

# COSD – one year on

CNS Workshop

March 2014

Trish Stokes

# What is COSD

## An Information standard for reporting on cancer in the NHS in England

- Defines the national cancer dataset – incorporates registration
- Whole patient pathway
- Aligned and rationalised with other cancer datasets
- Includes generic and site specific data
- Submitted monthly – most data from MDT systems and Path systems and from PAS
- Monthly feedback
- **Oversight by COSD Governance Board (NHS Chair)**
- **Phased implementation Jan 13 – Jan 15**

# Cancer Intelligence in Public Health England

- **National Cancer Registration Service**
  - Separation of registration and analysis within PHE
  - From 8 registries to one service
  - Single system (ENCORE) and processes
  - Collate data from multiple sources and provide timely feedback
  - **Implementation of COSD**
- **Knowledge and Intelligence Teams (KITS)**
  - Analytical services previously in registries
  - Public Health analysts
  - **Analysis of COSD**
- **NCIN – the 9<sup>th</sup> KIT**
  - **Maintenance and development of COSD**
  - **Central analysis of COSD – Level 4 reports**
- **Information Services**
  - Integration and data access
  - Led by Chris Carrigan
  - **Linking and access to COSD**

# Maintenance and ISB process (NCIN)

- Development of Level 4 (analytical)
- Complex dataset – not quite got it right yet!
- Annual revision to keep dataset up to date
- Latest revisions –approved by ISB
  - Standardisation of size measurements to 2dp
  - New fields for Report groupings to map to CCGs
  - Other minor amendments for clarity and current practice
  - SNOMED CT pilot project (Procedure codes and Path T and M fields)
- Formal change request process through COSD helpdesk
- Regular Newsletter, User Guide and website

# Online learning for non clinical staff

The screenshot displays the NCIN website interface. At the top, there are two banners: 'Understanding Cancer' on the left and 'Oncology Training for NHS and Public Health non-clinical staff' on the right. Below these, a browser window shows the NCIN homepage. The main navigation bar includes links for 'About NCIN', 'News and Events', 'Collecting and Using Data', 'Publications', 'Cancer Information Tools', and 'Cancer Type and Topic Specific Work'. The main content area features four highlighted modules, each with a red circle around its title and a right-pointing arrow: 'Cancer Outcomes Conference 2014', 'Health Intelligence Networks', 'Routes to diagnosis', and 'Understanding Cancer e-learning'. The 'Understanding Cancer e-learning' module is further detailed with the text 'Oncology training for NHS non-clinical staff'. At the bottom, the text 'National Cancer Intelligence Network' is visible.

Understanding Cancer  
Oncology Training for NHS  
and Public Health non-clinical staff

Launched Modules

Cancer Surveillance	Lower Gastrointestinal Tract
National Health Service	Paediatric, System and Malignancies

http://www.ncin.org.uk/home

phe.gov.uk NCIN Homepage

File Edit View Favorites Tools Help

Civil Service Learning Ho... Web Slice Gallery

Page Safety Tools

**NCIN**  
national cancer  
intelligence network  
*Using information to improve quality & choice*

Search

About NCIN News and Events Collecting and Using Data Publications Cancer Information Tools Cancer Type and Topic Specific Work

**Cancer Outcomes Conference 2014**

9th and 10th June  
Hilton Birmingham Metropole

**Health Intelligence Networks**

The NCIN model is being followed in the development of other Health Intelligence Networks. Find out more

**Routes to diagnosis**

Routes and relative survival for cancers diagnosed in England in 2006-2008

**Understanding Cancer e-learning**

Oncology training for NHS non-clinical staff

**National Cancer Intelligence Network**

100%

# Implementation progress

- Implementation led by NCRS
- Data Transfer Agreements signed with Trusts
- ~160 trusts submitting MDT data files
- Data liaison lead appointed to work with Trusts
- Revised reporting portal – launch April 2014
- Registration feedback deferred to 2014

# Core dataset

- Referral through to treatment for all patients
- Initial Focus on :
  - Diagnosis
  - Basis of diagnosis
  - Performance status (for adults)
  - Stage (TNM and site specific)
  - MDT discussion
  - Contact with CNS

