

National Cancer Intelligence Network

# The role of NCIN and the SSCRG work programmes

NCIN Haematological Cancers Workshop, 30<sup>th</sup> September 2014 Lucy Elliss-Brookes, Analytical Programme Manager, NCIN



# The Health & Social Care Act 2012: two new organisations from April 2013

### **NHS** England

- "The purpose of NHS England is to use the £80bn commissioning budget to secure the best possible outcomes for patients"
- To ensure the whole commissioning architecture is in place; will also commission some services directly

### Public Health England (PHE)

- Information & Intelligence to support public and local Public Health (PH) making healthier choices
- National Leadership to PH, supporting national policy
- Development of PH workforce
- A civil service function, not NHS



### Providers of information

Health & Social Care Information Centre (HSCIC)

**National Audits** 

Office for National Statistics (ONS)

PHE including Health Intelligence Networks

**UK and Ireland Cancer Registries** 

NHS England Business Intelligence Teams

Information intermediaries

 e.g. Dr Foster, Cancer Research UK, Macmillan Cancer Support, Incisive Health



# PHE Chief Knowledge Office (CKO): Knowledge and Intelligence

National Cancer Registration Service (NCRS)

8 regional Knowledge and Intelligence Teams (KITs)

- SSCRG Work Programmes
- Local contribution
- Non cancer work

### 5 Health Intelligence Networks (HINs):

 Mental Health, Maternal & Child Health, Cardiovascular & Diabetes, End of Life, Cancer (NCIN)



## PHE 'intelligence structures'

Public Health England Chief Knowledge Officer (Prof. John Newton)

Disease Registration Service (Dr Jem Rashbass) Health Intelligence Networks (Prof. Brian Ferguson)

Knowledge & Intelligence Teams (KITs)

National Cancer Intelligence Network Chris Carrigan PHE Information Services Chris Carrigan



### Cancer data flows

#### PHE National Cancer Intelligence Network (NCIN)

This data flow illustrates how the PHE National Cancer Intelligence Network and PHE Knowledge & Intelligence Teams transform cancer data into intelligence. Our analyses help to drive improvements in prevention, standards of cancer care and clinical outcomes for cancer patients.

The cancer landscape in England has changed considerably in recent times, to reflect a move towards a more integrated public health approach to disease.

Cancer remains a significant public health burden, and is the leading cause of death in all UK nations.

Clinicians Charities Commissioners Policymakers

#### PHE NCIN Outputs

- Cancer Commissioning Tookit, including GP Practice, CCG and Service Profiles
- · Cancer e-atlas: incidence, mortality, prevalence, survival and gynaecological hub

#### Information

- NCIN central analytical projects
- NCIN Site-Specific Clinical Reference Group (SSCRG) projects

#### Examples of geographies analysed by: NHS ENGLAND

- c. 7,600 GP Practices
- 211 Clinical Commissioning Groups CCG
- 161 Acute Hospital Trusts
- 27 Local Area Teams LAT
- 23 Commissioning Support Units CSU
- 15 Academic Health Science Networks
- 12 Strategic Clinical Networks SCN
- 12 Clinical Senates
- 10 Specialised Commissioning Hubs

#### PUBLIC HEALTH ENGLAND

- c. 150 Local Authorities
- c. 140 Health & Wellbeing Boards
- B Disease Registration Teams
- B Knowledge and Intelligence Teams\*

#### UK CONSTITUENT NATIONS

- 5 N. Ireland Health & Social Care Trusts
- 14 Scotland Health Boards
- · 7 Wales Health Boards

#### \*PHE Knowledge and Intelligence Teams (KITs)

Fast Midlands North West South Fast Northern & Yorkshire South West West Midlands

Researchers

#### Cancer Outcomes and Services Dataset (COSD)

Specification for standardised, mandatory and optional data fields; applicable to some datasets below.

#### Direct COSD feeds: trust-level

- Patient Administration Systems
- . Data from MDT software
- Pathology full-text reports
- Imaging systems

#### Indirect COSD feeds; national

- Cancer Waiting Times
- · Systemic Anti-Cancer Dataset (SACT) Chemotherapy
- Radiotherapy Dataset (RTDS)

#### Other

- HSCIC Hospital Episode Statistics
- Cancer screening programmes
- . ONS cancer and non-cancer deaths
- National Cancer Audits
- National PET-CT imaging (in testing)

#### PHE National Cancer Registration Service (NCRS)

#### 8 regional registration teams

Eastern, East Midlands, London, Northern and Yorkshire, North West, Oxford, South West and West Midlands

#### includes

- · Coding and Classification Group
- · Data Quality and Registration
- Single cancer registration system

English National Cancer Online

Registration Environment ENCORE

Anonymised patient/turnour level cancer registrations data from:

- · Information and Services Division
- · Welsh Cancer and Intelligence Surveillance Unit
- · Northern Ireland Cancer Registry

### statistics only Data linkage in CAS at patient/tumour level

CAS holds a large number of datasets.

