



# Homelessness and Health - the view from Public Health

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# CINÉ REAL



- Watched by 12 million people – a quarter of the British population at the time – on its first broadcast.
- One commentator called it "an ice-pick in the brain of all who saw it".
- The play produced a storm of phone calls to the BBC, and discussion in Parliament.
- In 2005 it was named by *Broadcast* as the UK's most influential TV programme of all time.



<https://www.youtube.com/user/KenLoachFilms>

Housing – the  
bedrock on  
which we build  
our lives and  
reach our  
potential for  
health and  
wellbeing  
across the life  
course.



Commission on  
Housing & Wellbeing

A blueprint for  
Scotland's future

June 2015

‘Housing  
generates  
Wellbeing’

<http://housingandwellbeing.org/>



A photograph of a family of four walking along a path in a park. In the center is a man with a balding head and a friendly smile, wearing a brown jacket over a blue shirt. To his left is a woman with dark hair, looking slightly away from the camera. In front of them are two young children, a girl on the left and a boy on the right, both looking towards the camera. The background shows a wooden fence, some greenery, and a building in the distance. The overall tone is somber but hopeful.

# I, Daniel Blake

The new [film](#) from Ken Loach, is about a woodworker who can't work. After a severe heart attack, Daniel has been advised by his doctor to take a break from manual labour for the good of his health.

The 59-year-old widower should be eligible for Employment and Support Allowance to tide him over, but the welfare state thinks otherwise, and shuffles him on to Jobseeker's Allowance instead.

Here, the thumb-felt certainties of carpentry are supplanted by vague talk of "clients" and "service users" and the pursuit of employment becomes nothing more than a lip-service ritual to unlock the next monthly payment.

# *Public Health as a catalyst for new approaches and partnerships*

Scottish Public Health Network

Restoring the Public Health response to Homelessness in Scotland

Katy Hetherington

Neil Hamlet

May 2015

**‘Wellbeing is  
dependent on Housing’**

[www.scotphn.net/projects/homelessness-guidance-for-public-health/](http://www.scotphn.net/projects/homelessness-guidance-for-public-health/)



A man with dark hair and a beard, wearing a blue shirt, is looking down at a baby. The baby is wearing a white shirt and is looking up at the man. The background is a plain, light-colored wall.

Parenting  
and  
Bonding

A close-up of a young girl with curly brown hair. She has some food, possibly a sandwich or a piece of bread, on her face, and she is looking directly at the camera with a serious expression.

Children  
at Risk  
- prevent  
ACEs

A man with long, dark hair and a beard, wearing a dark jacket, is sitting on the ground. He is holding a small, light-colored dog in his arms. The background is a plain, light-colored wall.

Broken  
Relationships  
— Broken  
Lives

A person wearing a dark jacket and a purple beanie is sitting in a shopping cart. The cart is filled with various items, including a blue bag and a brown bag. The person is looking down at the items in the cart. The background is a plain, light-colored wall.

Predict and  
prevent critical  
transitions

# The Inequality Iceberg



**Multiple Exclusion Homelessness is the visible, deeply damaged and vulnerable tip of the health inequality iceberg.**

**Below the waterline lie all the social, environmental and behavioural drivers and transition points for prevention and early intervention.**



An iceberg floating in the ocean, with the visible tip representing the small portion of homelessness that is legally defined, and the much larger submerged part representing the hidden homelessness. Callout boxes with yellow borders point to different parts of the iceberg, describing various categories of homelessness.

**Statutory  
homeless HL1**

**Rough Sleepers**

**Approaching  
homelessness  
Prevent 1**

**Housed but  
homeless HL3**

**Hidden  
Homeless**

**Sofa  
Surfers**

**2 pay cheques away from  
homelessness**



An iceberg floating in dark blue water. The tip of the iceberg is white and above the water line. The rest of the iceberg is submerged and appears as a large, jagged mass of blue and white ice. Several speech bubbles of different colors (yellow, red, and grey) point to different parts of the iceberg, each containing text. The background is a dark blue gradient.

