

Clinical Information Analysis (CIA) Programme

Exploiting Linked DataDr Ken Lloyd & Sue Forsey











Cancer Centres



Darlington

CIA programme

- Established 9 years
- Now covering approximately 8 million population
- Validated and consistent linked data
- Located in the Oxford and Trent Cancer registries
- Covers all modalities of treatment, linked to registry information

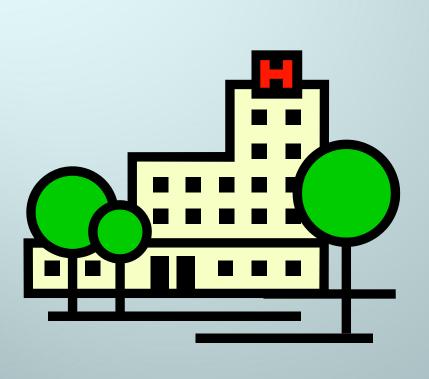
CIA programme

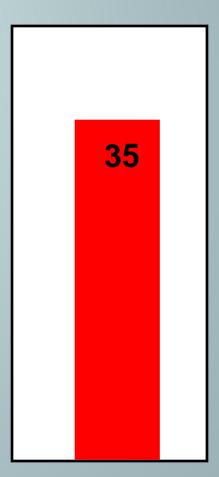
- Established 9 years
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CIA programme content

- Incidence and stage at diagnosis (OCIU/TCR)
- All major surgical episodes (HES)
- All radiotherapy courses (from clinical services/RTDS)
- All chemotherapy programmes (from clinical services/electronic prescribing)
- Survival and place of death (OCIU/TCR)

