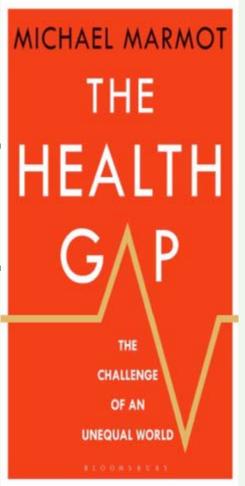




The Health Gap

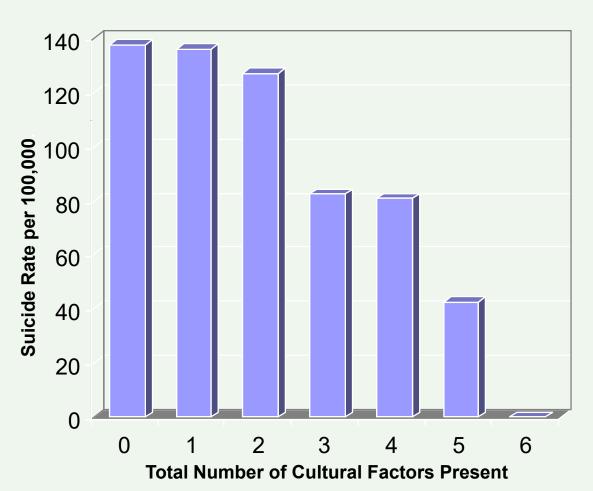
Professor Sir Michael Marm
@MichaelMarmot
www.instituteofhealthequity.







Aboriginal Youth Suicide by Factors Present



Cultural Factors:

- Self-government
- Land claim participation

Community Control:

- Health services
- Education
- Cultural facilities
- Police/fire services





Growing up in Baltimore: worlds apart

- City of Baltimore in the US state of Maryland is marked by stark inequalities.
- LeShawn, has grown up in the Upton/Druid Heights neighbourhood in Baltimore's inner city.
- Bobby has grown up in Greater Roland Park/Poplar.
- Life expectancy in Upton/Druid is sixty-three; in Roland Park, eighty-three.





eShawn Baltimore Upton/Druid

- Half are single parent families.
- Median household income in 2010 was \$17,000
- Four out of ten under 'proficient' reading third grade
- >50% missed at least 20 days of high school a year.
- 90% did not go on to college.
- Each year, a third aged 10-17 arrested for 'juvenile disorder'. A third each year: criminal record by 17.
- In 2005 to 2009, 100 non-fatal shootings for every 10,000 residents, and nearly forty





Bobby Baltimore: Roland Park

- 93% two-parent families
- Median income \$90,000
- 97% achieve 'proficient or advanced' in third grade reading
- Only 8% missed twenty days a year of high school
- 75% complete college
- Juvenile arrests one in fifty each year
- No non-fatal shootings in 2005–2009; four homicides per 10,000





Life expectancy at birth for men and women in the US, 2008

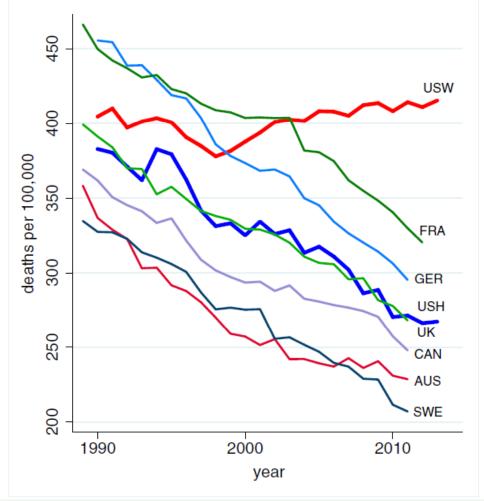
Years of	White	Black	White	Black
education	women	women	men	men
<12	73	73	67	66
12	78	74	72	68
13-15	82	80	79	74
16+	83	81	81	75

Source: Olshansky et al, Health Aff. 2012





Alf-cause mortality, ages 45–54 for US White non-Hispanics, US Hispanics and 6 comparison countries



