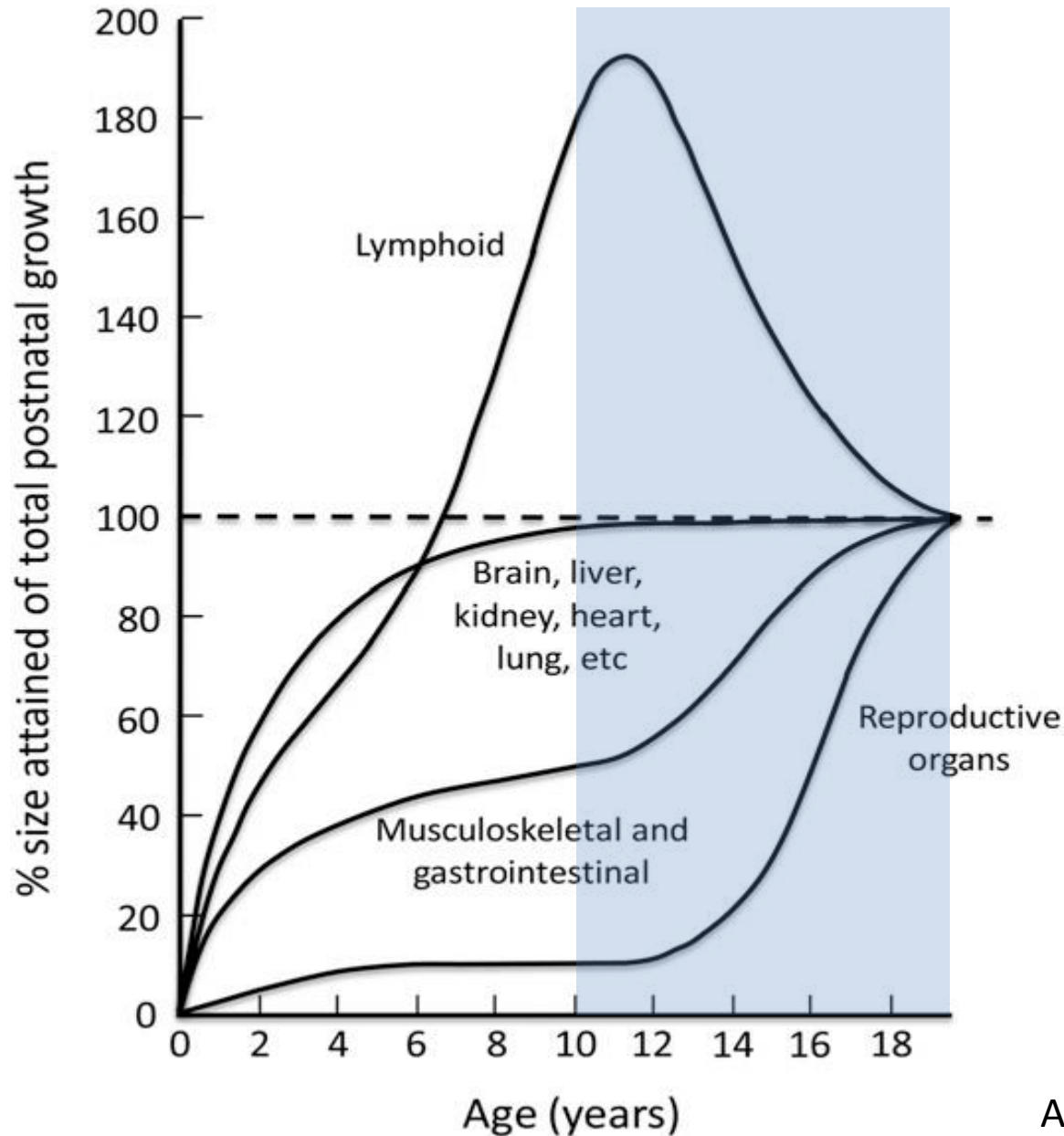
Adapted from Gluckman

Nine in ten adolescents live in LMIC

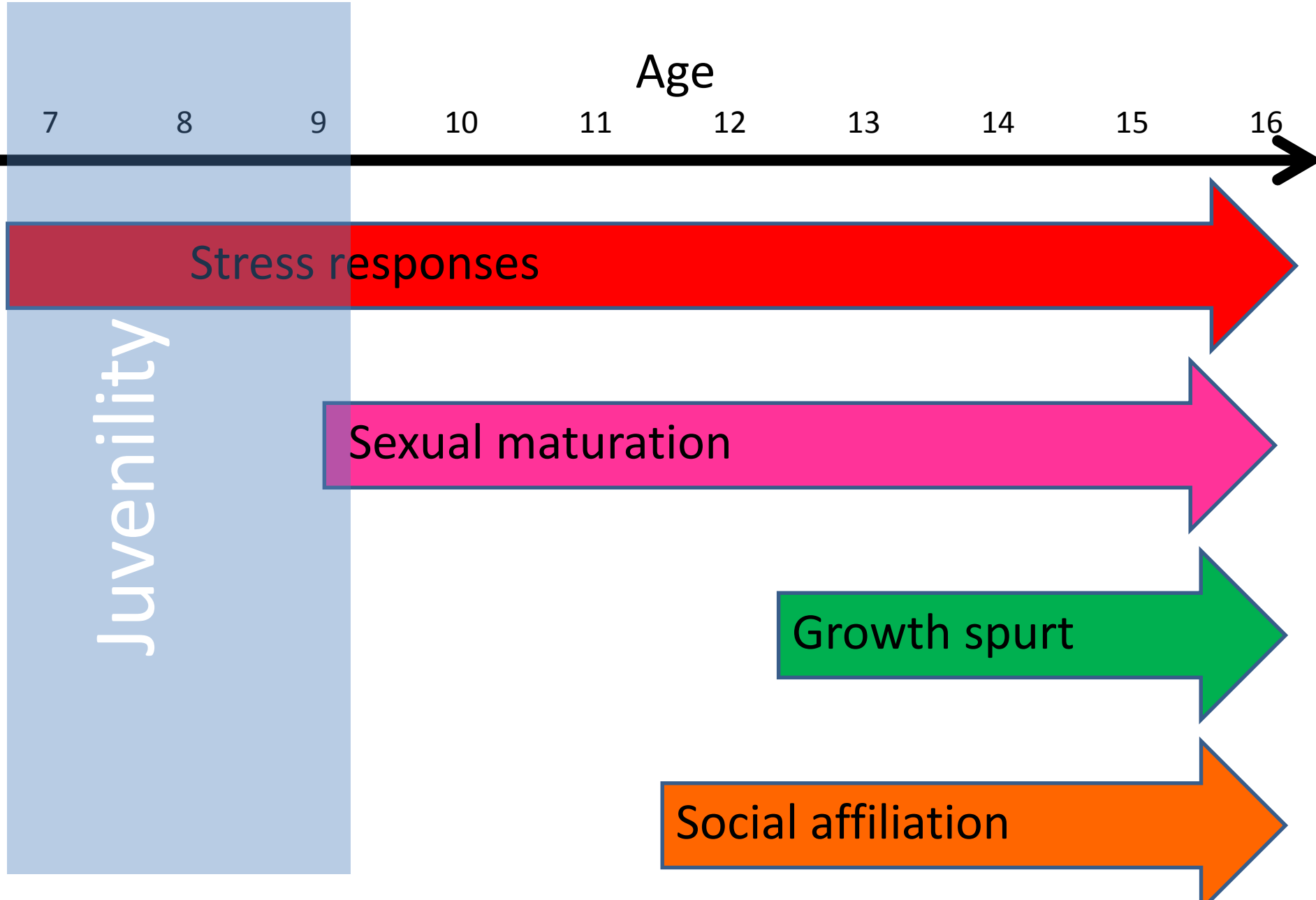