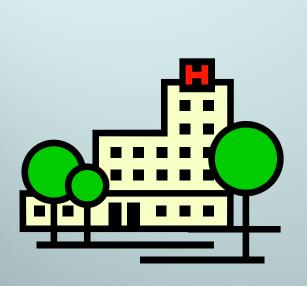
Single provider

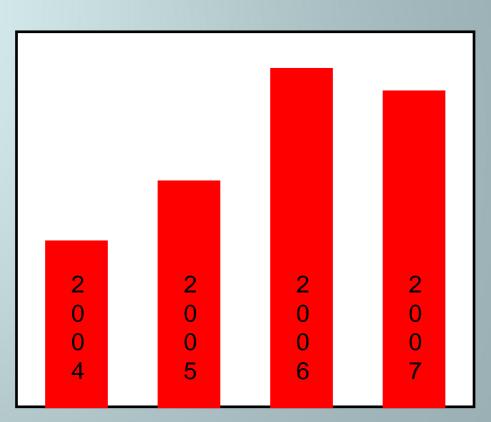




Open prostatectomy

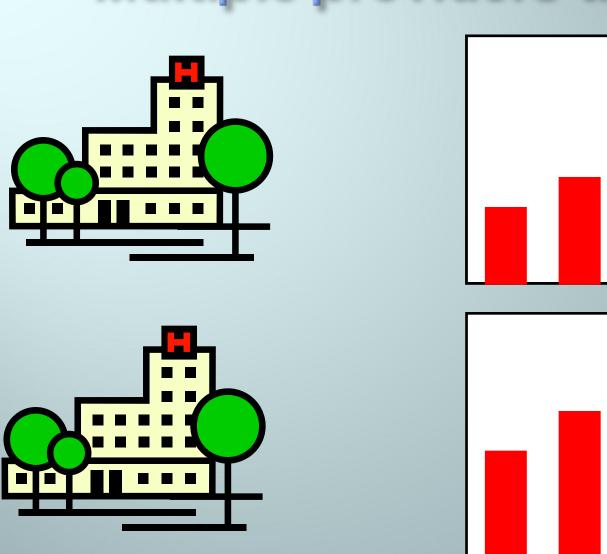
Single provider trend



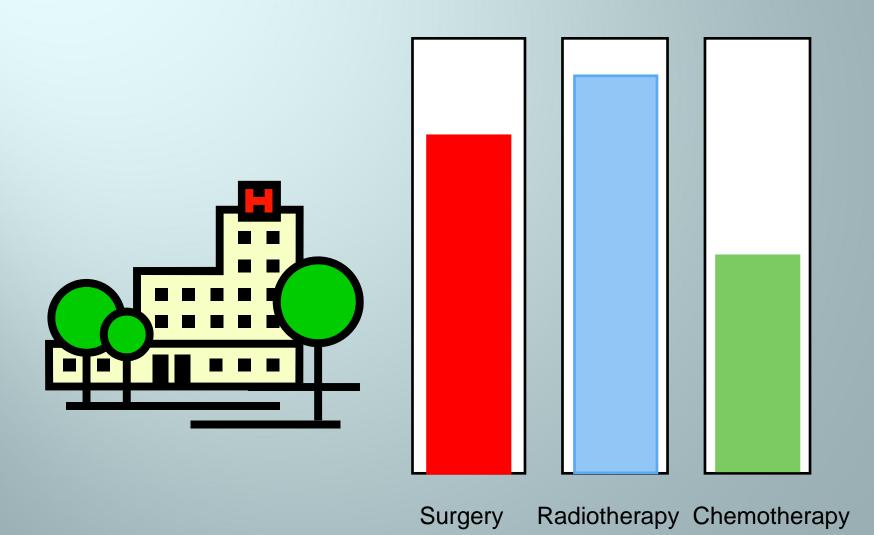


Open prostatectomy

Multiple providers trend



Multiple Treatment Modalities



Linkable Programme Content