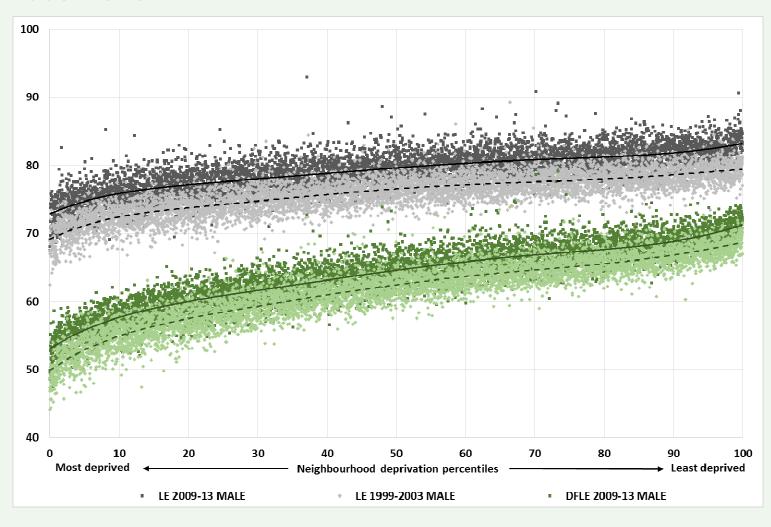
US White non-Hispanics (USW),
US Hispanics (USH),
France (FRA),
Germany (GER),
United Kingdom (UK),
Canada (CAN),
Australia (AUS),
Sweden (SWE).

Case & Deaton, PNAS, 2015





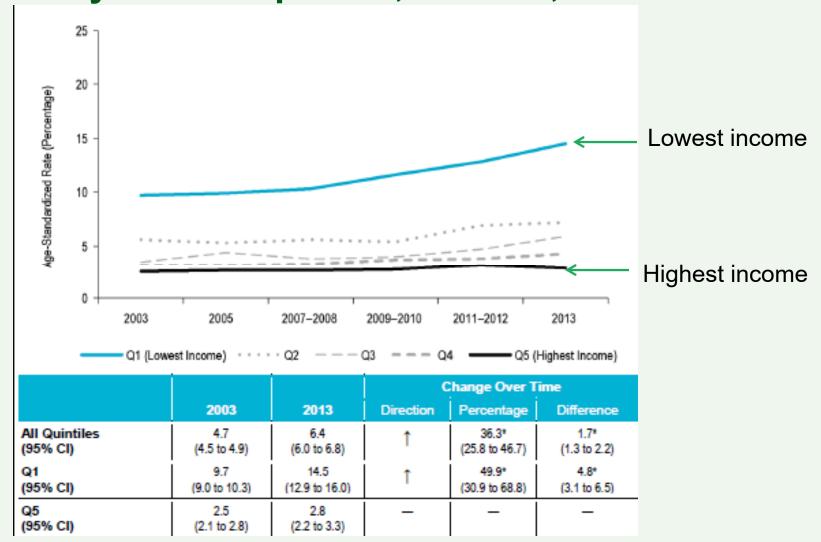
Life expectancy and disability-free life expectancy (DFLE) at birth, males by neighborhood deprivation, England, 1999–2003 and 2009-2013







Fair/Poor Self-rated mental health prevalence rates by income quintile, Canada, 2003-2013



Trends in Income-Related Health Inequalities in Canada (Nov. 2015



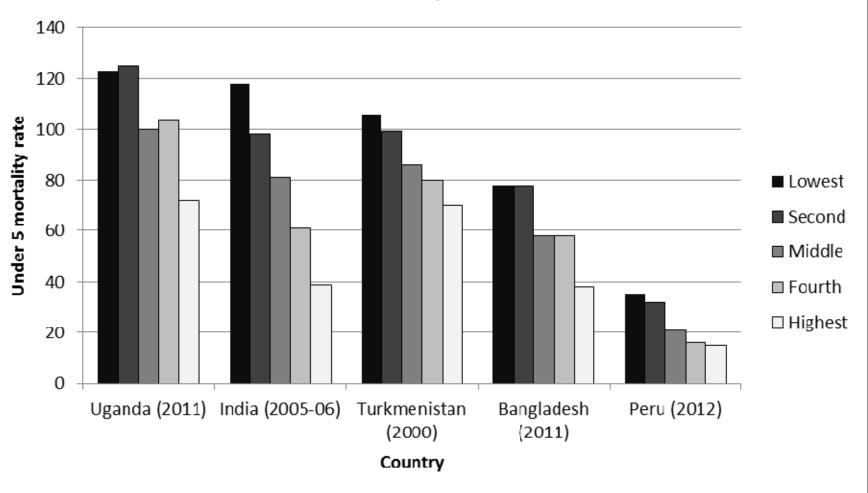


- "Go into a typical American school and count one hundred boys aged fifteen. Thirteen of you will fail to reach your sixtieth birthday."
- "Is thirteen out of a hundred a lot?"
- "The US risk is double the Swedish risk, which is less than seven."





