

Missingness in health care- importance, causes and solutions

Prof Andrea Williamson on behalf of the missingness research team, VHS, March 2025

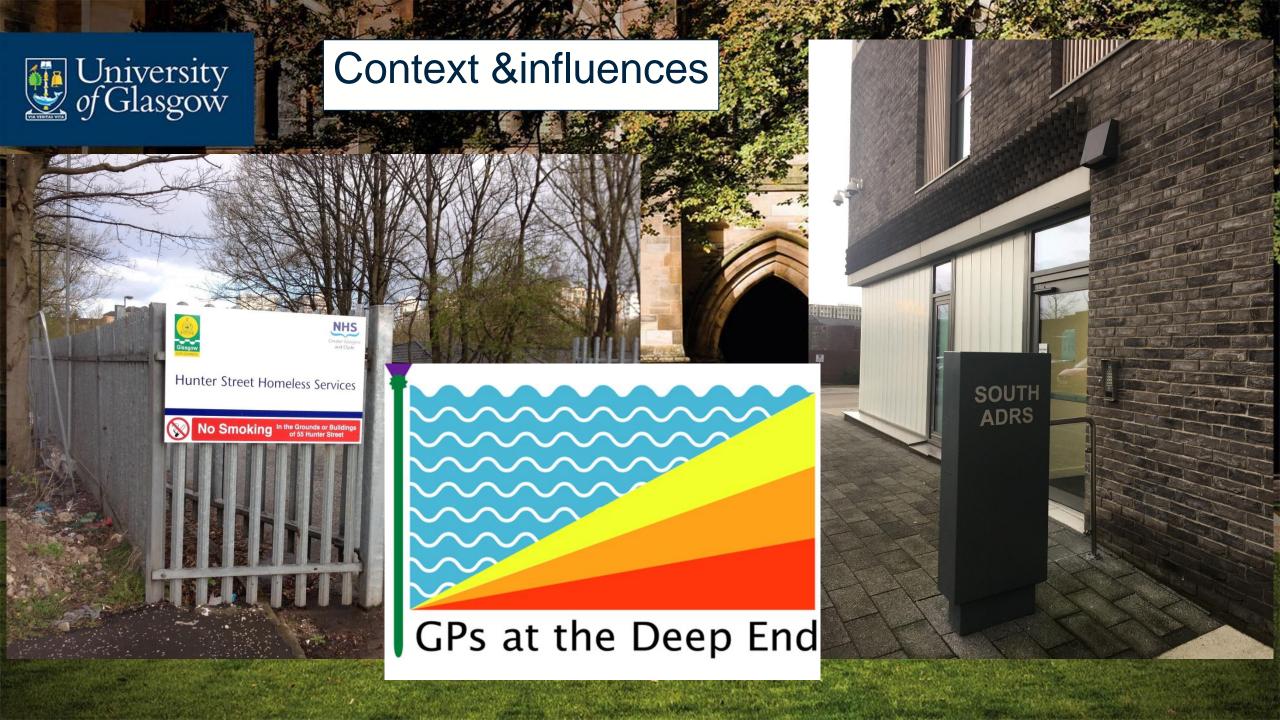


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Presentation Outline

- Background & epidemiological work
- Causes of missingness in healthcare
- Applying a missingness to healthcare