# CNS – Imaging and Care Plan

## ■ Imaging

LESION LOCATION (RADIOLOGICAL)
--------------------------------

NUMBER OF LESIONS (RADIOLOGICAL)
----------------------------------

LESION SIZE (RADIOLOGICAL)
----------------------------

FEATURES OF LARGEST LESION (RADIOLOGICAL)
---

PRINCIPAL DIAGNOSTIC IMAGING TYPE
-----------------------------------

## ■ Care Plan

PRIMARY DIAGNOSIS (ICD RADIOLOGICAL)
--------------------------------------

MDT PROVISIONAL DIAGNOSIS (ICD)
---------------------------------



# CNS – Treatment

## ■ Surgery

ASA SCORE
TUMOUR LOCATION (SURGICAL)
EXCISION TYPE

## ■ Radiosurgery

RADIOSURGERY PERFORMED INDICATOR
PROCEDURE DATE (RADIOSURGERY)

# CNS – Pathology data (additional to generic)

MOLECULAR DIAGNOSTICS (eg IDH1 or IDH2 mutation)

IMMUNOHISTOCHEMISTRY HORMONE EXPRESSION  
(PITUITARY ADENOMAS ONLY)


WHO TUMOUR GRADE (INTRA/EXTRA AXIAL TUMOURS  
ONLY)

# Reporting feedback

- Reporting portal
  1. Fact of submission (files)
  2. Data Quality (raw data)
  3. Quality assurance (processed data)
  
- Analytical reports - led by NCIN
  4. Clinical analysis (processed/summarised data)

# Reporting portal

<http://ncrsreports.phe.nhs.uk/cosd/>




Public Health  
England

**ncrs** National Cancer Registration Service  
**COSD Conformance Reporting Site**

Logged in

Home | Level 1 | Level 2 | Documents Library | Log Out



**Contact Details**

For queries regarding the COSD, please e-mail:  
[cosd@ncin.org.uk](mailto:cosd@ncin.org.uk)

For queries regarding the content of this site,  
please e-mail: [barry.plewa@nhs.net](mailto:barry.plewa@nhs.net)

**Local Registry Contacts**

Eastern	Andy Murphy
East Midlands	Alex Albus
London and South East	Michael Sharpe
Northern and Yorkshire	Christine Head
North West	Elsita Payne
Oxford	Kellie Peters
South West	Colin Danks

## The National Cancer Registration Service COSD Conformance Reporting Site

### Introduction

This portal has been designed to give providers of COSD cancer data rapid, quality feedback on the quality of their submissions. It allows users to look at the completeness of key data items and to conduct comparisons with local, regional and national averages to calculate relative performance.

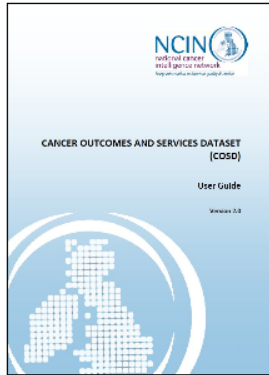
The portal will be a continued development, incorporating useful metrics and measures with the aim of improving the quality of data flowing to the National Cancer Registration Service and ultimately, informing improvements in patient care and outcomes.

### Background

The Cancer Outcomes and Services Dataset (COSD) Data Transfer Partnership Agreements (DTPAs) together with the COSD Conformance Framework provide guidance for submission of the dataset and how conformance with the COSD Information Standard is reported and monitored. Providers are expected to agree the data files that they submit for COSD in their DTPA with their local office of the National Cancer Registration Service (NCRS). The DTPA will be renewed annually. [Copies of your COSD DTPA are available from your local NCRS branch office on request]

The Framework will require on-going development to take account of other generic and site-specific data items. This will be developed in consultation with key stakeholders particularly local clinical teams and the NCIN Site Specific Clinical Reference Groups (SSCRGs)

The implementation of COSD will be managed by the NCRS directly with its data providers. The principal approach will be to work in partnership with clinicians and their information, management and multi-disciplinary teams to implement the Standard successfully. The NCRS will provide training and support to help providers implement the Standard successfully.



