

Protecting and improving the nation's health

### **Cancer data flows in Public Health England (PHE)**

#### From the PHE National Cancer Registration and Analysis Service

This data flow diagram illustrates how the National Cancer Registration and Analysis Service (NCRAS) collects cancer data and transforms it into impactful intelligence. NCRAS delivers a world-class cancer registration service for England and generates analyses to drive improvements in prevention, standards of care and clinical outcomes for patients.

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

This is the national specification for standardised data fields to be collected by healthcare providers; applicable to some of the 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 sources

- Health and Social Care Information Centre (HSCIC) – Hospital Episode Statistics (HES), Diagnostic Imaging Dataset (DID)
- cancer screening programmes
- Office for National Statistics (ONS) – cancer, non-cancer deaths, populations
- national cancer audits
- national PET-CT imaging



# National Cancer Registration and Analysis Service (NCRAS)

NCRAS hosts Encore
(the English National Cancer Online
Registration Environment)
A single cancer registration system
covering England

#### NCRAS is spread across eight regions

East (Cambridge)
East Midlands (Nottingham, Sheffield)
London
Northern and Yorkshire (York, Leeds)

North West (Manchester)
South East (Oxford)
South West (Bristol, Salisbury)
West Midlands (Birmingham)

# Cancer Analysis System (CAS)

CAS holds Encore cancer registration information and a range of other health datasets

#### **Current datasets available in CAS**

Cancer registrations
Radiotherapy (RTDS)
Chemotherapy (SACT)
Mortality
ONS populations
National audits
Screening

Hospital episode statistics (including admitted patient care, outpatients, A&E)
Cancer waiting times (treatment and referral)
Diagnostic imaging dataset (DID)
Cancer Patient Experience Survey (CPES)
Patient-reported Outcome Measures (PROMs)

# Derived fields generated by using other available variables

Ethnicity, routes to diagnosis, deprivation, comorbidities, vital status

## NCRAS also receives cancer registrations from:

The Northern Ireland Cancer Registry;
Information and Services Division Scotland; and
the Welsh Cancer and Intelligence
Surveillance Unit

#### **Key outputs**

#### **Publicly available**

Cancer data
(incidence and mortality)
Cancer site hubs
Fingertips indicators
Articles and reports

#### **Password-protected**

Cancer stats
(range of cancer statistics)
Clinical headline indicators



#### Key stakeholders

Patients
Public Health England
NHS England and NHS
Department of Health
Central government
Local government
Health Education England
Commissioners
ONS | UKIACR | Charities
International bodies
EUROCARE | ENCR | IARC
Researchers

#### PHE Office for Data Release

Processing potentially identifiable data requests

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