Inequities in Healthy Longevity
A Framework

Michael Marmot

@MichaelMarmot
www.instituteofhealthequity.org

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Why treat people and send them back to the conditions that made them sick?
Life Expectancy Men and Women, 1960-2015
US Life Expectancy – year of birth

MEN
Life expectancy at age 50

Richest 10%

Middle 50%

Poorest 10%

Year of birth

1920 1930 1940 1950

70 75 80 85 90
US Life Expectancy – year of birth

WOMEN
Life expectancy at age 50

Richest 10%

Middle 50%

Poorest 10%

Year of birth

1920 1930 1940 1950

90 85 80 75 70
The mind is gateway by which social determinants affect ill-health.

• Mental illness and well-being.
• Psychosocial pathways to physical illness
  • Behaviours
  • Stress pathways
...but rising mental disorder Singapore

Changes in Lifetime Mental Disorder Prevalence Rates (SMHS 2010 vs. SMHS 2016)

- Bipolar Disorder: 1.2% (SMHS 2010) to 1.6% (SMHS 2016)
- Generalised Anxiety Disorder: 0.9% (SMHS 2010) to 1.6% (SMHS 2016)
- Comorbidity: 2.5% (SMHS 2010) to 3.5% (SMHS 2016)
- OCD: 3.0% (SMHS 2010) to 3.6% (SMHS 2016)
- Alcohol Abuse: 3.1% (SMHS 2010) to 4.1% (SMHS 2016)
- Major Depressive Disorder: 5.8% (SMHS 2010) to 6.3% (SMHS 2016)

Source: Institute of Mental Health
Life expectancy and disability-free life expectancy (DFLE) at birth, males by neighborhood deprivation, England, 1999–2003 and 2009-2013
Social inequalities in cardiovascular deaths at ages 45 - 64: Porto Alegre, Brazil

Source: Bassanesi, Azambuja & Achutti, Arq Bras Cardiol, 2008
Report of Commission of the Pan American Health Organization on Equity and Health Inequalities in the Americas
‘Overcoming poverty is not a gesture of charity. It is an act of justice. It is the protection of fundamental human rights, the right to dignity and a decent life.’

Nelson Mandela, London, 2005
Conceptual framework

INTERSECTIONALITY: SOCIAL AND ECONOMIC INEQUITIES, GENDER, SEXUALITY, ETHNICITY, DISABILITY, MIGRATION

STRUCTURAL DRIVERS
- Political, Social, Cultural, and Economic Structures
- Natural Environment, Land, and Climate Change
- History and Legacy, Ongoing Colonialism, Structural Racism

CONDITIONS OF DAILY LIFE
- Early Life and Education
- Working Life
- Older People
- Income and Social Protection
- Violence
- Environment and Housing
- Health Systems

HEALTH EQUITY AND DIGNIFIED LIFE

TAking ACTION
- Governance
- Human Rights

Life expectancy at birth by gross domestic product, 2016 or latest
Structural drivers

Inequities in:
- Power
- Money
- Resources

Source: iStock, by Getty Images, 2019
Structural drivers

1. Equity in political, social, cultural, and economic structures

Source: iStock, by Getty Images, 2019
Absolute changes to Gini coefficient through direct social spending and in-kind transfers, Latin America

Source: Economic Commission for Latin America and the Caribbean (ECLAC)
Share of total income going to top 1%

Source: World Wealth and Income Database, via Our World in Data
Steady decline in percentage of children earning more than their parents

Mean Rates of Absolute Mobility by Cohort

Source: Chetty et al., “The fading American dream: Trends in absolute income mobility since 1940”, DB Global Research
US Tax rates by income

Saez and Zucman New York Times Oct 7 2019
US Tax rates by income

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US Tax rates by income

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US Tax rates by income

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Change in effective tax rates 1962-2018 USA

- Bottom 50%
- Middle 40%
- Top 10%
- Top 1%
- Top 0.1%
- Top 0.01%
- Richest 400

Data points:
- Bottom 50%: 22.5% to 24.2% to 27.6%
- Middle 40%: 25.1% to 33.2% to 43.1%
- Top 10%: 29.0% to 30.1% to 51.1%
- Top 1%: 31.4% to 53.6%
- Top 0.1%: 29.4%
- Top 0.01%: 54.4%
- Richest 400: 23.0%
Tax rates in UK at 35%

But not high internationally

<table>
<thead>
<tr>
<th>Country</th>
<th>Tax Rate</th>
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<tbody>
<tr>
<td>France</td>
<td>35%</td>
</tr>
<tr>
<td>Denmark</td>
<td>35%</td>
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<tr>
<td>Belgium</td>
<td>35%</td>
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<td>Sweden</td>
<td>35%</td>
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<td>Finland</td>
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<td>Italy</td>
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<td>Greece</td>
<td>35%</td>
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<td>Netherlands</td>
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<td>Luxembourg</td>
<td>35%</td>
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<tr>
<td>Norway</td>
<td>35%</td>
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<td>Germany</td>
<td>35%</td>
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<td>Portugal</td>
<td>35%</td>
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<tr>
<td>Poland</td>
<td>35%</td>
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<tr>
<td>Spain</td>
<td>35%</td>
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<tr>
<td><strong>UK</strong></td>
<td>35%</td>
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<tr>
<td>Canada</td>
<td>35%</td>
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<tr>
<td>New Zealand</td>
<td>35%</td>
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<tr>
<td>Japan</td>
<td>35%</td>
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<tr>
<td>Switzerland</td>
<td>35%</td>
</tr>
<tr>
<td>Australia</td>
<td>35%</td>
</tr>
<tr>
<td>USA</td>
<td>35%</td>
</tr>
<tr>
<td>Ireland</td>
<td>35%</td>
</tr>
</tbody>
</table>