Under 5 mortality rate (per 1000 live births) by wealth quintile

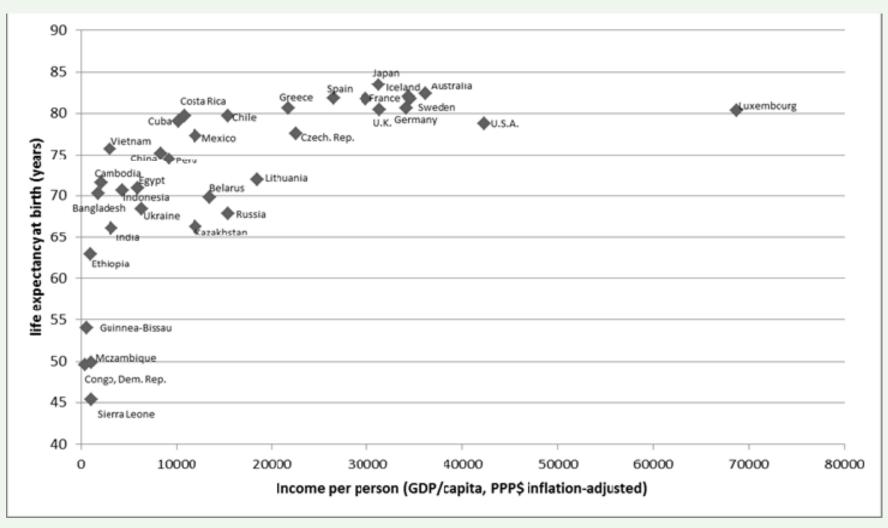


Source: Data from DHS





The relationship between wealth and health, 2012



Source: Data from Gapminder





Lifecourse

So we beat on, boats against the current, borne back ceaselessly into the past.

-F. Scott Fitzgerald, The Great Gatsby







Give Every Child the Best Start



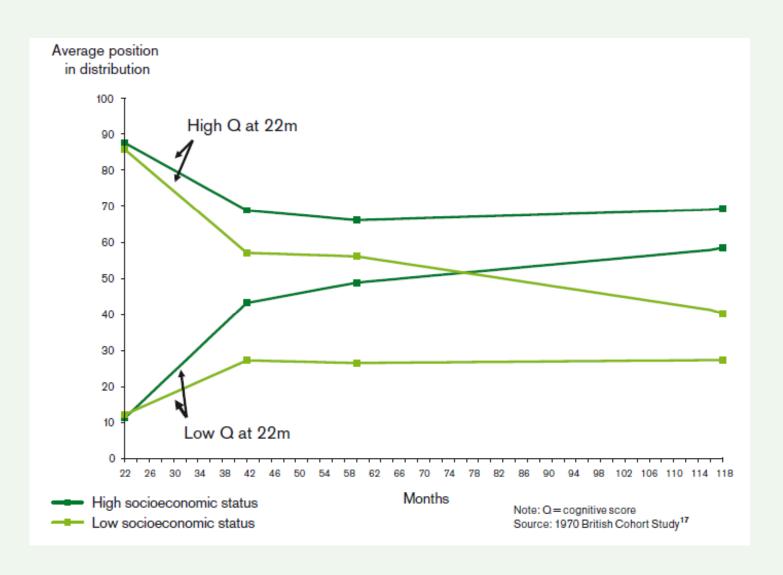




Jimmy, Calton, Glasgow

- Single mother with succession of partners; physical and ? sexual abuse
- Behaviour problems at school entry
- Delinquency; known to police: gangs and violence
- never had a 'proper' job temporary manual work
- any money Jimmy gets goes into drink and drugs;
- Diet of pub food, fast food and alcohol.
- a series of short-term girlfriends, alcohol-fuelled violent behaviour.
- Jimmy's life expectancy less than Indian average.

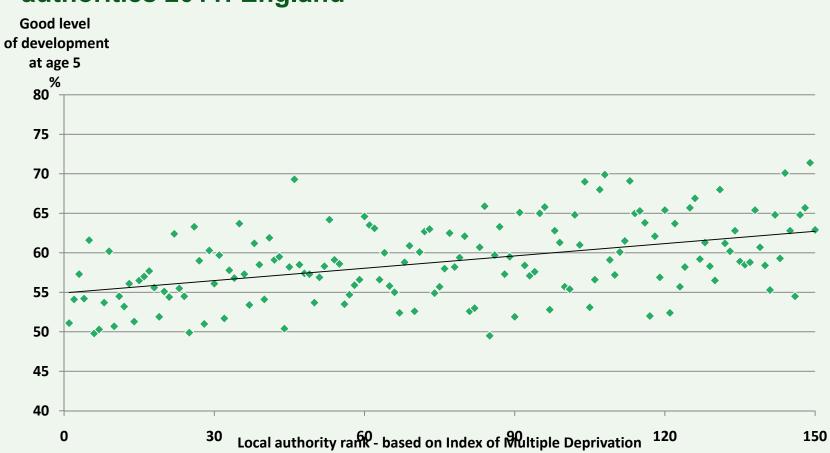
Inequality in early cognitive development of children in the British Cohort Study, ages 22 months to 10 years







Children achieving a good level of development at age five, local authorities 2011: England