**“Statutory”  
Homeless**

**Silo-based  
chipping  
away**

**Mental Distress**

**Criminal Justice**

**Addiction**

**Relational  
Breakdown**

**Childhood  
Trauma**

**Together warming the water**

Let's SHARE our experience and knowledge

THE  
HOMELESSNESS  
AGENDA

This needs to  
be a joined  
up path

Data – sharing across agencies

HSCP

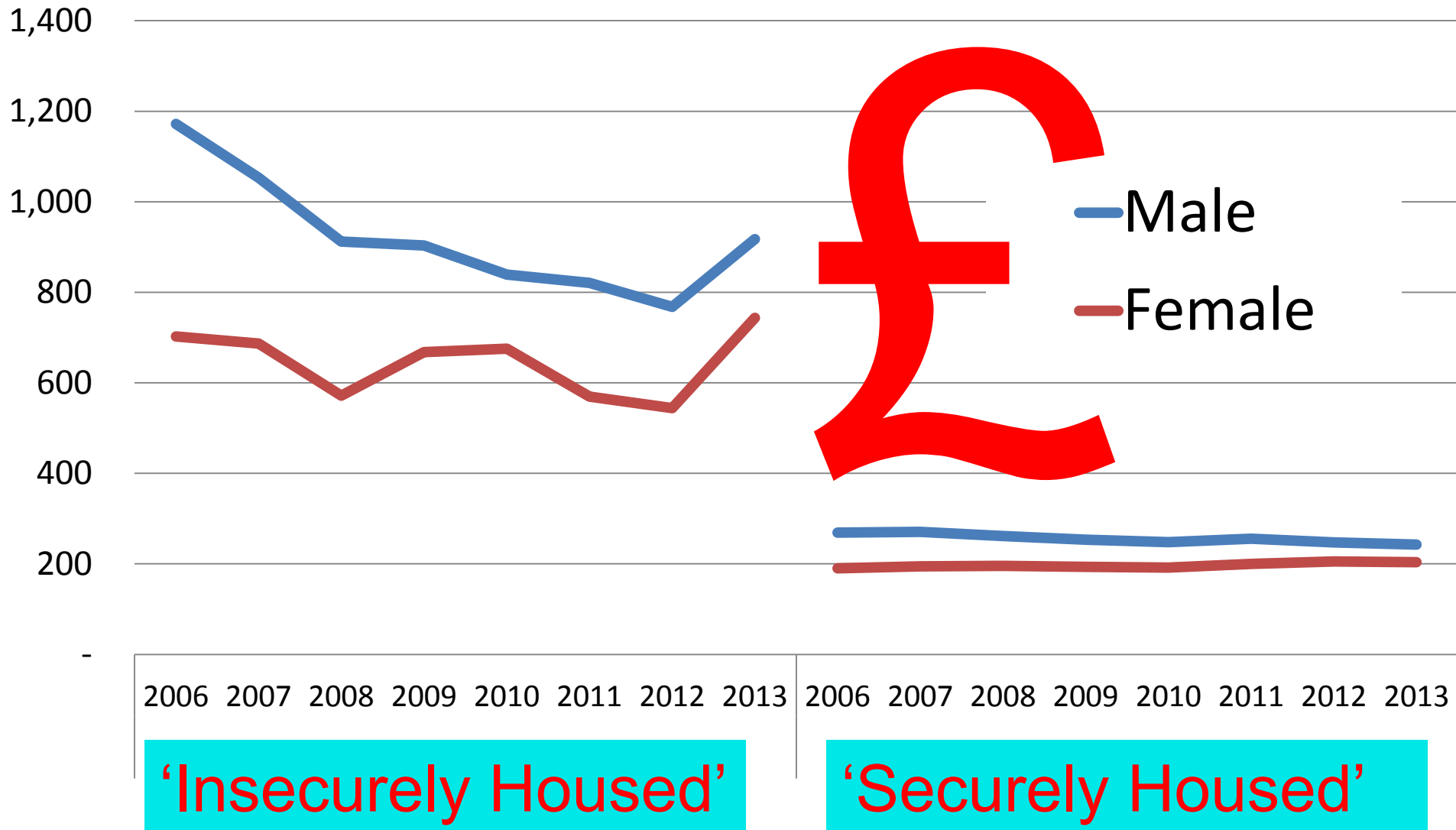
DWP

NHS

Housing

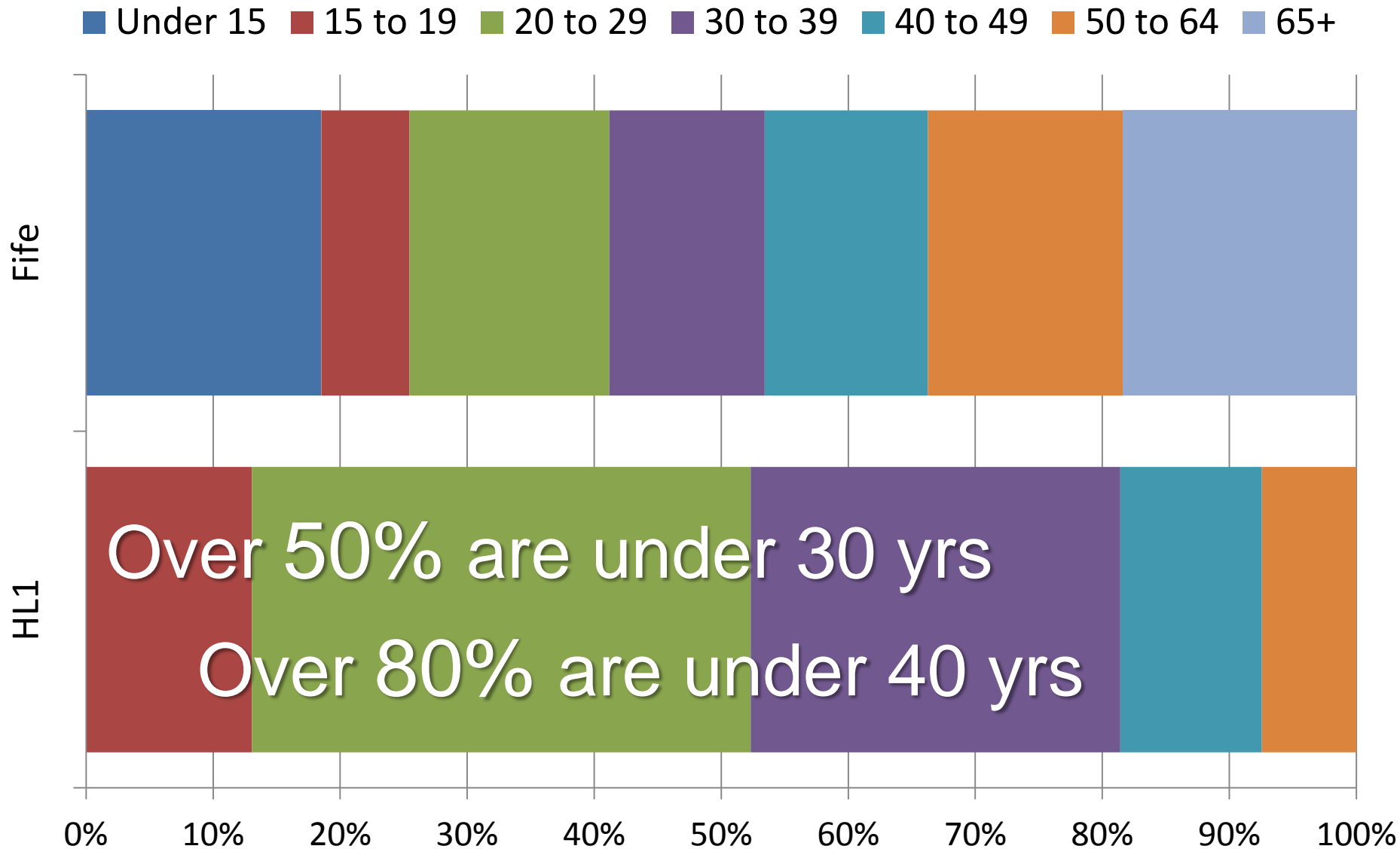


# The impact of homelessness on health care – proving the case



# Age Distribution of A&E Attendances; 2013

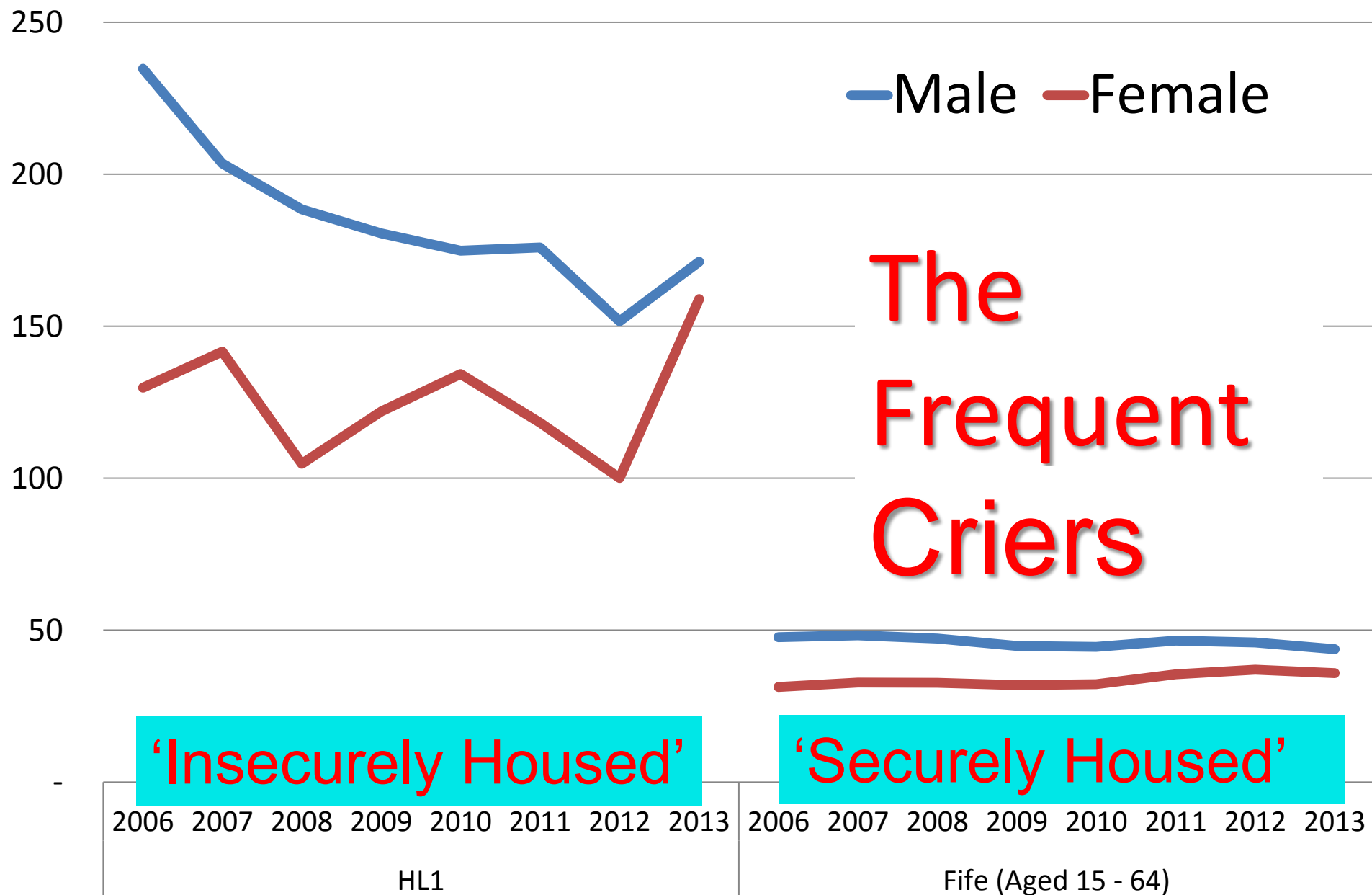
## Age of patients attending A&E





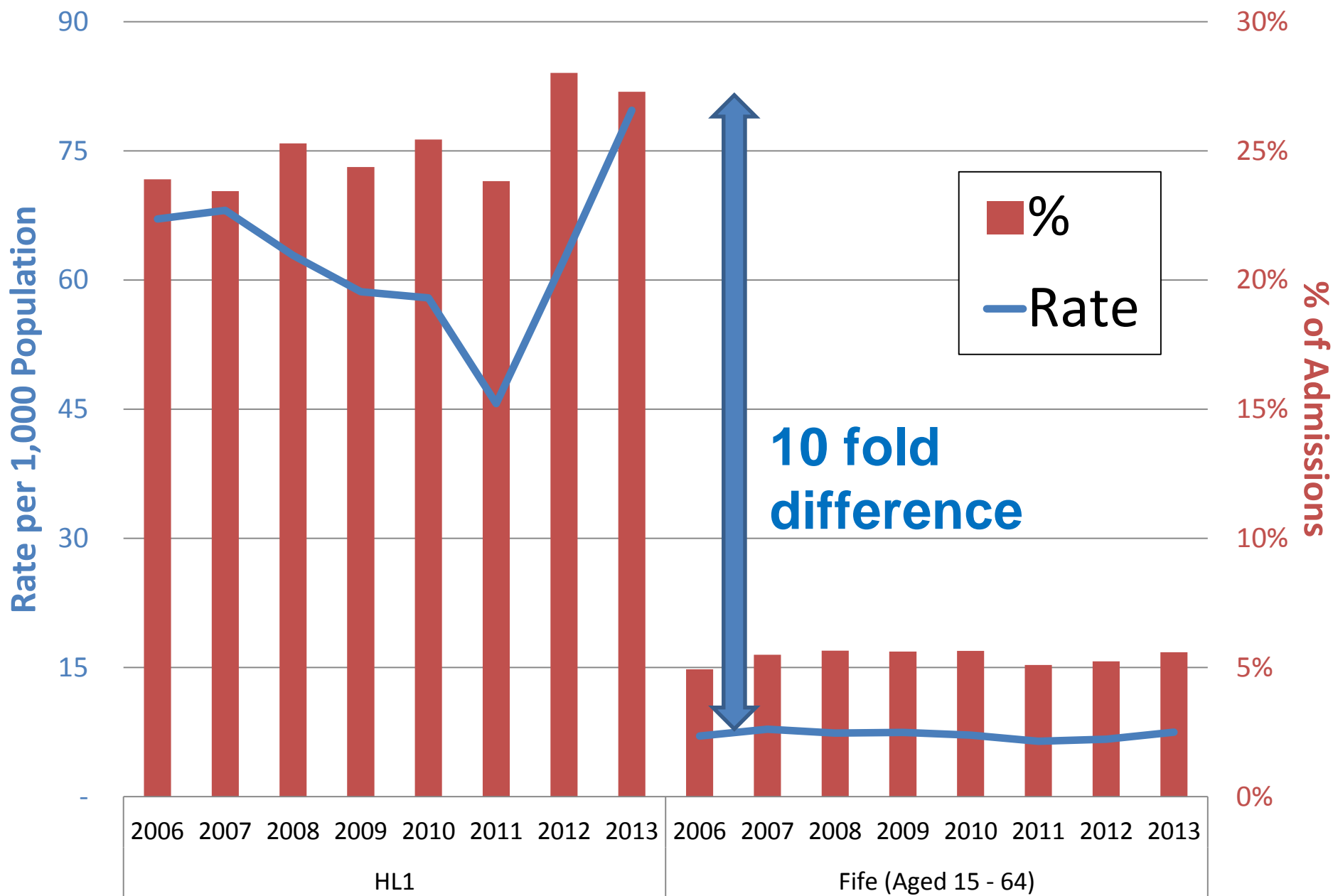
# Patient Multiple Attendance Rate per 1,000 Population