COSD User Guide

**Useful Links and Documentation**

**How to use this Reporting Site**

**COSD Downloads**

**Staging Guidance for Trusts**

**Staging Definitions**



# Reporting feedback developments

- Revised feedback reports developed (Level 1 and 2)
- Monthly for whole year
- Separate online reports for each tumour group
- Revised tumour groupings and total by Trust
- Compiled registrations (Level 3) – deferred to mid 2014



## Level 1 Reports

- Level 1.1 Report
- Level 1.2 Report
- Level 1.3 Report

## Report Descriptions

Click headings to show descriptions...

### > Level 1.1

**Have all the agreed COSD data files been received as per the COSD Data Transfer Partnership Agreement?**

Trusts would be expected to send a monthly submission of all files agreed in their COSD Data Transfer Partnership Agreement. For a trust to be compliant with Measure 1.1, ALL the required files must have been received on time for that month. If one or more is missing or late, the trust will be non-compliant. Please refer to Measure 1.2 to see details of individual data feeds.

### > Level 1.2

### > Level 1.3

Regional Office	East Midlands, Eastern, London,	Strategic Clinical Network	Cheshire And Mersey, East Midla
Region	Essex, Kent & Medway, North Ea	Year	
<div>   1 of 1   100% Find </div>			
Stockport NHS Foundation Trust			
Tameside Hospital NHS Foundation Trust			
The Christie NHS Foundation Trust			
Trafford Healthcare NHS Trust			
University Hospital Of South Manchester NHS Foundation Trust			
Wroughtington, Wigan and Leigh NHS Foundation Trust			
London Cancer			
Essex	Jan	Feb	Mar
The Princess Alexandra Hospital NHS Trust			
North London	Jan	Feb	Mar
Barnet and Chase Farm Hospitals NHS Trust			
Barnet and Chase Farm Hospitals NHS Trust - MDT			
Barnet and Chase Farm Hospitals NHS Trust - PAS			
Barnet and Chase Farm Hospitals NHS Trust - Pathology			
Great Ormond Street Hospital For Children NHS Trust			
Moorfields Eye Hospital NHS Foundation Trust			
North Middlesex University Hospital NHS Trust			
Royal Free Hampstead NHS Trust			
Royal National Orthopaedic Hospital NHS Trust			
The Whittington Hospital NHS Trust			
University College London Hospitals NHS Foundation Trust			

# Level 2

## – Data quality – raw data

- By MDT/Tumour group and Provider for month of diagnosis (invasive and non invasive)
- Available within **one month** of submission
- For Trusts submitting in XML/structured format
- *How do you want to get feedback?*



## Level 2 Report Descriptions

Click headings to show descriptions...

## &gt; Level 2.1

## &gt; 2.1a: No. tumours diagnosed per month

Number of tumours diagnosed in the calendar month.

Number of cases diagnosed within the reporting month either as a trust overall summary or by selected site groups.

Calculated using CR0370 (Primary Diagnosis ICD10) and CR2030 (Date of Diagnosis).

## &gt; 2.1b: No. with a treatment record submitted

## &gt; 2.1c: No. with a first treatment of surgery

## &gt; 2.1d: No. with a basis of diagnosis

## &gt; 2.1e: No. with histological basis of diagnosis

## &gt; 2.1f: No. with CNS indication code

## &gt; 2.1g: No. had contact with CNS

## &gt; 2.1h: No. patients aged under 25

## &gt; 2.1i: No. discussed at MDT Meeting

## &gt; Level 2.2

## &gt; Level 2.3

Trust Derby Hospitals NHS Foundation Trust

Year 2013

Month January, February, March, April, ▼

Tumour Group

1 of 1

100%

Find | Next

Select a form

Derby Hospitals NHS Foundation Trust  
COSD Level 2 MDT Quality and Completeness Report - 2013 for All Sites

