Using linked national datasets for health service evaluation

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Department of Health Services Research and Policy

Ajay Aggarwal, Nick Black, Christian Brand, Susan Charman, David Cromwell, Rebecca Geary, Katie Harron, Helen Hogan, Andrew Hutchings, Ipek Gurol-Urganci, Katriina Heikkila, Jil Mamza, Belene Podmore, Jan van der Meulen, Kate Walker, Dave Wallace

Collaborative units in RCS and RCOG
Data sources

- Large national clinical databases
- Hospital Episode Statistics
- National Cancer Registry data
- Patient-reported outcomes

Under development: linkage with
- Primary care
- Laboratory data
- Non-health data
  - Education data
  - Social care
  - Employment / earnings / benefits
Using linked national datasets for health service evaluation

- gynaecological cancer
- prevention of neonatal infection
- urinary incontinence
- heavy menstrual bleeding
- vascular surgery
- hip fracture
- liver transplantation
- bowel cancer
- breast cancer
- oesophago-gastric cancer
- prostate cancer
- cleft lip and palate repair

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patient characteristics
use of administrative data
determinants of variation
health service delivery
clinical and cost effectiveness
avoidable hospital mortality
development of performance indicators
risk adjustment
use of linked data
continuous monitoring
patient-reported outcome measures
Research
development of performance indicators
determinants of variation
health service delivery
clinical and cost effectiveness
avoidable hospital mortality
use of administrative data
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continuous monitoring
patient-reported outcome measures
LSHTM

Collaborative environment

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Access to data
Information governance
Secure data environment
Linkage
Data management
Coding
Analysis