

Observational research / data science in kidney disease

Simon Sawhney, kidney consultant, Aberdeen

simon.sawhney@abdn.ac.uk

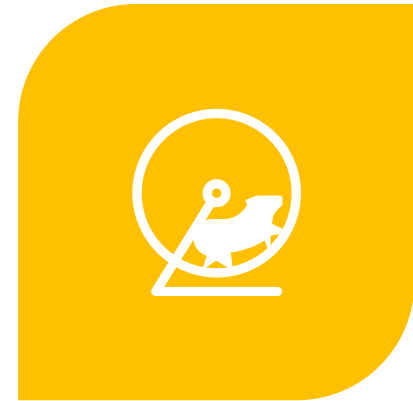
What types of kidney research happen in Scotland?



OBSERVING EVERYONE
FROM A DISTANCE

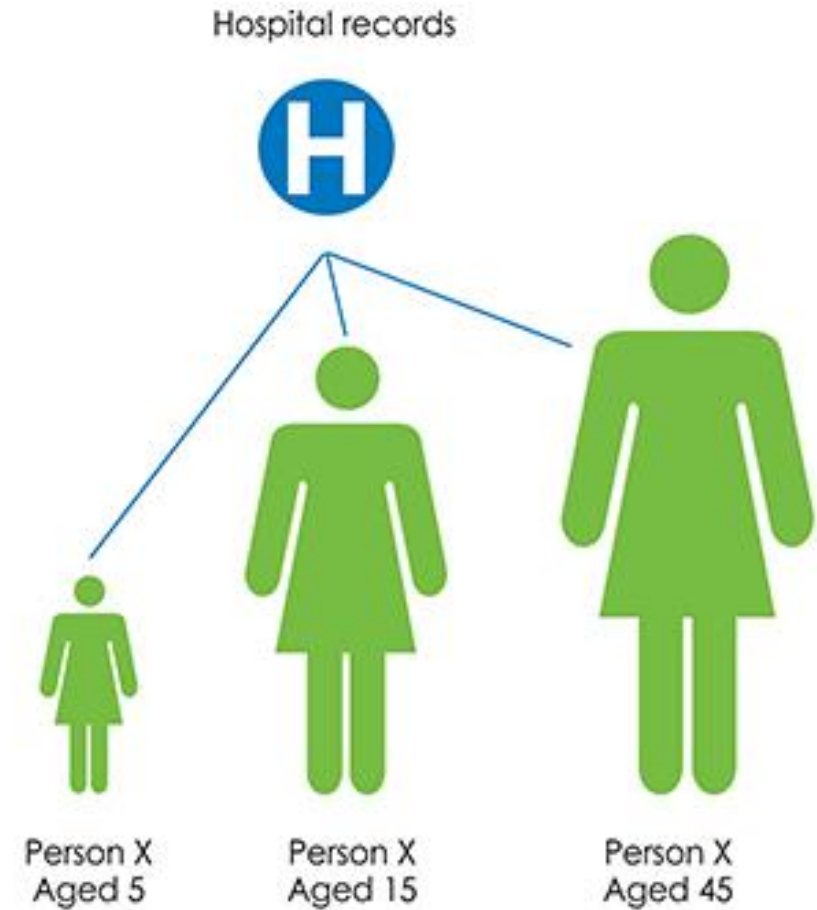
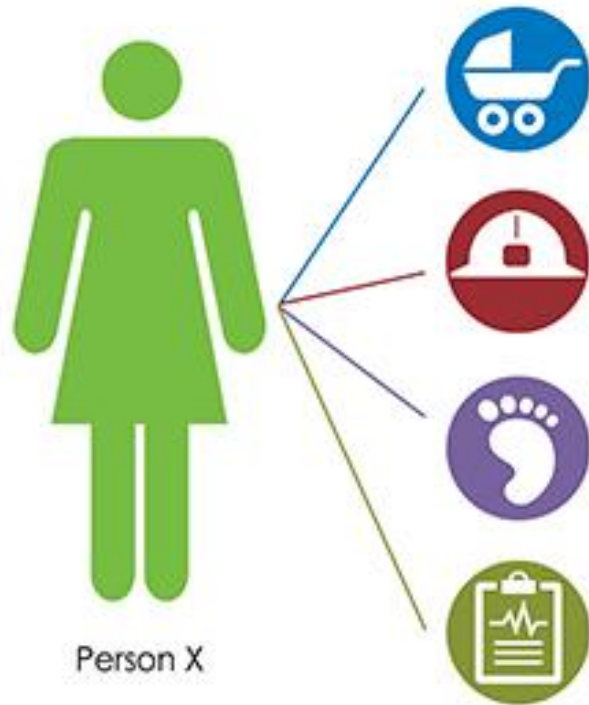