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>L2.1 - Data Quality and Completeness for Diagnosis Period</b>												
L2.1a Number of Cases Diagnosed	289	224										
L2.1b Number of Cases Diagnosed with a Treatment Record Submitted	94	73										
L2.1c Number of Cases Diagnosed where the First Treatment was Surgery	80	62										
L2.1d Number of Cases with a Basis of Diagnosis	242	84%	150	67%	154							
L2.1e Number of Cases with a Histological Basis of Diagnosis	165	57%	106	47%	102							
L2.1f Number of Cases with a CNS Indication Code Submitted	11	4%	2	1%	0							
L2.1g Number of Cases Diagnosed who had a CNS Contact	10	3%	2	1%	0							
L2.1h Number of Cases Discussed at an MDT	118	41%	73	33%	88	41%	122	40%	143	30%	123	40%
<b>L2.2 - Completeness for All Cases Discussed at an MDT</b>												
L2.2a Number of Cases with a Performance Status	39	33%	39	53%	51	58%	39	32%	40	28%	31	25%
L2.2b Number of Cases with a Full Stage	35	30%	22	30%	38	43%	33	27%	41	29%	41	33%
L2.2c Number of Cases with a Performance Status and Full Stage	17	14%	18	25%	24	27%	16	13%	24	17%	21	17%
<b>L2.3 - Breakdown of Staging Completeness by Cases Discussed at MDT</b>												
L2.3a Total and % Cases with a Full Stage	35	30%	22	30%	38	43%	33	27%	41	29%	41	33%
Total and % Cases with a Partial Stage	14	12%	8	11%	9	10%	4	3%	12	8%	10	8%
L2.3b Total and % Cases with a Full Pre-Treatment Stage	31	26%	20	27%	31	35%	20	16%	36	25%	34	27%
Total and % Cases with a Partial Pre-Treatment Stage	14	12%	8	11%	9	10%	4	3%	12	8%	10	8%
L2.3c Total and % Cases with a Full Integrated Stage	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total and % Cases with a Partial Integrated Stage	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
L2.3d Total and % of Cases with a Site Specific Stage	8	7%	2	3%	7	8%	14	11%	6	4%	11	9%



# Reporting feedback - Level 2.1

- a) Number of tumours diagnosed in the calendar month.
- For all diagnoses in the month, the number and percentage of cases supplied....
  - b) with a treatment record submitted
  - c) with a first treatment of surgery (*to inform responsibility for integrated staging – see 2.3c*)
  - d) with a basis of diagnosis (*Not including “not known”*)
  - e) with a histological basis of diagnosis
  - f) with a Clinical Nurse Specialist indication code (*Not including “not known”*)
  - g) who had contact with a Clinical Nurse Specialist
  - h) for patients aged under 25
  - i) discussed at a Multi-Disciplinary Team (MDT) Meeting



## Level 2 Report Descriptions

Click headings to show descriptions...

### > Level 2.1

#### > 2.1a: No. tumours diagnosed per month

Number of tumours diagnosed in the calendar month.

Number of cases diagnosed within the reporting month either as a trust overall summary or by selected site groups.

Calculated using CR0370 (Primary Diagnosis ICD10) and CR2030 (Date of Diagnosis).

