Health Equity Research: The Scottish Health Equity Research Unit (SHERU)

Professor Katherine (Kat) Smith Allison Catalano

December 2024

Scottish Health Equity Research Unit

Insights, analysis and action on the socio-economic factors that shape health

What is the Scottish Health Equity Research Unit?

Kat Smith





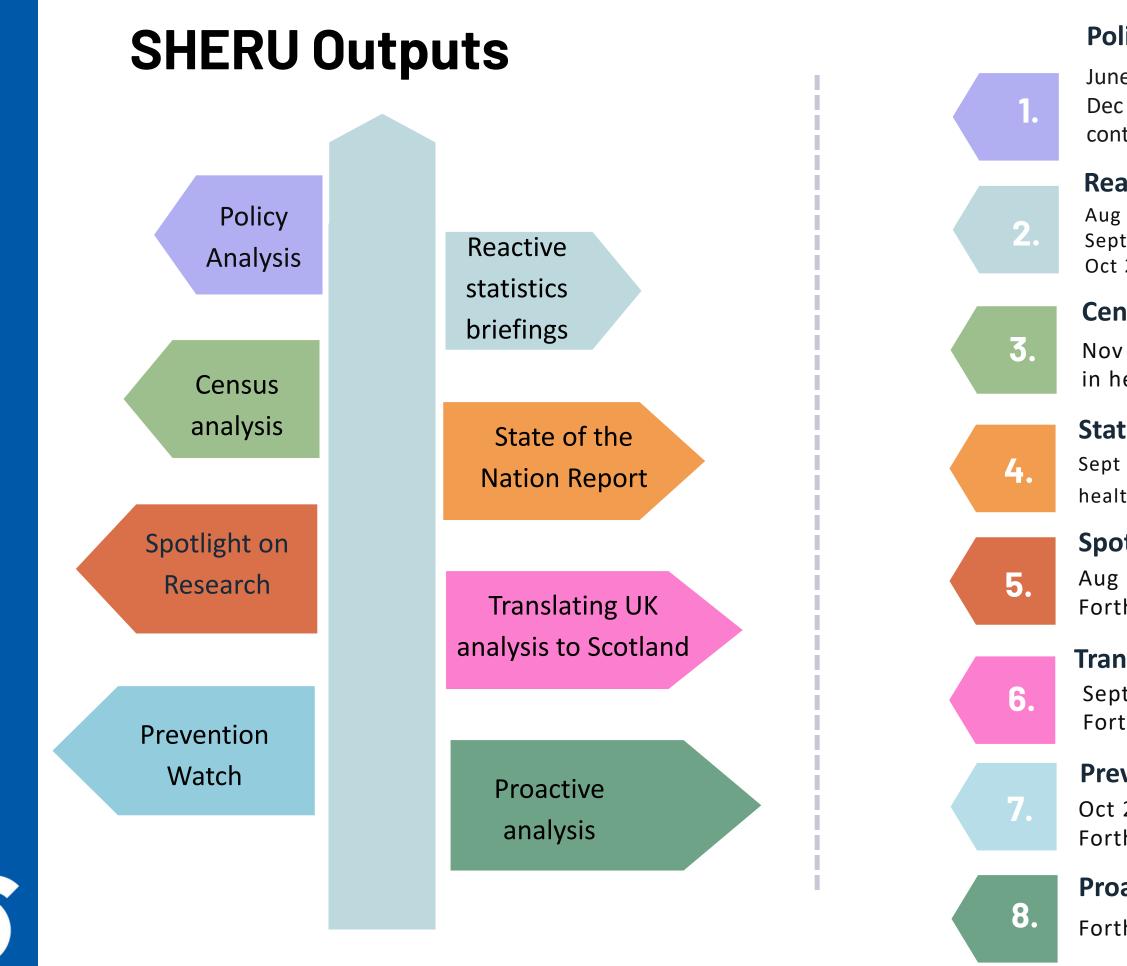
About us

The Scottish Health Equity Research Unit (SHERU) was set up in 2024 to provide insights and analysis on the socio-economic factors that shape health, following a Health Foundation 2022-2023 review.

The unit is a collaboration between the University of Strathclyde's Centre for Health Policy and Fraser of Allander Institute, and is funded by the Health Foundation.