Patient level information on all solid tumours

Incidence and stage at diagnosis

Major surgical procedures

Radiotherapy courses

Chemotherapy programmes

Survival and place of death

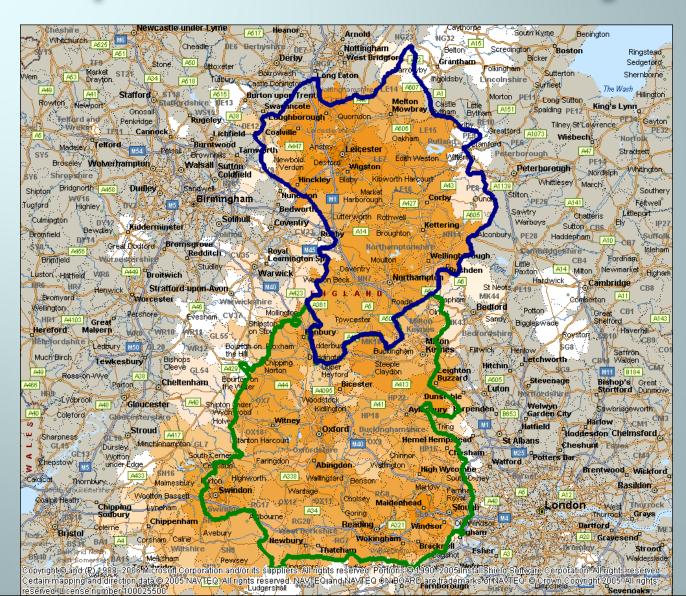
Cancer Registry

HES

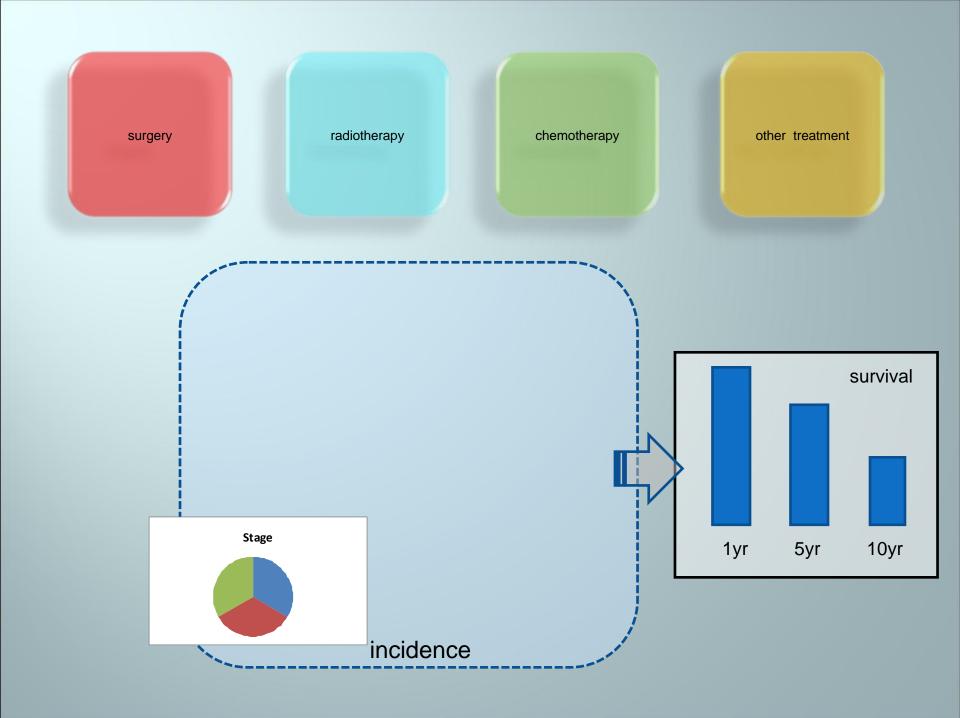
Cancer centres / RTDS Cancer centres / electronic prescribing

