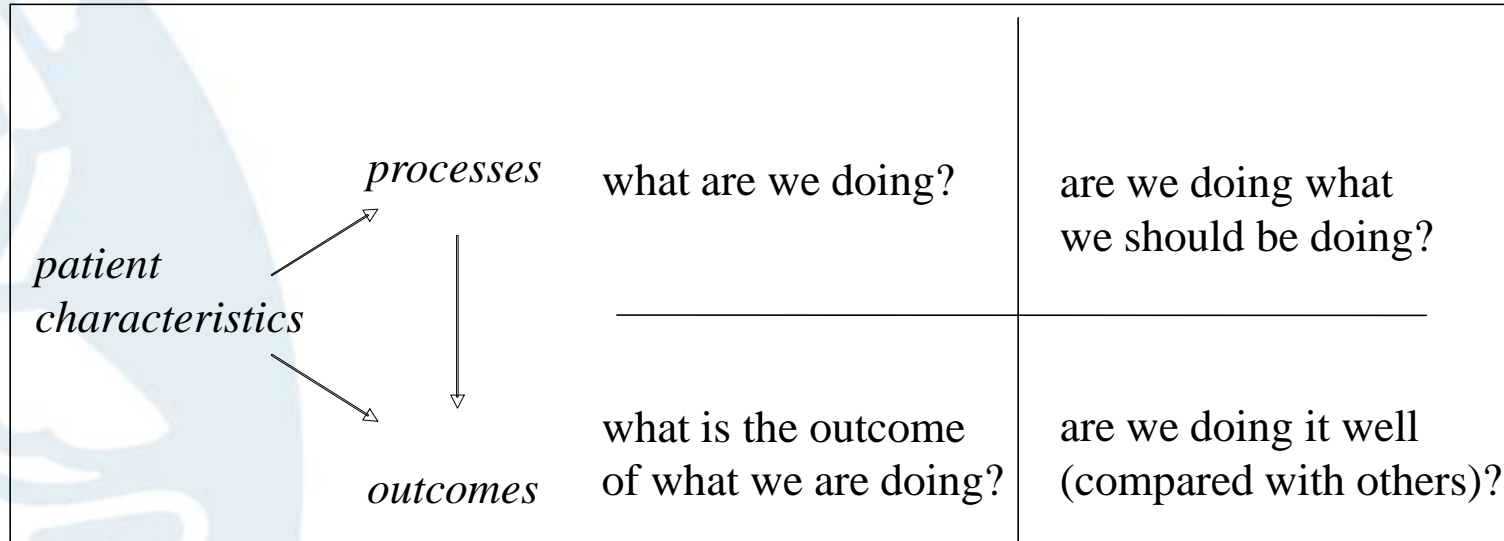


Using linked national datasets for health service evaluation



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



linked at patient level

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

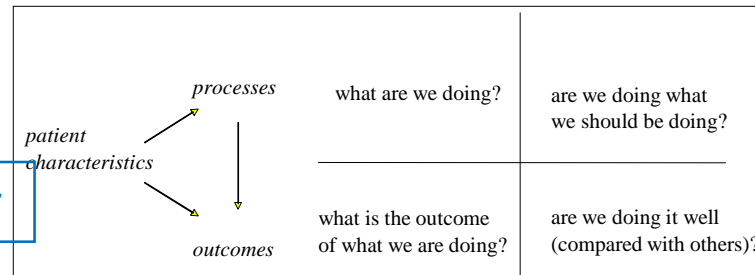
prevention of neonatal infection

urinary incontinence

obstetric care

heavy menstrual bleeding

oesophago-gastric cancer



vascular surgery

hip fracture

prostate cancer

liver transplantation

cleft lip and palate repair

bowel cancer

emergency laparotomy

breast cancer

Research

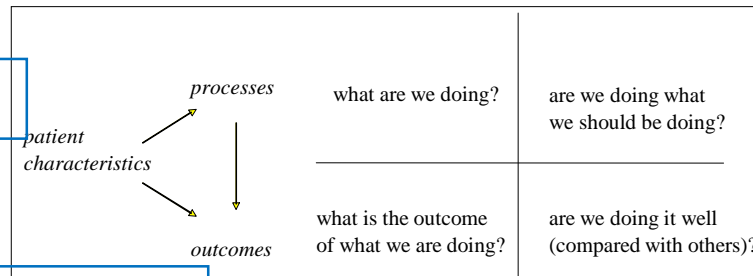