Policy Analysis

June 24: Census Analysis Dec 24 – Jan 25: Analysis of *Housing to 2040*'s potential to contribute to reducing health inequalities

Reactive stats briefings

Aug 24: Educational attainment Sept 24: Alcohol specific deaths Oct 24: Homelessness and Life Expectancy

Census analysis

Nov 24: Analysis of Scotland's census to explore changes in health and socioeconomic inequality since 2011

State of the Nation style annual report

Sept 24: SHERU's annual assessment of progress in tackling health and underpinning socioeconomic inequalities in Scotland

Spotlight on Research

Aug 24: New RCTs of health impacts of cash transfers Forthcoming: Social Murder? (new book)

Translating UK analysis to Scotland

Sept 24: Housing Forthcoming: Disability benefits

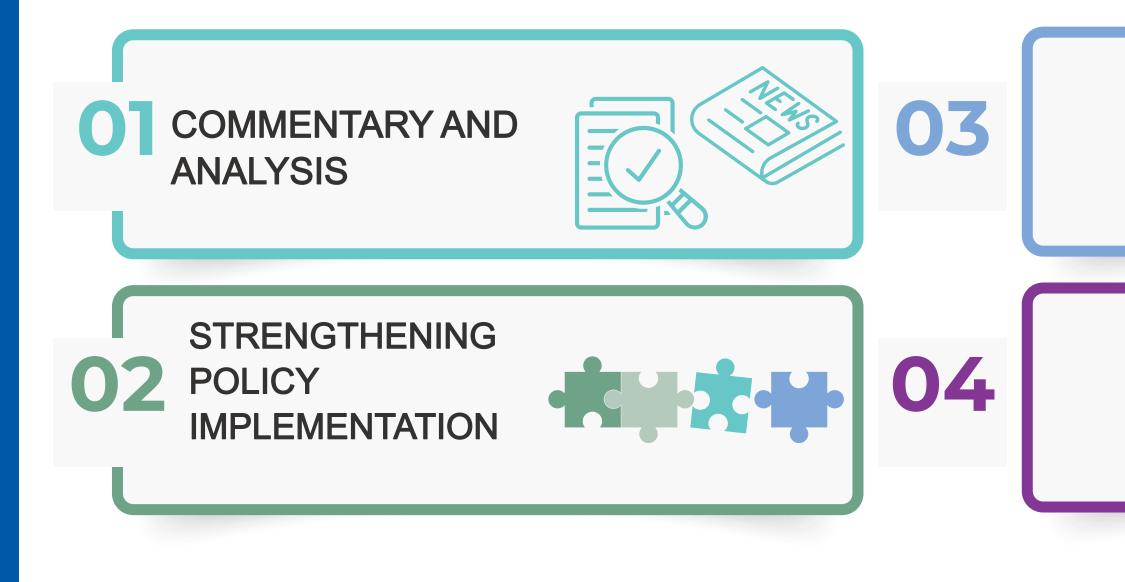
Prevention Watch

Oct 24: Introduction to Prevention Watch Forthcoming: Prevention in the Scottish budget

Proactive Analysis

Forthcoming series (currently considering 15 topics...)

4 key areas of work





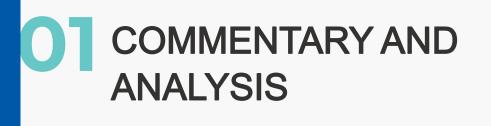
ENHANCING THE EVIDENCE BASE



ENGAGEMENT



Key area of work









Scottish Health Equity Research Unit

2024 Inequality Landscape

Health and Socioeconomic **Divides in Scotland**

> Allison Catalano **Emma Congreve** David Jack **Katherine Smith**

September 2024

This report looks at six topics:

- Trends in health inequality
- Poverty and household income inequality
- Employment lacksquare
- Education
- Housing and homelessness
- Populations of concern: Families with children and Young adult men

The report brings together:

- Changes and outcome gaps in data since 2019
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- Spotlights on relevant policy areas or findings
- Thoughts on how to improve our understanding of trends
- Qualitative research behind the trends



Spotlight on Research

Two new studies on the health impacts of cash transfers

> Katherine Smith August 2024

JAMA | Original Investigation

Effect of Cash Benefits on Health Care Utilization and Health A Randomized Study

Sumit D. Agarwal, MD, MPH, PhD; Benjamin L& Cook, PhD; Jeffrey B. Liebman, PhD

IMPORTANCE Poverty is associated with greater barriers to health care and worse health outcomes, but it remains unclear whether income support can improve health.

DESIGN, SETTING, AND PARTICIPANTS The City of Chelsea, Massachusetts, a low-income community near Boston, randomly assigned individuals by lottery to receive cash benefits. Participants' medical records were linked across multiple health systems. Outcomes were seeseed during the intervention period from November 24, 2020, to August 31, 2021.

NTERVENTION Cash benefits via debit card of up to \$400 per month for 9 months

MAIN OUTCOMES AND MEASURES The primary outcome was emergency department visits. Secondary outcomes included specific types of emergency department visits, outpatient use verall and by speciality. COVID-19 vaccination, and biomarkiers such as cholesteroi levels.