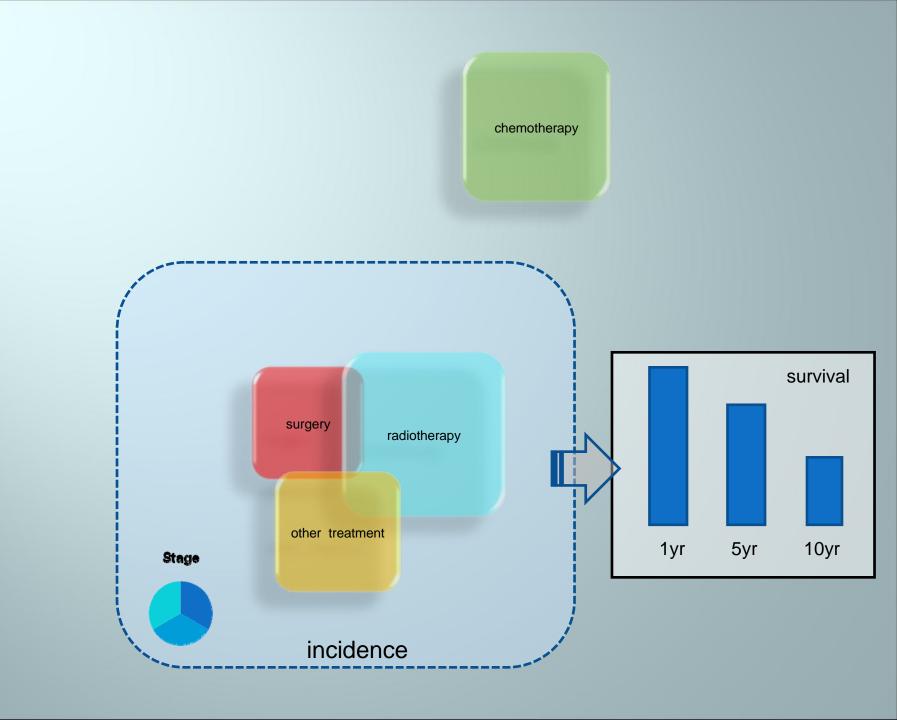
Cancer Registry

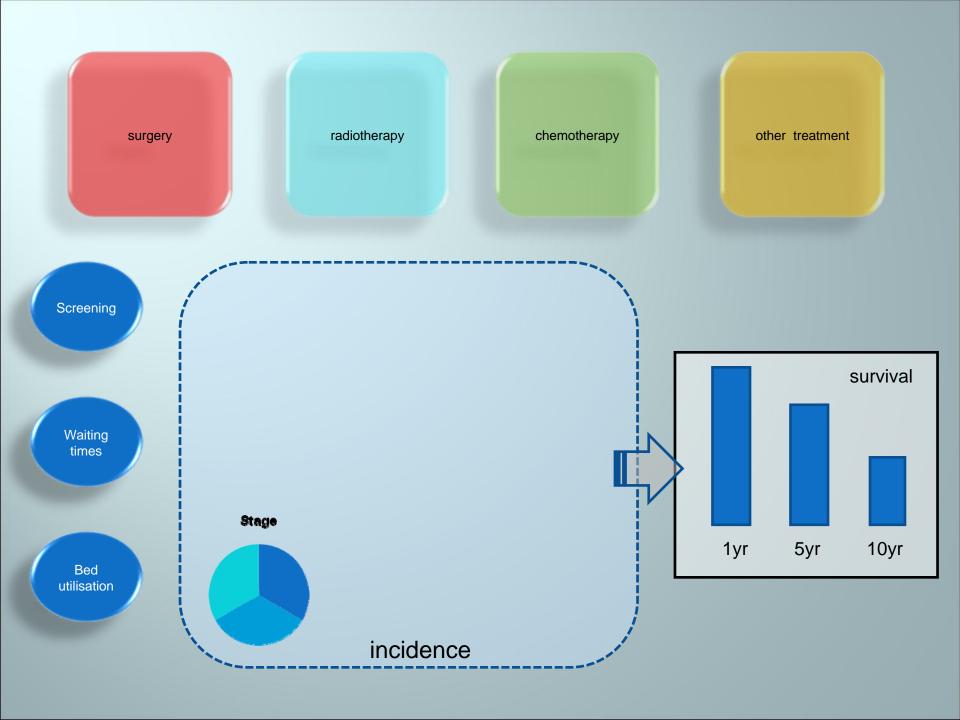
Population based analysis



Linking data







Examples of analyses

Sources: Oxford Cancer Intelligence Unit Trent Cancer Registry

