

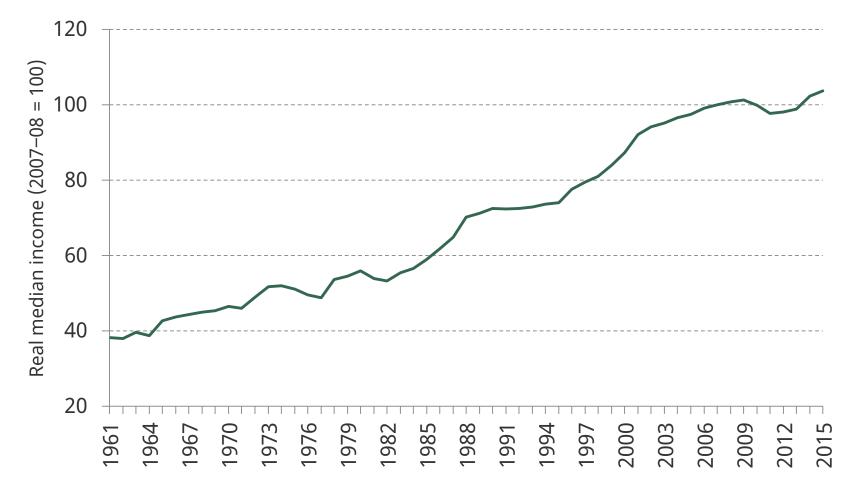
Public economics: inequality and poverty

Agnes Norris Keiller

agnes_nk@ifs.org.uk

Average income at an all-time high...





Source: Authors calculations using the Family Expenditure Survey and Family Resources Survey, various years.

... but inequality a prominent concern





"we need to act to address the deeply felt sense of economic inequality that has emerged in recent years"

Theresa May at Davos World Economic Forum, January 2017

"we need to rebuild the economy so that no one and no community is left behind"

Jeremy Corbyn at Labour regional economic conference, February 2017





"Our economic model is broken... the gap between the richest and poorest parts of the country is significant and destabilising"

Justin Welby writing in the Financial Times, September 2017

Inequality debate: what economists bring



i. Measurement

Understand merits of different measures

ii. Causes

Identify mechanisms that have driven changes in inequality and poverty

iii. Responses

Contribute to debates about appropriate policy objectives

Assess policy effectiveness

This presentation



i. Inequality

Measures

Trends and causes

ii. Poverty

Measures

Trends and causes

iii. Responses (time permitting)

Policy levers: tax credits and minimum wages

Inequality

Inequality of what?



Opportunity or outcomes?

Lecture will focus on outcomes

Inequality of outcomes can feed through to inequality of opportunity

For example through early child development and health (Conti 2013)

Inequality of what?



Outcome of interest is welfare

... but measuring this is clearly challenging.

Most feasible approach uses annual income:

Net of taxes and transfers

Measured at the household level (assumes income sharing)

Adjusted for household composition (equivalisation)

Lifecycle economic model highlights important caveats:

Income ≠ consumption

Implies consumption a better indicator of welfare but measurement remains challenging

Annual income ≠ lifetime income

 Implies annual income inequality may differ from permanent income inequality (more on this later)

What measure of inequality?



Measure	©	8
Percentile ratios e.g. 90:10	 Easily interpretable Insensitive to extremes (which may be driven by measurement error) 	 Cannot be decomposed Insensitive to extremes Does not satisfy "Pigou-Dalton Transfer sensitivity"
Gini coefficient	 Captures changes across the entirety of the income distribution 	Cannot be (additively) decomposedSensitive to extremes
Top 1% Share	Easily interpretable	Cannot be decomposedV sensitive to extremesDoes not satisfy "Pigou-Dalton Transfer sensitivity"
G-E measures e.g. GE0 a.k.a mean log deviation	 Captures changes across the entirety of the income distribution Can be additively decomposed 	 Sensitive to extremes – (GE0 sensitive to bottom of distribution, GE2 sensitive to top)

