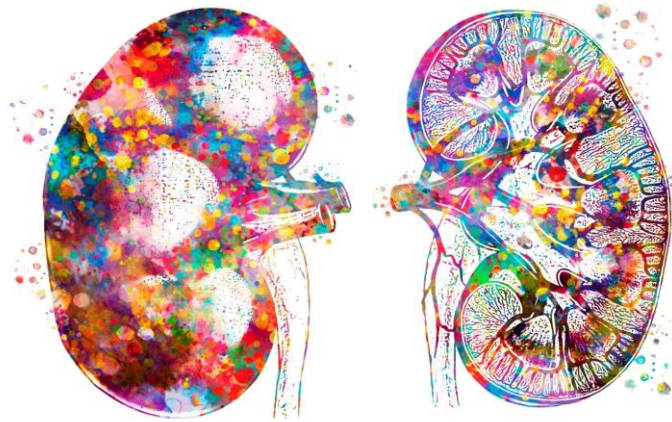


Understanding and reducing inequalities in **early** kidney health care and outcomes in Scotland



KINDER study – Kidney Inequalities: Needs, Data, Experiences, Response

Audrey Hughes, Eilidh Cowan, Buse Keskindag,
Tom Blakeman, Magda Rzewuska Dias, Simon Sawhney



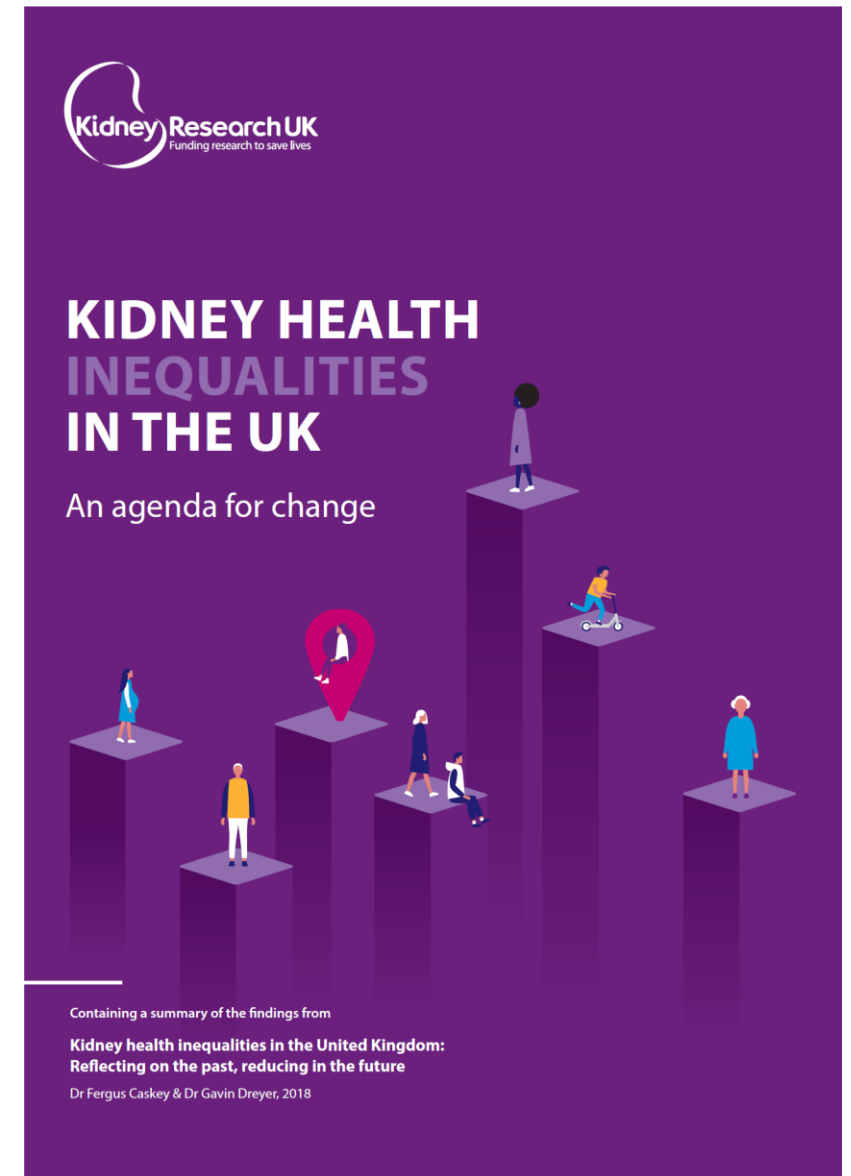
Why **early** kidney care?