Patients who have attended A&E more than once within specified year



# Alcohol-related Admissions rate per 1,000 and % of Admissions

Admissions with diagnosis related to alcohol based on ISD definition

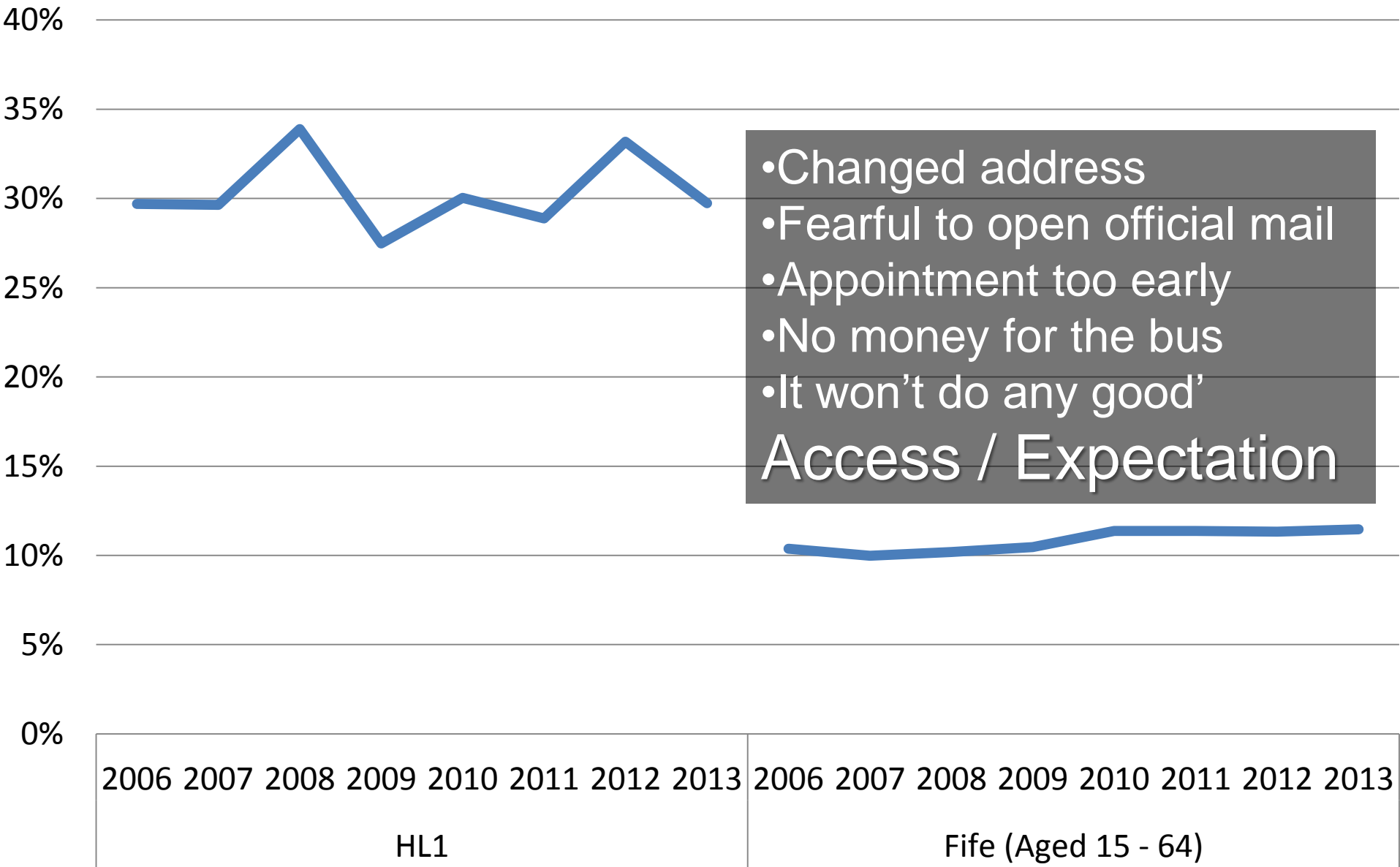




## % New Outpatient Appointments DNA

### New appointments who Did Not Attend

*(excludes cancellations by hospital or patient)*



# Adding in the £ signs

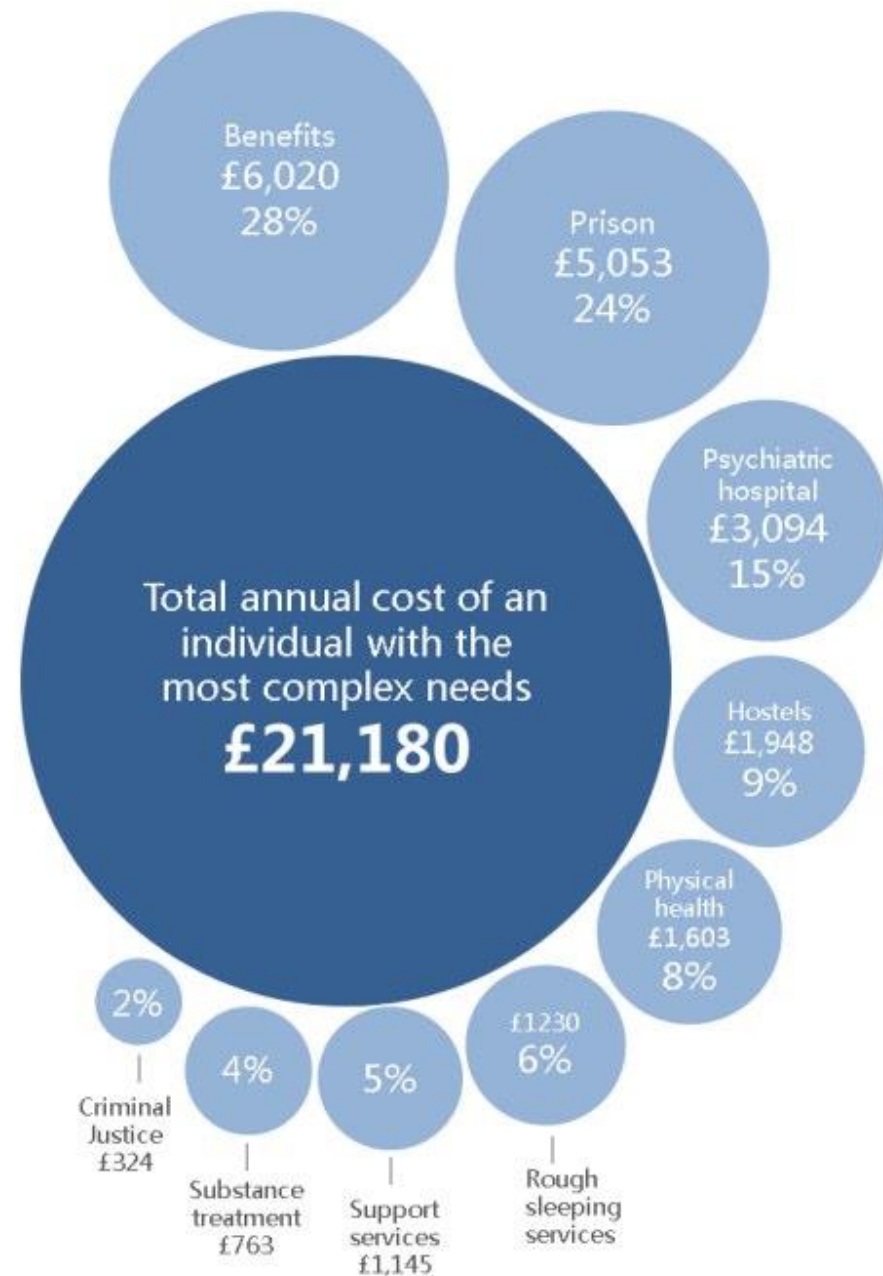
| NHS Costs Book (2013/2014 )              |       |
|--|-------|
| Emergency Ambulance call                 | £261  |
| A/E attendance                           | £115  |
| In patient case (Gastroenterology wards) | £2916 |
| Addiction cost (community attendance)    | £144  |
| General Psychiatry inpatient cost / week | £2452 |



# The cost of 'Churn'

- Source data from Lankelly Chase Foundation 2015.
- Data is English – but directly transferable
- Estimate is considered conservative.
- General estimates of lifetime costs (to society) per individual range from £250k to over £1m.

Total annual cost of an individual with the most complex needs (homelessness, offending and substance misuse problems)



# Children in poverty more likely to have problems with friendships, study shows

Children who live in poverty are more likely to be solitary and to fall out with friends or be bullied, the National Children's Bureau says



Financial poverty  
Poverty of access & participation  
Poverty of power & influence  
Poverty of freedom, opportunity & choice  
Poverty of status & dignity  
Poverty of 'belonging'  
Poverty of relationships





# Critical Transitions



Home

Care

Leaving

Springboards

Prison

Military

Safety Nets

Flat

Mind

Losing

Partner

Job



# Psychologically Informed Practice & Environments

PIE

PIP





But typically in Health, Social Care and the DWP the reality is to have an environment, a service and the associated paperwork informed by psychological theory in such a way as to provide ease and benefit for the staff of that environment rather than the clients.

There are many better application of PIEs in other settings around us .....