#### > 2.1b: No. with a treatment record submitted

#### > 2.1c: No. with a first treatment of surgery

#### > 2.1d: No. with a basis of diagnosis

#### > 2.1e: No. with histological basis of diagnosis

#### > 2.1f - No. with CNS indication code

#### > 2.1g: No. had contact with CNS

#### > 2.1h: No. patients aged under 25

#### > 2.1i: No. discussed at MDT Meeting

### > Level 2.2

### > Level 2.3

Strategic Clinical Network **Cheshire And Mersey, East Midl**

Region **3 Counties, Anglia, Arden, Avon**

Trust **Aintree University Hospitals NHS**

Year **2013**

Level **L2.2b - Number of Cases with a Full Stage**

Tumour Group **All Sites**

1 of 1 100% Find | Next Select a format Export

## COSD Conformance Summary Level 2

### L2.2b - Number of Cases with a Full Stage for All Sites

Click Trust name for full MDT data quality and completeness report

	2013																			
	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct	
TOTAL	6926		6627		6940		7227		7740		6837		7444		6537		5685		338	
Cheshire And Mersey	710		732		732		663		729		689		729		612		555		30	
Merseyside & Cheshire	710	63%	732	66%	732	65%	663	60%	729	63%	689	61%	729	61%	612	62%	555	58%	30	48%
Aintree University Hospitals NHS Foundation Trust	129	54%	120	59%	128	58%	117	52%	115	51%	107	50%	120	52%	114	49%	122	53%	5	38%
Alder Hey Children's NHS Foundation Trust	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	1	14%	3	33%	1	14%	0	0%
Countess Of Chester Hospital NHS Foundation Trust	52	50%	45	42%	62	61%	41	55%	53	50%	61	51%	45	45%	40	47%	40	38%	4	67%
Liverpool Heart and Chest NHS Foundation Trust	52	88%	49	70%	29	83%	42	81%	52	81%	39	89%	32	84%	29	81%	25	68%	0	0%
Liverpool Women's NHS Foundation Trust	37	69%	32	62%	41	84%	29	66%	30	68%	32	78%	27	71%	19	59%	13	50%	7	54%
Royal Liverpool and Broadgreen University Hospitals NHS Trust	14	31%	19	48%	41	48%	42	46%	58	46%	63	45%	49	36%	7	37%	0	0%	0	0%
Southport and Ormskirk Hospital NHS Trust	75	63%	67	59%	75	65%	45	52%	62	73%	51	62%	60	62%	50	56%	44	52%	3	75%
St Helens and Knowsley Hospitals NHS Trust	187	84%	225	92%	194	82%	188	83%	189	86%	199	80%	227	84%	199	86%	187	84%	5	71%
The Walton Centre NHS Foundation Trust	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Warrington and Halton Hospitals NHS Foundation Trust	19	37%	18	37%	17	38%	14	27%	14	52%	2	67%	2	12%	1	33%	6	23%	0	0%
Wirral University Teaching Hospital NHS Foundation Trust	145	79%	156	83%	145	73%	145	75%	156	69%	135	69%	166	74%	150	69%	117	62%	6	67%
East Midlands	157		148		113		91		220		149		218		149		156		3	
East Midlands	157	38%	148	39%	113	42%	91	33%	220	34%	149	29%	218	32%	149	28%	156	30%	3	11%
Burton Hospitals NHS Foundation Trust	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	100%	1	100%	6	43%	0	0%
Derby Hospitals NHS Foundation Trust	35	30%	22	30%	38	43%	33	27%	41	29%	41	33%	48	34%	32	28%	35	32%	0	0%
Kettering General Hospital NHS Foundation Trust	37	27%	31	22%	30	24%	0	0%	44	32%	0	0%	0	0%	0	0%	0	0%	0	0%
Nottingham General Hospital NHS Trust	85	53%	85	57%	45	75%	55	58%	110	58%	70	54%	110	58%	80	54%	85	48%	4	43%