More people developing kidney failure in lower socioeconomic and minority groups

Challenges with access to dialysis and transplantation

“So long as we continue to fight the battle downstream...we are doomed to frustration, repeated failure, and perhaps ultimately to a sicker society”

McKinlay JB. A case for refocusing upstream: the political economy of illness.
American Heart Association 1975



Prior work “upstream”

Methods 50k incident kidney disease

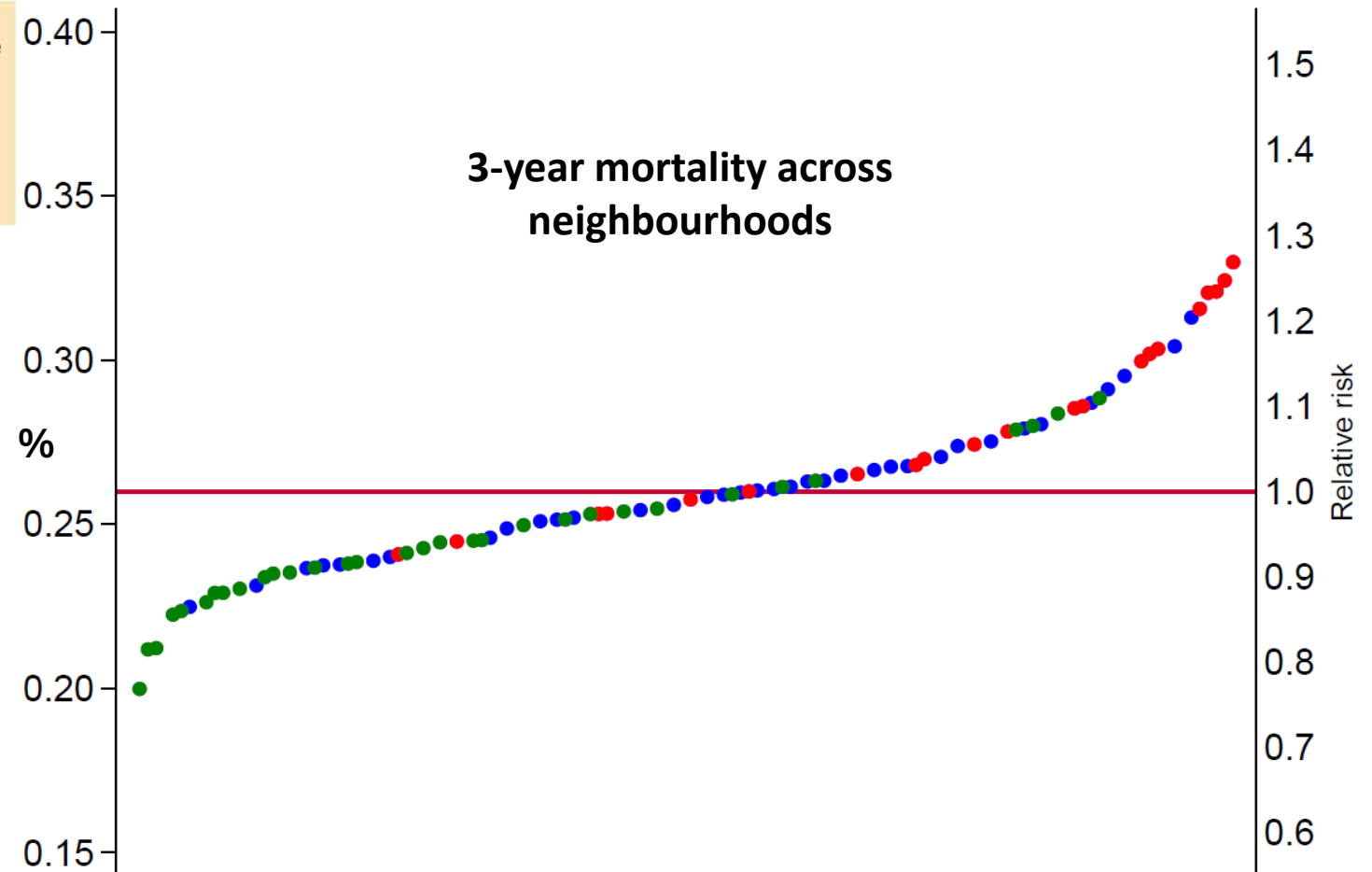


Routine population data
Grampian, UK

Most deprived

Intermediate

Most affluent



Need to dig deeper

Relevant sources
Reliable measures
Reasons

“Classification systems both structure and constrain the world they describe:
the conceptual framework through which medical reality is stabilised...”