HESULTS Among 2880 individuals who applied for the lottery, mean age was 451 years and 77% were female. The 1746 participants randomized to receive the cash benefits had significantly fewer emergency department visits compared with the control group (217) vs 317.5 emergency department visits per 1000 persons; adjusted difference, ~87.0 per 1000 persons [95% CL, ~160.2 to ~13.8]). This included reductions in emergency department visits related to behavioral health (~21.6 visits per 1000 persons [95% CL, ~40.2 to ~3.1]) and substance use (~12.8 visits per 1000 persons [95% CL, ~53.6 to ~1.1]). The cash benefit had no statistically significant effect on total outpatient visits (424.3 visits per 1000 persons [95% CL, ~186.6 to 967.2]), visits to primary care (~90.4 visits per 1000 persons [95% CL, ~308.1 to 127.2]), or outpatient visits to other subspecialities were higher in the cash benefit pation persons [95% CL, ~18.9 to 349.9]). Outpatient visits to other subspecialities were higher in the cash benefit group compared with the control group (2033) visits per 1000 persons [95% CL, 32.9 to 573.2]), particularly for individuals without a car. The cash benefit had no statistically significant effect on CoVID-19 vaccination, blood pressure, body weight, glycated hemoglobin, or cholesterol level.

CONCLUSIONS AND RELEVANCE In this randomized study, individuals who received a cash benefit had significantly fewer emergency department visits, including those related to behavioral health and substance use, fewer admissions to the hospital from the emergency department, and increased use of outpatient subspecialty care. Study results suggest that policies that seek to alleviate poverty by providing income support may have important benefits for health and access to care.

JAMA. doi:10.1001/jama.2024.E004 Published online July 22, 2024 Author Affiliations: Drision of General Internal Medicine and Prinning Care, Begham and Warnersh Honghita, Boston, Massachausetta (Agarwal), Harvard Medical School, Boston, Masachaustta (Agarwal, Cook); Department of Pupelinty, Carbridge Health Allanco, Carbridge, Nawachaustta (Cook), Harvard Romsely, School, Carbridge, Massachaustta (Liebman), National Boreau of Economic Research, Carbridge, Massachaustta (Liebman), Corresponding Authon: Sami D. Agarwal, MD, MPH, PhO, Division of General Internal Medicine and Prinney Care, Begham and Wornersh Mospiku, 75 Internal Medicine and Prinney Care, Begham and Wornersh Mospiku, 75 Internal Medicine and Prinney Care, Begham and Wornersh Mospiku, 75 Internal Medicine and

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"directly reducing poverty via cash transfers was not effective at improving health outcomes"

"policies that seek to alleviate poverty by providing income support may have important benefits for health and access to care"

NBER WORKING PAPER SERIES

DOES INCOME AFFECT HEALTH? EVIDENCE FROM A RANDOMIZED CONTROLLED TRIAL OF A GUARANTEED INCOME

> Sarah Miller Elizabeth Rhodes Alexander W. Bartik David E. Broockman Patrick K. Krause Eva Vivalt

Working Paper 32711 http://www.nber.org/papers/w32711

NATIONAL BUREAU OF ECONOMIC RESEARCH 1050 Massachusetts Avenue Cambridge, MA 02138 July 2024

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NBER working papers are circulated for discussion and comment purposes. They have not been peer-reviewed or been subject to the review by the NBER Board of Directors that accompanies official NBER publications.