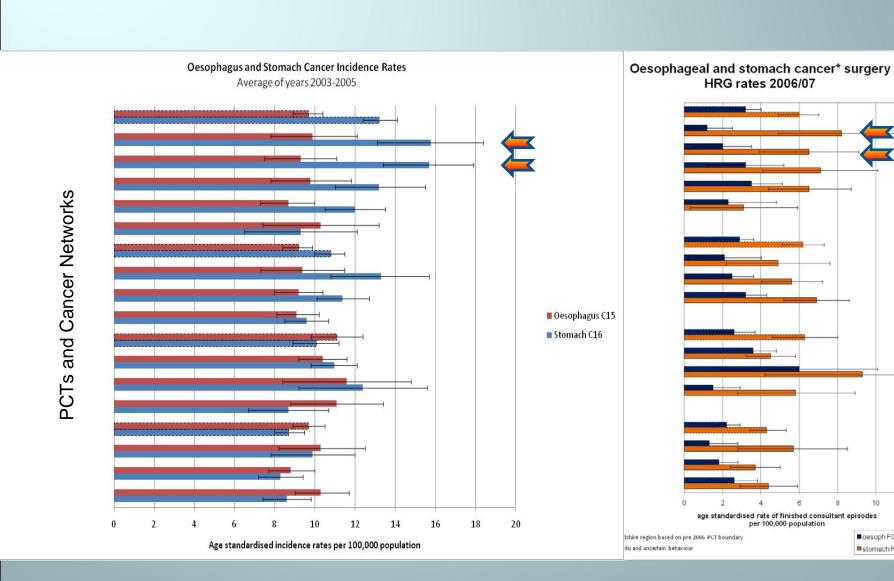
Incidence and surgery

10

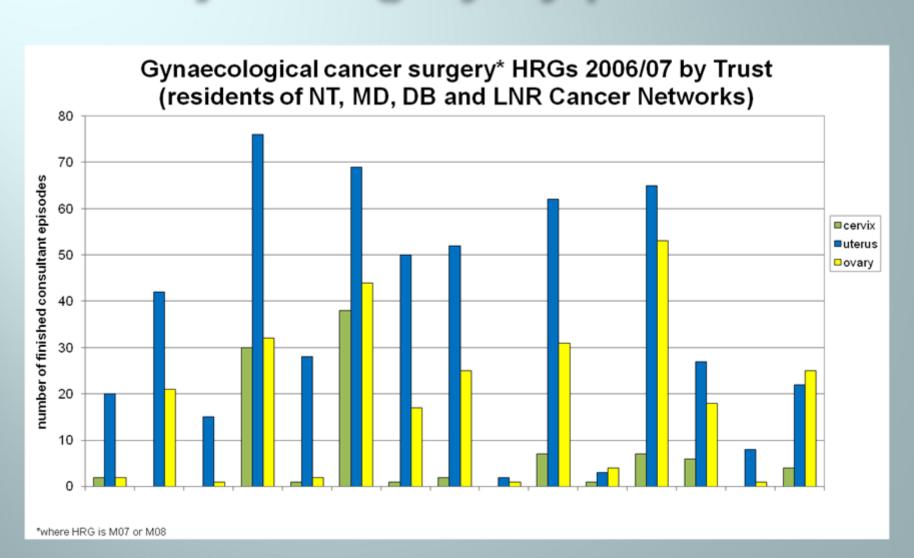
oesoph F01,F02

stomachF12,F21

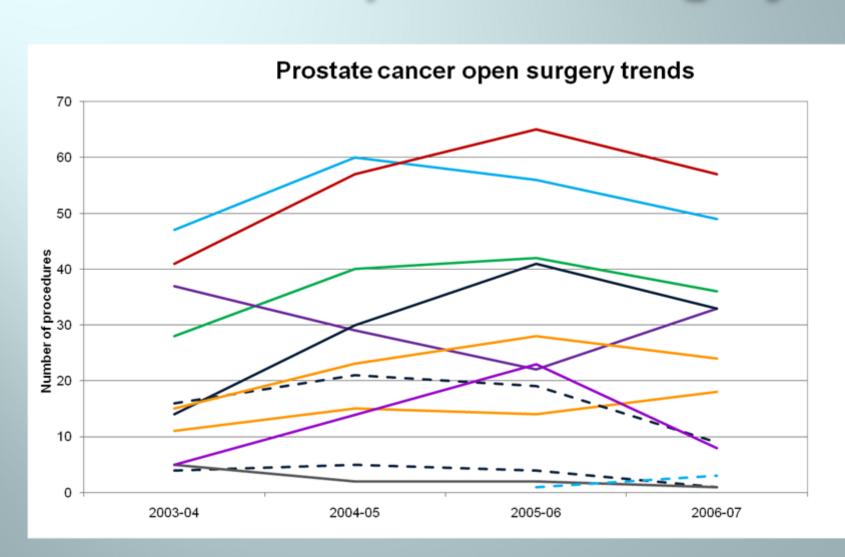
12



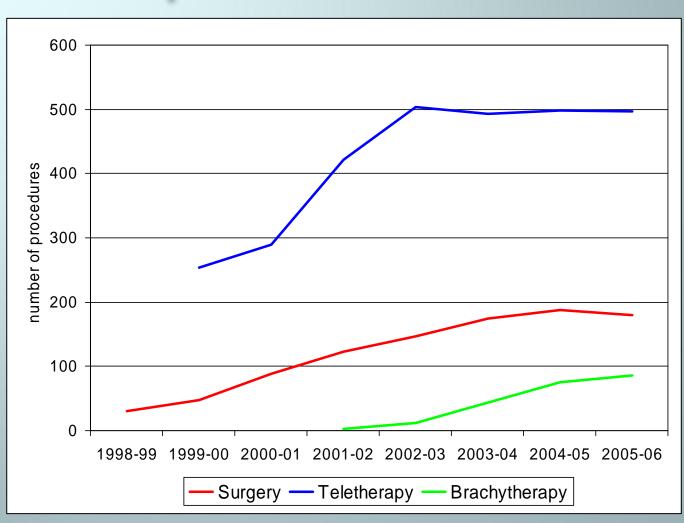
Major Surgery by provider