Source: LHO (2012)

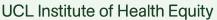
Country comparison on average rank in four dimensions of UCL Institute of Health Equity — material, health, education, behaviours

& risks, in early 2000s and late 2000s

Rank	Early 2000s	Rank	Late 2000s	Change in rank
1	Sweden	1	Netherlands	+2
2	Finland	2	Norway	+2
3	Netherlands	3	Finland	-1
4=	Denmark	4	Sweden	-3
4=	Norway	5	Germany	+2
6	France	6	Denmark	-2
7	Germany	7	Belgium	+1
8	Belgium	8=	France	-2
9=	Czech Republic	8=	Ireland	+4
9=	Poland	8=	Switzerland	+3
11	Switzerland	11	Portugal	+5
12	Ireland	12	Poland	-3
13	Spain	13	Czech Republic	-4
14=	Canada	14=	Canada	no change
14=	Italy	14=	Italy	no change
16=	Greece	16	United Kingdom	+4
16=	Portugal	17	Austria	+1
18	Austria	18=	Greece	-2
19	Hungary	18=	Hungary	+1
20=	United Kingdom	18≡	Spain	-5
20=	United States	21	United States	

UNICEF 2013

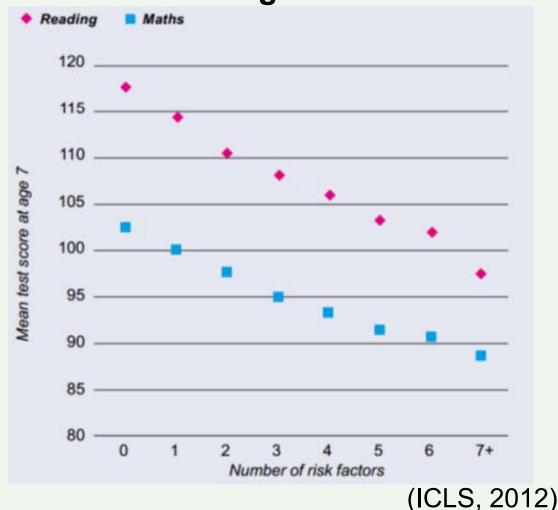






Inequalities in cognitive development by multiple factors, UK

Cognitive test scores at age 7

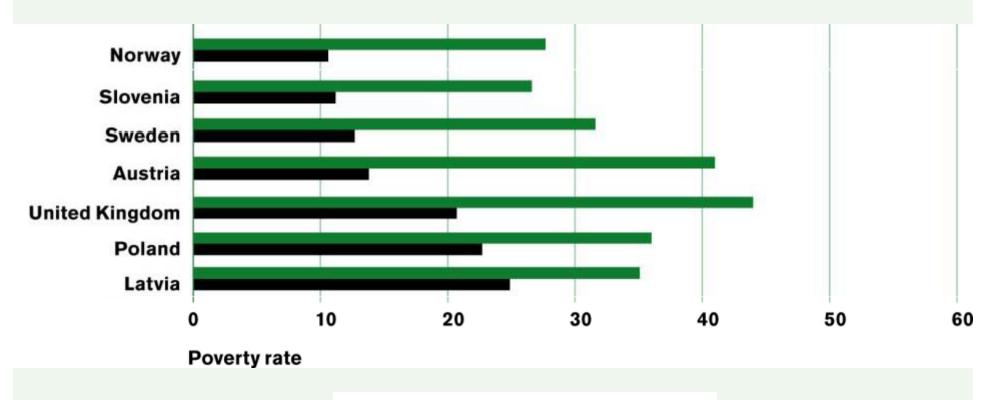


- Low birth weight
- Not being breastfed
- Maternal depression
- Having a lone parent
- Median family income
 <60%
- Parental unemploymen
- Maternal qualifications
- Damp housing
- Social housing
- Area deprivation (IMD)





Child poverty rates before and after transfers, ranked by after-transfer rate, EU-SILC 2009