# John Lewis

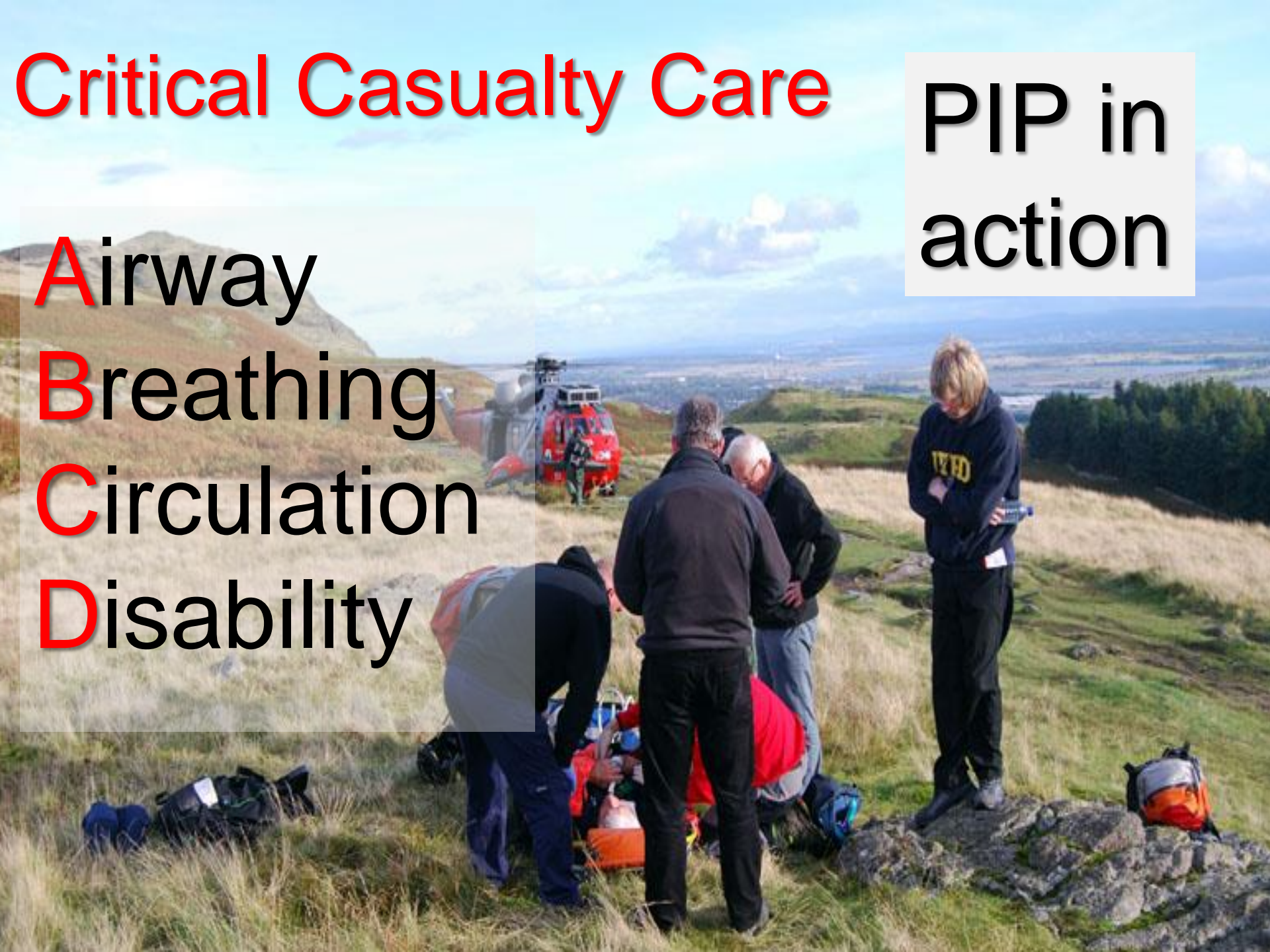




# Critical Casualty Care

PIP in  
action

Airway  
Breathing  
Circulation  
Disability





# Critical Psychological Care

The background of the slide is a faded, grayscale image of several police officers in riot gear, including helmets and shields, standing in a line. The image is slightly out of focus and serves as a backdrop for the text.

**D**eficit

Attach a label – alcohol, homeless, addict, runaway

**C**o-operation

Now turn up at my office at the right time

**B**ehaviour

And I expect you not to be drunk, or high or aggressive

**A**ccess

I expect you to make full use of all the help I have to give you in your best interests



Homeless  
Problem

Criminal  
Justice  
Problem

Drug  
Problem

Childhood  
Neglect

Wounded  
Lonely  
Soul

Alcohol  
Problem

Paddington  
Bear





the oral health of homeless  
people across Scotland

Smile4life

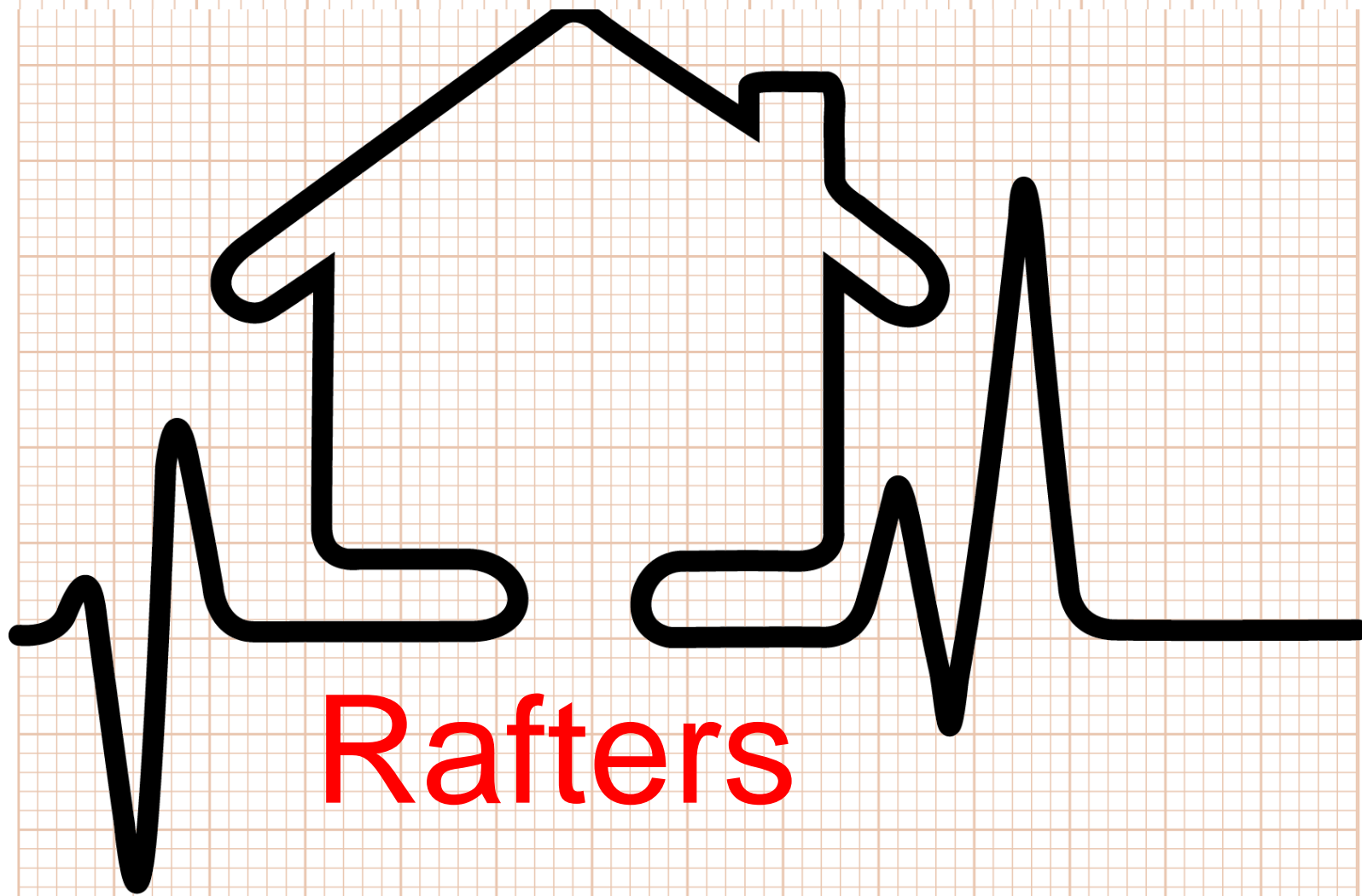
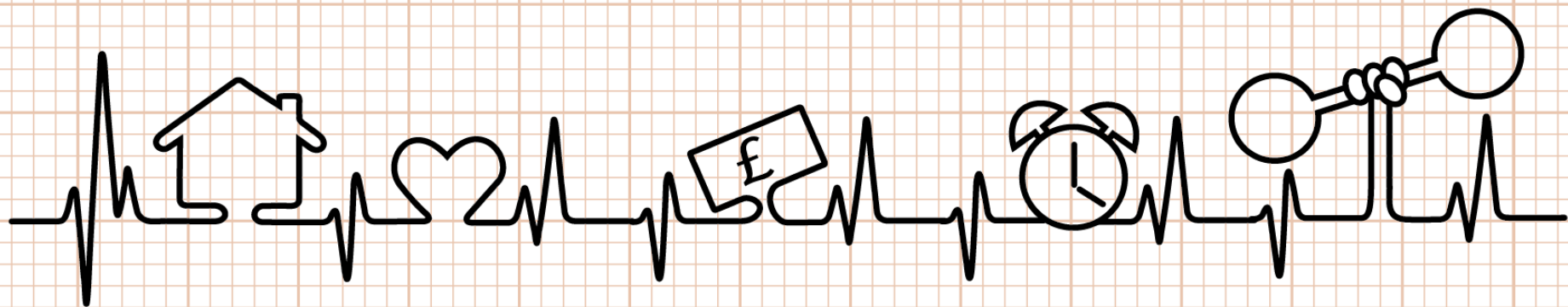
Report of the Homeless Oral Health  
Survey in Scotland, 2008-2009