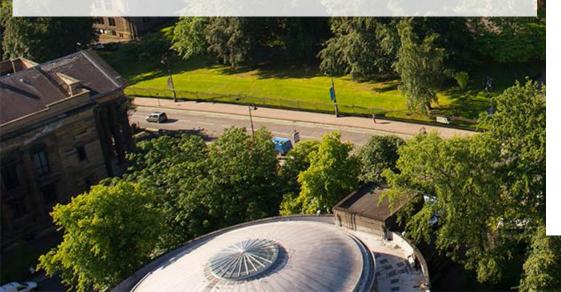


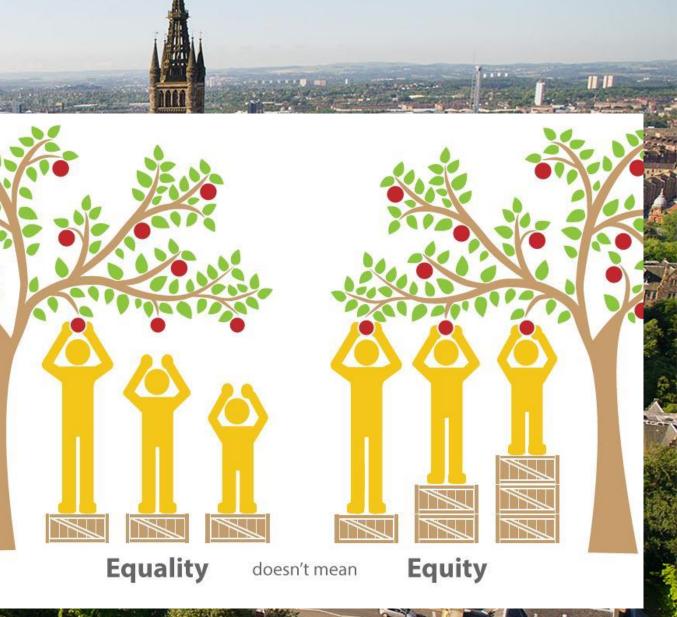
Acknowledgement

We acknowledge the survivorship of the people who are in Inclusion Health groups and who we meet and represent in our work. They continue to be an inspiration to us through their resilience and strength in the face of adversity.



The importance of equity 1

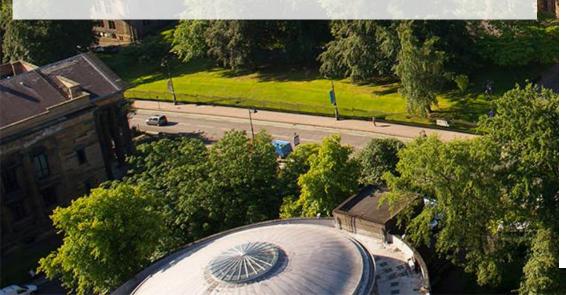








The importance of equity 2



INEQUALITY AND ACCESS

Those with least in society struggle more in accessing healthcare than those who are better off.



The impact of the SDHs on treatment burden

The Health Gradient



Source: Making Partners: Intersectoral Action for Health 1988 Proceedings and outcome of a WHO Joint Working Group on Intersectoral Action for Health, The Netherlands.

Defining 'Missingness'



"The **repeated tendency** not to take up opportunities for care, such that it has a **negative impact on the person** and their life chances"

(Lindsay et al, 2023)

- Not one or two, but multiple missed appointments over an extended period of time
- Signifies **significant and enduring challenges** in accessing and engaging in healthcare









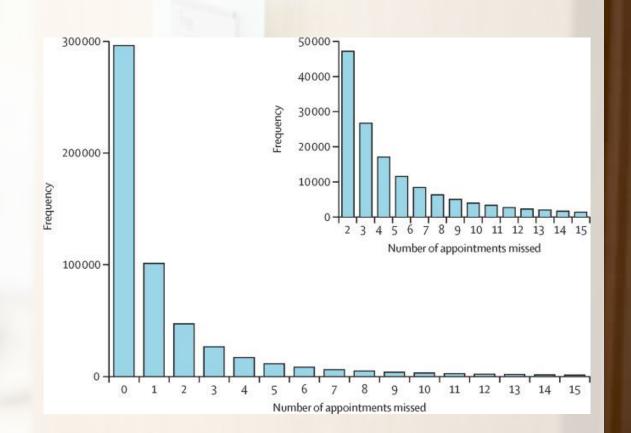
SMA Research Acknowledgements

Co-investigators: David A Ellis, Alex McConnachie & Phil Wilson Researcher: Ross McQueenie Collaborator: Mike Fleming Trusted Third Party: Dave Kelly Albasoft Participating GP practices Colleagues at Scot Gov and eDRIS