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Key area of work

STRENGTHENING POLICY **IMPLEMENTATION**

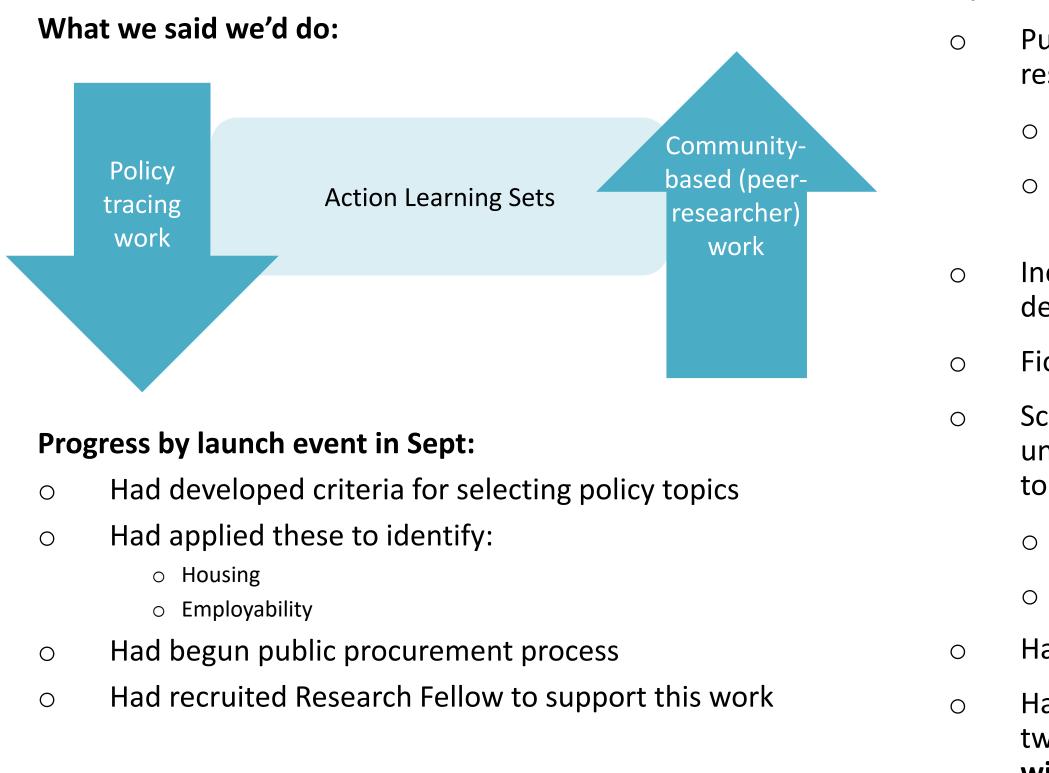






Strengthening Policy Implementation

SHERU definition of 'implementation gap': the gap between policy intent and lived realities (so policy formulation in remit) **Update:**



Public procurement complete and ALS and peerresearcher contracts signed:

Community Renewal Trust (ALS)

Scottish Community Development Centre and Poverty Alliance (Peer-Researcher)

Inception meetings complete. Now finalising ethics & design.

Fiona McHardy commenced in post 1st October

Scoping research and stakeholder engagement undertaken on both topics, especially housing, leading to a more specific focus on:

Housing to 2040

No One left Behind

Have begun national level housing analysis

Have begun approaching local areas (aiming to choose two) and are **really interested to hear from anyone with thoughts on this.**

Key area of work



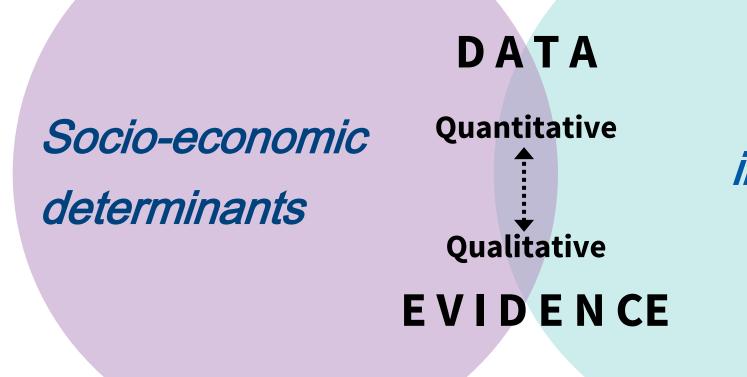




ENHANCING THE EVIDENCE BASE



Enhancing the evidence base



1. Improving accessibility & visibility (e.g. census deep dives)

2. Enriching the data landscape (e.g. exploring potential of personal data stores to support efforts to address data gaps and linkage)

3. **Reaching the feasibility frontier**: how do we get more out of existing data? (e.g. working with data controllers, broadening analysis beyond SIMD)