OECD average

**Tax revenues as a share of national income, 2017** Source: OECD Revenue Statistics
2. Natural environment, climate change, and relationships to land

Source: iStock, by Getty Images, 2019
Energy generation mix, Central America 2016

Source: Economic Commission for Latin America and the Caribbean (ECLAC)
Structural drivers

3. Health equity impacts of:
   • ongoing colonialism
   • structural racism

Source: iStock, by Getty Images, 2019
Population 12 to 17 not attending secondary school, by sex, Indigenous identity and place of residence, Latin America, 2014

Percent population aged 12-17

Source: Economic Commission for Latin America and the Caribbean (ECLAC)
Conditions of daily life

Source: iStock, by Getty Images, 2019
Conditions of daily life

4. Equity from the start

Source: iStock, by Getty Images, 2019
Pre-primary attendance, by lowest and highest income quintile, selected countries in LAC, 2014

Source: Economic Commission for Latin America and the Caribbean (ECLAC)
Impact of the Aboriginal Head Start in urban and northern communities on three skill areas, Canada, 2012

Source: Public Health Agency of Canada, 2012
‘Bolsa Familia’ coverage and odds of under 5 mortality Brazil

Source: Rasella et al Lancet 2013
neonatal mortality, suicide 0-19, mental health 11-15, drunkenness 11-15, fertility 15-19
Conditions of daily life

5. Decent work

Source: iStock, by Getty Images, 2019
Changes in informality rates across selected Latin American countries, 2000–2010

Source: Haanwinckel D, et al. 2017
Conditions of daily life

6. Dignified life at older ages

Source: iStock, by Getty Images, 2019
Percent of people over the retirement age who receive a contributory social security pension, LAC, 2010

Source: ECLAC, 2010
Conditions of daily life

7. Income and social protection

Source: iStock, by Getty Images, 2019
Median % of disposable income used up if Eatwell guide was spent,

<table>
<thead>
<tr>
<th>Income Decile</th>
<th>England</th>
<th>Scotland</th>
<th>Wales</th>
<th>NI</th>
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<tr>
<td>1</td>
<td>74.1</td>
<td>67.6</td>
<td>65.5</td>
<td>68.2</td>
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<tr>
<td>2</td>
<td>28.3</td>
<td>27.8</td>
<td>28.9</td>
<td>28.5</td>
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<td>3</td>
<td>21.2</td>
<td>20.4</td>
<td>27</td>
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<td>4</td>
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<td>19.1</td>
<td>18</td>
<td>19.1</td>
<td>19</td>
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<tr>
<td>6</td>
<td>15.9</td>
<td>15.6</td>
<td>14.9</td>
<td>16.2</td>
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<tr>
<td>7</td>
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<td>13.5</td>
<td>14</td>
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<td>8</td>
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<td>9</td>
<td>9.4</td>
<td>9</td>
<td>10.9</td>
<td>10.3</td>
</tr>
<tr>
<td>10</td>
<td>6.3</td>
<td>6.5</td>
<td>6.6</td>
<td>7.4</td>
</tr>
<tr>
<td>All households</td>
<td>16.5</td>
<td>16.6</td>
<td>18.5</td>
<td>17.3</td>
</tr>
</tbody>
</table>

Affordability of the UK’s Eatwell Guide, Scott, Sutherland & Taylor, 2018
Conditions of daily life

8. Reducing violence

Source: iStock, by Getty Images, 2019
Ten countries in LAC with highest homicide rates, per 100,000 population, 2017

1. El Salvador
2. Jamaica
3. Venezuela (BR)
4. Honduras
5. Brazil
6. The Bahamas
7. St. Vincent and the Grenadines
8. Trinidad and Tobago
9. Belize
10. Guatemala

Source: World Bank database. World Development Indicators, 2019
Trends in age-standardized homicide rates for men and women aged 15-64, Colombia, 1992-2015

Source: Vallejo K et al. 2018
Rates of intimate partner violence against women, across the whole lifetime, selected countries in the Americas, 2014

Source: OECD, Violence against women
Conditions of daily life

9. Environment and housing conditions

Source: iStock, by Getty Images, 2019
Mortality rate attributed to household and ambient air pollution, 2016

Source: World Bank database. World Development Indicators, 2019
Conditions of daily life

10. Health systems

Source: iStock, by Getty Images, 2019
Governance

Source: iStock, by Getty Images, 2019
Governance

11. Governance arrangements

Source: iStock, by Getty Images, 2019
Governance

12. Human rights

Source: iStock, by Getty Images, 2019
• “a wellbeing approach can be described as enabling people to have the capabilities they need to live lives of purpose, balance, and meaning for them.”
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Amartya Sen?
• “a wellbeing approach can be described as enabling people to have
the capabilities they need to live lives of purpose, balance, and
meaning for them.”

Amartya Sen?
No