Diagnosis and nosology in primary care. David Armstrong. Social Science & Medicine; 2011



Audrey Hughes PKD Charity
Patient Involvement and
Engagement Officer



Nicki Scholes-Robertson
Kidney Patient Advocate
SONG working group



Mike Melvin
Aberdeen Council of Voluntary
Organisations (ACVO)

Why link to national census?

“The most expensive single statistical undertaking - getting it right matters... to base important decisions on trusted and high-quality data... in all areas of society”

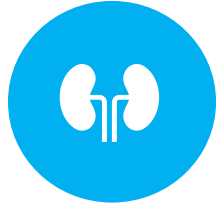
Extensive validation and stakeholder work for every question

Whole population

Self-reported

Outside of a health context

WP1: areas of focus



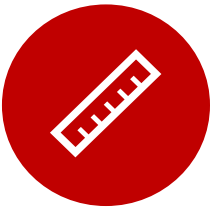
Health Outcomes



Clinical Care



Life Participation



Measures: **socioeconomic**, mental health,
rurality, social isolation, work

Cohort profile

New cohort formation (GLOMMS-CORE):

Linkage of kidney records
and a census of 458,897
North Scotland residents



Incident kidney disease
presentations

eGFR <60	n= 48,546
eGFR <45	n= 29,081
eGFR <30	n= 16,116
AKD	n= 28,097

% residents presenting with early disease (eGFR <60):

By household:

Professionals (lawyers)	7.9 %
Unskilled (cleaners)	13.4 %
Unemployed (no job)	13.5 %

By neighbourhood quintile:

Most affluent	8.9 %
Most deprived	10.0 %

Followed up 2011-2021

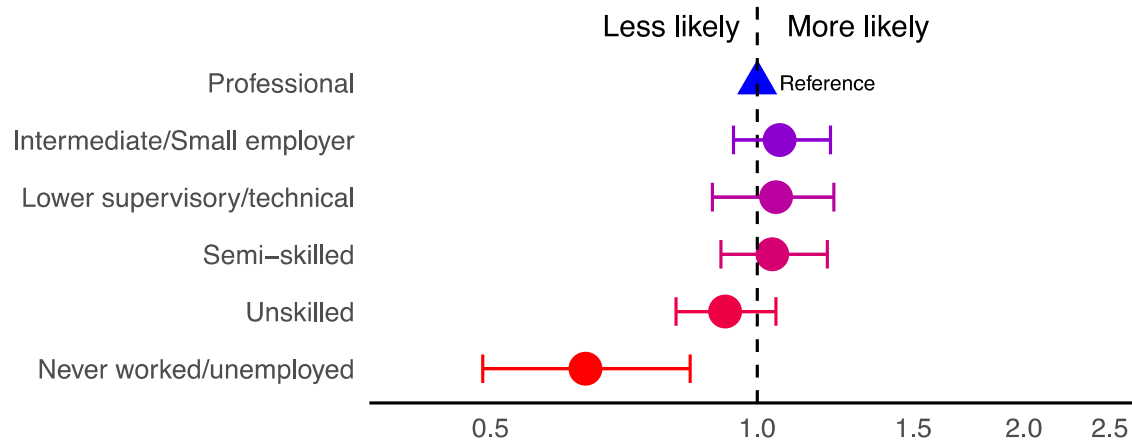
Inequity of health outcomes

– separate dimensions of deprivation

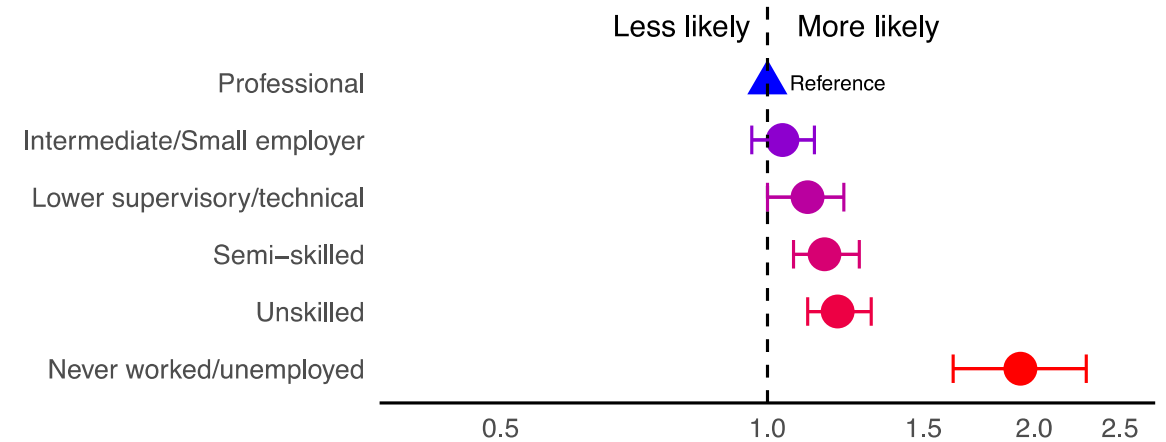
<u>Household socioeconomic status</u>	<u>Neighbourhood deprivation quintile</u>				
	5 (affluent)	4	3	2	1 (deprived)
managers/professionals	1.00	1.06	1.18	1.14	1.31
intermediate/small employer	1.16	1.16	1.11	1.26	1.39
lower supervisory/technical	1.23	1.23	1.24	1.29	1.91
semi-skilled	1.29	1.24	1.27	1.36	1.65
unskilled	1.36	1.29	1.37	1.41	1.70
never worked/unemployed	1.98	1.89	1.87	2.04	2.06

Inequity of clinical care – permeability

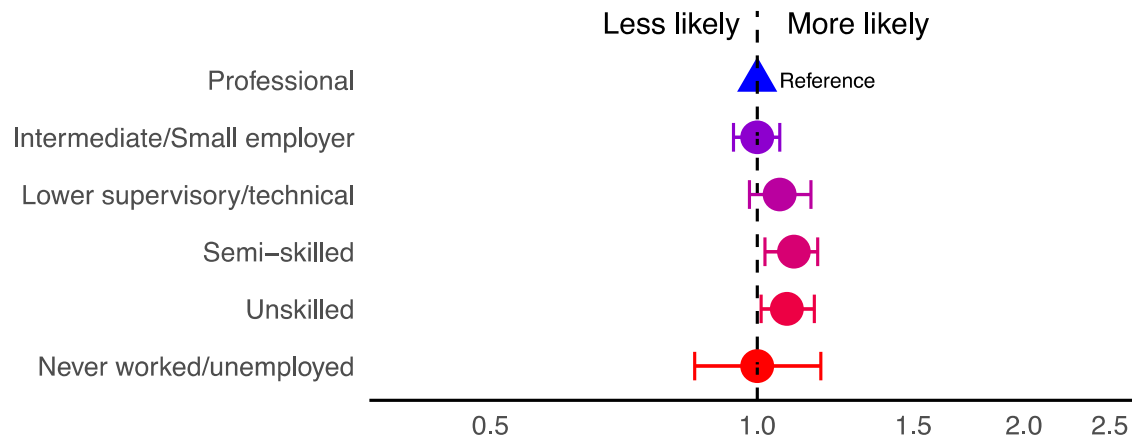
Annual blood screening (diabetes, vascular)



