The power of pathways
Exploring and Using National Cancer Data for Patient Gain

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Evolution of cancer data collection in England

**Pre 2008**  
Traditional cancer registration

**2008 - 11**  
Limited in-patient - registry linkage “NCDR”

**2009 -**  
Enhanced data items - staging, routes to diagnosis

**2012 -**  
Improved treatments - Chemotherapy, Radiotherapy etc

**2013 -**  
Single national system

**2013 - 2018**  
All patients, multi-event, routine linkage, near-real-time…
The Cancer Pathway
The Cancer Pathway

- GENETIC RISK
  - Germ-line data
- LIFESTYLE
  - Risk factors
- PRESENTATION
  - Screening
- DIAGNOSIS
  - MDT discussion
- TREATMENT
  - Surgery
- FOLLOW UP
  - PROMs
- PALLIATIVE CARE
  - Palliative care
- DEATH
  - Death certificates

Subcategories:

- Socio-demographics
  - Primary care
- Co-morbidities
  - Molecular
- Pathology
  - Imaging
- Chemotherapy
  - Clinical audit
- Radiotherapy
  - Clinical audit
- Quality of Life
  - Relapse/recurrence
- Screening
  - MDT discussion
- Surgery
  - PROMs
- Palliative care
  - Death certificates
C61: Prostate for 2013, 2014 at Barts Health

Displaying Pathways: 913 of 913 (100%)

Route to Diagnosis: Emergency presentation / Stage

1: 9
- Emergency presentation
- Prostate Radiology
- Pathology (COSD)
- Histology of primary MDT (Sum)
- Active Monitoring
- Hormone Therapy
- RTDS & RT AVT

2: 2
- Prostate Radiology
- Pathology (COSD)
- Histology of primary MDT (Sum)
- Hormone Therapy
- RTDS & RT AVT

3: 6
- Emergency presentation
- Prostate Radiology
- Pathology (COSD)
- Histology of primary MDT (Sum)
- Hormone Therapy
- RTDS & RT AVT
- Major Surgery (HES & AVT)

4: 32
- Emergency presentation
- Clinical Investigation
- Prostate Radiology
- Pathology (COSD)
- Histology of metastasis
- Hormone Therapy
- RTDS & RT AVT
- Active Monitoring
- Death
Pathway data changes

Potential to capture the full patient story
  • from germline to death

Universal resource for all types of analysis
  • Population health to personalised medicine

With near-real-time data collection can be used to monitor care, impact of interventions etc
  • Allow addition of new events

Provide the raw resource for new types of analyses
This data creates may opportunities for new types of analysis for early diagnosis research