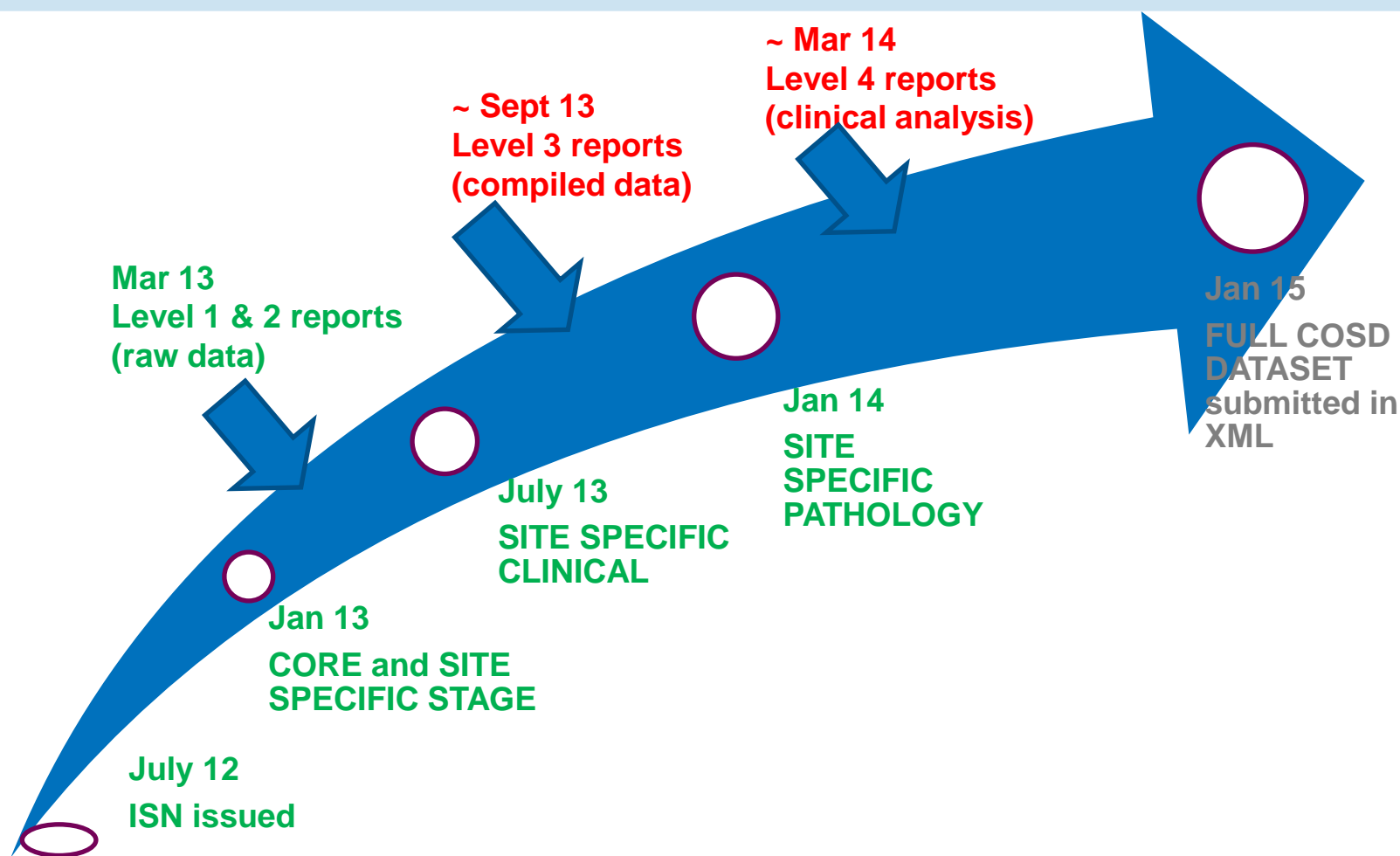
# Reporting feedback – L2.2 and L2.3

- L2.2 – For all cases discussed at an MDT Meeting, the number and percentage supplied....
  - a) with Performance Status (*not applicable for patients aged under 16*)
  - b) with a full stage value
  - c) with performance status **and** a full stage value
- 
- L2.3 – For all cases discussed at an MDT meeting, the breakdown of Staging Completeness by cases having...
  - a) Any Stage
  - b) Pre-Treatment Stage
  - c) Integrated Stage (*for all cases with a first treatment of “Surgery” [2.1c]*)
  - d) Site-Specific Stage

