The Usher Institute

Cathie Sudlow
Director, Centre for Medical Informatics
Director, Health Data Research UK Scotland
• Centre for Global Health Research
• Centre for Population Health Sciences
• Centre for Medical Informatics
• Edinburgh Clinical Trials Unit
• New initiatives:
  - Centre for Biomedicine, Self and Society
  - Health Data Research UK: Scottish substantive site
Research areas

- Acute care
- Addiction
- Allergy and respiratory (asthma)
- Cancer
- Chronic disease epidemiology (diabetes, stroke, cardiovascular)
- Clinical trials & statistical methodology
- Dementia
- eHealth
- Ethnicity and health
- Families and relationships
- Global health
- Medical informatics
- Molecular epidemiology
- Palliative care
- Public health research & policy
- Social studies of health & medicine
- UK Biobank
Teaching and learning

- PhD programme
- Postgraduate taught degrees
  - MSc Clinical Trials
  - Postgraduate Certificate in Data Science
  - Master of Family Medicine
  - MSc Global eHealth
  - Postgraduate Certificate in Global Health Challenges
  - Master of Public Health
- Undergraduate MBChB
Vision

Established partnerships: NHS, public, academia, industry

National, longitudinal, dynamic e-cohort

Sharing data, knowledge and resources

Towards a vision for the whole UK (65 million)
Assets

Rich national data and tissue assets, linked via CHI

World class health and informatics research capability

5.4 million people

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<th>Research initiatives</th>
<th>Modernising public health</th>
<th>Actionable health data analytics</th>
<th>21st century trial design</th>
<th>Precision medicine</th>
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<td>National e-cohort: 21st century public health research</td>
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<td>Deriving and applying health-related phenotypes at scale</td>
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Funding opportunities

- Scottish site initial award: £5M for 5 years (10-20 year vision)
- Rutherford/UKRI HDRUK fellowships (3 to Edinburgh): £2.5M
- Capital infrastructure: £10M to HDRUK in next few months
- UKRI/ISCF/Innovate UK, AI in digital diagnostics: £50M
- Digital innovation hubs: £40M for around 5 hubs (infrastructure + exemplars)
- Strategic charity partnerships: BHF, Asthma UK