

# **Accessing Data**

An introduction to the Cancer Analysis System

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The National Cancer Intelligence Network is now operated by Public Health England

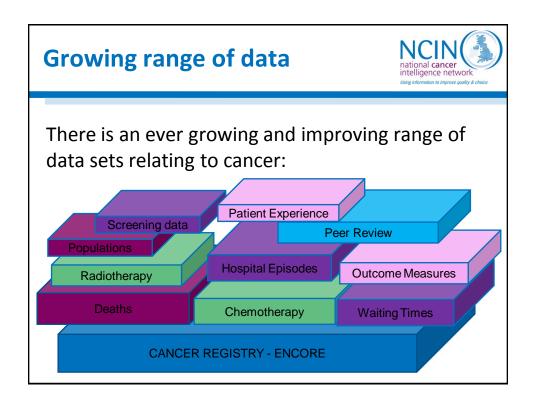
### **Overview**

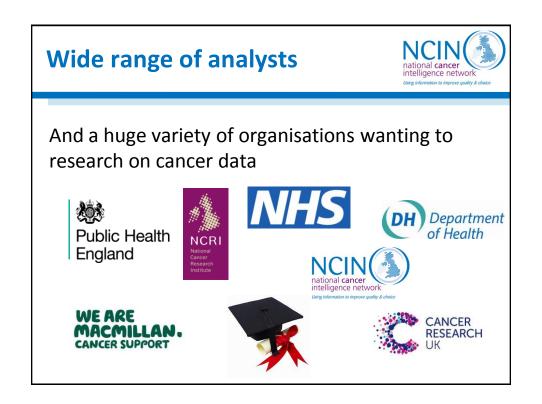


- Why do we need to improve access to data?
- What is the Cancer Analysis System?
- Why a centralised system?
- What are the key challenges?
- How can I get involved in shaping the CAS?



Why do we need to improve access to data?

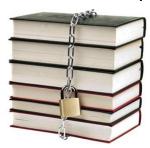




## Data is worthless if not used



Health data is sensitive and confidentiality and information governance are key



However, if no-one ever does anything with the data, collecting it is pointless!

# Improving access to data



#### If done carefully

- Respect confidentiality
- Access for approved users only

# Improved access to data will help in the fight against cancer

- Better information and intelligence
- Improved cancer care and cancer outcomes

# What is the Cancer Analysis System?

### What is the CAS?





A big computer!

16 core 2.4GHz server

128 GB RAM, 20 x 0.9TB hard drives

Secure and encrypted

#### What is the CAS?





Cancer data in a database on the server
All National Cancer Registration Service data
Also linked data sets

Updated and refreshed regularly

#### What is the CAS?





Server can be accessed from 'safe havens' around the country

Users can run queries on linked datasets

Data items and cases visible depends on user permissions.

# Why a centralised system?

# **Reduce duplication**



- Data loading and management
- Share standard queries
- Arranging permissions and data sharing agreements



# **Reduce divergence of datasets**



- Different datasets extracted on different dates
- Linked using different methodologies
- Cleaned and Quality Assured by different teams





#### **Calculated fields standardised**



- Researchers calculate fields
- Calculated fields can be hosted in the CAS
- Available for all other users
- Standardises methodologies



# **Improves audit**



- If datasets are handed out to researchers, cannot monitor usage
- Central system allows us to check who has logged in and what queries they have run
- Safer for patients and for researchers!



# What are the key challenges?

# Joined up vision



Work with other organisations to share solutions, not duplicate



Wider Public Health England, Information Centre, etc

#### Increase data available



- Arrange access to further datasets
  - Radiotherapy / Chemotherapy
  - Hospital Episode Statistics
  - Cancer Waiting Times etc
- Host more calculated fields
  - Co morbidity
  - Routes to diagnosis etc



#### Widen the userbase



Currently, access to the CAS is for Public Health England employees only

Increased access to information

More research

Better understanding of cancer

Saved lives

But need to do this with appropriate safeguards – anonymised data, review of planned research etc as appropriate

How can I get involved in shaping the CAS?

# **CAS Stakeholder Group**



- Functioning CAS important for many organisations
- Need a group that can influence and shape the CAS and keep it looking forwards and outwards
- Establishing a CAS Stakeholder group

#### **Get involved!**

### **Conclusions**



- Improved access to data leads to an improved understanding of cancer care
- The Cancer Analysis System allows us to
  - Standardise
  - Reduce duplication

giving access to timely, high quality, national data to be used for analysis.