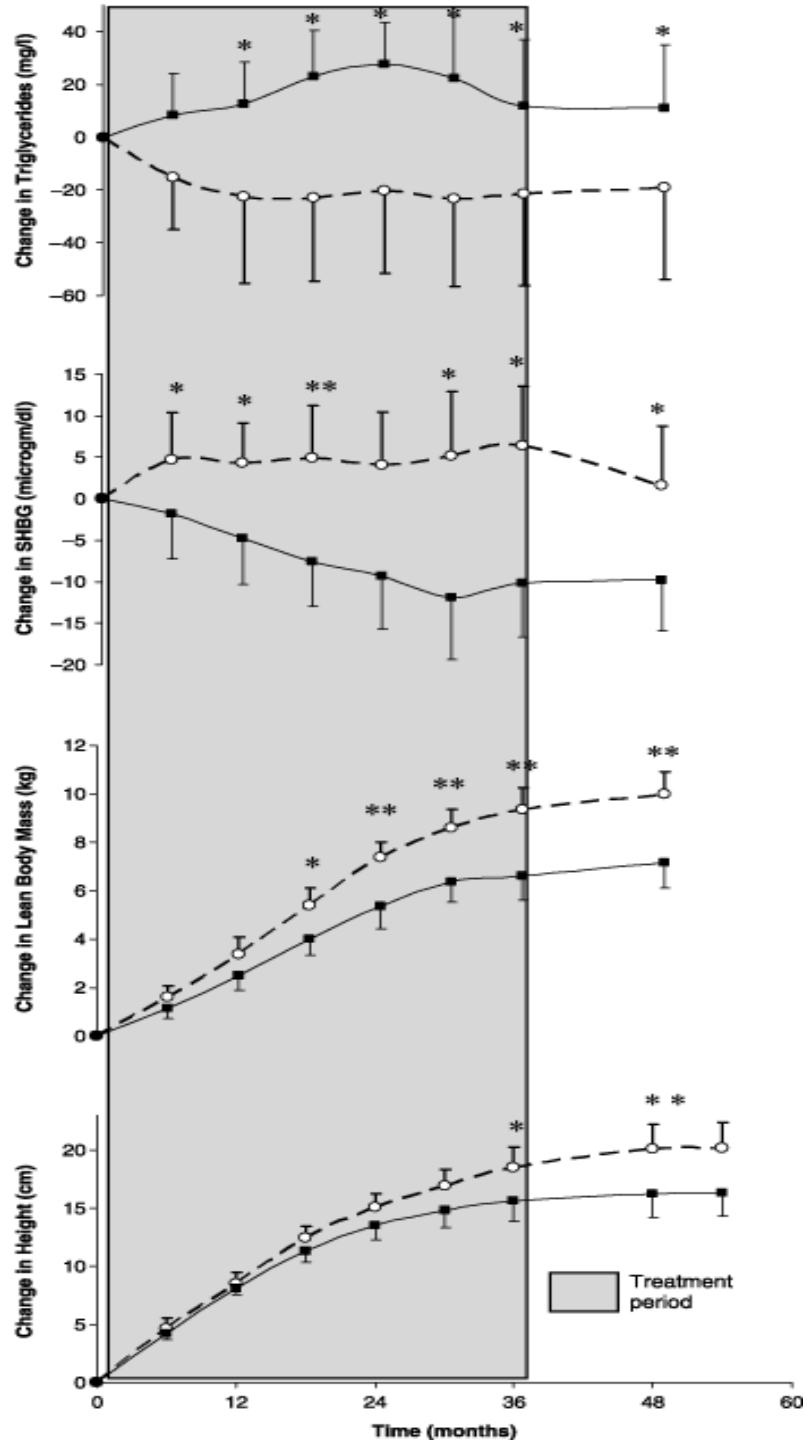
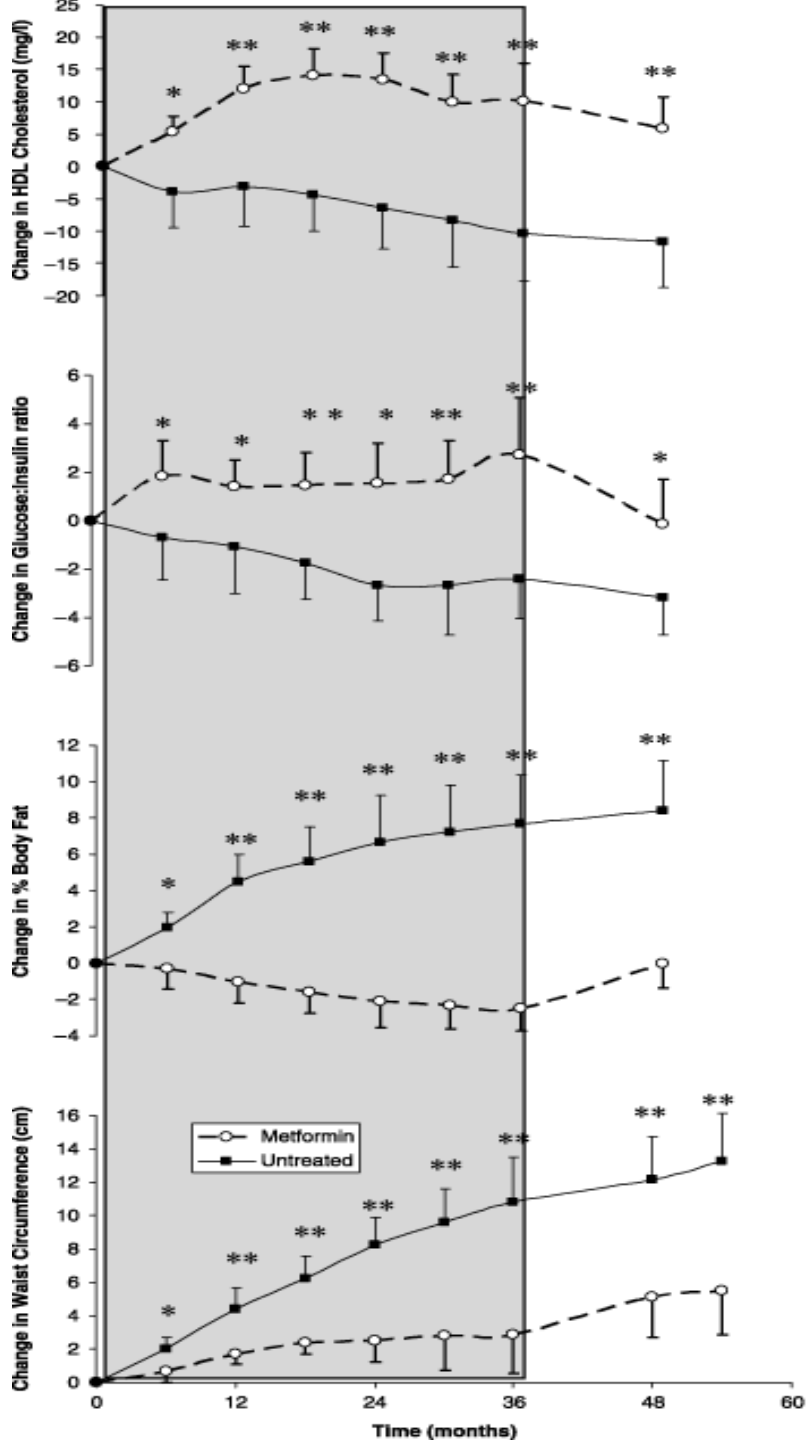
* Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects