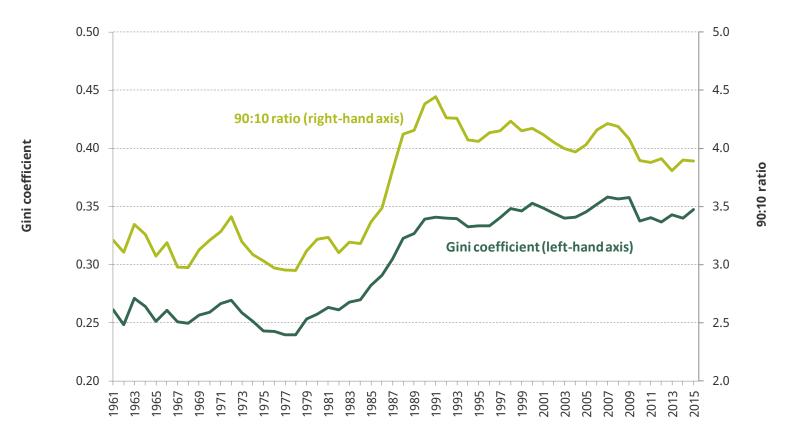
British income inequality: higher or lower?



Period	90:10 ratio	Gini
2015	3.9	0.35
1995	4.1	0.33
1965	3.1	0.25

British income inequality: the last 50 years

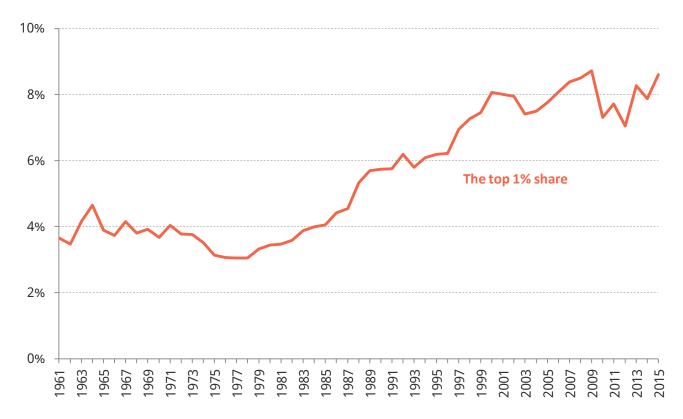




Note: Incomes have been measured net of taxes and benefits but before housing costs have been deducted. Years refer to calendar years up to and including 1992 and to financial years from 1993–94 onwards. Source: Figure 3.6 of Cribb et al. (2017)

British income inequality: the last 50 years





Note: Incomes have been measured net of taxes and benefits but before housing costs have been deducted. Years refer to calendar years up to and including 1992 and to financial years from 1993–94 onwards. Source: Figure 3.7 of Cribb et al. (2017)

British income inequality: the last 50 years



What caused the 1980s surge?

Key driver was increase in returns to skill (education) as rising demand for skilled workers in the 1980s outstripped supply (Goldin & Katz 2007)

Large reductions in top income tax rates also contributed (Adam & Browne 2010)

Why has the 90:10 fallen over the last 20 years?

Tax and benefit reforms (increased incomes of pensioners and non-workers)

Labour market trends of falling worklessness and poor earnings growth

Why has the top 1% continued to rise?

High remuneration in Financial sector (Bell & Van Reenen 2014)

Income from investments and rising stock markets (Brewer et al. 2008)

Lifetime income inequality: methods



Various ways of overcoming measurement problem

i. Simulation approach:

e.g. Levell et al. (2017)

ii. Consumption data:

e.g. Blundell & Preston (1998)

iii. Measure lifetime income:

e.g. Guvenen et al. (2017)

Lifetime income inequality: findings



Levell et al. (2017):

Lifetime income inequality substantially lower than single-year inequality Indicates a lot of inequality is temporary and reflects:

- The stage of an individual life (e.g. differences in family structure)
- Transitory shocks (e.g. spells of unemployment)

Blundell & Preston (1998):

Not all of 1980s inequality surge was due to a rise in permanent inequality But permanent income inequality did rise as a result of:

- i. An aging population
- ii. Younger cohorts experiencing greater levels of permanent income inequality than older cohorts at a given age

Inequality trends and determinants: summary



Defining feature of last 5 decades is 1980s inequality surge

Largely due to impact of changing returns to skills on earnings inequality

More recent trends differ between measures

Difference driven by increase in top 1% share

Lifetime income inequality

Research suggests different to snapshot inequality in terms of both levels (lower) and trends (increased in the 1980s but by less than snapshot)

Poverty

How to measure poverty?