WATCHING A SMALLER
GROUP CLOSELY



TRYING OUT NEW
WAYS OR TREATMENTS

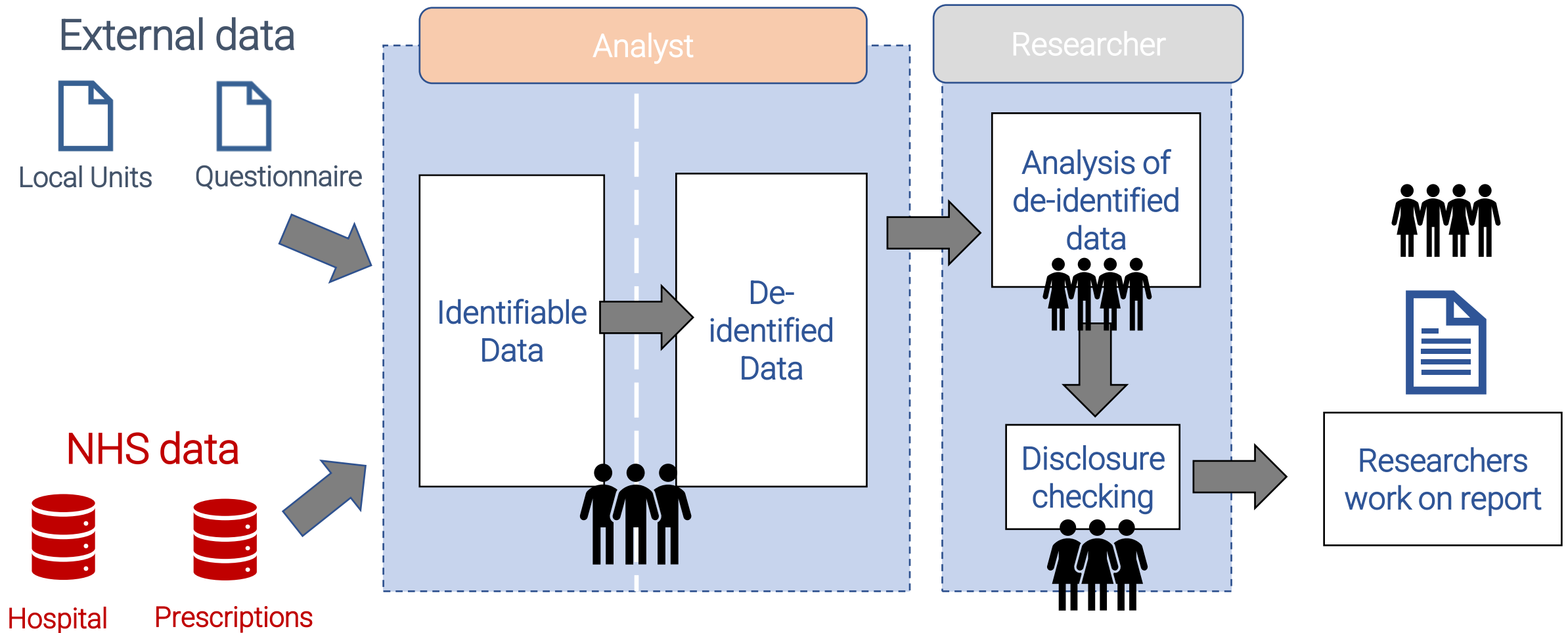
Observing from a distance – the data footprint



Safety first



Trusted Research Environment (the engine room)