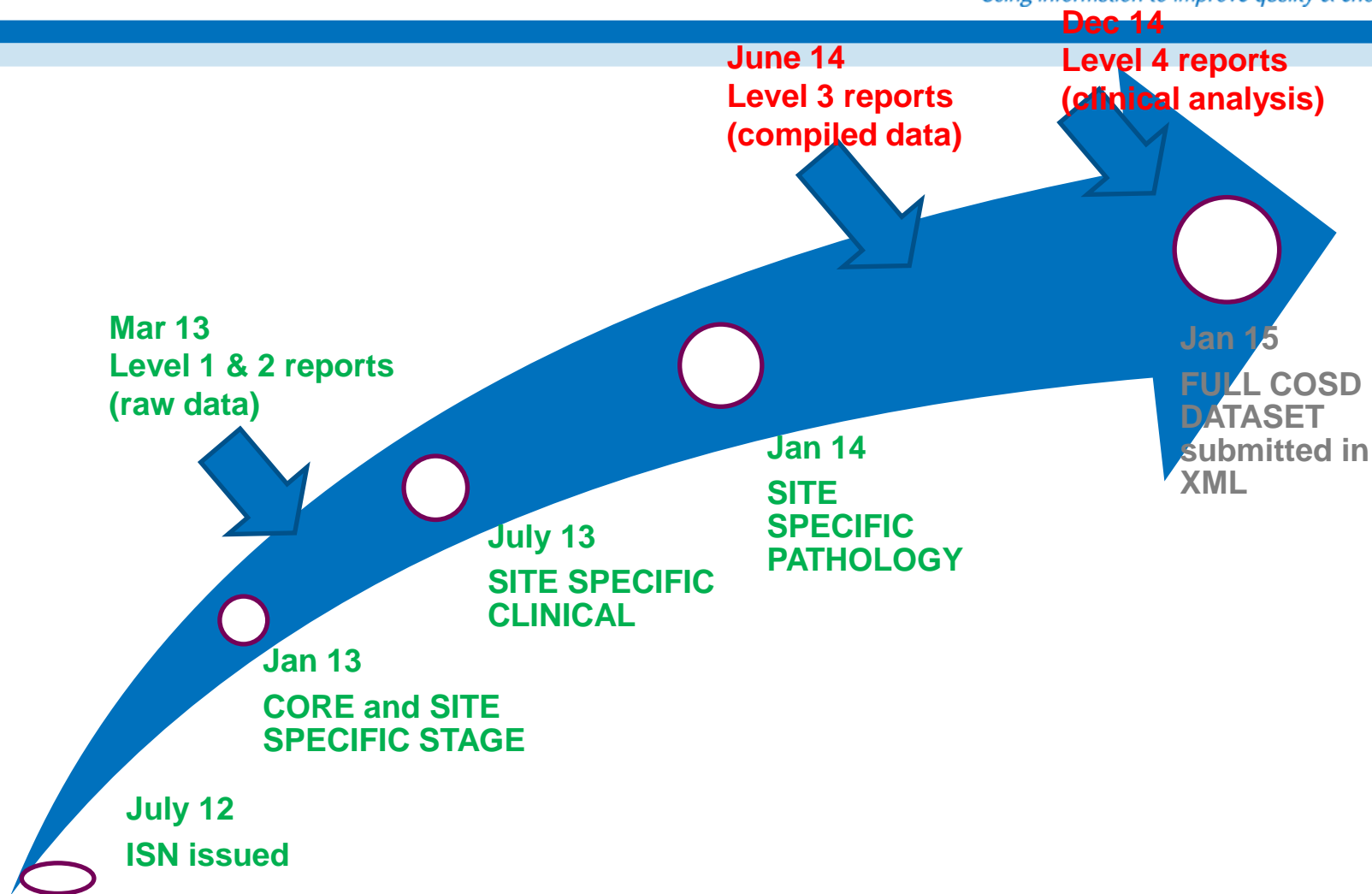
# Reporting feedback – L2.4

- All cases receiving treatment in the calendar month broken down by
  - a) Surgery
  - b) Radiotherapy
  - c) Chemotherapy
  - d) Non-active Therapy

# Timetable



# Timetable



# Level 3 – Reports on registered cases

- Due summer 2014
- Availability through reporting portal
- Based on same data as Level 2 reports
- Complied to cover whole pathway for shared patients
- Additional site specific feedback to support Level 4 analysis

# Level 4 - Clinical reports

- NCIN leading
- Development during 2014
- Consultation with clinical teams
  - SSCRGs
  - Network site specific groups
  - NHS England - Sean Duffy (one year survival)
- Need to align with
  - Service profiles
  - Peer review clinical lines of enquiry
  - Commissioning and SCNs
  - National and professional body audits



# Summary

- NCIN leading maintenance and ISB
- NCRS leading implementation
- Information Services leading data access and integration
- Whole dataset should now be collected
- Revised reporting portal – launch April
- Summary reports mid year
- Analytical reports by end of year

# Thank you

trish.stokes@phe.gov.uk

Queries to: [cosd@ncin.org.uk](mailto:cosd@ncin.org.uk)



**Cancer Outcomes Conference**  
**9 & 10 June 2014**  
**Hilton Birmingham Metropole**

**[www.ncin.org.uk/conference](http://www.ncin.org.uk/conference)**



**ukiacr**  
United Kingdom and Ireland  
Association of  
Cancer Registries



**NCIN**  
**national cancer  
intelligence network**

*Using information to improve quality & choice*

**The Cancer Outcomes Conference 2014 will explore the ‘power of information’ both locally and nationally.**

**It will examine how UK-wide cancer registration data and other health related datasets are being exploited to reduce cancer incidence, mortality and morbidity.**

**To find out more, visit [www.ncin.org.uk/conference](http://www.ncin.org.uk/conference)**



**@NCIN\_PHE**  
**#NCIN2014**



**NCRI**  
**National  
Cancer  
Research  
Institute**