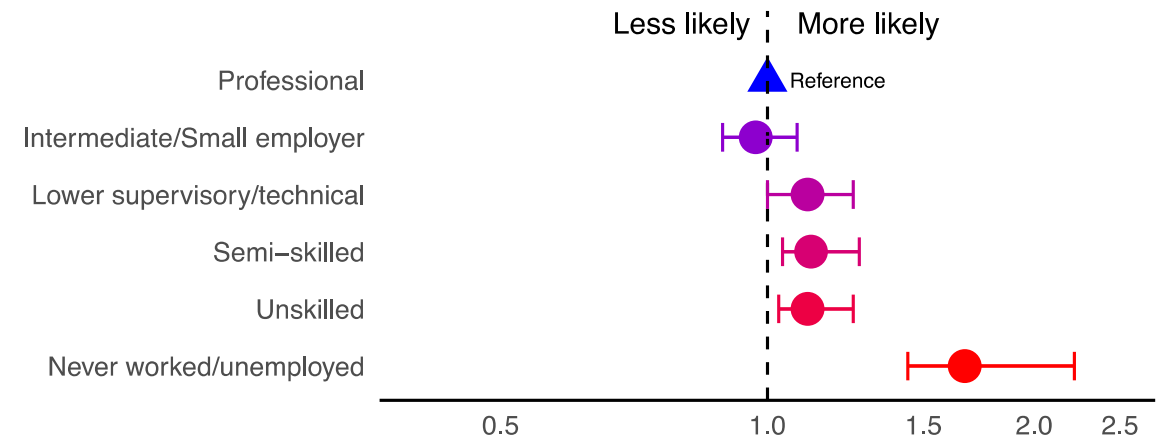
Presenting “late” (skipped CKD 3)



Testing for chronicity / staging



Attending A&E



Struggle to access care

50k people with early CKD	Professional	Low skill job	Unemployed
Mental health condition	3%	5%	12%
Living alone	22%	30%	56%
No access to a car	11%	33%	62%
Learning difficulty	3%	6%	15%
Language difficulty	3%	10%	14%
Hearing difficulty	15%	18%	21%

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*“Sometimes, [going to the doctors] could be hard... **I try to keep money aside to use a taxi** because I got arthritis as well so walking can be problem for me. (Female, 55-50)*

*“I would come into work and my own manager would tell me things like, ‘I need to quit because **they are sick of paying an invalid...**’” (Male, 30-35)*

*“**I didn’t think there was a problem to even worry about** and I just carried on as normal.”
(Female, 60-65)*

SONG-CKD



1 CORE OUTCOMES

Critically important to all stakeholder groups
Report in all trials

2 MIDDLE TIER

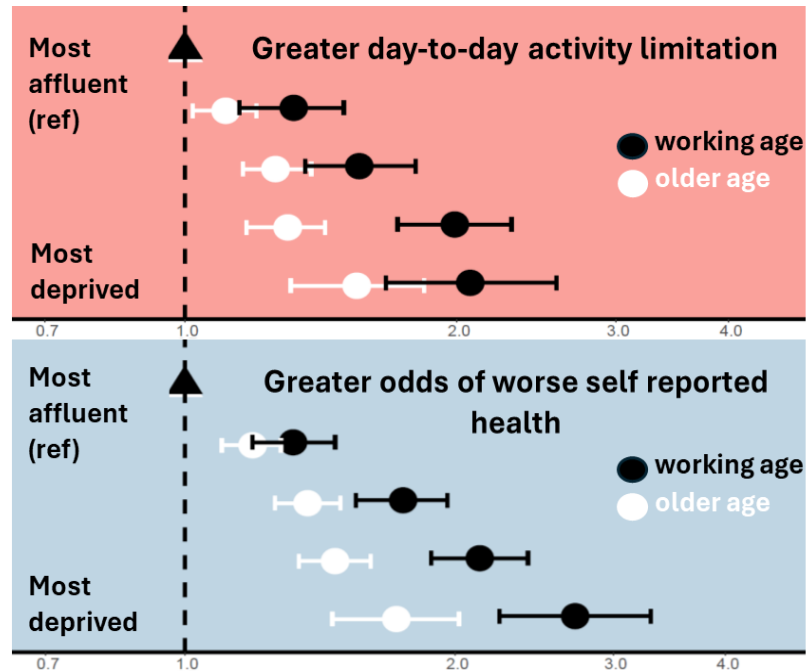
Critically important to some stakeholder groups
Report in some trials

3 OUTER TIER

Important to some or all stakeholder groups
Consider for trials



Inequity of day-to-day life participation



(1) “How is your health in general?”

(2) “Are your day-to-day activities limited because of a health problem or disability which has lasted, or is expected to last, at least 12 months?”

“I didn’t feel I could go to my primary care to talk about it. **I was worried I’d be wasting their time.**”
(Female, 50-55)

“**You can’t discuss it with them** because you are just there to have those tests that are taken”
(Male, 50-55)

Reflections

Measuring inequity is tricky - hidden, intersectional

Kidney health care is often inequitable and reactive

Impact of health on day-to-day life is under addressed

What are the boundaries of kidney health and care?