Growth in size of the body systems

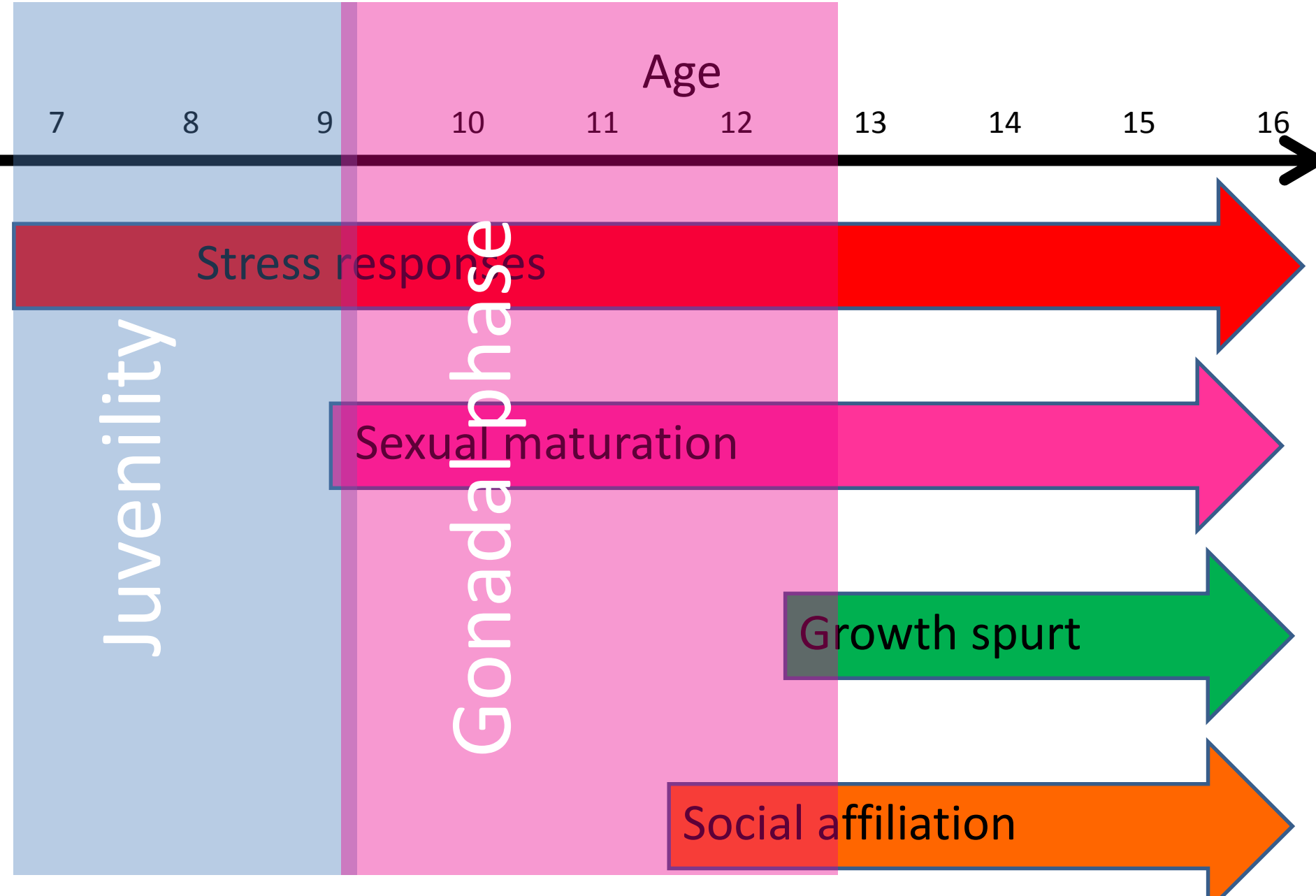


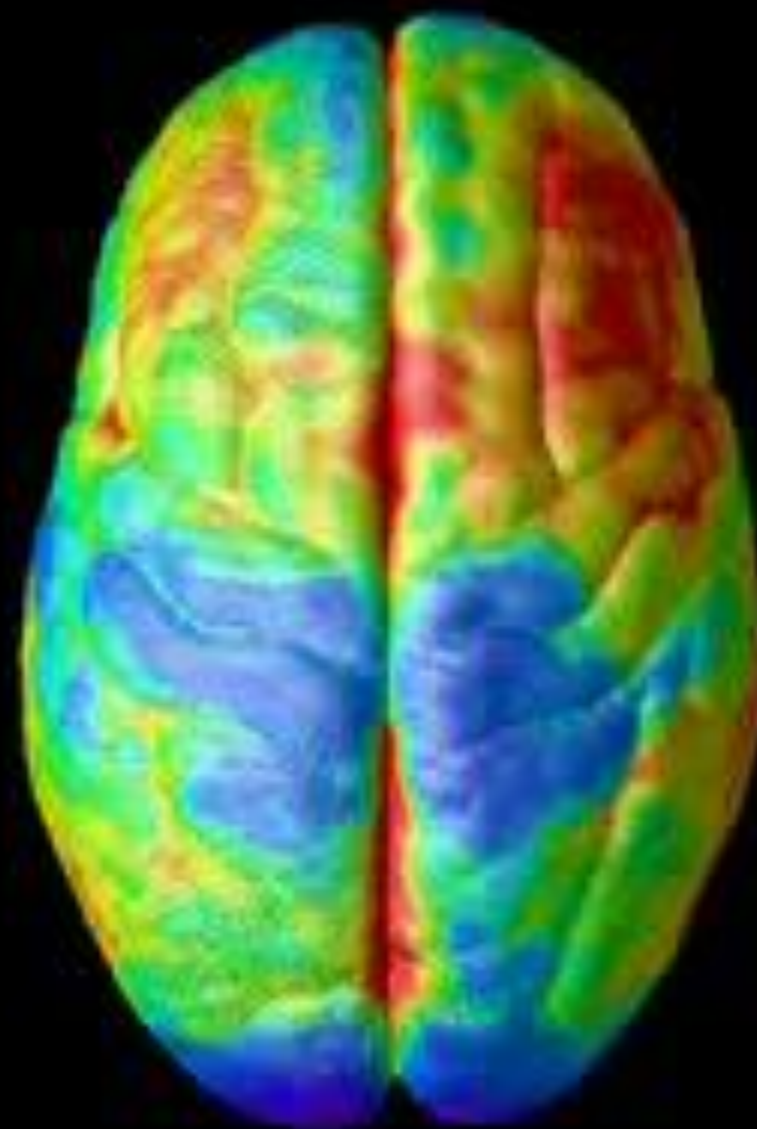
Biology of puberty





Biology of puberty



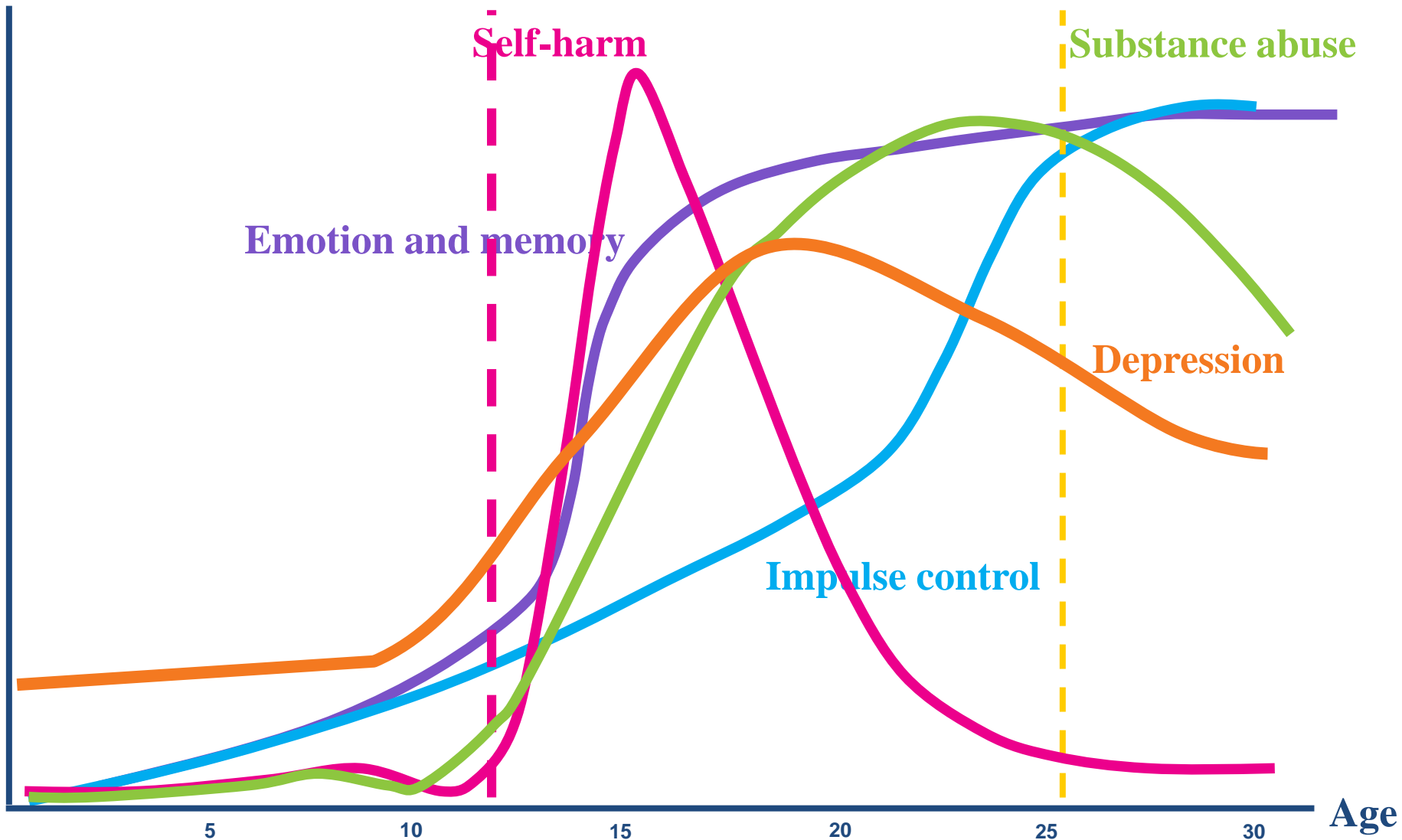


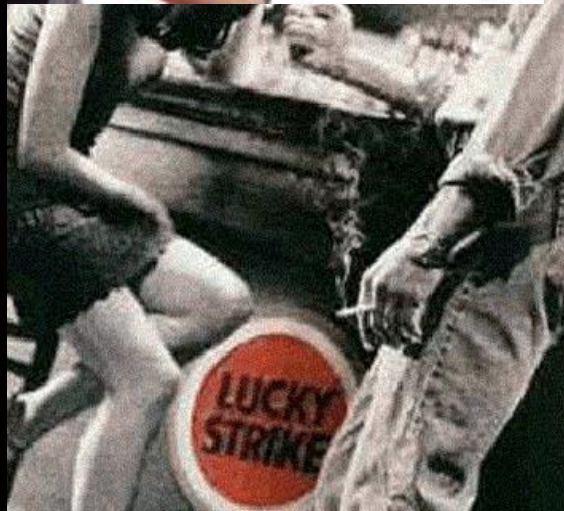
Gray Matter Amount