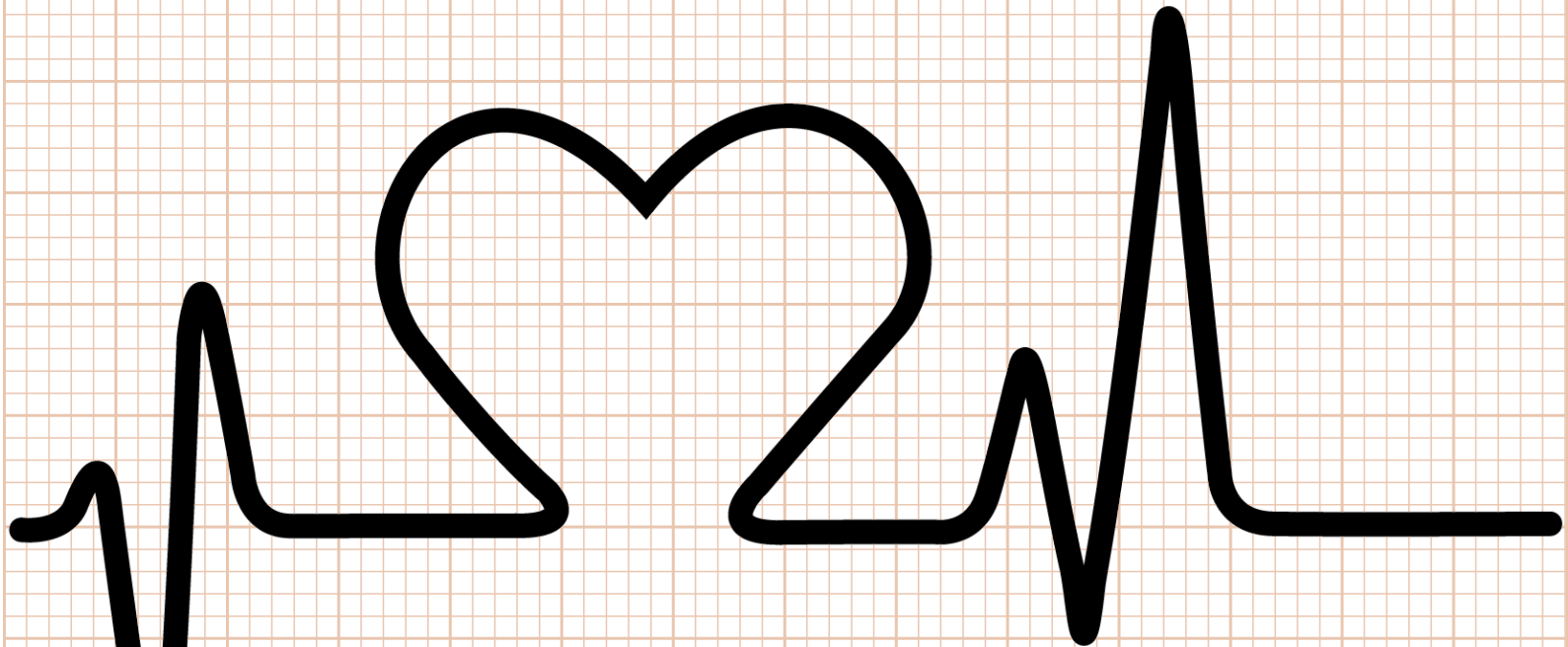
Because  
you're  
worth it...



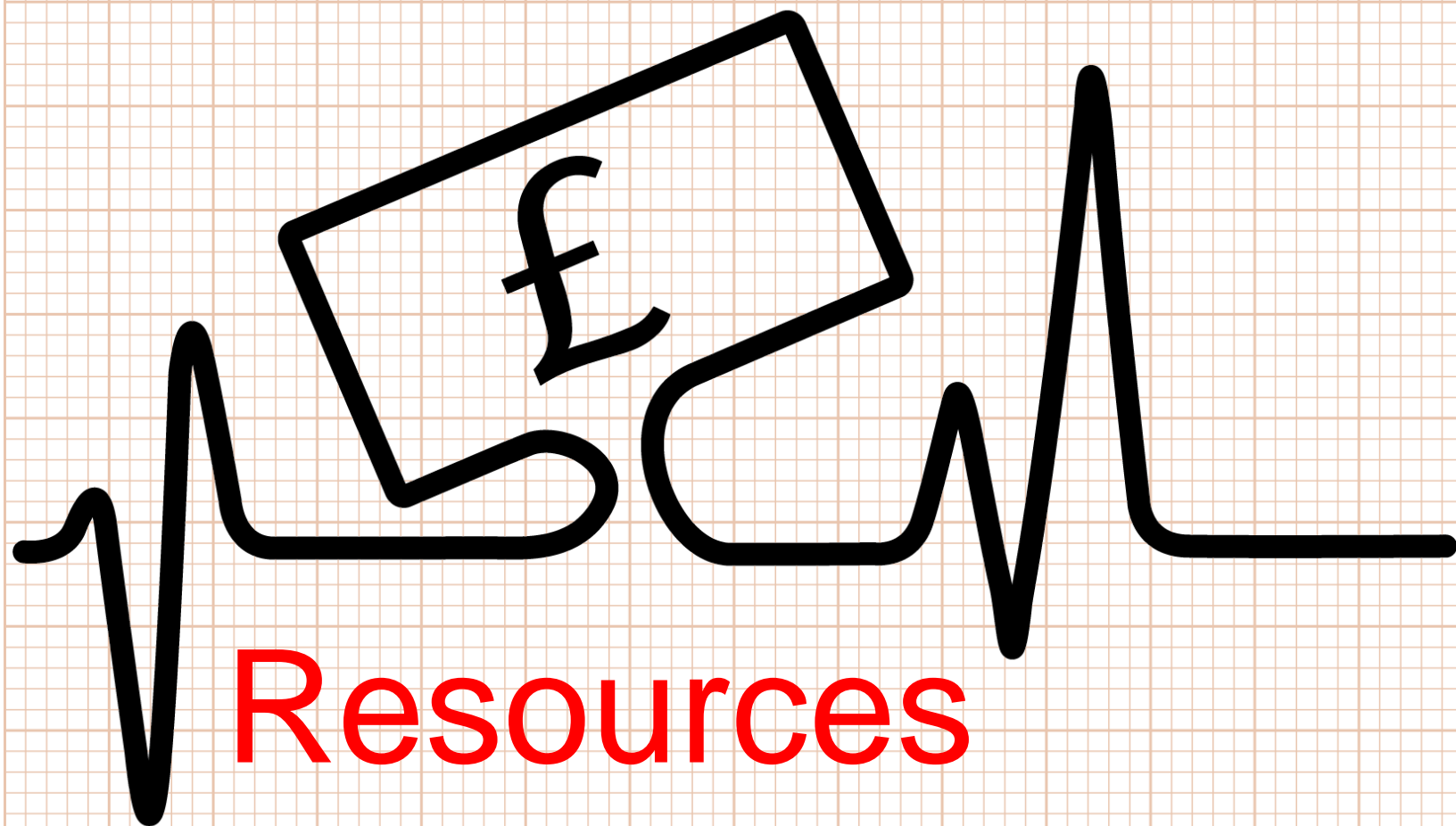
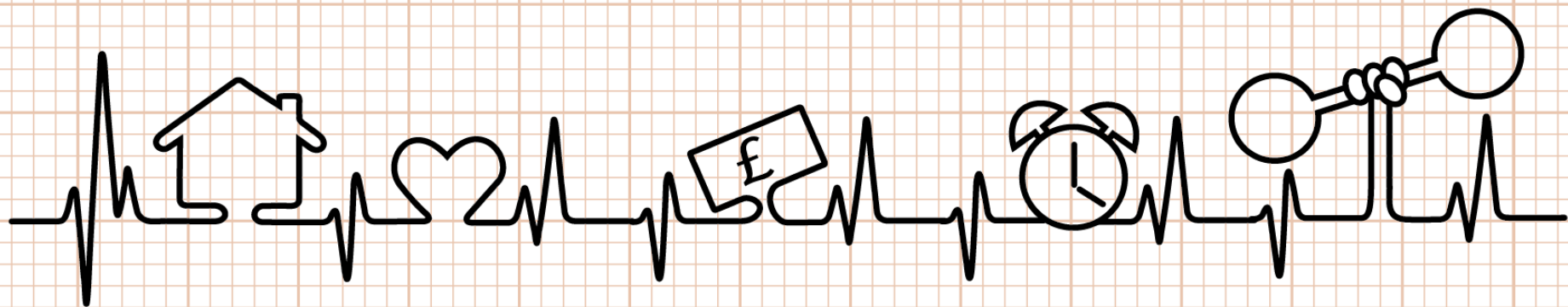
[http://dentistry.dundee.ac.uk/sites/dentistry.dundee.ac.uk/files/smile4life\\_report2011.pdf](http://dentistry.dundee.ac.uk/sites/dentistry.dundee.ac.uk/files/smile4life_report2011.pdf)