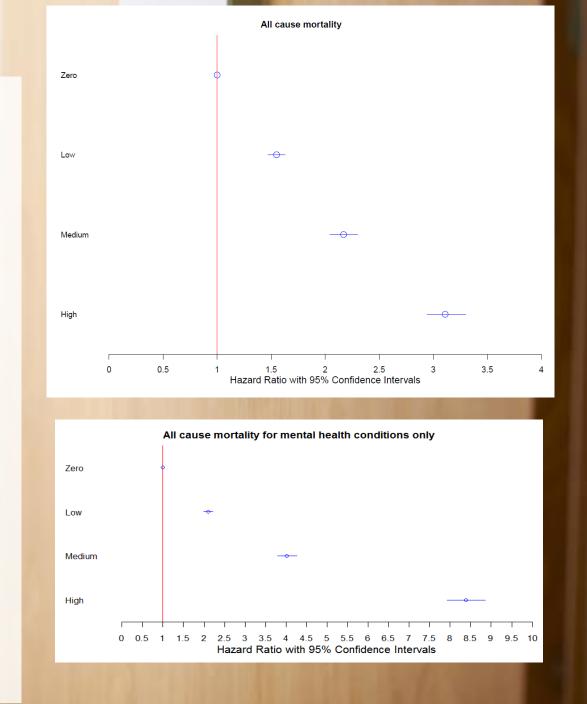
Missed appointments results

- 136 Scottish representative GP practices550 083 patient records9 177 054 consultations
- **54-0%** (297,002) missed no appointments **46-0%** (212,155) missed one or more appointments
- **19-0% (104,461)** missed more than two appointments
 - (Ellis, McQueenie et al Lancet Public Health 2017)





- **Patients** at high risk of missingness are characterized by poor health, higher treatment burden, complex social circumstances and have higher premature mortality (McQueenie et al BMC Medicine, 2019, Williamson et al Plos One 2021, Williamson et al BJGP Open 2020, McQueenie et al BMC Medicine 2021)
- General practice appointment scheduling and context is important (Ellis, McQueenie et al Lancet Public Health 2017)
- Patterns of missingness persist across secondary care outpatients and inpatient 'irregular discharges'; patients are NOT seen in ED instead (Williamson et al Plos One 2021)
- Missingness is a strong risk marker for a
 poor outcome so needs urgent attention from
 health service planners and practitioners



Current Realist Research



Dr Calum Lindsay, Dr David Baruffati, Prof. Geoff Wong, Prof Mhairi Mackenzie, Prof Sharon A. Simpson, Prof David E. Ellis, Michelle Major, Prof Kate O'Donnell, Prof Andrea E. Williamson

Acknowledgements: Elspeth Rae research administrator, Jack Brougham illustrator, research interview participants and Stakeholder Advisory Group members.









Methods



- I. Realist literature review (254 papers)
- II. Interviews (61 participants)
- III. Stakeholder Advisory Group (16 participants)

Broad range of clinical, social and inclusion health backgrounds

Missingness caused by interaction between overlapping service- and patientside drivers, shaped by wider structural context, enduring over time.



"I haven't missed very many NHS appointments, but that's through *vast* amounts of effort. All these factors interplay and [...] it's surprising anyone ever gets outside the door because it's all stacked against you." (Sharon, Peer Support Worker, Inverclyde)

What causes missingness? (Lindsay et al 2024)



- Patients not feeling the service is 'for' them: necessary, helpful, appropriate, safe.
- Past experiences: mistreatment, poor communication, power imbalances, offers do not help/'fit.'
- Getting there: travel, transport, space and place.



"you see yourself as one of the least deserving people, when somebody reaches their haund... [...] because you believe already that you don't deserve it, you arenae gonnae take the haund..."

(Jim, Glasgow)

What causes missingness(2)? (Lindsay et al 2024)



- Access rules: difficult to understand/navigate; gatekeeping; delay; inflexibility; errors/mistakes.
- Competing demands/limited resources: appointments, work/money, relationships, survival.
- Mistrust/distrust: stigma, trauma, discrimination, mistreatment, misunderstanding, "easier" patients.