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0



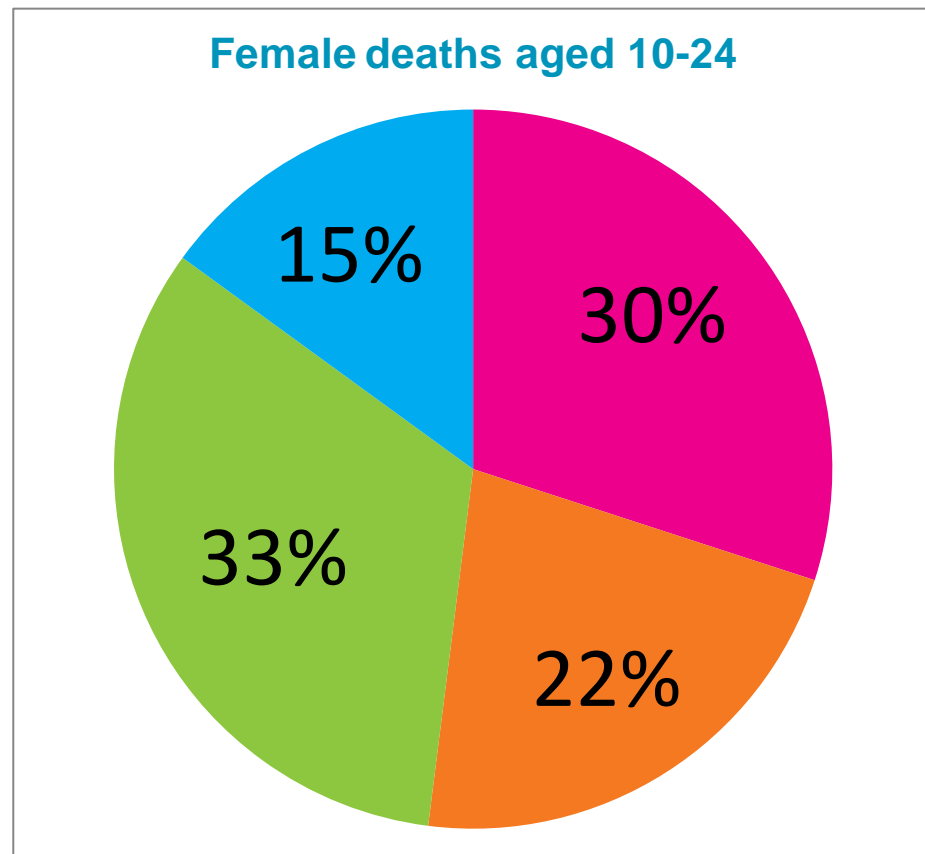
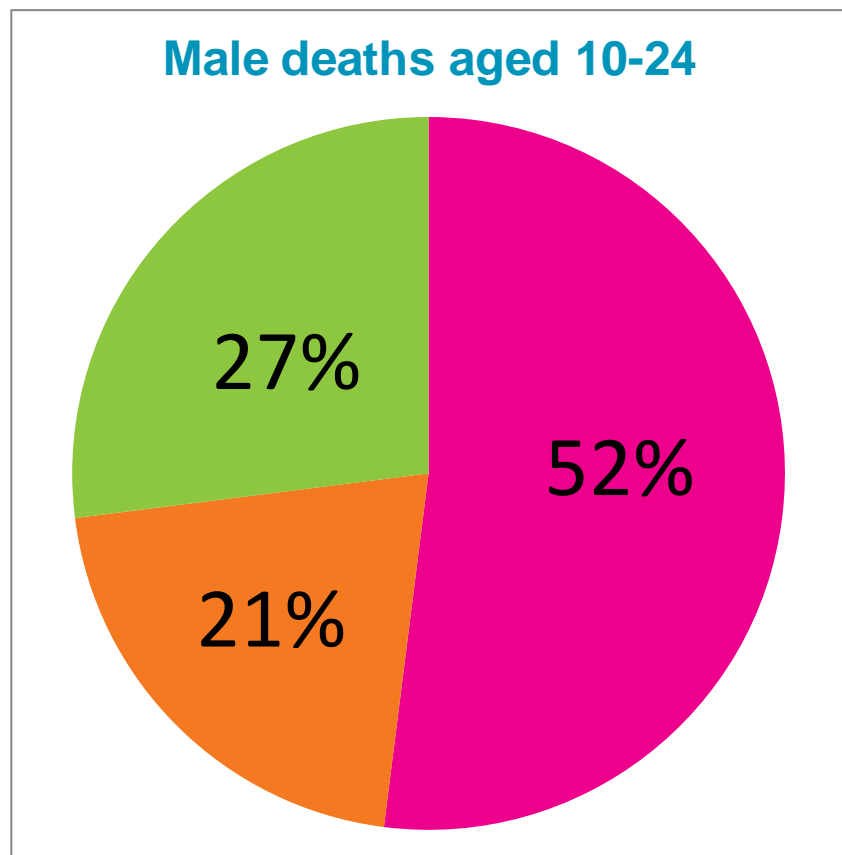
An adolescent window of vulnerability





More than sexual and reproductive health

How do 2.6 million young people die each year?