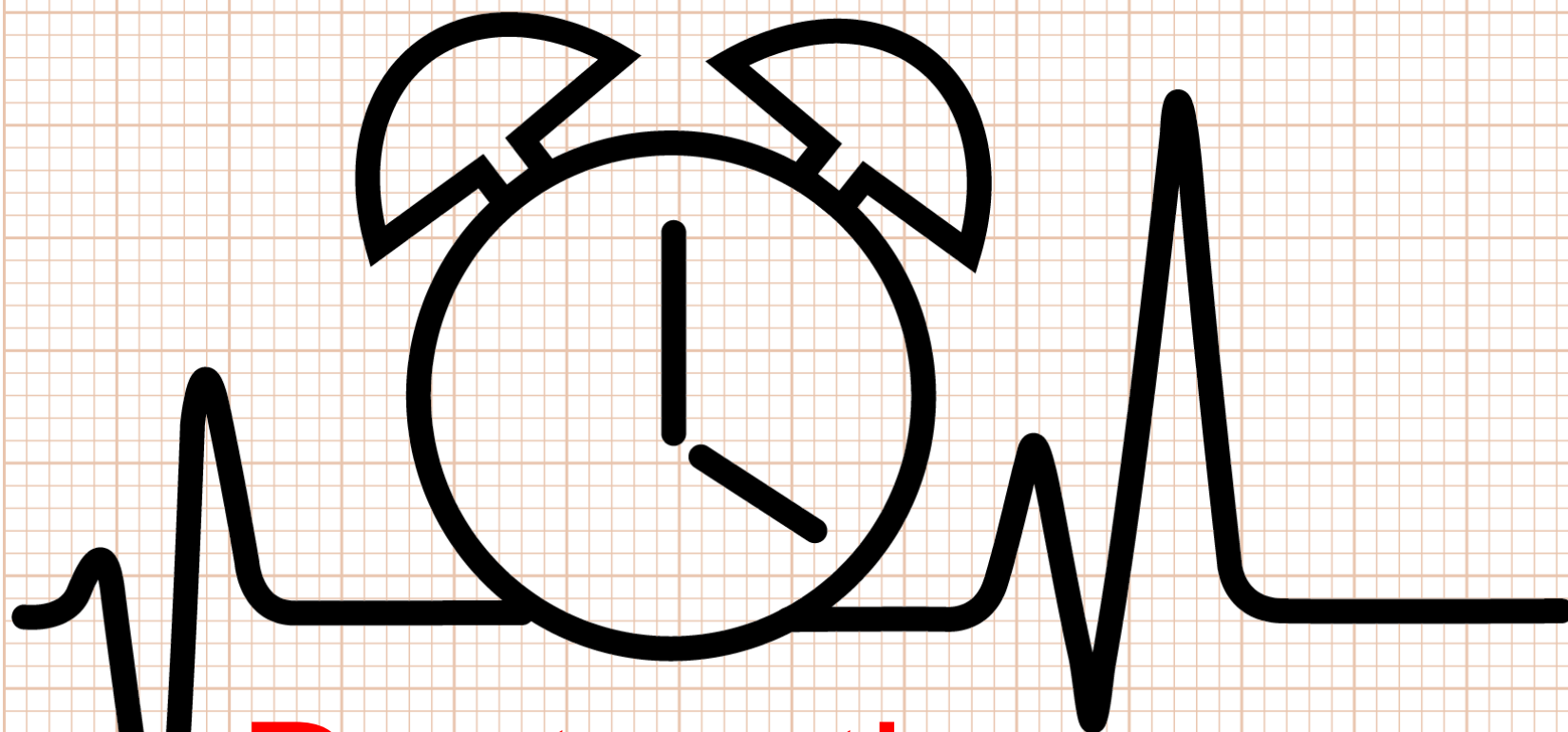




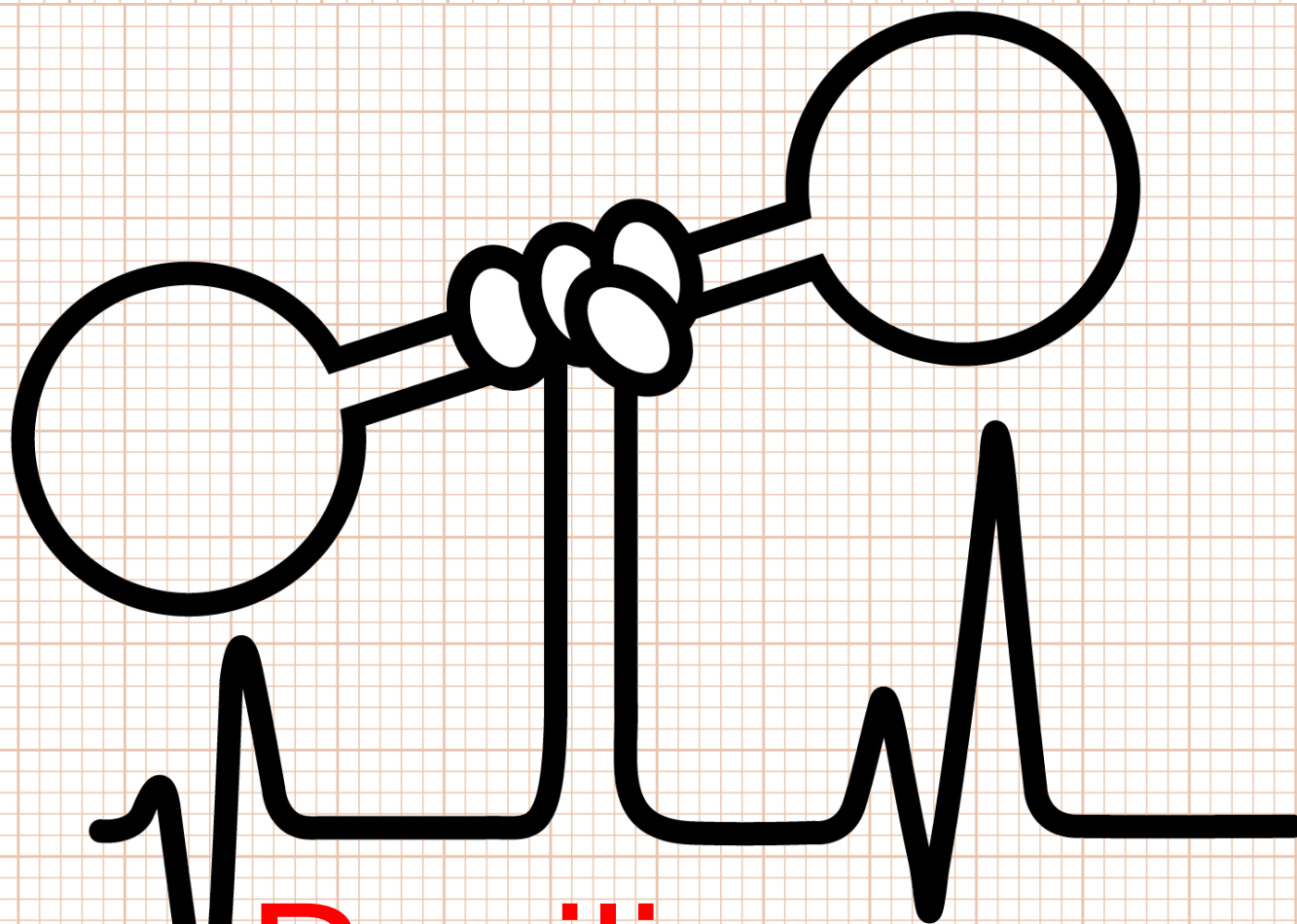
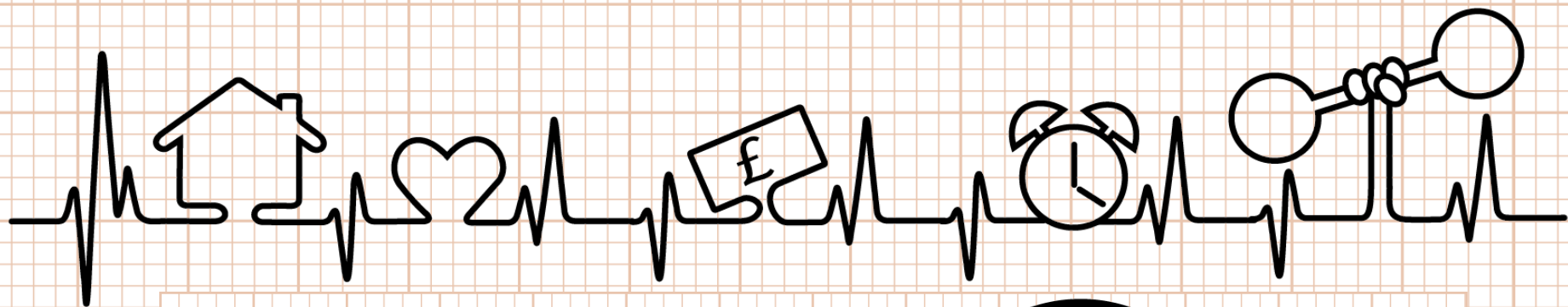


Relationships





Restoration



Resilience



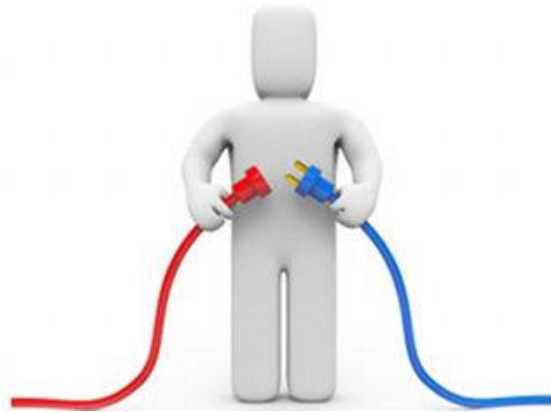
'Houseless and Hungry' by Luke Fildes depicting homeless paupers queuing outside the casual ward of a London workhouse

What part can your service play in helping to heal the causes and consequences of homelessness in Scotland ?

Meeting the deep needs of safety, relationship, dignity, belonging and purpose

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# Using data linkage to understand health & homelessness



Emily Tweed

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# Overview

- Background to data linkage
- Examples and application to homelessness
- Current landscape
- Future possibilities
- Keeping in touch

# Background

What is data linkage?



