



Glasgow's Health Data: A cohort of 1.2 million

Professor Colin McCowan

ROBERTSON CENTRE FOR BIOSTATISTICS GLASGOW CLINICAL TRIALS UNIT







The Glasgow Effect





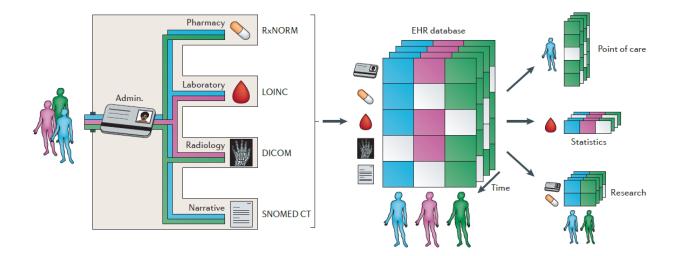


Routine Data

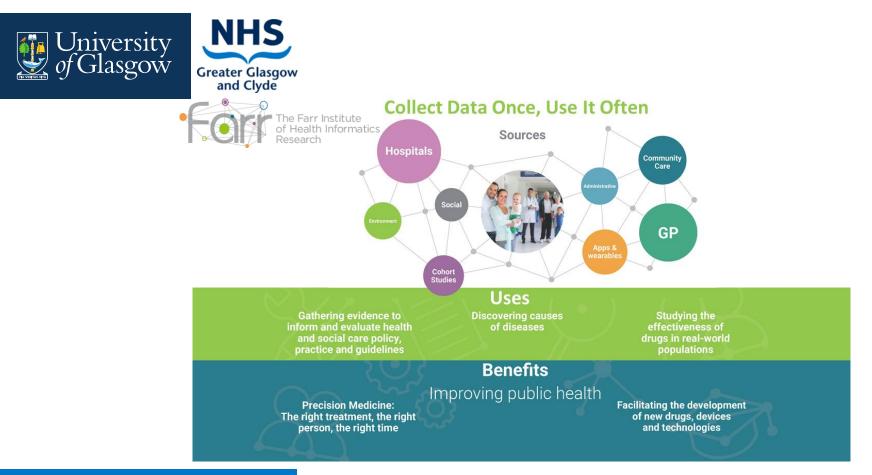
- Routine Data
 - ""routine data" is data collected as byproducts of clinical care by the clinician and as an integral part of the process of care."
 Williams JG, BMJ 1995;310;665-666
- Data Linkage
 - The process where two or more pieces of information from different sources can be linked together to produce new insights