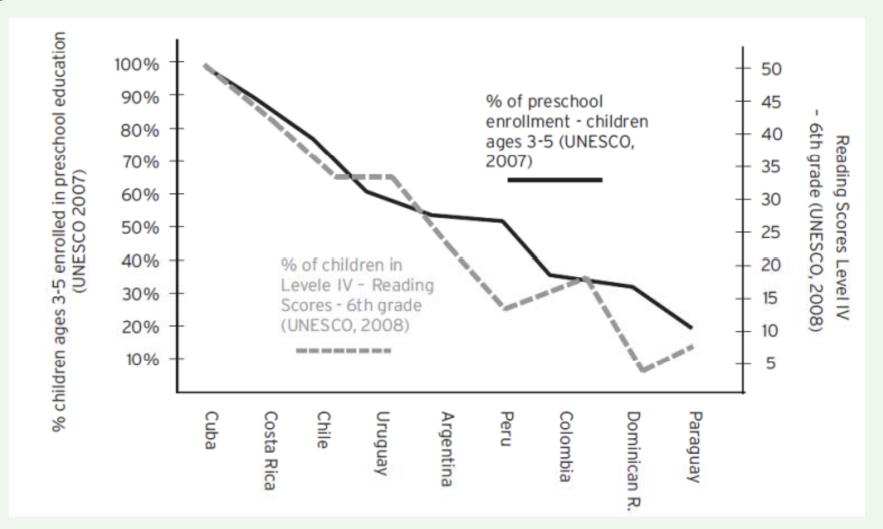


- Before social transfers
- After social transfers





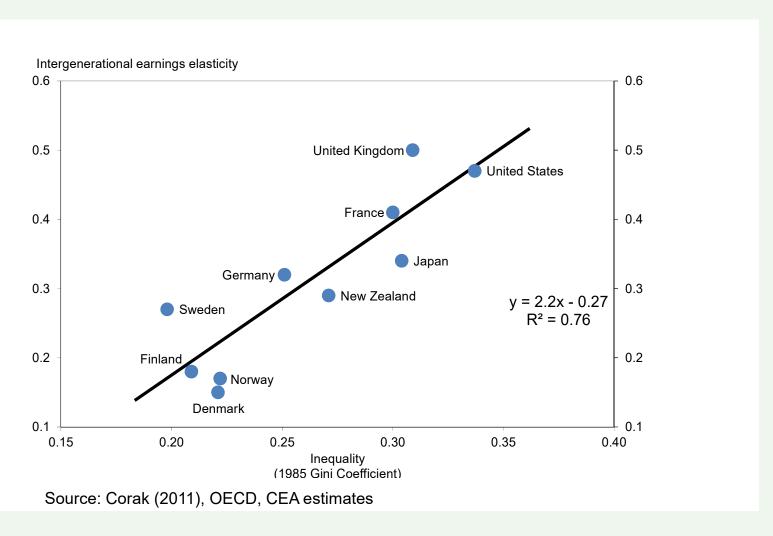
Enrolment in preschool (ages 3-5) and reading in 6th grade: selected countries in Latin America







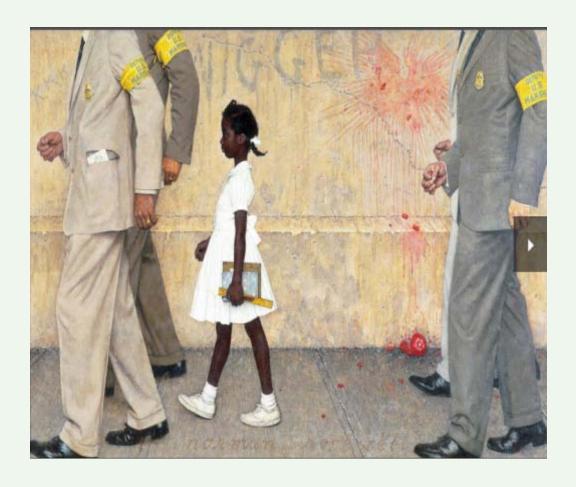
Higher income inequality associated with lower intergenerational mobility







Maximising Capabilities and Control

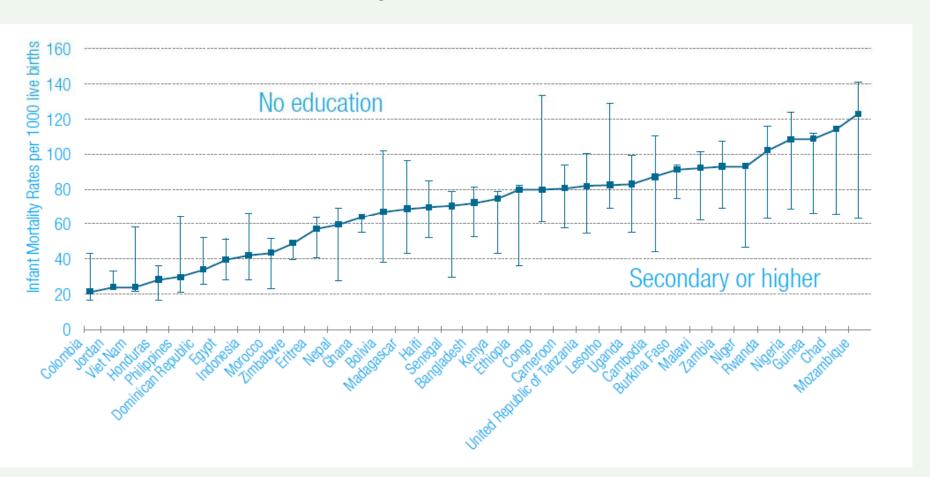


The Problem we all live with (1964) Norman Rockwell





Inequity in infant mortality rates between countries and within countries by mother's education