Key area of work









Teams

Current, fragmented landscape of policy silos in Scotland

Research evidence

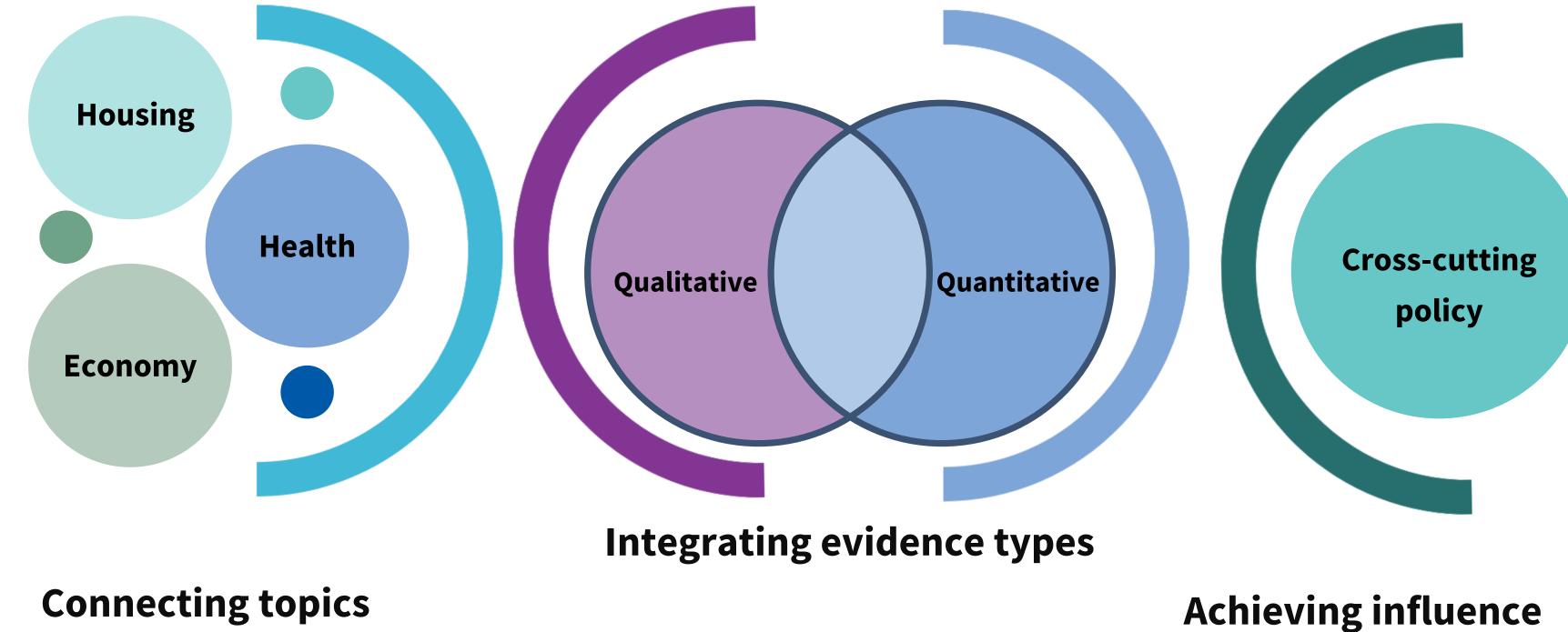
Policy influencing

Employment policy

Local Government Teams



We will aim to connect and integrate evidence, analysis and alliance building to influence cross-cutting policy development & implementation



Commentary and insight

2024 Inequality Landscape

Allison Catalano





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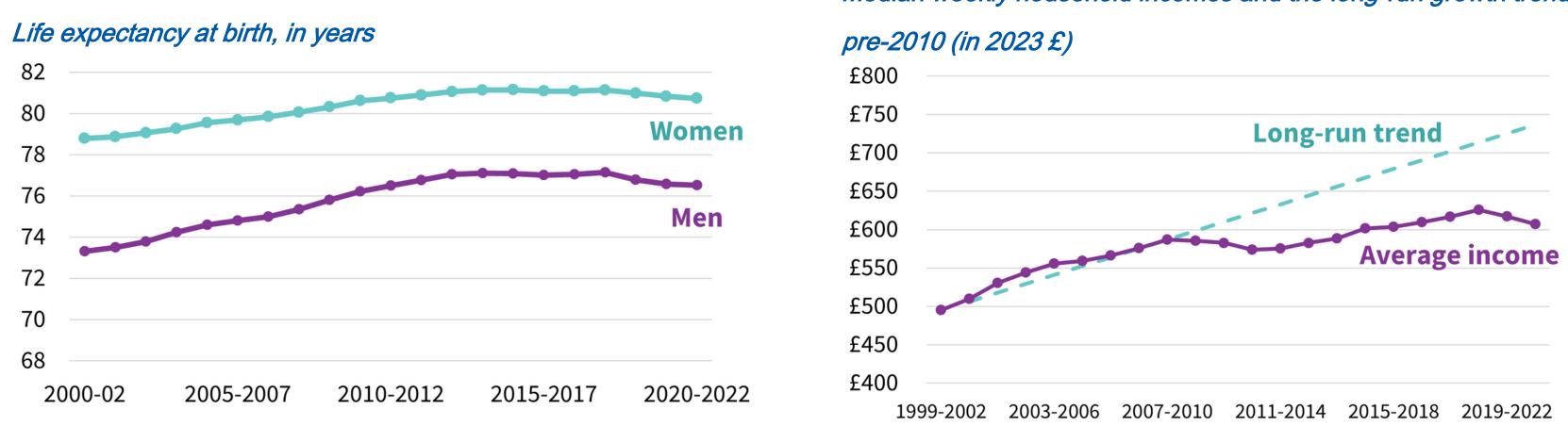
Key findings

- Key outcomes related to inequalities and health are not improving significantly
- Some are in fact getting worse
- We have not found evidence that policy is driving improvements in socioeconomic or health inequalities
- A lack of publicly available data of sufficient quality makes it very difficult for us to assess whether policies are working or not



Life expectancy is no longer rising. While deaths relating to COVID-19 play a part in explaining recent falls, the deviation from the long-run trend dates back to the early 2010s.

since 2019.