Trend in prostate surgery

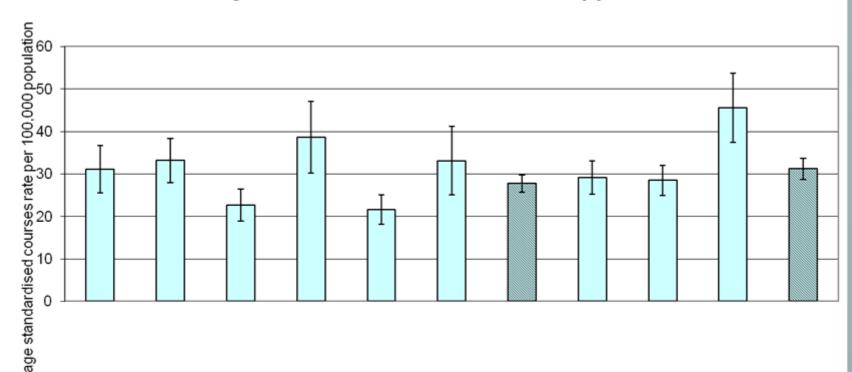


Trend in radical management of prostate cancer



Radiotherapy rates by PCT

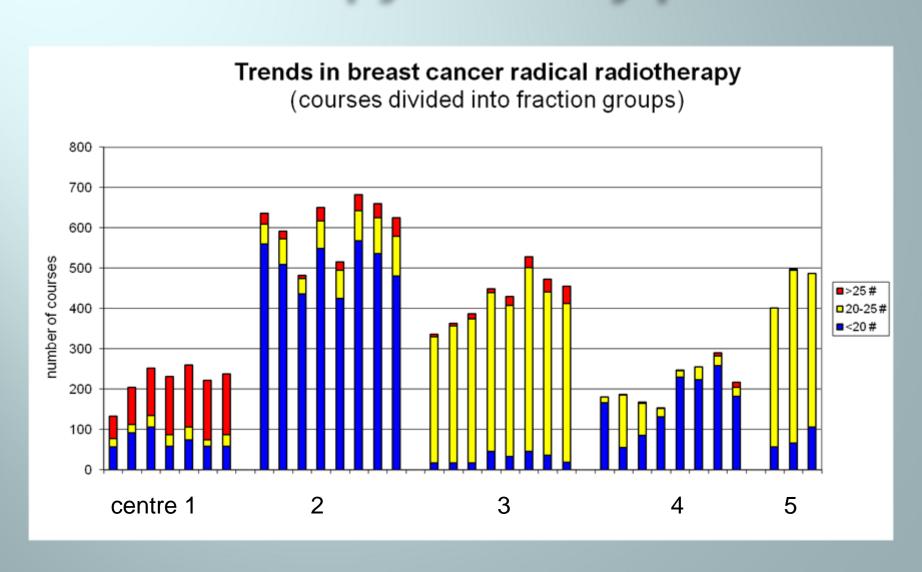
Lung cancer courses of radiotherapy 2006/07