use of administrative data

development of performance indicators

health service delivery

risk adjustment

determinants of variation



use of linked data

clinical and cost effectiveness

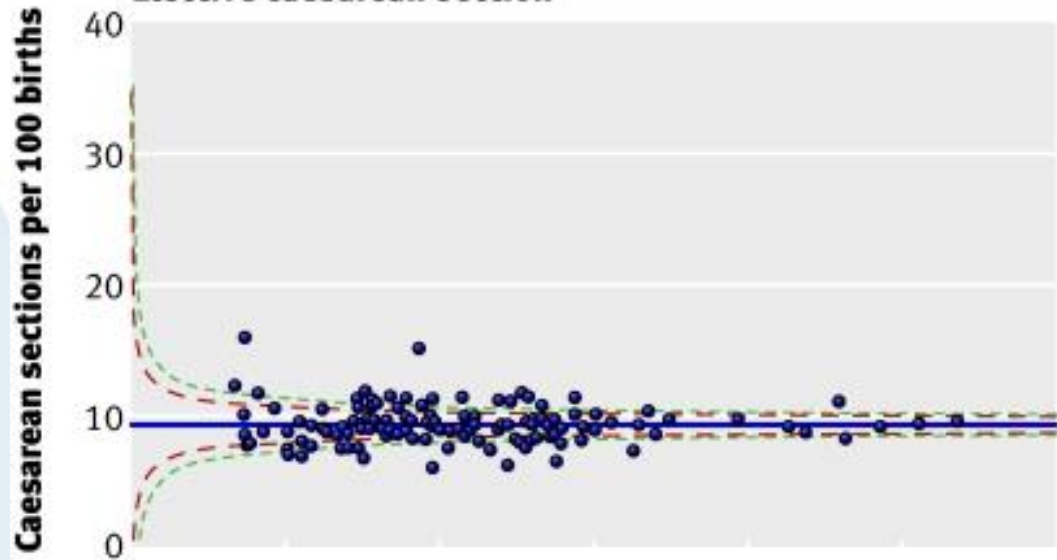
continuous monitoring

avoidable hospital mortality

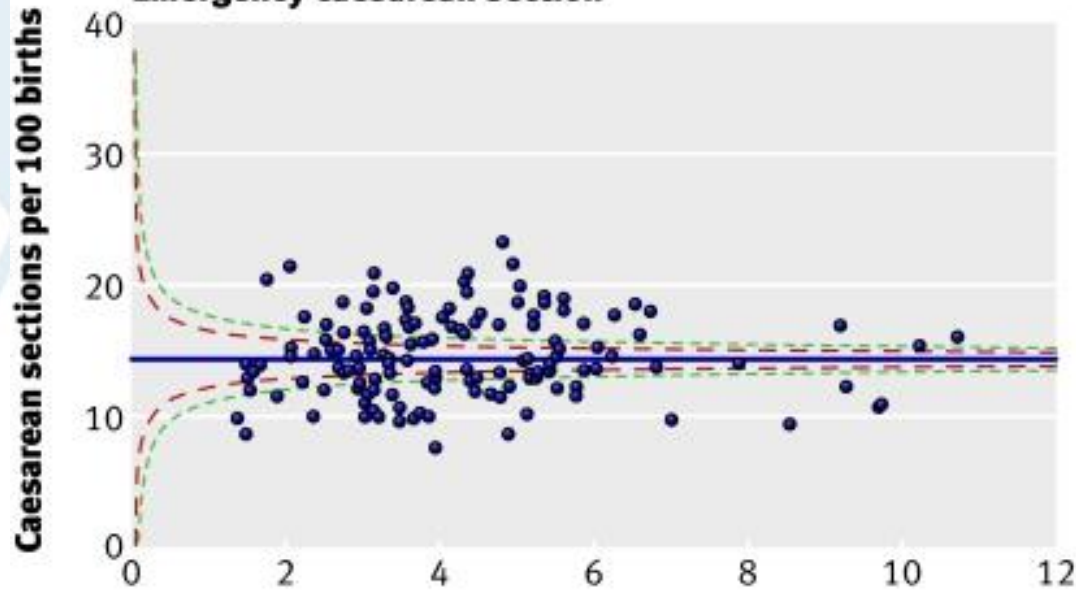
patient-reported outcome measures

● Trust rate - - - 95% limits
— English average - - - 99.8% limits

Elective caesarean section



Emergency caesarean section



LSHTM

Collaborative environment



Access to data

Information governance

Secure data environment

Linkage

Data management

Coding

Analysis