Total Fertility rate (births per woman) according to mother's education

Country	No	Primary	Secondary	Overall
	education		or higher	
Bangladesh	3.0	2.9	2.5	2.7
India	3.6	2.6	2.1	2.7
Ethiopia	6.1	5.1	2.0	5.4
Nigeria	7.3	6.5	4.2	5.7

UCL Institute of Health Equity



Proportion of women agreeing that it is acceptable for a husband to beat his wife if she refused to have sex with him

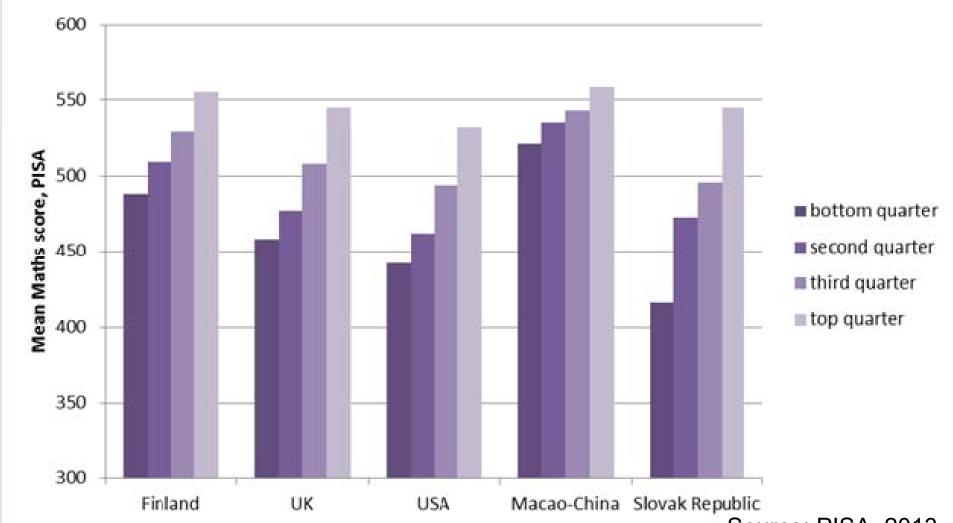
Country	Year	Total	No	Primary	Secondary or
		Per cent	education	Per cent	higher
			Per cent		Per cent
Mali	2001	73.5	75.8	74.5	51.6
	2006	56.8	59.9	53	37.5
Ethiopia	2000	50.9	56.2	44.8	17.1
	2005	44.3	51	40.4	14.5
	2011	38.6	48.9	32.8	11

Source: Data from DHS

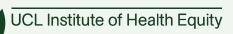




Within country maths results by quarters of ESCS (economic social and cultural status), PISA, 2013

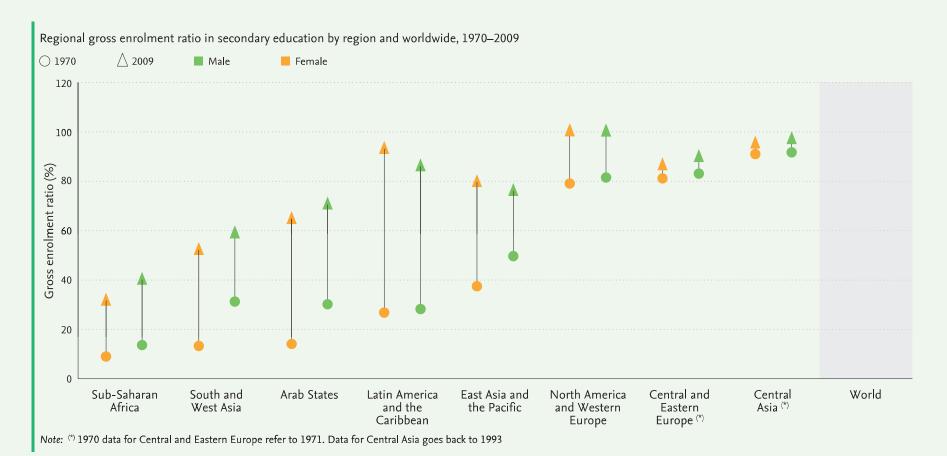


Source: PISA, 2013





Upward trend in secondary Gross Enrolment Ratios seen in all regions and for both sexes







Create Fair Employment and Good work



The Laundresse s (1901) by Abram

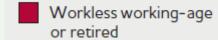




6.7 million of the 13 million people in poverty are in working households, UK 2011/12



Source: Households Below Average Income, DWP; the data is for the UK









Ensure a healthy Standard of Living







Human development index values and previous public expenditures

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Log of public expenditure on health and education per capita, 2000