Cancer Analysis System (CAS)

Cascade holds UK incidence, mortality and survival

#### Current data in CAS

Incidence

Populations |

& Cascade

Historical registry data Radiotherapy (RTDS)

Geographical lookups PROMs. Audit

Screening

Biobank

Mortality

#### Hospital Episode Statistics (HES):

Admitted Patient Care (Inpatients and Day Case), Outpatients and Accident & Emergency Cancer Waiting Times (treatment dataset)

Derived fields ea

Ethnicity, Routes to Diagnosis, Deprivation

#### Coming soon...

Chemotherapy (SACT)

Patient Experience (CPES)

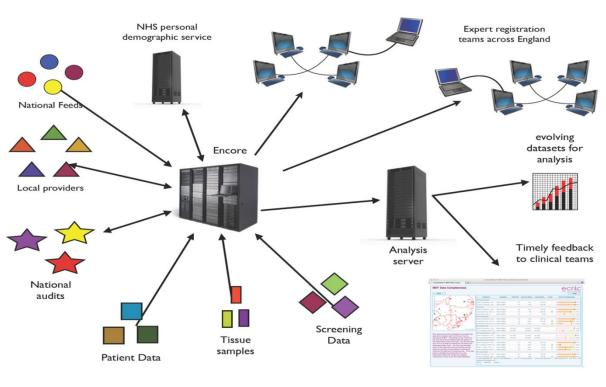
Comorbidities

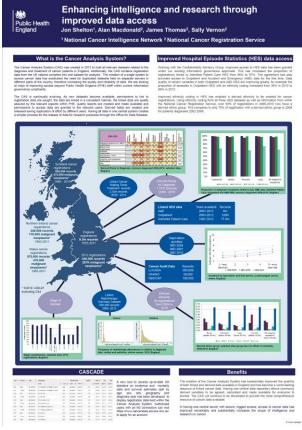
PHE Office for Data Release Dealing with data access requests



## Encore (English National Cancer Online Registration Environment) and

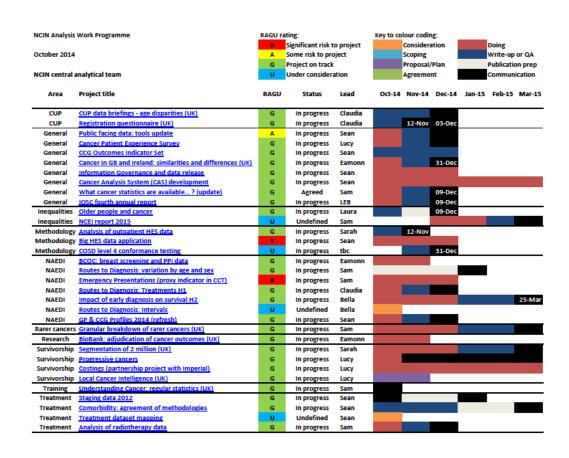
CAS (Cancer Analysis System)