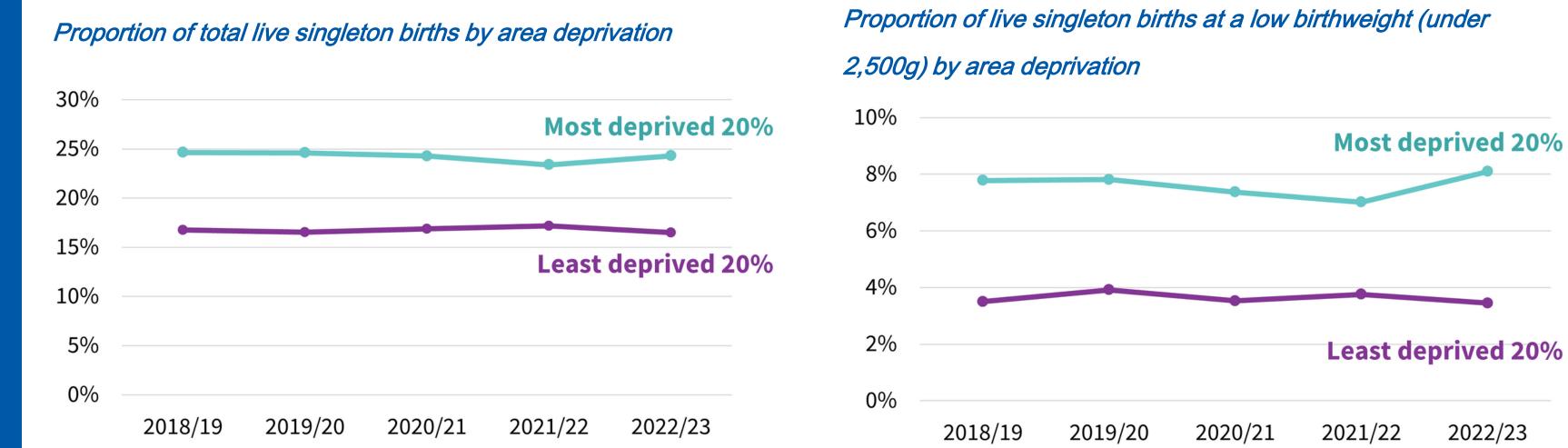


"Nearly every day I'm picking this paper up, I'm reading aboot the life expectancy wae me and [compared to] maybe staying doon in London...They're absolutely kicking you every way they can, like. And if you're in a poor area, you'll always be in a poor area... Naebody's gonna try and help you oot it, but if you're in an affluent area, to hell wae the rest..." John, cited in Mackenzie et al., 2017

Average living standards have never returned to pre-2010 levels of growth and have fallen

Median weekly household incomes and the long-run growth trend

A higher number of children are born in **deprived areas** compared to non-deprived ones.

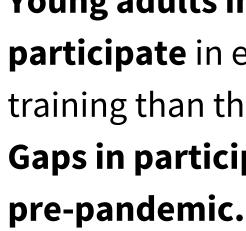




Gaps in early health outcomes, such as low birthweight and developmental concerns, **are** wider than they were pre-pandemic.

Gaps in attainment narrowed during the

pandemic but are now wider than they were in 2019.



(Higher) 100% 8% **Least deprived 20%** 80% 6% 60% **Most deprived 20%** 4% 40% 2% 20% 0% 0% 2019 2023 2019 2021 2022 2024 2020

Proportion of candidates attaining grade A-C at SCQF Level 6



"It was just quite frustrating that... all of these people that were going to fail... when all of the grades came out but they got predicted higher because, like, maybe the area they were in. Like, I remember seeing people online that was like, they went to a good school but they were performing badly, but because they went to a good school, their grades got picked up massively. [...] I felt, like, helpless, like, 'cause there was nothing I could do about it, and it just kind of got, like, taken away from me." 18 year old male group participant, discussing the Scottish approach to grading during the COVID-19 pandemic, cited in Fergie et al, in press.

Young adults in Scotland are more likely to not

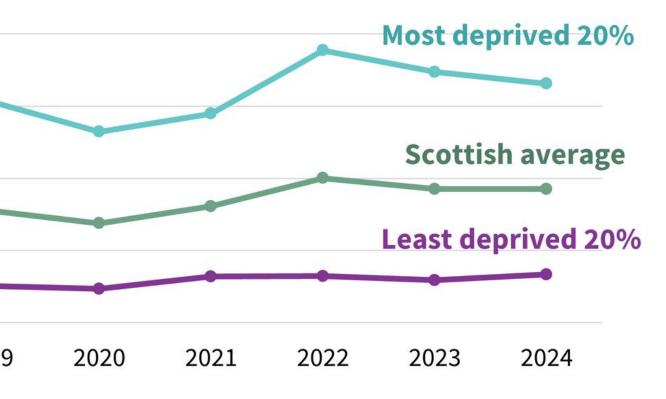
participate in education, employment, or

training than they were pre-pandemic.

Gaps in participation are wider than they were

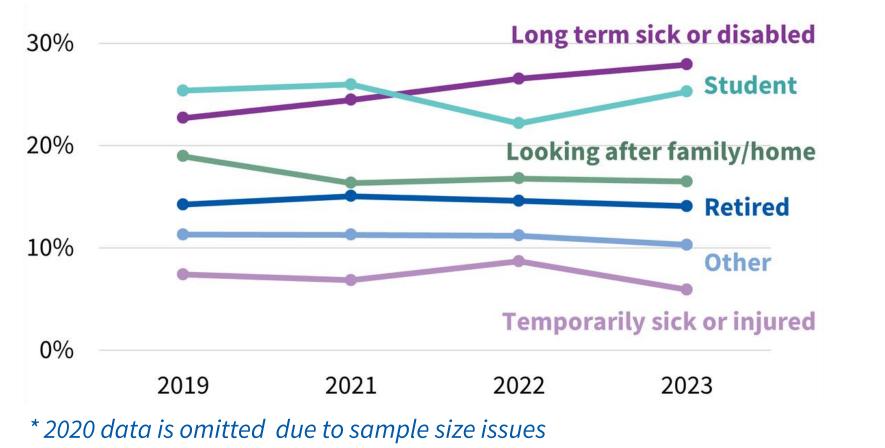
Proportions of those aged between 16 and 19 that are not