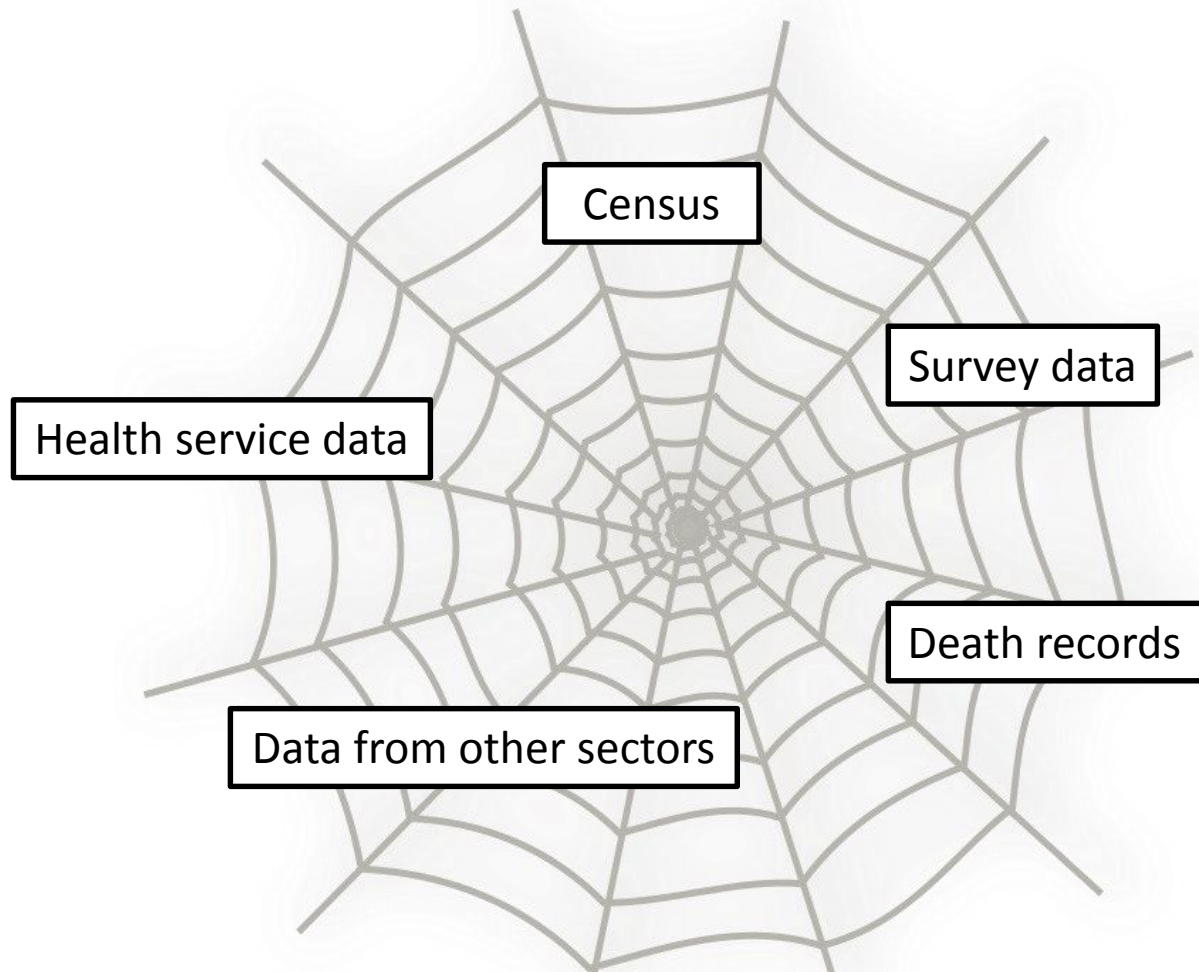
Wellcome Images

[emily.tweed@nhs.net](mailto:emily.tweed@nhs.net)  
[@emilyjanetweed](https://twitter.com/emilyjanetweed)



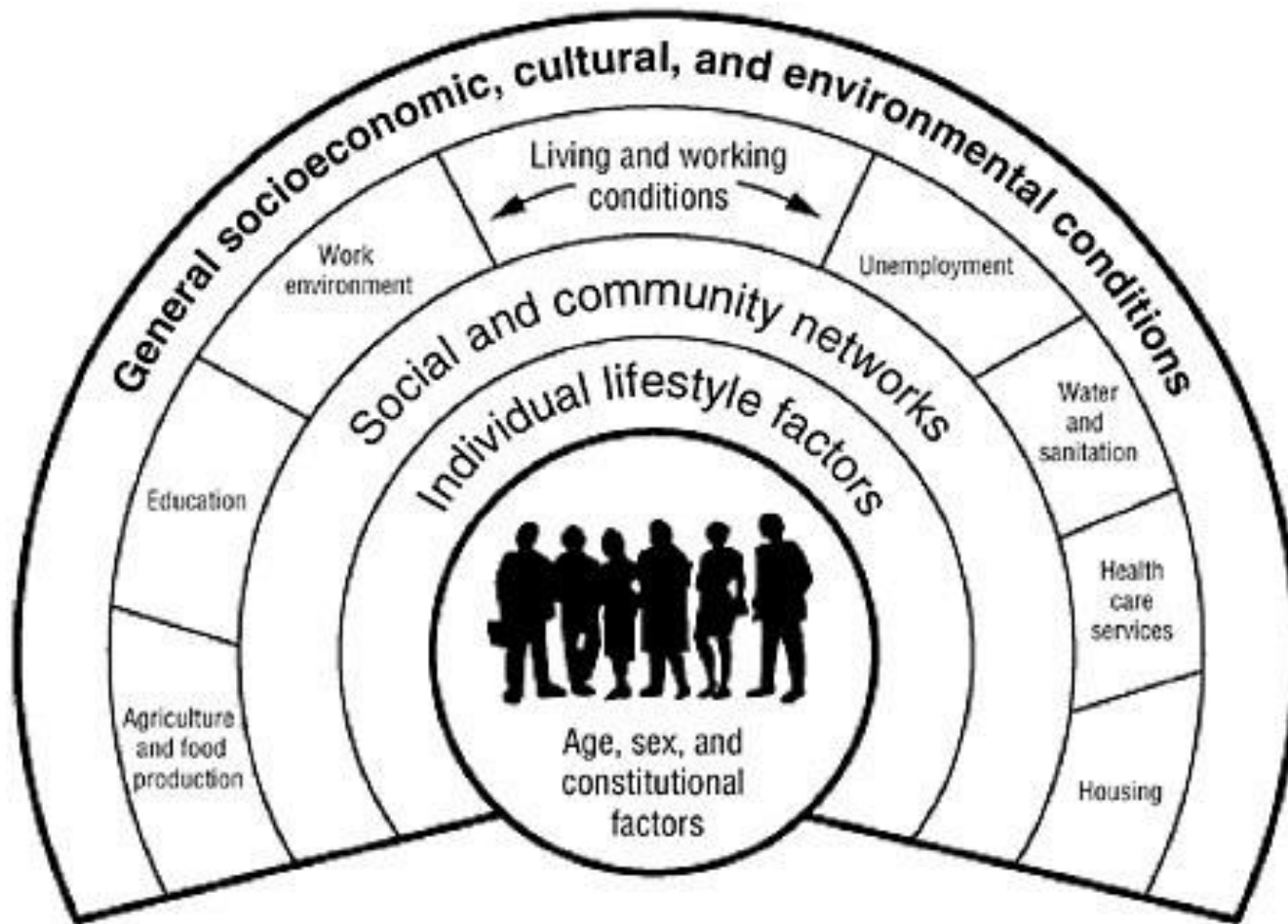
# Background

What is data linkage?

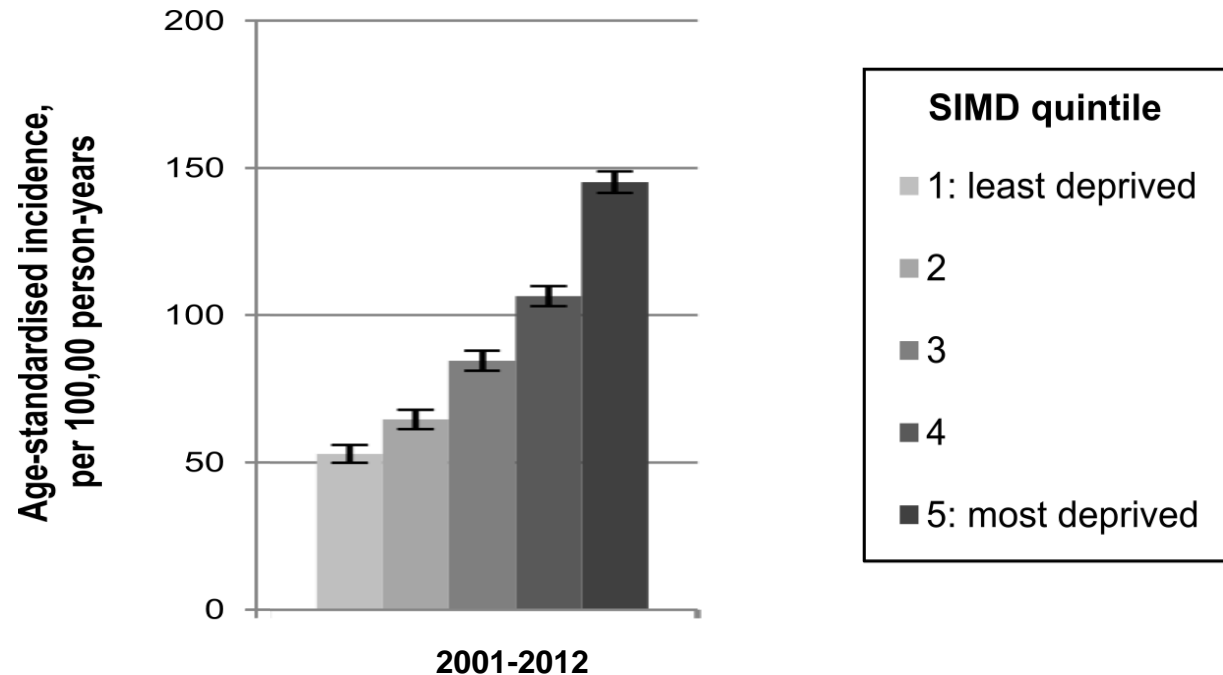


[emily.tweed@nhs.net](mailto:emily.tweed@nhs.net)  
[@emilyjanetweed](https://twitter.com/emilyjanetweed)