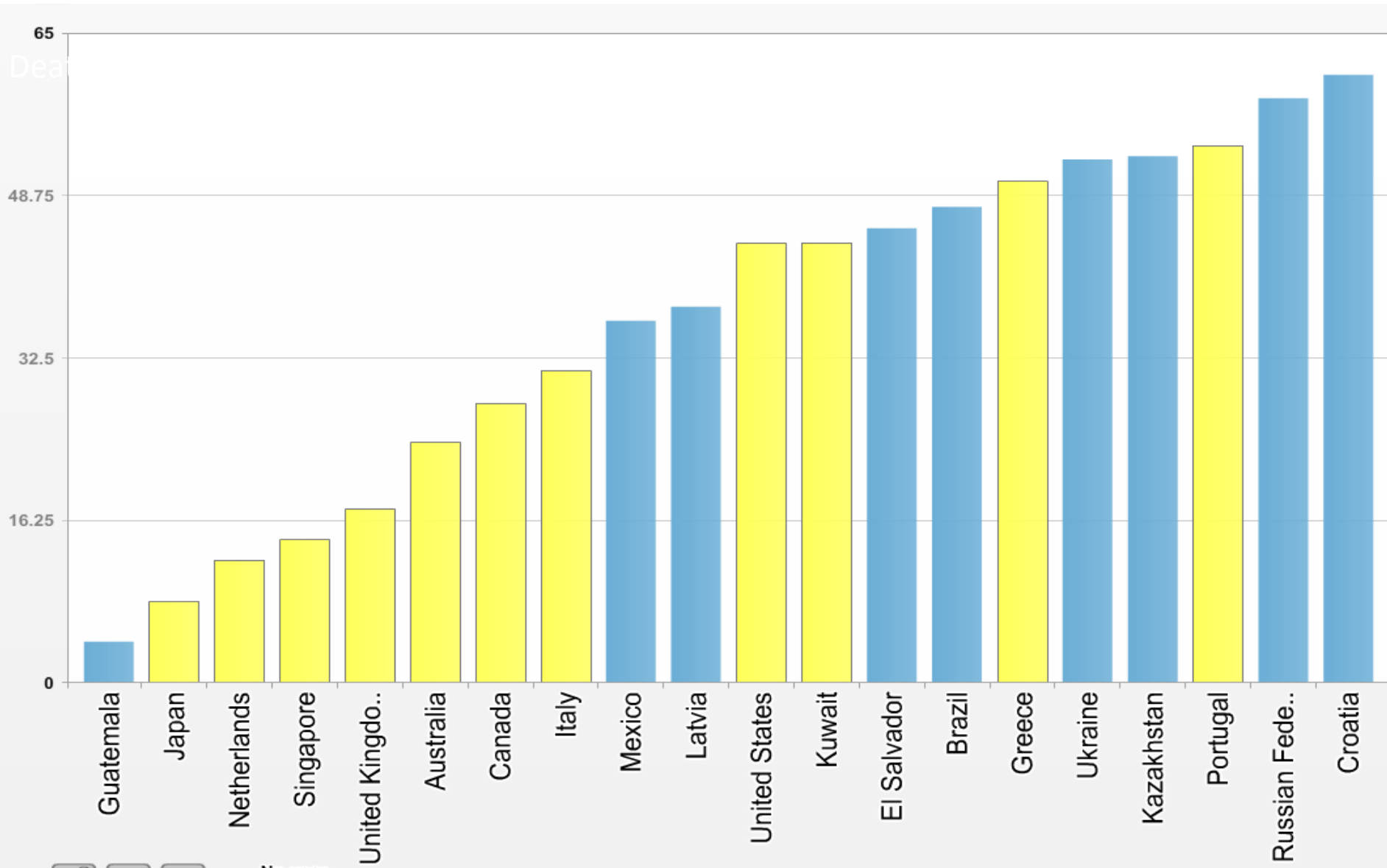
 Injuries

 NCDs

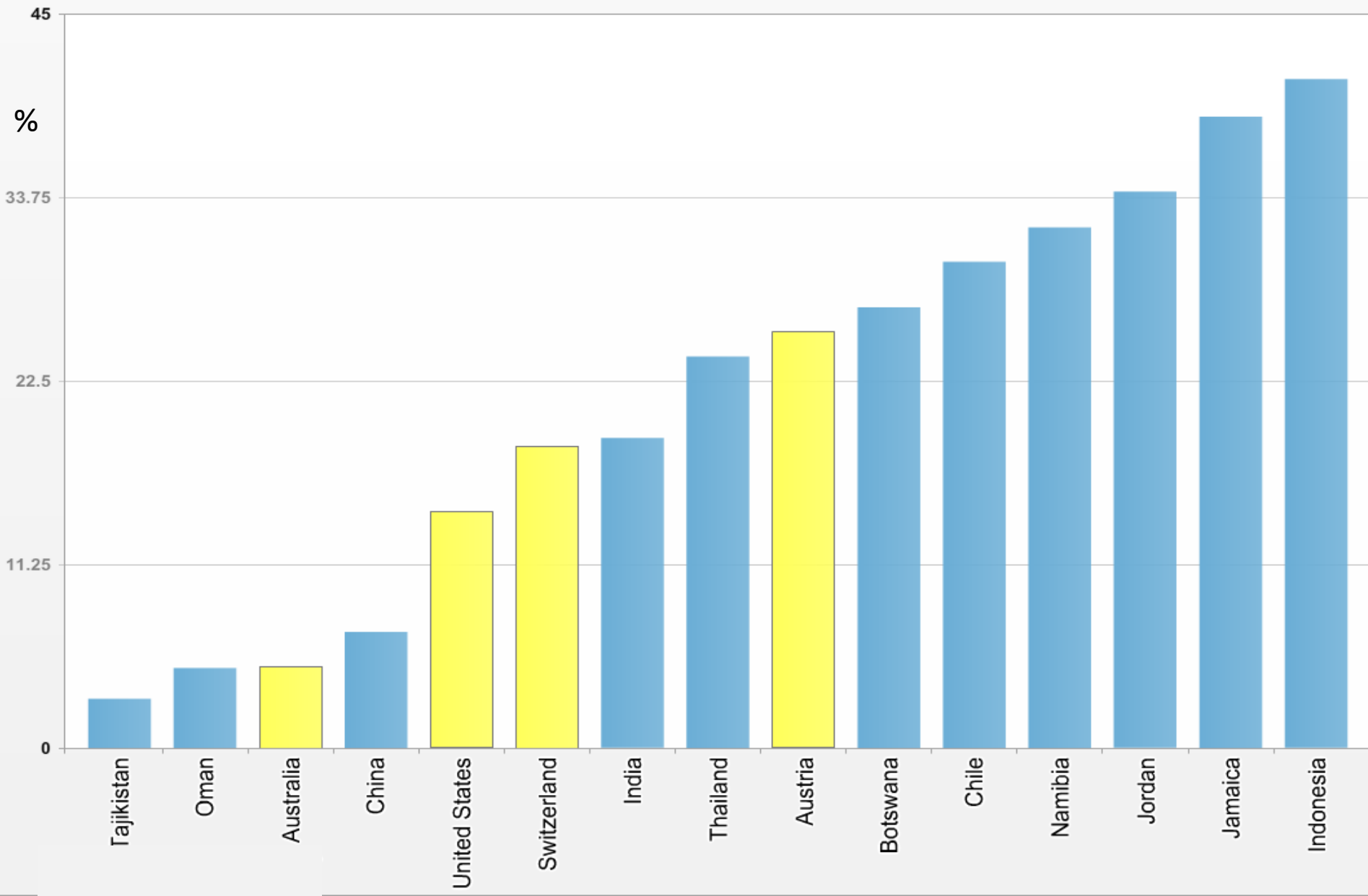
 Infectious

 Maternal

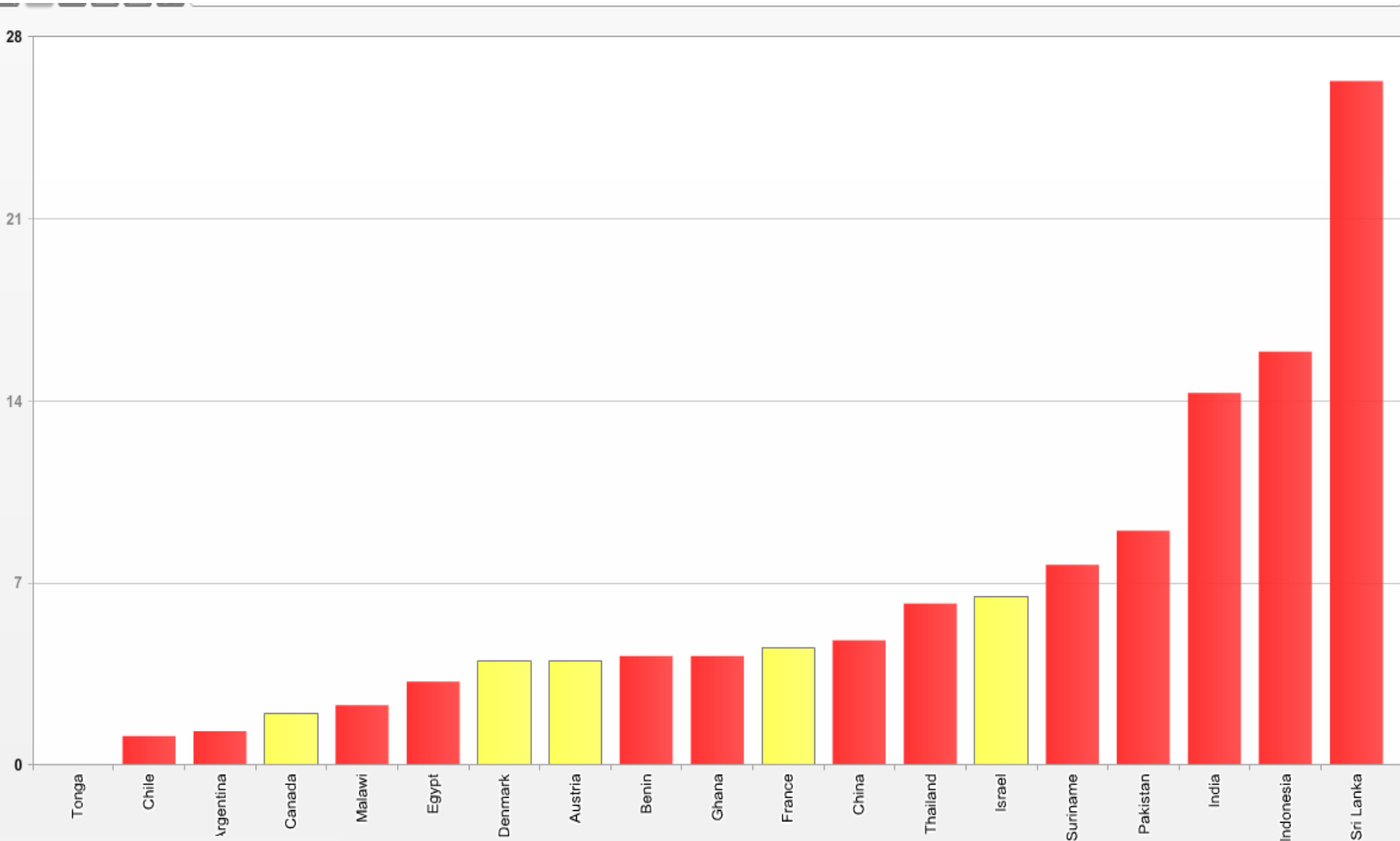
Traffic Injury Deaths (100,000/year) in males 20-24 years: selected countries (high income yellow)