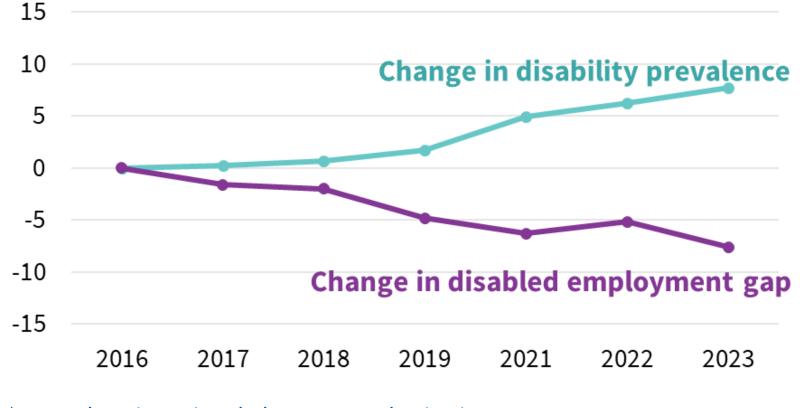


People in Scotland are more likely to be inactive due to long-term illness or disability.

Proportion of inactive people by reason for inactivity in Scotland



Percentage point change in disability prevalence and the disability employment gap since 2016

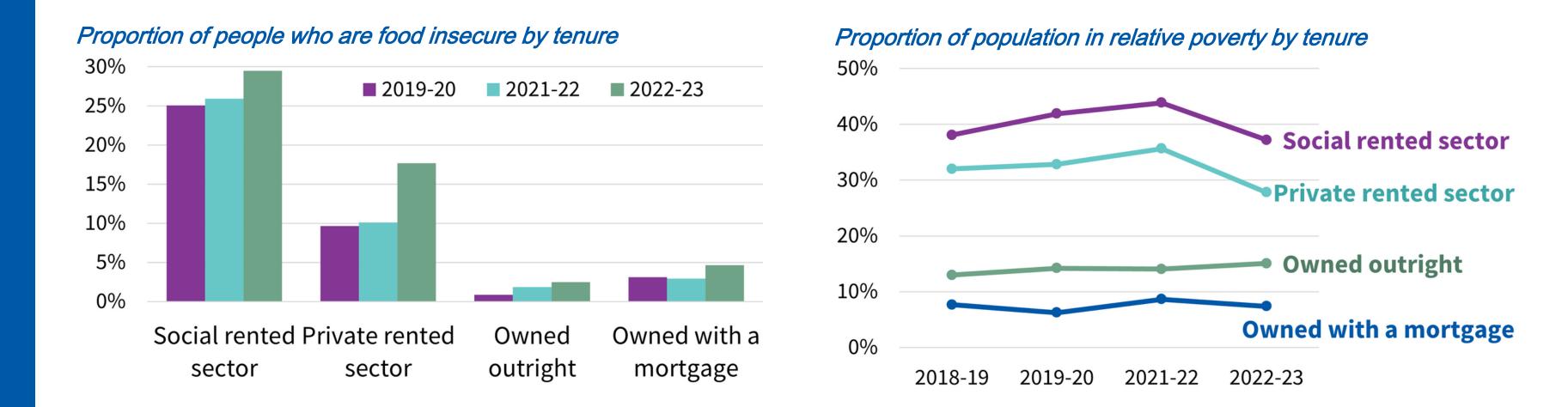


* 2020 data is omitted due to sample size issues

Disabled people in Scotland are more likely to be in work, but working-aged adults are also much more likely to report a disability