"There's a constant dynamic of conflict [...] and this is a theme you'll find from anybody you speak to, who has a child or an adult with complex health needs, a constant fight. And some people; they get exhausted, and they give up, and I can't blame them." (Jodie, Glasgow)

Intervention Development Process



- Synthesising literature, interview and StAG findings.
- Extended stakeholder involvement for insight, contextual relevance and equity.

"Changing relationships, displacing existing activities and redistributing and transforming resources" (Wight et al 2016)

The 6SQuID Method

- Define and understand the problem: from the classical model to the missingness lens.
- 2. Identify factors that can and should be changed.
- ¾. Identify how to bring about change – the "change mechanism" - and how to deliver it in context.

Redefining the problem – a missingness lens



The 'situational' model

Patient 'responsibilisation'

Shallow, monocausal perspective

Technical, practical, logistical

Standardised, service-oriented

Biomedical models of healthcare

Hierarchical, service-oriented solutions

A missingness lens

Services committed, resourced, incentivised to identify and address barriers

Complex causality for individuals, in contexts (tailoring)

Safety - structural, cultural, relational, psychological

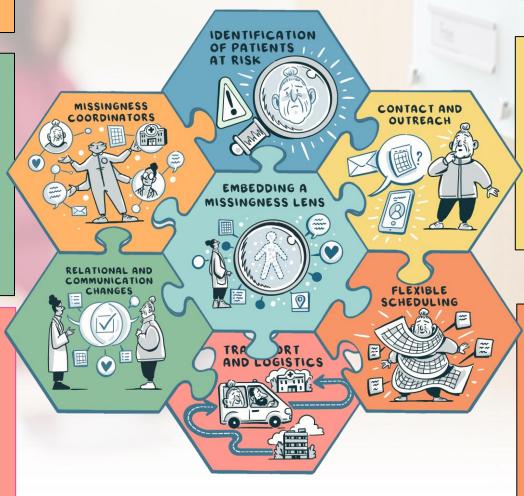
- Proportionate universalism and positive selectivism
- Condition Competency, addressing SDOH, poverty, & marginalisation

Person-centred approaches

Coordination: bridging work; address SDOH and patient priorities, advocacy and promoting system change. Open-ended, flexible, relational. **Resourcing** a change in perspectives, practices, systems; staff development and support; build in localised perspectives; means for monitoring and accountability Identifying and tracking local patterns and trends. Exploring barriers while building relationships. **Building a picture** – individual + collective.

Person-centred, traumainformed practices. Choice/continuity of staff; addressing comms needs and power dynamics; advocacy work.

A stepped, needs-led approach: Tickets/reimbursement > taxis > accompaniment > outreach/inreach.



Contact before/after appts –

reminders; orientation; explore immediate barriers; offers of support or care; check-ins; points of contact for patients.

Prioritising for flexible forms of access: choice of when, where, how; longer appts/opening hours;

Missingness Interventions (unpublished)



CONTACT AND

Designed as a 'suite' of activities – "a 'recyclable' core set of processes that can be judiciously applied." (Pearson et al 2015)

Implemented on a needs-led, patientcentred basis, oriented around **embedding a missingness lens.**

A systems perspective – creating conditions to disrupt the system that creates and sustains missingness.

Conclusions



- Missingness a strong risk factor for negative outcomes BUT has clear causes that can be addressed.
- Requires a perspective shift towards a 'missingness' lens, with a suite of interventions guided by these strong principles.
- Issues at structural/policy 'level' need to be tackled but these are beyond our scope.
- Provides a purposeful organising framework for Inclusion Health and mainstream services.

Thank you!

Addressing missingness already? email our research team missingness@glasgow.ac.uk Direct email address for Andrea Williamson andrea.williamson@glasgow.ac.uk Further information about the research (papers, presentations, what we are doing now) can be found <u>here</u> on the Missingness Interventions, University of Glasgow webpage









NIHR National Institute for Health and Care Research