Ideal measure reflects prevalence of very low welfare

Low welfare can have many causes e.g. social isolation, familial instability, health

But measurement of these is an issue

Standard approach

Focuses on material living standards

Define a threshold below which income is insufficient to achieve "adequate" standard of living (a "poverty line")

Absolute poverty:

Poverty line defined as a fixed level of real income

Current UK definition = 60% of 2010/11 median income

Relative poverty:

Poverty line defined as a fraction of average income

Current UK definition = 60% of median income

How to measure poverty?



Absolute v. Relative:

Absolute poverty lines become irrelevant over time as society's perception of what is an "adequate" standard of living changes

Relative poverty less appropriate for tracking year-to-year changes in poverty (particularly when average income is falling)

Tend to use absolute poverty to examine short-run trends and relative poverty to examine long-run trends

How to measure poverty?



What about housing costs?

Housing is a necessity that is relatively hard to adjust

Focus on income after housing costs are deducted (AHC income) rather than before housing costs are deducted (BHC income)

AHC income closer to disposable income a household can use to maintain living standards

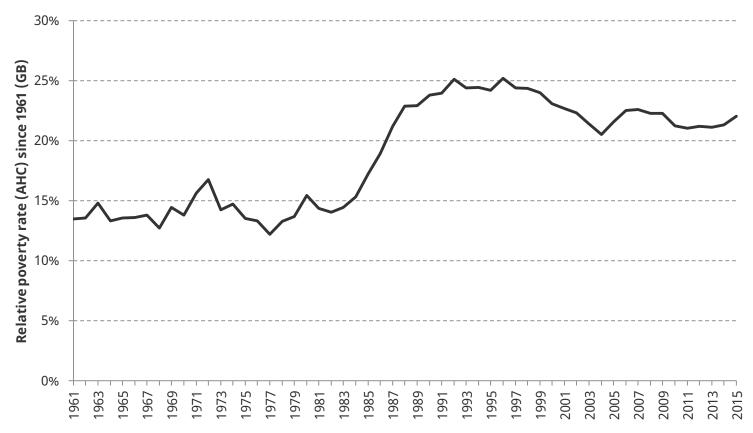
What about duration of poverty?

Relevant if welfare consequences of low income are greater when low income is sustained over several years

"Persistent poverty" defined as being in poverty for several years over a certain period (more on this later)

Poverty in Britain: the last 50 years

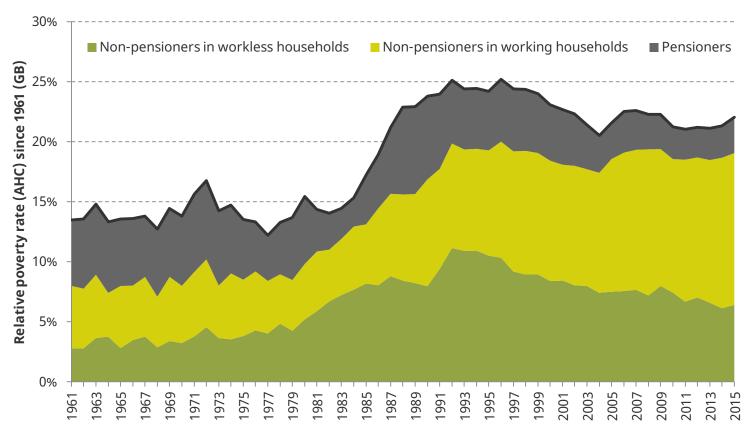




Note: Years refer to calendar years up to and including 1992 and to financial years from 1993–94 onwards. Source: Figure 4.5 of Cribb et al. (2017)