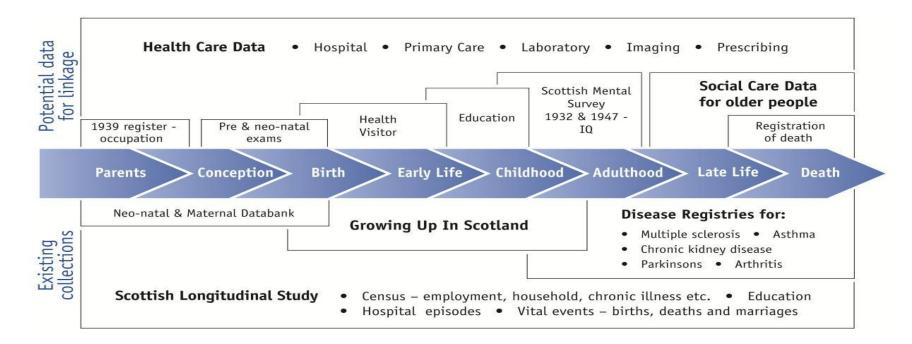


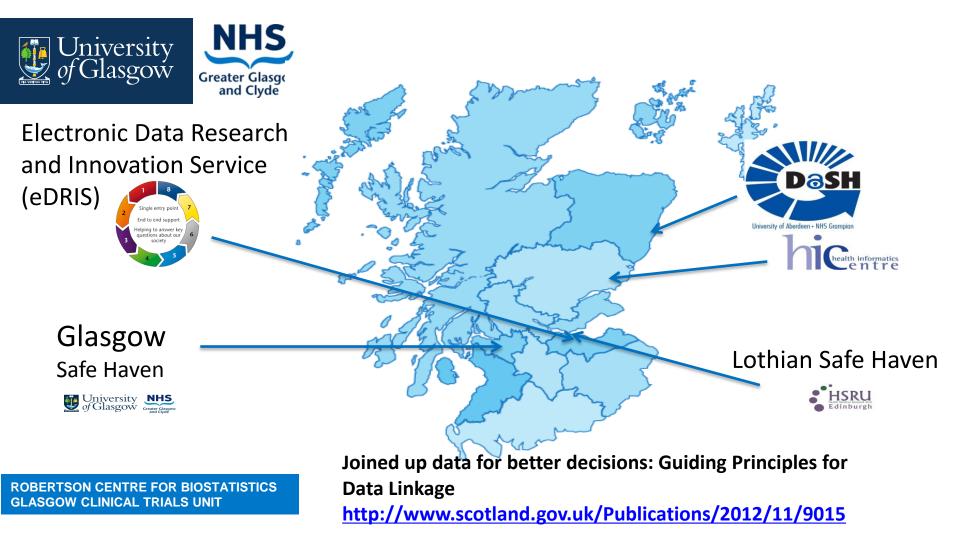
Jensen PB, Jensen LJ, Brunak S. Mining electronic health records: towards better research applications and clinical care. Nat Rev Genet. 2012 2;13(6):395-405.

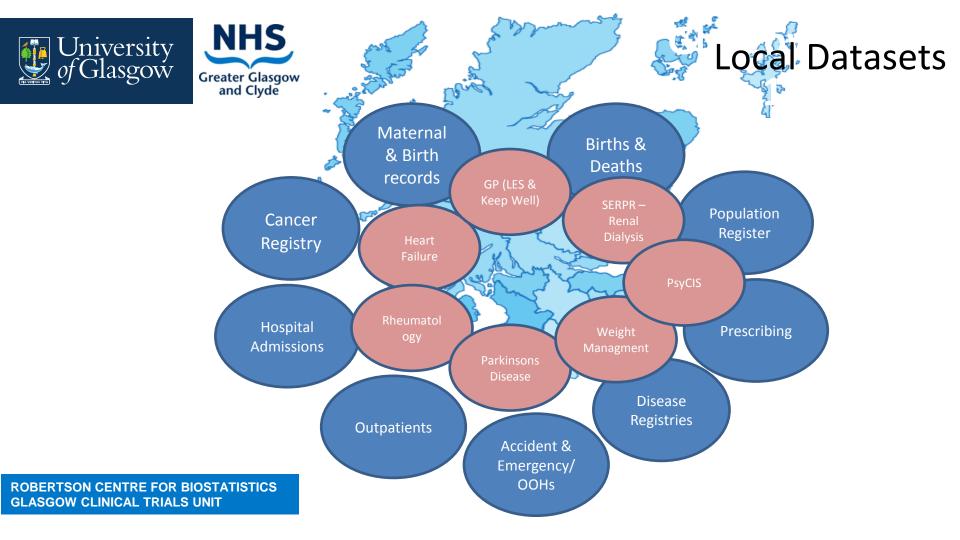








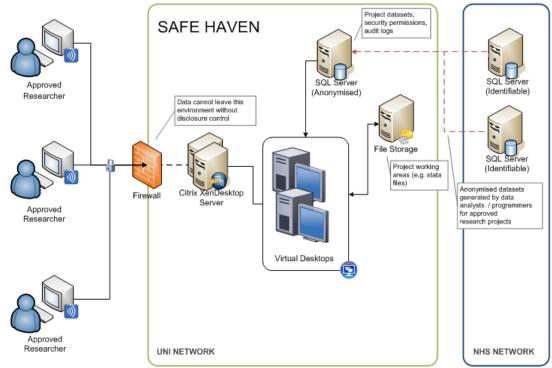








Safe Haven







Cancer Screening in Women in Glasgow

CANCER

RESEARCH

Public Health

Agency

HSC,

- Lower uptake of bowel screening in women than for breast or cervical screening
- Study: Link screening records and examine difference in • characteristics for uptake. Invite women for interview to explain why they use other cancer screening services but not bowel
 - National Awareness and Early Diagnosis Initiative (NAEDI)