Tobacco use (%) in males 13-15: selected countries



Underweight in girls aged 13-15 years



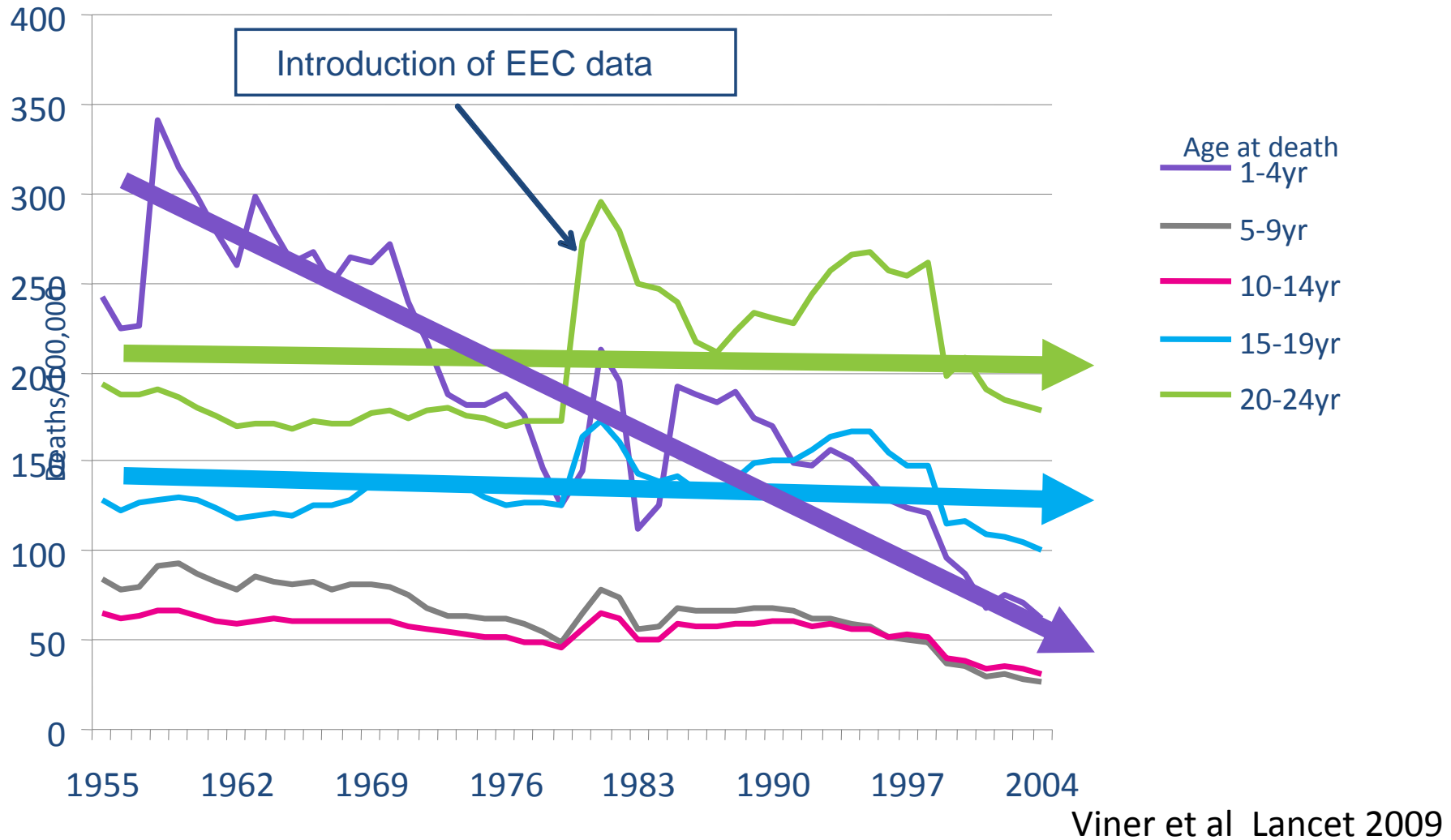
A quadruple burden: where to invest?

- Diseases of poverty
 - HIV
 - Maternal mortality/morbidity
- Injury epidemics
- Rising NCD risks
- Intergenerational risk