Poverty in Britain: the last 50 years



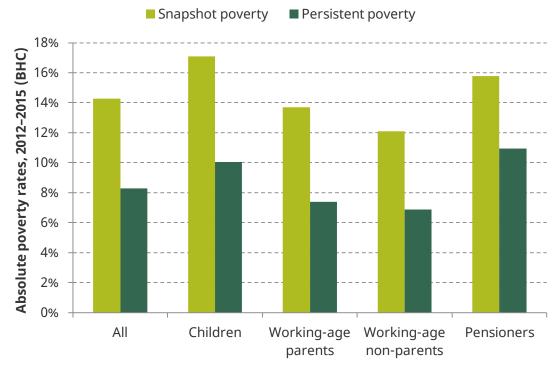


Note: Years refer to calendar years up to and including 1992 and to financial years from 1993–94 onwards. Source: Figure 4.8 of Cribb et al. (2017)

Persistent v. snapshot: poverty rates



Defined as being in (absolute BHC poverty) for at least 3 of the last 4 years



Source: Figure 4.9 of Cribb et al. (2017)

Poverty trends and determinants: summary



Poverty substantially higher than 5 decades ago as large increase in 1980s yet to be fully unwound

Increase in the 80s linked to surge in inequality

Those in poverty today are:

- far less likely to be pensioners than in previous decades
- and far more likely to be children or adults in working households

Trends driven by welfare reforms and declining worklessness combined with poor earnings growth

Persistent poverty considerably lower than snapshot poverty

Indicates very low income is short-lived for many

The policy debate



Prominent policies aimed at changing the income distribution:

i. Fiscal redistribution e.g. Tax credits



Tax credits:

Focus on reducing poverty rather than tackling inequality

"Our historic aim will be for ours to be the first generation to end child poverty"





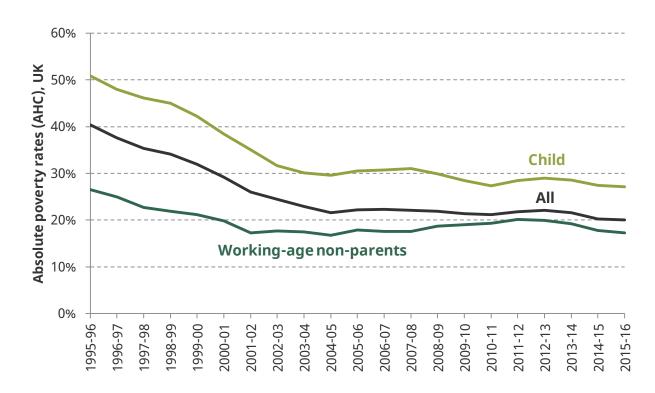
Tax credits:

Focus on reducing poverty rather than tackling inequality

Resulted in large increases in welfare spending targeted at families with children



Tax credits:



Source: Author's calculations using the Family Resources Survey, various years.



Tax credits:

Focus on reducing poverty rather than tackling inequality

Resulted in large increases in welfare spending targeted at families with children

Drove steep reductions in absolute child poverty

Increased financial work incentives for lone parents

But reduced them for many potential second earners

Came at a large cost to the exchequer (accounted for 13% of GB welfare spending in 2015-16)



Prominent policies aimed at changing the income distribution:

- i. Fiscal redistribution e.g. Tax credits
- ii. Wage regulation e.g. National Minimum Wage



National Minimum Wage:

"National Living Wage" rebrand legislates substantial rises in wage floor; Labour has proposed an even higher rate



Note: Series show real minimum wages for employees aged 25 and over, 1999–2017 and under Conservative and Labour plans for 2020.