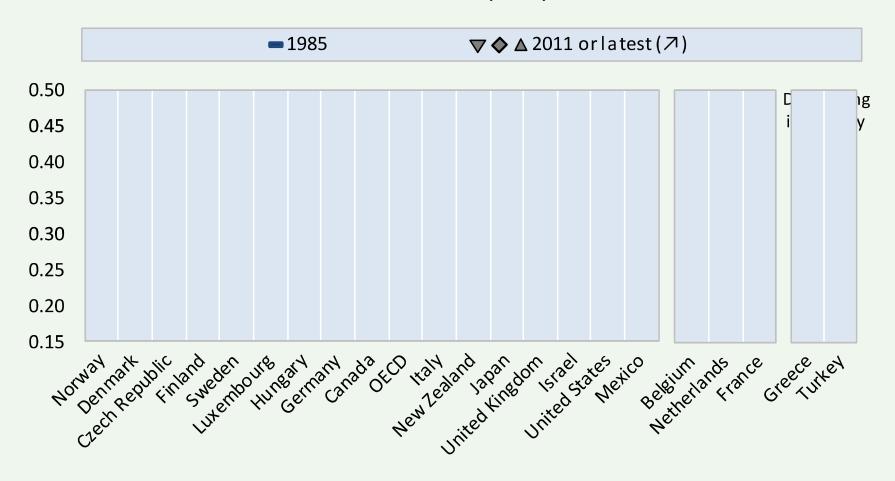
Source: UNDP 2013





Income inequality increased in most OECD countries

Gini coefficients of income inequality, mid-1980s and 2011/12



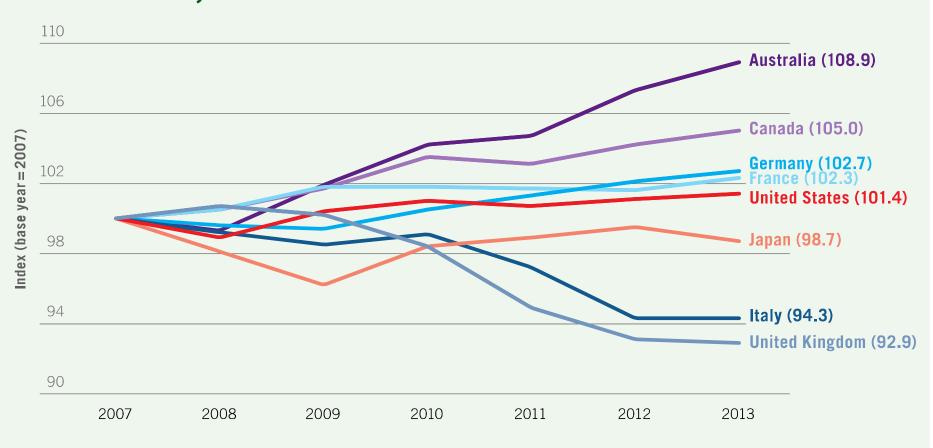
Note: Incomes refer to household disposable income, adjusted for household size.

Source: OECD Income Distribution Database (http://oe.cd/idd).





Average real wage index for developed G20 countries, 2007-13

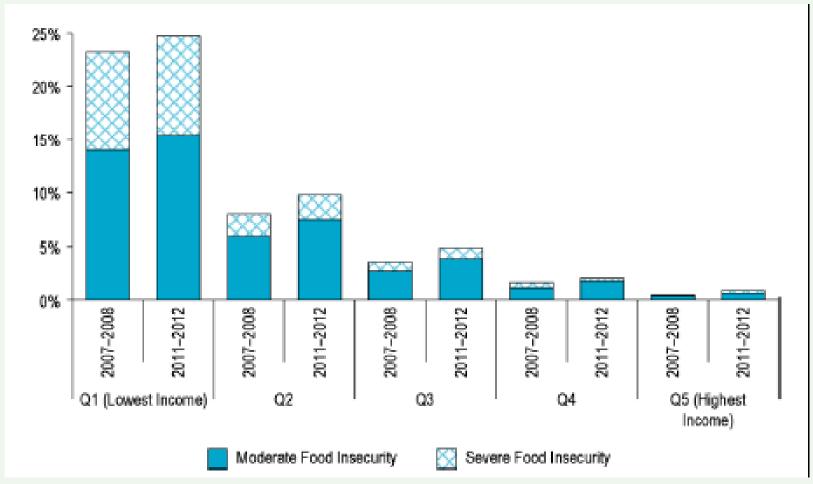


Source: ILO Global Wage Database. Data accessible at: www.ilo.org/gwr-figures





Household Food Insecurity Prevalence Rate, by Income Quintile, Canada, 2007–2008 to 2011–2012



Trends in Income-Related Health Inequalities in Canada (Nov. 2015)