# Background



# Background



**Lung cancer rates among men living in West of Scotland**

# Background

## OTHER ORIGINAL ARTICLES

### Homelessness as an independent risk factor for mortality: results from a retrospective cohort study

David S Morrison

2009

### Psychiatric disorders and mortality among people in homeless shelters in Denmark: a nationwide register-based cohort study



2011

*Sandra Feodor Nielsen, Carsten Rygaard Hjorthøj, Annette Erlangsen, Merete Nordentoft*



# Background

OPEN ACCESS Freely available online



## Do Children Who Move Home and School Frequently Have Poorer Educational Outcomes in Their Early Years at School? An Anonymised Cohort Study

Hayley A. Hutchings<sup>1\*</sup>, Annette Evans<sup>2</sup>, Peter Barnes<sup>4</sup>, Joanne Demmler<sup>1</sup>, Martin Heaven<sup>1</sup>, Melanie A. Hyatt<sup>1</sup>, Michelle James-Ellison<sup>4</sup>, Ronan A. Lyons<sup>1</sup>, Alison Maddocks<sup>3</sup>, Shantini Paranjothy<sup>2</sup>, Sarah E. Rodgers<sup>1</sup>, Frank Dunstan<sup>2</sup>

Early Life

## Educational outcomes following breech delivery: a record-linkage study of 456 947 children

Daniel F Mackay,<sup>1</sup> Rachael Wood,<sup>2</sup> Albert King,<sup>3</sup> David N Clark,<sup>2</sup> Sally-Ann Cooper,<sup>1</sup> Gordon CS Smith<sup>4</sup> and Jill P Pell<sup>1\*</sup>

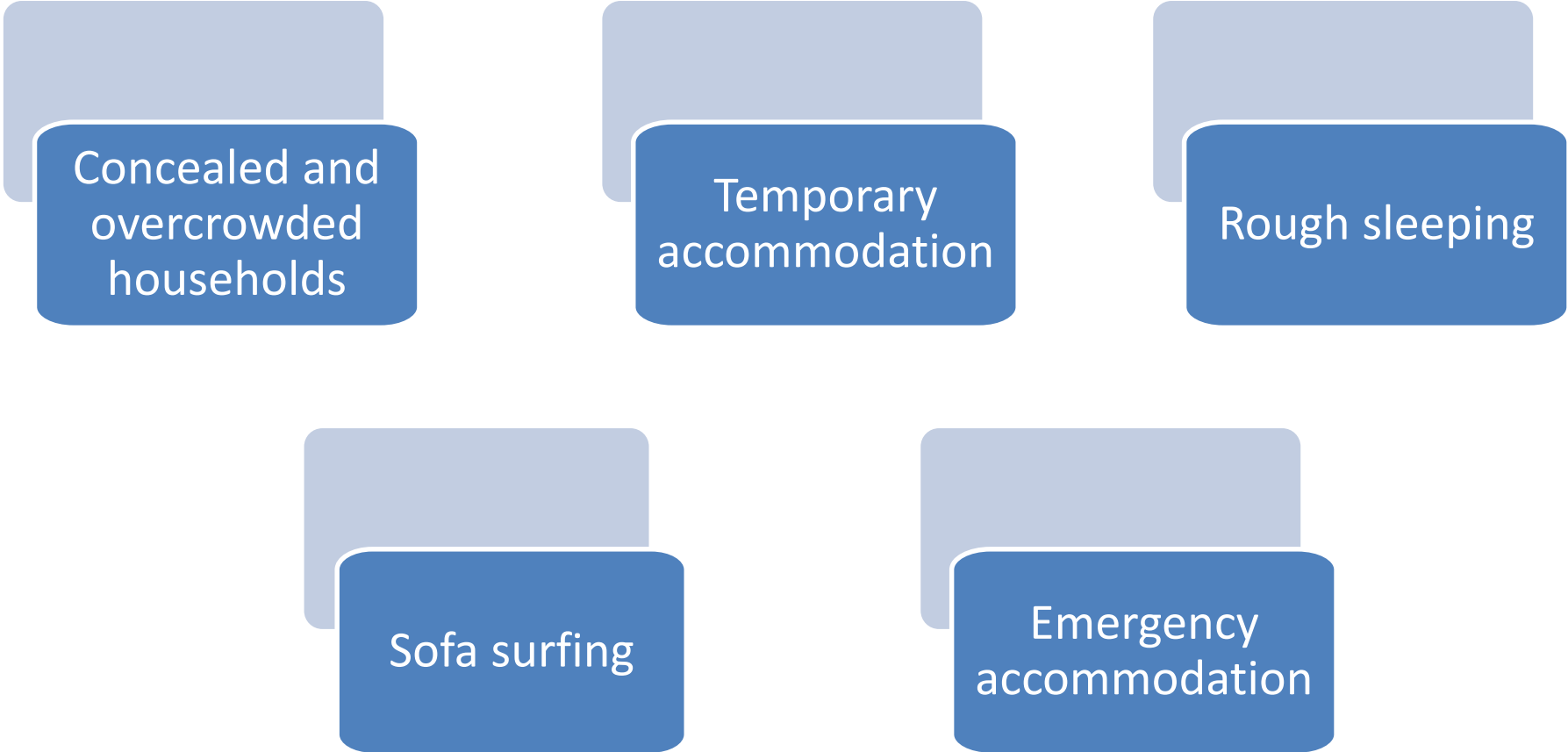
<sup>1</sup>Institute of Health and Wellbeing, Glasgow University, Glasgow, UK, <sup>2</sup>Information Services Division, NHS National Services Scotland, Edinburgh, UK, <sup>3</sup>ScotXed Unit, Scottish Government, Edinburgh, UK and <sup>4</sup>Obstetrics and Gynaecology Department, Cambridge University, Cambridge, UK

# Background



**Housing Regeneration and Health Study: Swansea University**

# Application to homelessness



Concealed and  
overcrowded  
households

Temporary  
accommodation

Rough sleeping

Sofa surfing

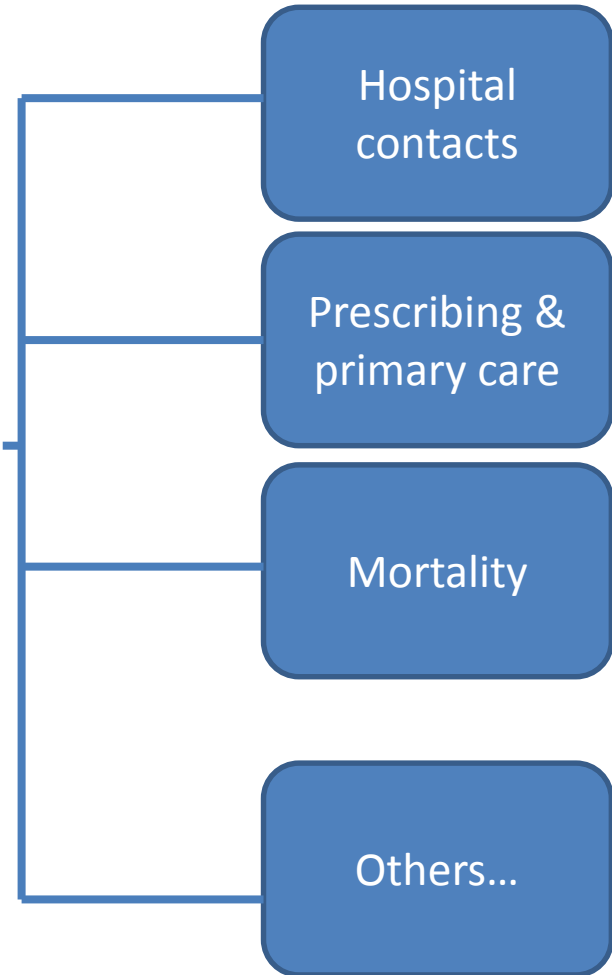
Emergency  
accommodation

# Data sources

## Housing status



## Health status





# Current landscape

- Fife project
- Scottish Government project
- Health & Social Care Data Integration – ISD
- Local needs assessments
- Hard Edges Scotland
- ?Linkage for research purposes

# Future possibilities

## How can we use data linkage to...?

Improve services and  
joint working

Improve understanding of

- causes
- consequences
- interventions

# Future possibilities

**What are the research priorities?**

Causes?

Consequences?

Interventions?

# Future possibilities

**How can we ensure that hidden populations are represented in data linkage projects?**





# Future possibilities

**Stakeholder involvement and knowledge exchange**



# Keeping in touch

- Details below!
  - Questions
  - Feedback
  - Collaborations
- ScotPHN Housing & Health project
- Neil – national homelessness & health lead

# References & further info

Lyons, R.A. et al. Use of data linkage to measure the population health effect of non-health-care interventions. *The Lancet*, 2014. Vol: 383, Issue: 9927, <http://bit.ly/1UqXM8x>

Rodgers, S.E. et al. Cohort Profile: The Housing Regeneration and Health Study. *International Journal of Epidemiology*, 2014. 43 (1): 52-60 <http://bit.ly/1TUCXDdu>

Morrison, D.S. Homelessness as an independent risk factor for mortality: results from a retrospective cohort study. *International Journal of Epidemiology*, 2009. 38 (3): 877-883 <http://bit.ly/1Y0GfXC>

Nielsen, S.F. et al. Psychiatric disorders and mortality among people in homeless shelters in Denmark: a nationwide register-based cohort study, *The Lancet*, 2011. Vol: 377, Issue: 9784, 25 June–1 July 2011, <http://bit.ly/1Rlo55B>