Source: Cribb, Joyce & Norris Keiller (2017)



National Minimum Wage:

"National Living Wage" rebrand legislates substantial rises in wage floor; Labour has proposed an even higher rate

Substantial evidence that UK minimum wage has boosted worker pay (e.g. Dolton et al. 2011; Metcalf 2008)

Biggest gains accrue to middle-income households as:

- many minimum wage workers are second earners
- lowest-income households often contain no one in work
- low-income working households often lose means-tested benefits as pay rises

Little evidence to date of any adverse employment effects but past research has limited external validity given magnitude of current proposals

Policy levers: summary



Policy levers:

Tax credits contributed to large reductions in child poverty

- partly by increasing financial work incentives
- but disincentivised work for some and come at a large cost to the exchequer

Minimum wages do boost pay

- but biggest gains accrue to middle-income households rather than those on lowest incomes
- possible that large rises in future may have adverse consequences

References i.



Auten, G., Splinter, D., 2016. Using Tax Data to Measure Long-Term Trends in U.S. Income Inequality. Work in Progress.

Belfield, C., Blundell, R., Cribb, J., Hood, A., Joyce, R., 2017. Two Decades of Income Inequality in Britain: The Role of Wages, Household Earnings and Redistribution. *Economica* 84, 157–179.

Bell, B., Van Reenen, J., 2014. Bankers and Their Bonuses. The Economic Journal 124, F1-F21.

Blundell, R., Preston, I., 1998. Consumption Inequality and Income Uncertainty. *The Quarterly Journal of Economics* 113, 603–640.

Brewer, M., Wren-Lewis, L., Sibieta, L., 2008. Racing away? Income inequality and the evolution of high incomes. Institute for Fiscal Studies.

Browne, J., Adam, S., 2010. Redistribution, work incentives and thirty years of UK tax and benefit reform. Working Paper Series. Institute for Fiscal Studies.

Conti, G., 2013. The Developmental Origins of Health Inequality, in: *Health and Inequality*. Emerald Group Publishing Limited, pp. 285–309.

Cribb, J., Hood, A., Joyce, R., Norris Keiller, A., 2017. *Living Standards, poverty and inequality in the UK: 2017*. Report no. R129, London: Institute for Fiscal Studies

Cribb, J., Joyce, R., Norris Keiller, A., 2017. Minimum wages in the next parliament. Institute for Fiscal Studies.

Dolton, P., Bondibene, C.R., Wadsworth, J., 2011. Employment, Inequality and the UK National Minimum Wage over the Medium-Term. *Oxford Bulletin of Economics and Statistics* 74, 78–106.

Furman, J., and Stiglitz, J., 1998. Economic consequences of income inequality. *Proceedings - Economic Policy Symposium - Jackson Hole*, p. 221-263.

References ii.



Goldin, C., Katz, L., 2007. The Race between Education and Technology: The Evolution of U.S. Educational Wage Differentials, 1890 to 2005. National Bureau of Economic Research.

Guvenen, F., Kaplan, G., Song, J., Weidner, J., 2017. Lifetime Incomes in the United States over Six Decades. National Bureau of Economic Research.

Levell, P., Roantree, B., Shaw, J., 2017. Mobility and the lifetime distributional impact of tax and transfer reforms. Working Paper Series. Working Paper Series. Institute for Fiscal Studies.

Metcalf, D., 2008. Why has the British National Minimum Wage had Little or No Impact on Employment? Journal of Industrial Relations 50, 489–512.

Pickett, K., Wilkinson, R., 2009. The Spirit Level: Why Greater Equality Makes Societies Stronger. Bloomsbury Press: New York, Berlin, London

Data acknowledgements:

Department for Work and Pensions, National Centre for Social Research, Office for National Statistics. Social and Vital Statistics Division. (2017). Bespoke Version of the Family Resources Survey, 2005-2016.

Office for National Statistics. (2002). Family Expenditure Survey, 1961-2001. [data collection]. UK Data Service. Retreived from https://discover.ukdataservice.ac.uk/series/?sn=200016

University of Essex. Institute for Social and Economic Research, NatCen Social Research, Kantar Public. (2016). Understanding Society: Waves 1-6, 2009-2015. [data collection]. 8th Edition. UK Data Service. SN: 6614, http://doi.org/10.5255/UKDA-SN-6614-9