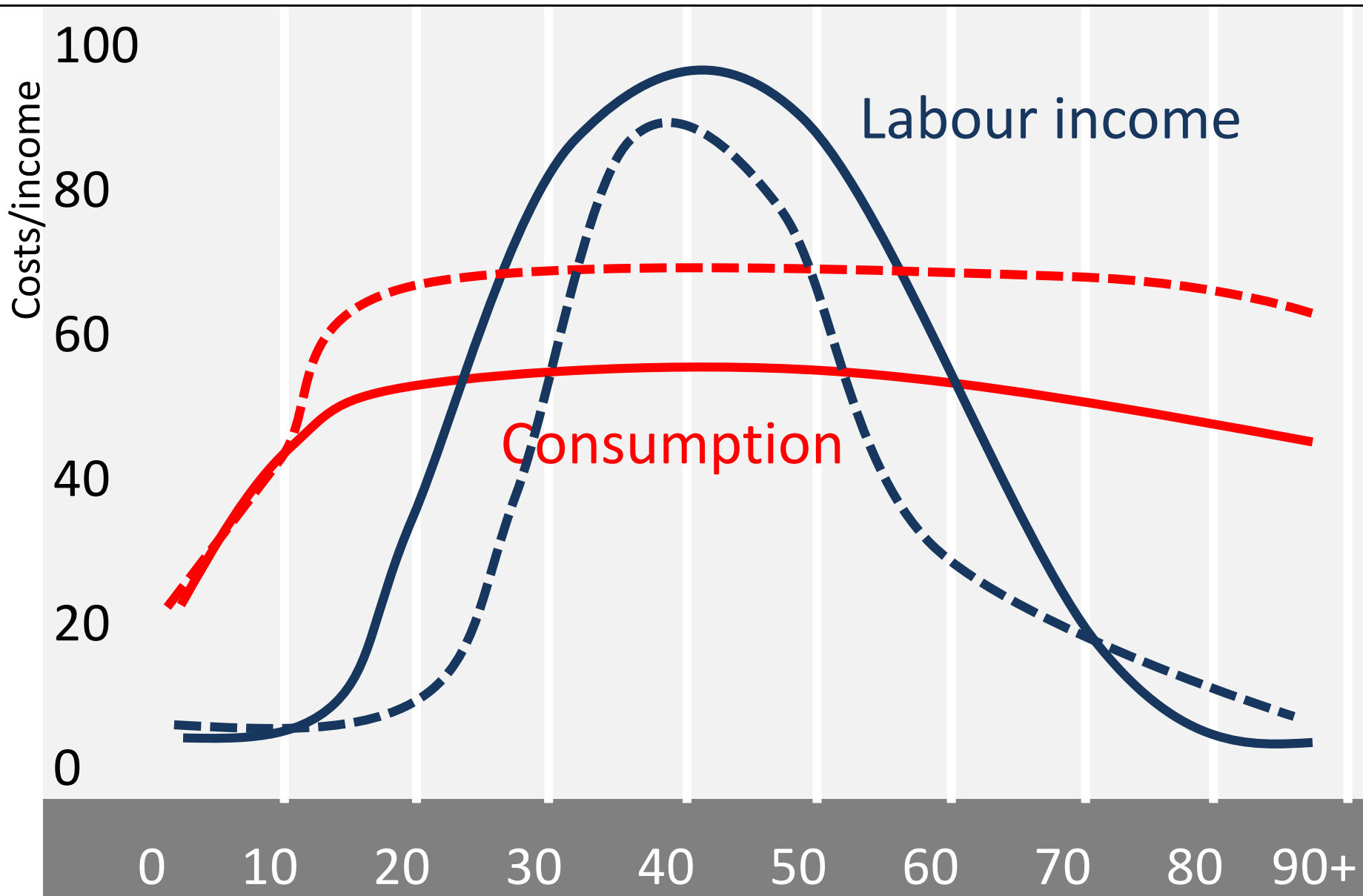
New platforms

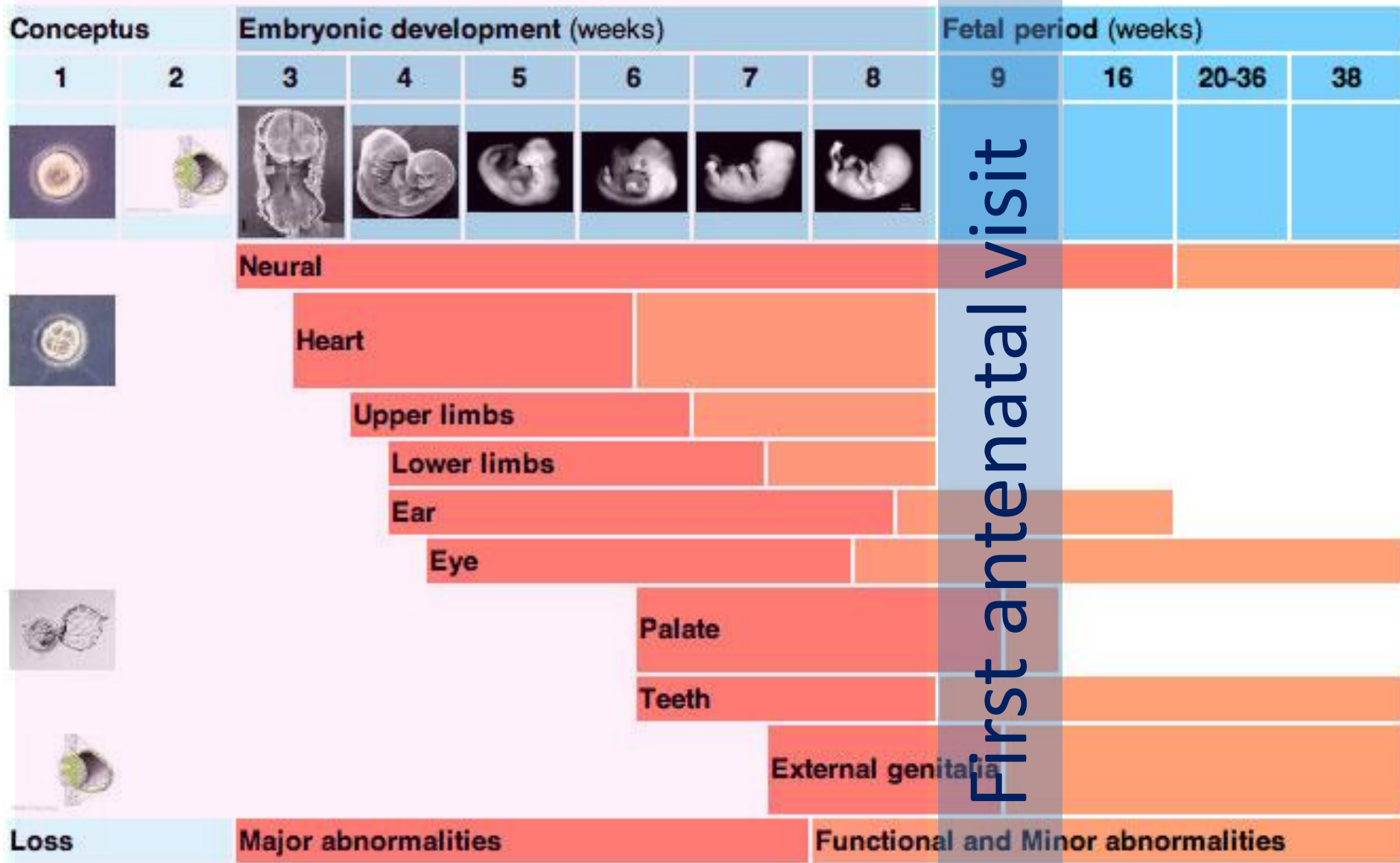


Guaranteeing investments in early childhood



Life cycle of workers



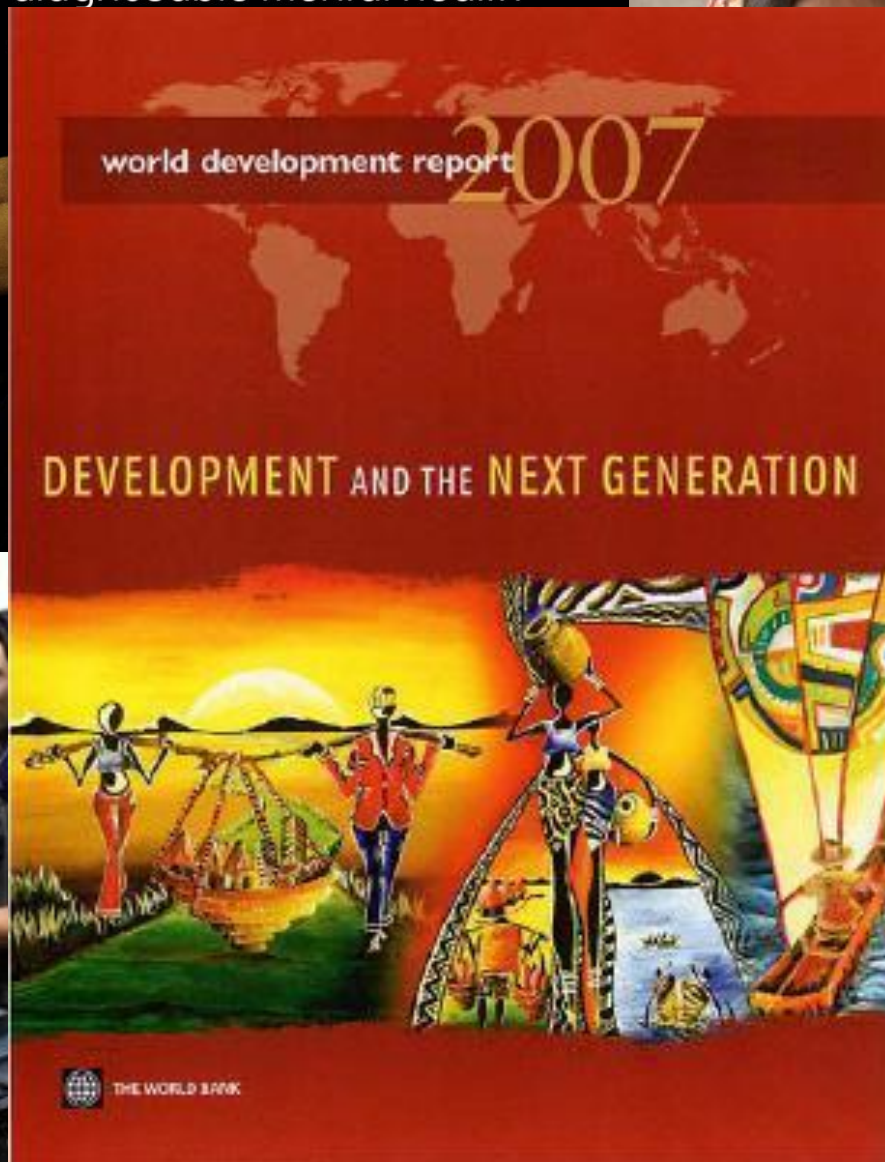


First antenatal visit

one in five adolescents are estimated to have diagnosable mental health

Motherhood in Childhood

Facing the challenge of adolescent pregnancy



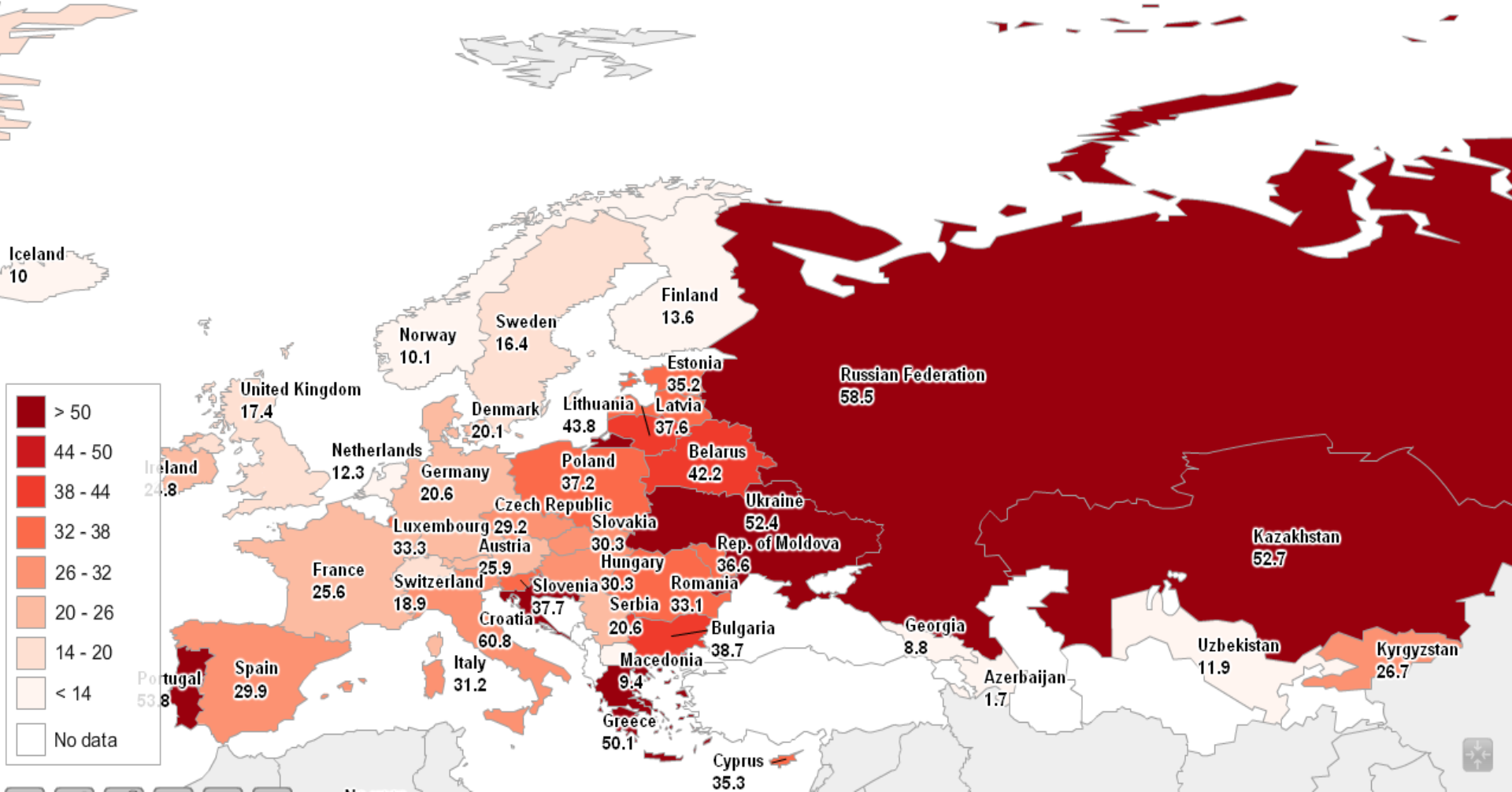