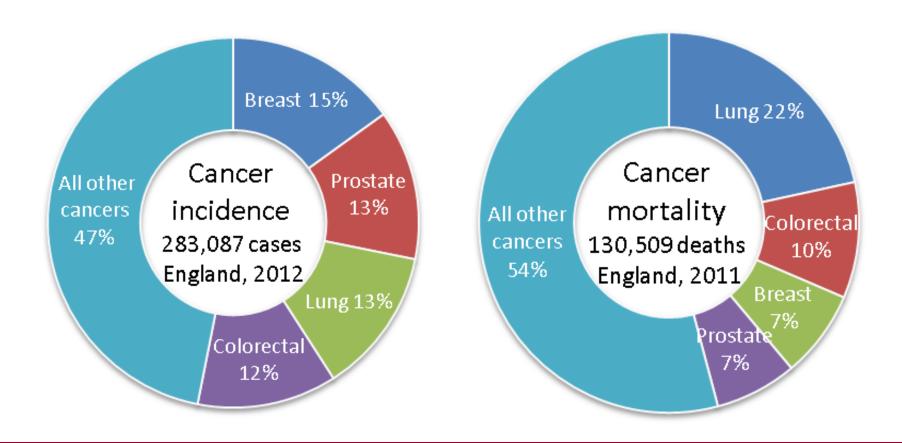


## NCIN central analysis work programme





### Rare and less common cancers





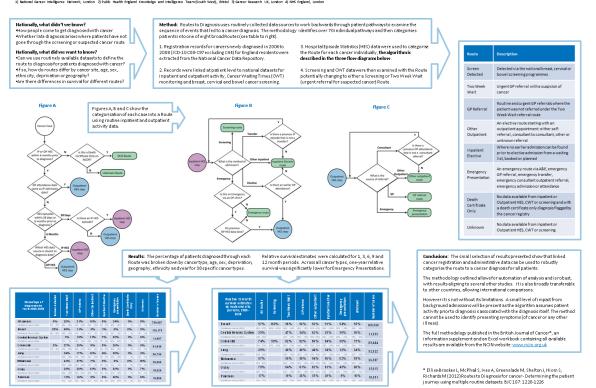
## Routes to Diagnosis

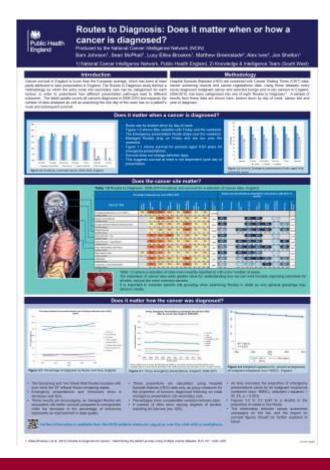
### Routes to Diagnosis, a novel English methodology



LE Elliss-Brookes, S McPhail 1, A Ives 2, M Greenslade 2, J Shelton 1, S Hiom 3, M Richards 4

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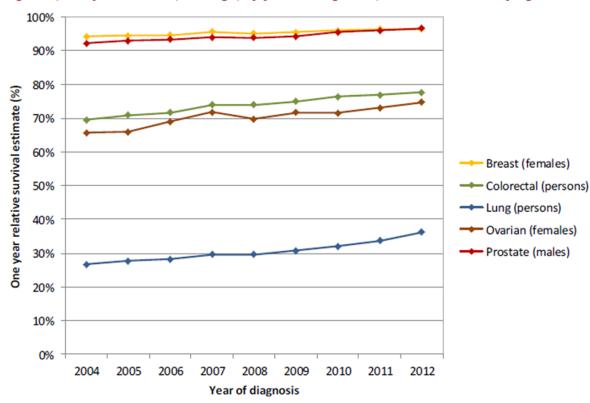






# Cancer stage and survival

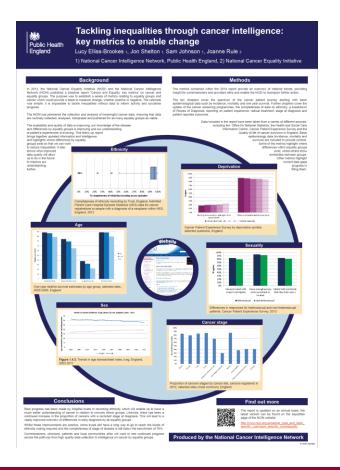
Figure 2, one-year survival, all stage, by year of diagnosis, not standardised by age





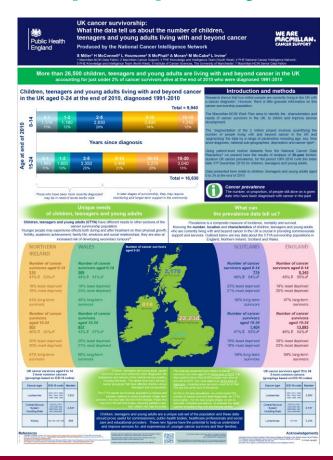
# Inequalities

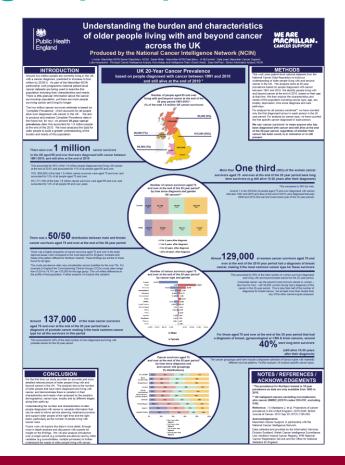






# Older people, younger people







## National Cancer Intelligence Network

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