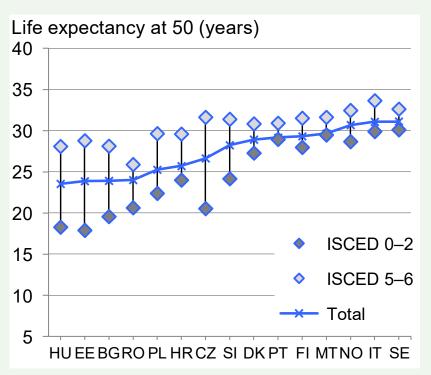
Growing old healthily



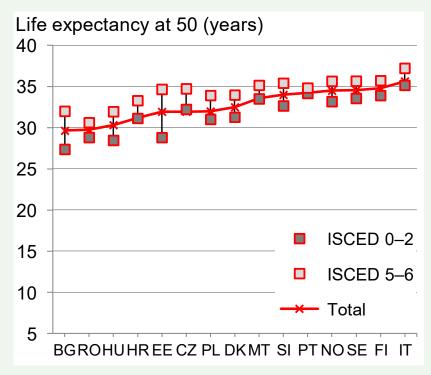


(b) Life expectancy at age 50

Men



Women



Countries are ranked by life expectancy at the specified age of the sex-specific total population. ISCED 0–2: pre-primary, primary and lower secondary education. ISCED 4–6: tertiary education.

Source: data from Eurostat 2012





Suicide among Indian Farmers

- Every half an hour an Indian farmer commits suicide, in excess of 16,000 per year.
- Among cotton farmers: 270,000 suicides since 1995. Three times the rate for all India
- US cotton farmers received \$3 billion in subsidies in 2008-9
- Removing US subsidies would allow world price of cotton to rise 6-14%





III health prevention



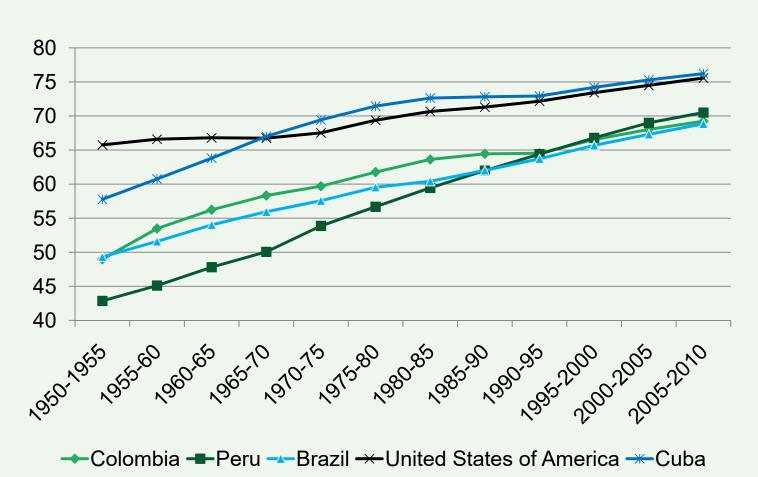


Organisation of hope





Male life expectancy at birth: Colombia, Peru, Brazil, USA, Cuba

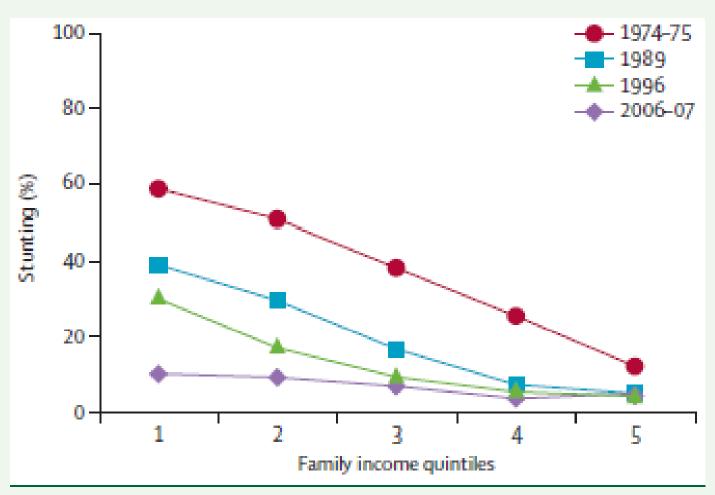


UN World Population Prospects: The 2012 Revision





Prevalence of stunting by family income and year of survey: Brazil



Source: Victora et al 2011 citing Monteiro et al 2010

Summer School: Social Determinants of Health 4th July – 8th July 2016



For further information please email: e.poole@ucl.ac.uk

http://www.ucl.ac.uk/summer-school-social-determinants-health

Twitter: #UCLSDoH





The Health Gap

Professor Sir Michael Marmot
@MichaelMarmot
www.instituteofhealthequity.org