NCD ALLIANCE PLAN



for the
**UNITED NATIONS
HIGH LEVEL SUMMIT ON
NON-COMMUNICABLE
DISEASES**
(Summary Version)

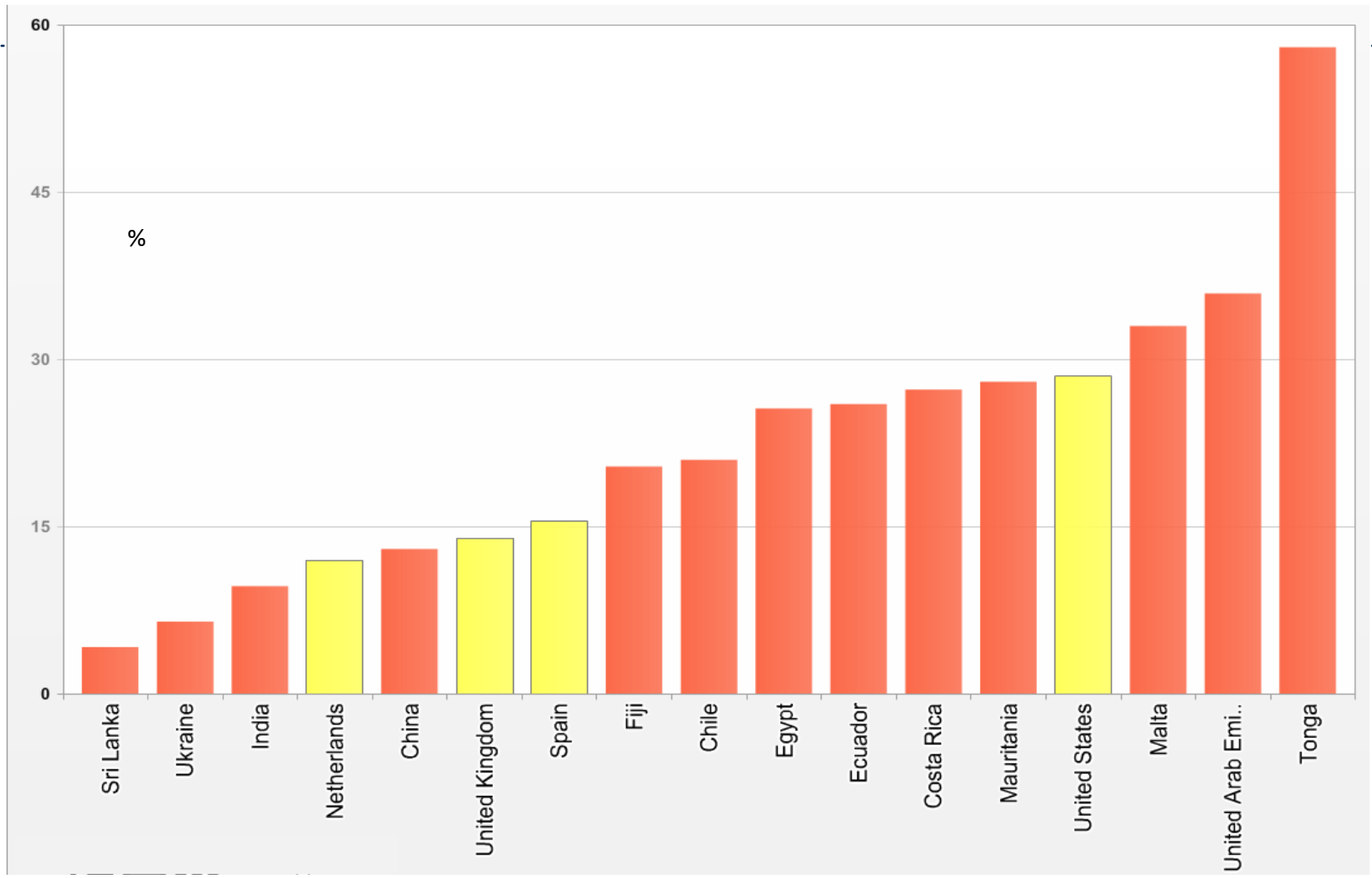


Traffic injury deaths in the Europe in males 20-24 years old



Global health changes: NCD agenda & adolescents

Overweight in females 13-15 yrs



Traffic Injury Deaths (100,000/year) in males 20-24 years: selected countries (high income yellow)