Food insecurity and fuel poverty are higher

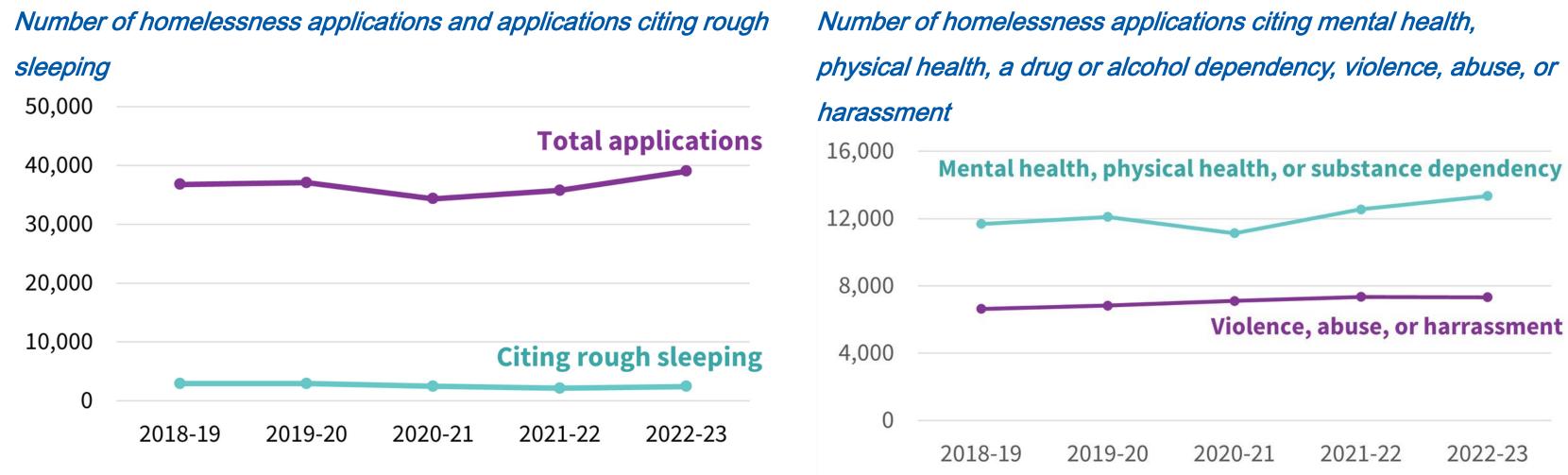
than they were pre-pandemic.



This is in spite of overall lower poverty rates for most housing tenures

Homelessness applications are higher than

they were pre-pandemic

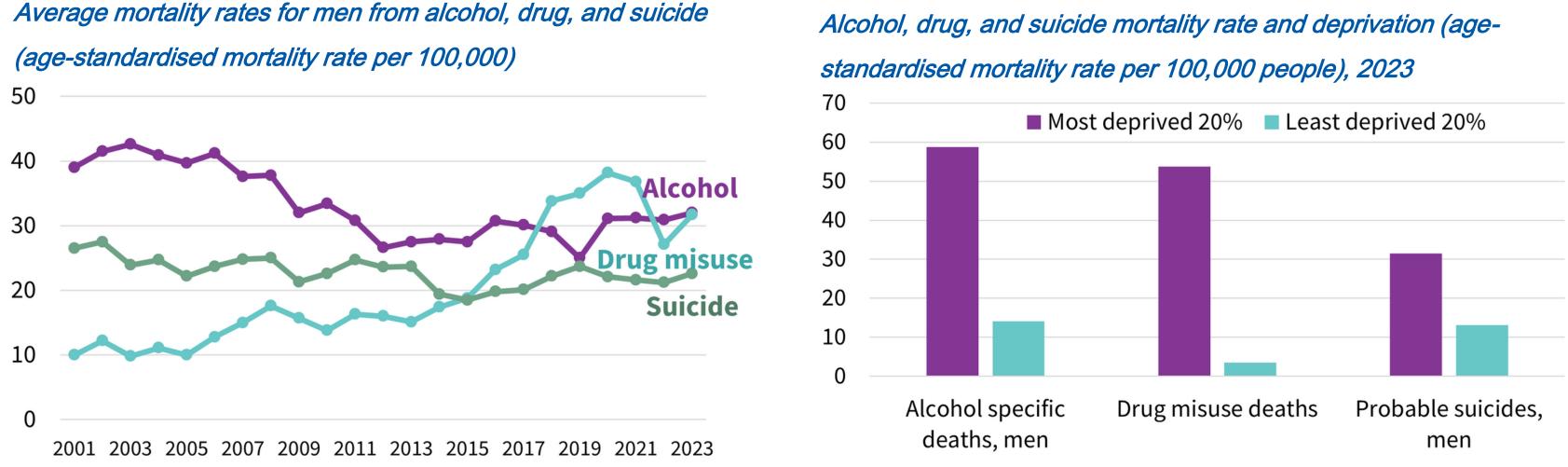


"I tried to kill myself about five times. It [homelessness] kicked your self-esteem to death." 40 year old male (interviewee) cited in Paudyal et al., 2020



People experiencing homelessness are more likely to cite unsafe situations and mental health conditions in their applications.

Men are of particular concern, with higher mortality rates from alcohol, drug misuse, and suicide.



"What made me keep doing it [using drugs]? Fear. In the fear in thinking there's no hope for any kind of decent life [...] So, I think that's why I continued, just try to block it all out. Wasn't caring about the consequences. I overdosed something like 28 times. Pronounced dead something like 18 times. And did it stop me doing it? Nothing stopped me doing it." Lee (interviewee), cited in Farmer et al., 2023

These "deaths of despair" have wide gaps in outcomes between deprived and non-deprived parts of Scotland.

Key findings

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- Some are in fact getting worse
- We have not found evidence that policy is driving improvements in socioeconomic or health inequalities
- A lack of publicly available data of sufficient quality makes it very difficult for us to assess whether policies are working or not



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