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Department

of Health

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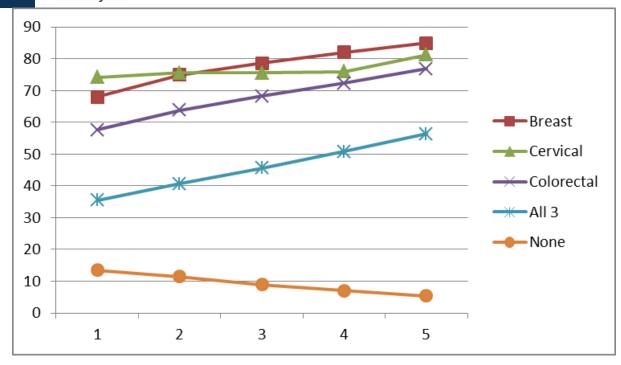


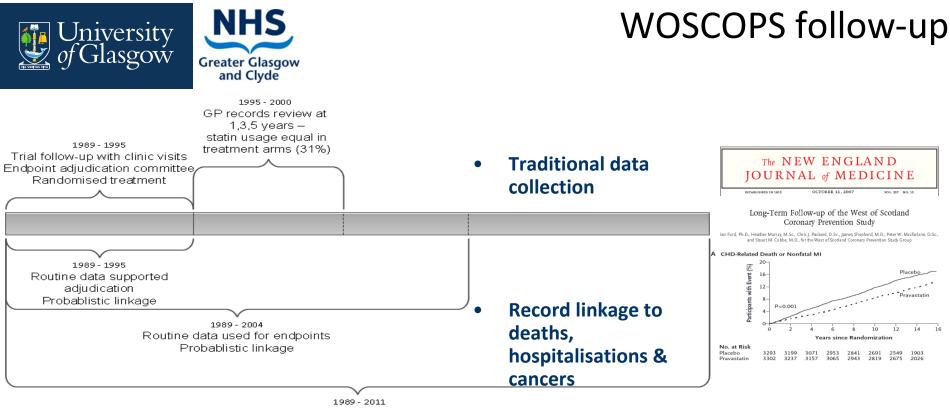






Cancer Screening in Women in Glasgow



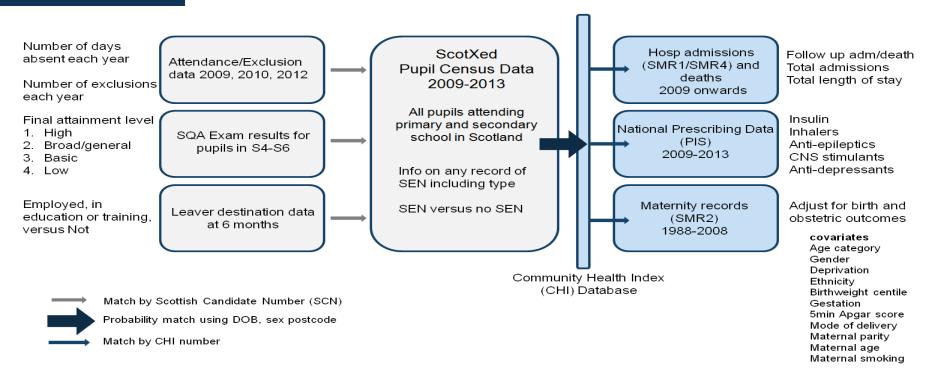


Routine data used for endpoints Probablistic linkage





Cross-sectoral Linkage





- Still using same epidemiological techniques that were used with manual data collection
- Safe Haven services are still relatively new and are developing
- Governance approvals for health data are well established but less so for other sectors
- Governance regulations require very secure platforms which preclude use of many HPC solutions





Thank You

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Silver Award