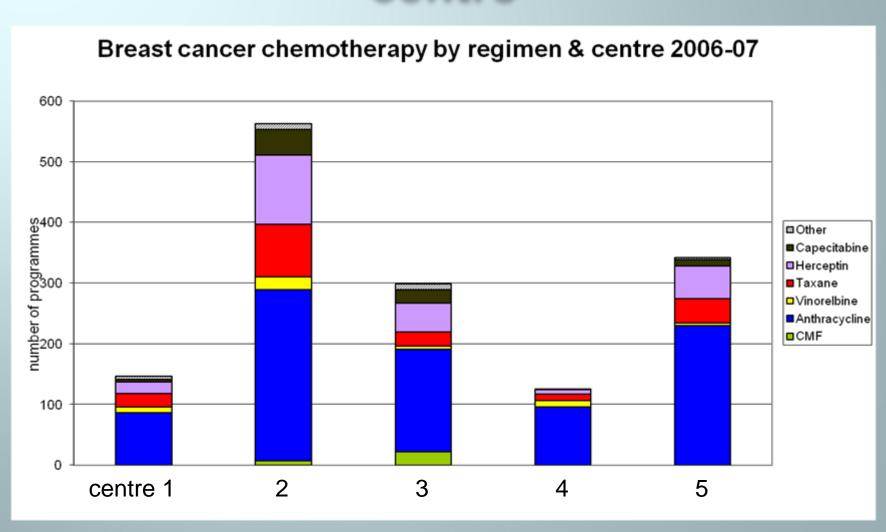
area of residence

ICD-10: C34+45

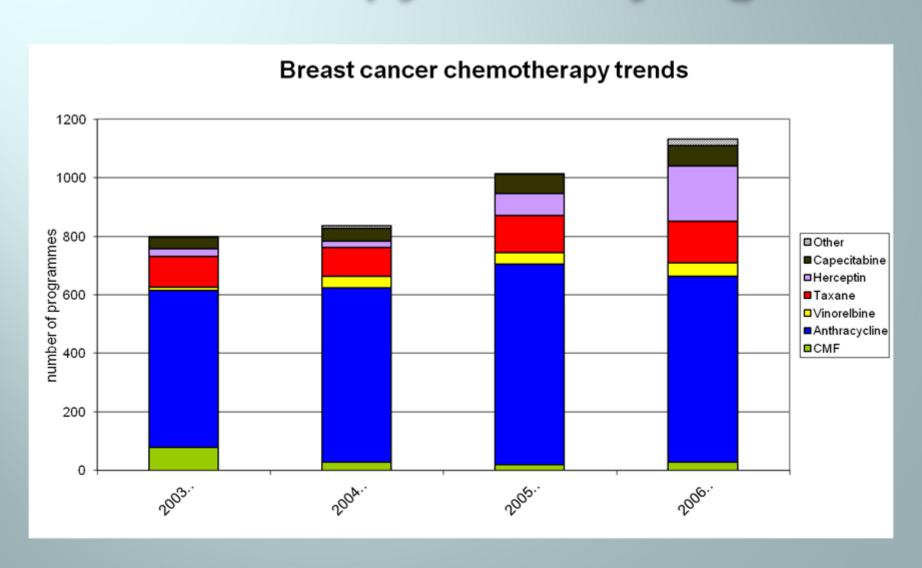
Radiotherapy trend by provider

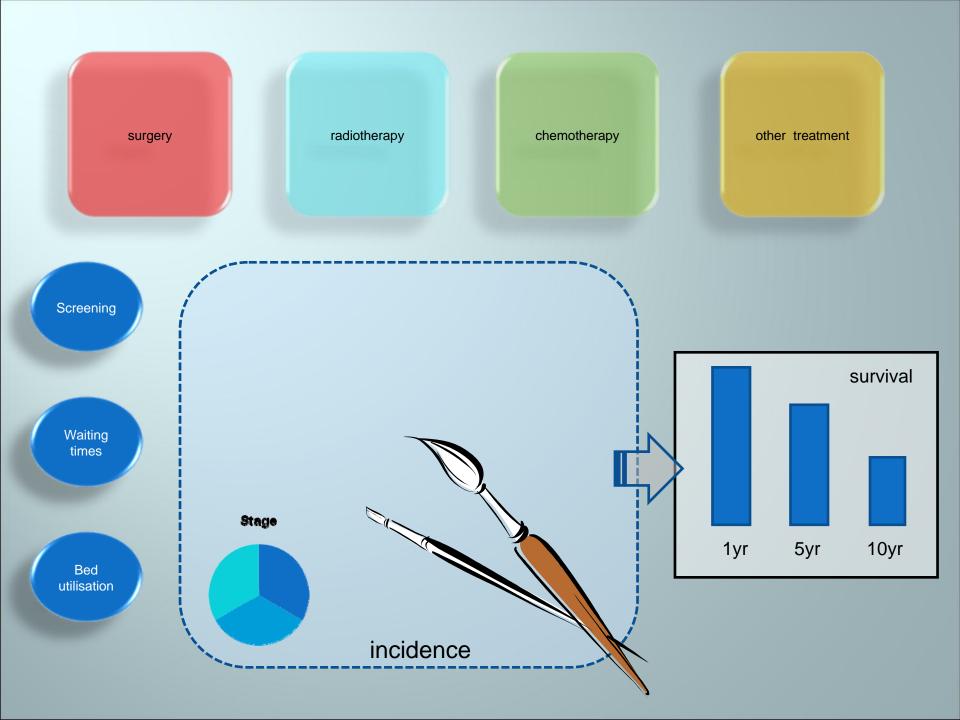


Chemotherapy by regimen by centre



Chemotherapy trend by regimen





END

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