

The 21st Century – the Century of Centenarians

Dr George W. Leeson, Co-Director, Senior Research Fellow, Oxford Institute of
Population Ageing, University of Oxford

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Oxford Institute of Population Ageing



I. Life expectancy in Latin America and the Caribbean

Life expectancy today is on average across the 34 countries 5.8 years higher for women...the gap has widened since 1950 from 3.3 years on average: life expectancy has increased more for women in the last 60 years

UN World Population Prospects 2010 Revision

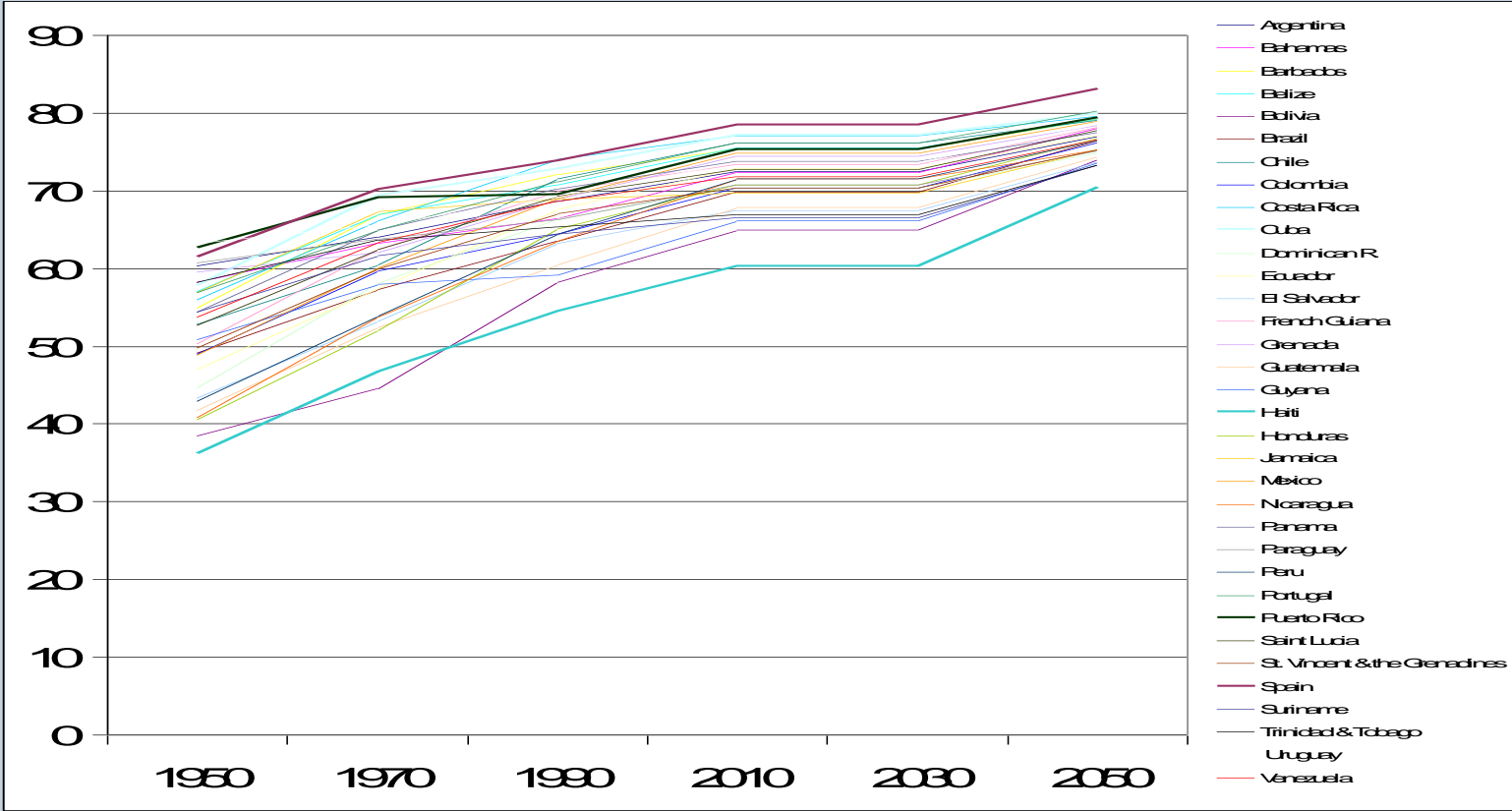
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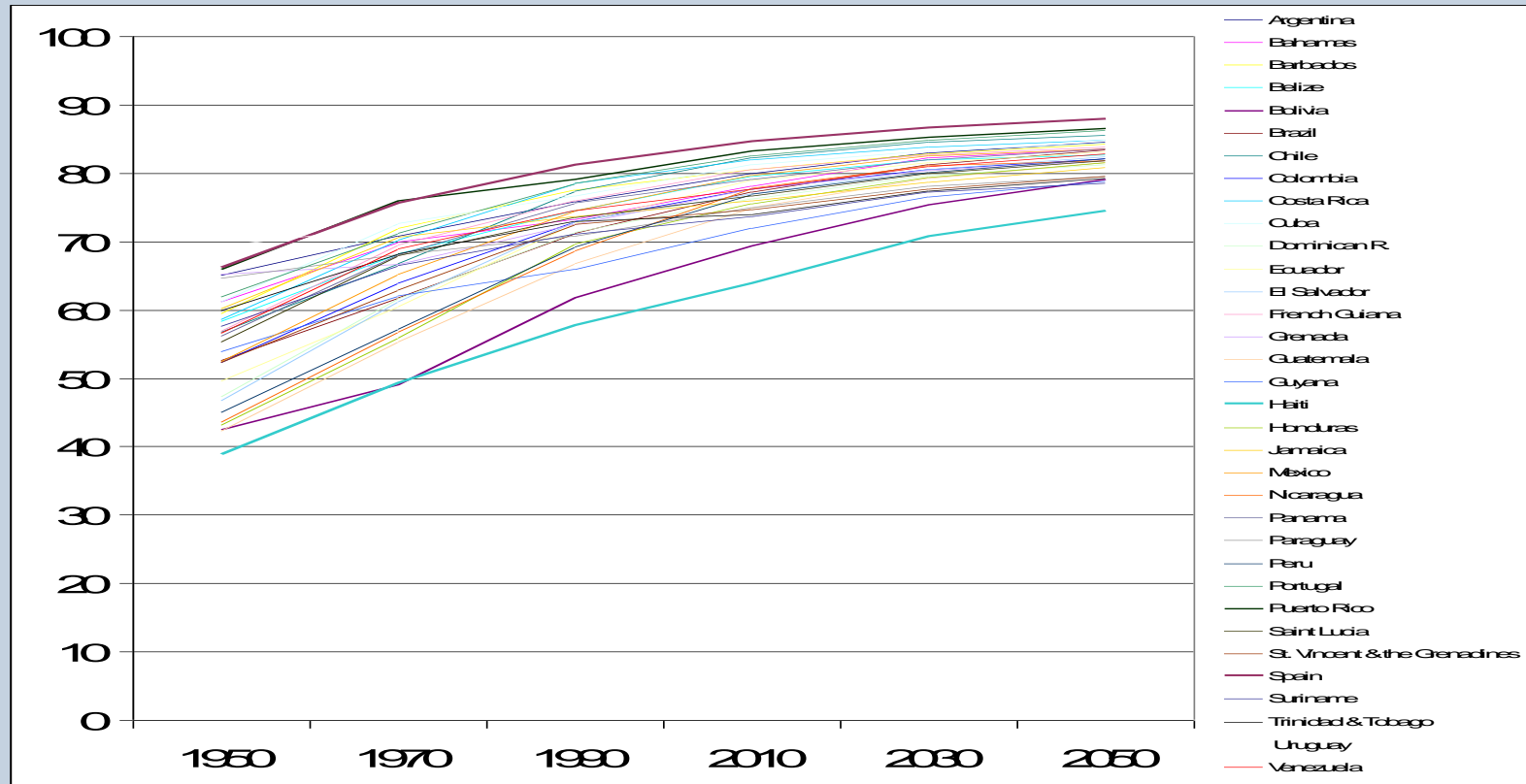
Today, the gender gap is widest in El Salvador (9.5 years) and narrowest in Grenada (3.2 years)

UN World Population Prospects 2010 Revision

I. Life expectancy in Latin America and the Caribbean. Male life expectancy at birth 1950-2050



I. Life expectancy in Latin America and the Caribbean. Female life expectancy at birth 1950-2050



II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for males:

Costa Rica leads the way in Latin America with 68 years at birth (10.5% of life expectancy in ill-health)

WHO, World Health Statistics 2010

II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for males:

Costa Rica leads the way in Latin America with 68 years at birth (10.5% of life expectancy in ill-health)

Cuba leads the way in the Caribbean with 68 years at birth (10.5% of life expectancy in ill-health)

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II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for males:

Bolivia brings up the rear in Latin America with 57 years at birth (12.3% of life expectancy in ill-health)

WHO, World Health Statistics 2010

II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for males:

Bolivia brings up the rear in Latin America with 57 years at birth (12.3% of life expectancy in ill-health)

Guyana brings up the rear in the Caribbean with 52 years at birth (16.1% of life expectancy in ill-health)

WHO, World Health Statistics 2010

II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for females:

*Chile leads the way in Latin America with 72 years at birth
(12.1% of life expectancy in ill-health)*

WHO, World Health Statistics 2010

II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for females:

*Chile leads the way in Latin America with 72 years at birth
(12.1% of life expectancy in ill-health)*

*Cuba leads the way in the Caribbean with 71 years at birth
(10.1% of life expectancy in ill-health)*

WHO, World Health Statistics 2010

II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for females:

Bolivia brings up the rear in Latin America with 59 years at birth (13.2% of life expectancy in ill-health)

WHO, World Health Statistics 2010

II. Healthy life expectancy in Latin America and the Caribbean

In terms of healthy life expectancy (HALE) for females:

Bolivia brings up the rear in Latin America with 59 years at birth (13.2% of life expectancy in ill-health)

Guyana/Haiti bring up the rear in the Caribbean with 55 years at birth (19.1% / 14.1% of life expectancy in ill-health)

WHO, World Health Statistics 2010

III. The potential for future increases in life expectancy

As an example of the potential impact of simple incremental change it has been estimated that the elimination of all forms of cancer, cardiovascular disease and diabetes as causes of death would add about 12 years to current life expectancy in the USA

(Olshansky et al 2002).

III. The potential for future increases in life expectancy

“... the possibilities of lengthening life appear practically unlimited”

Regelson (1996)

“... the only practical limit to human life span is the limit of human technology” *Rose (1996)*

“... the cure for ageing...is no longer science fiction” *De Grey (2003)*

“... the 21st century will be the century of centenarians...” *Leeson (2009)*

IV. The Century of Centenarians

Centenarians – 1000s

	2010	2050	2100
World	292	3224	17795
More developed	199	1946	6634
Less developed	93	1279	11161
LA & the Caribbean	44	521	3220
Brazil	18	224	1010
Chile	2	29	121
Mexico	7	85	698
Cuba	2	20	64
Bolivia	0	1	19

IV. The Century of Centenarians

In the United Kingdom:

More than 10 million alive in the UK today can expect to live to 100 years old – 17% of the current population

3 million are currently aged under 16 years

5.5 million are currently aged 16-50 years

1.3 million are currently aged 51-65 years

and

Almost 1 million are already aged over 65 years

IV. The Century of Centenarians

Verified highest age of death in England & Wales

1968-1972	111
1973-1977	112
1978-1982	112
1983-1987	114
1988-1992	113
1993-1997	115

IV. The Century of Centenarians

Supercentenarians?

People aged 110+

Highest ages in England & Wales 1968-1997 were in the range 111-115 years.

If death rates at very high ages fall in line with official projections, then in the 2080s the highest ages will be 116-123 years – and this is the bumper 1966 cohort.

By this time, there will be more than 8,000 supercentenarians in the UK.

V. Data sources

UN World Population prospects 2010 revision

*CELADE: Centro Latinoamericano y Caribeño de Demografía, División de Población de la CEPAL:
Revisión 2008. Base de datos de población*

*D. POB. N.U.: División de Población de las Naciones Unidas: Panorama de la Población Mundial:
Revisión 2008. Base de datos de población*

United Nations, Demographic Yearbook, various issues, New York

ILO, Social Security Pension-Development and Reform, Geneva 2002

*United Nations, Department of Economic and Social Affairs, Population Division. World Marriage
Data 2008*

*United Nations, Department of Economic and Social Affairs, Population Division. World Fertility
Data 2008*

United Kingdom, Office of National Statistics

United Kingdom, Department for Work and Pensions