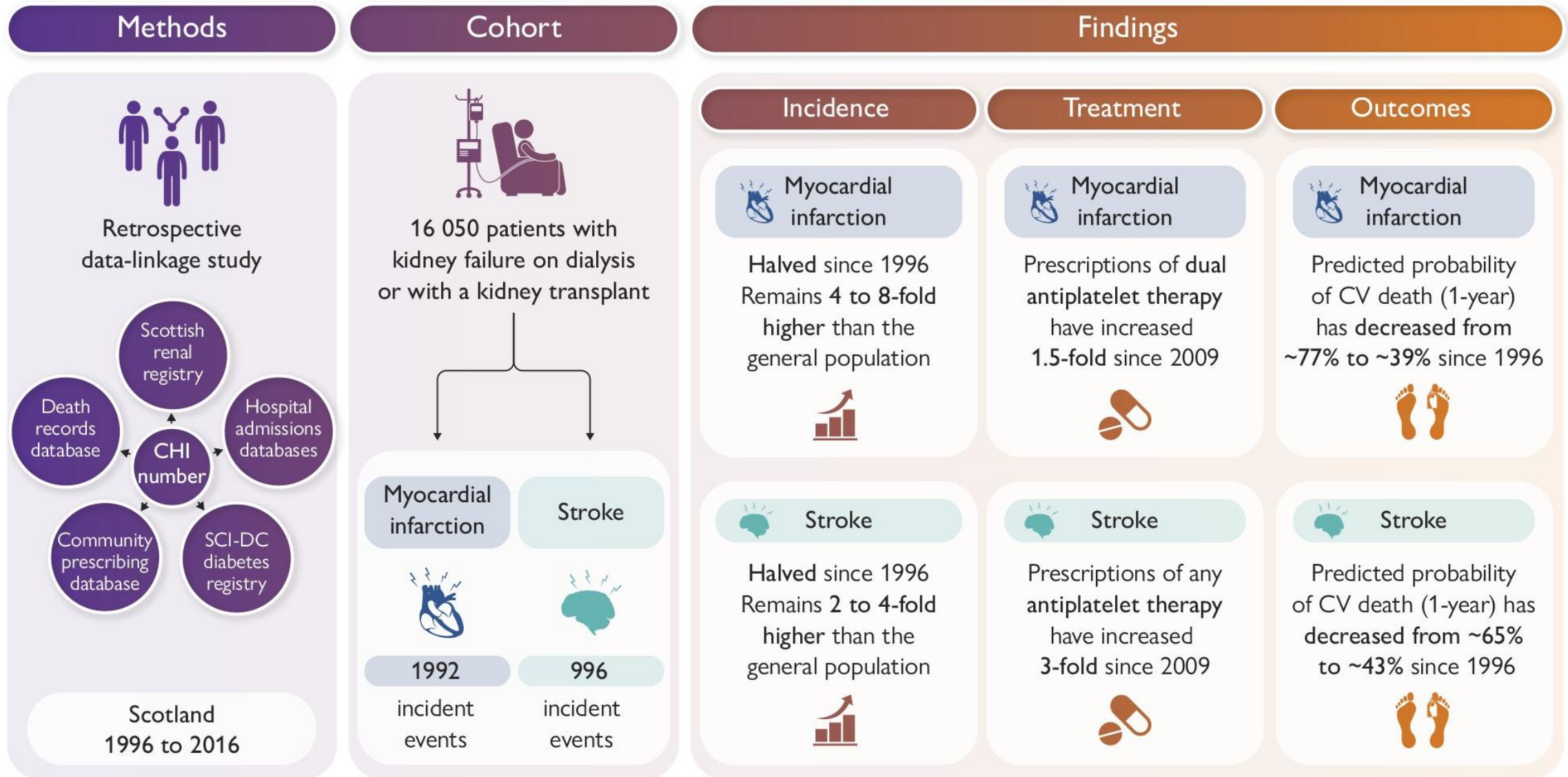


The melting pot (with cake)



Two examples

Kidney replacement therapy: trends in incidence, treatment, and outcomes of myocardial infarction and stroke in a nationwide Scottish study



Care processes and outcomes of deprivation across the clinical course of kidney disease: findings from a high-income country with universal healthcare

Background

This study contrasts the extent and consequences of inequity of care among people newly presenting across the full clinical course of kidney disease, independent of comorbidities.

Methods



Routine population data
Grampian, UK

Care processes – people in deprived areas...



Present more
urgently

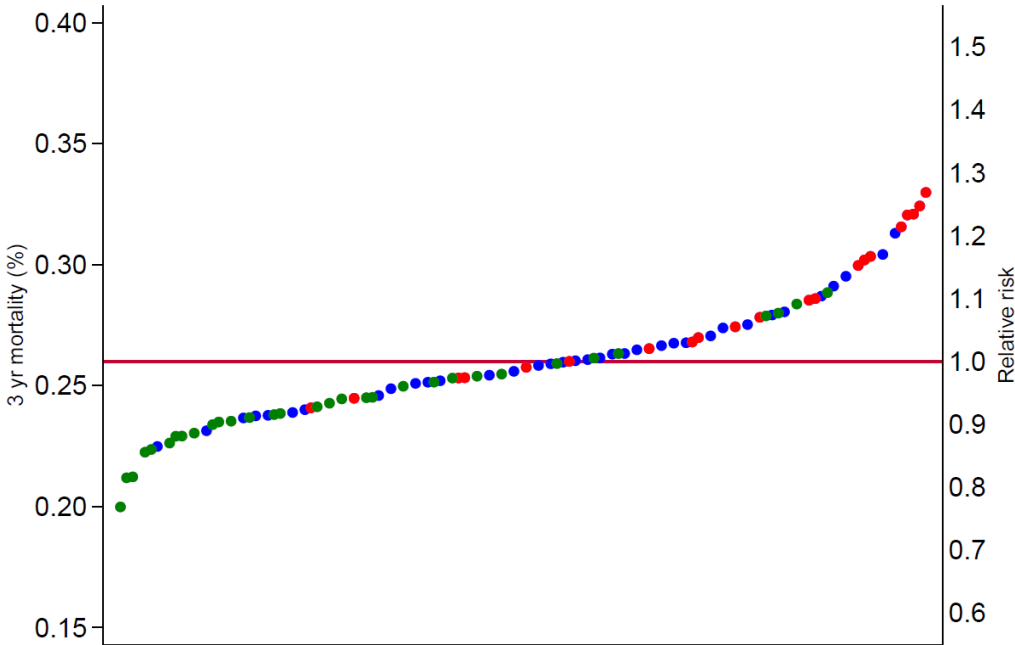


Less blood
monitoring



More missed
appointments

Graphic of
3-year survival
of people
with early
kidney disease



George Street
Heathryfold
Seaton
Torry
Ashgrove
Peterhead harbour