



Future Direction for Cancer Registries

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In Ye Olde Days....



- 8 regional cancer registries
- Variation in practice
 - Different coding systems
 - Different data sources
 - Data hard to compare
- Difficulties of doing national work
 - Duplications
 - Timeliness
 - Data comparability

One National Cancer Registration Service



Solves these problems:

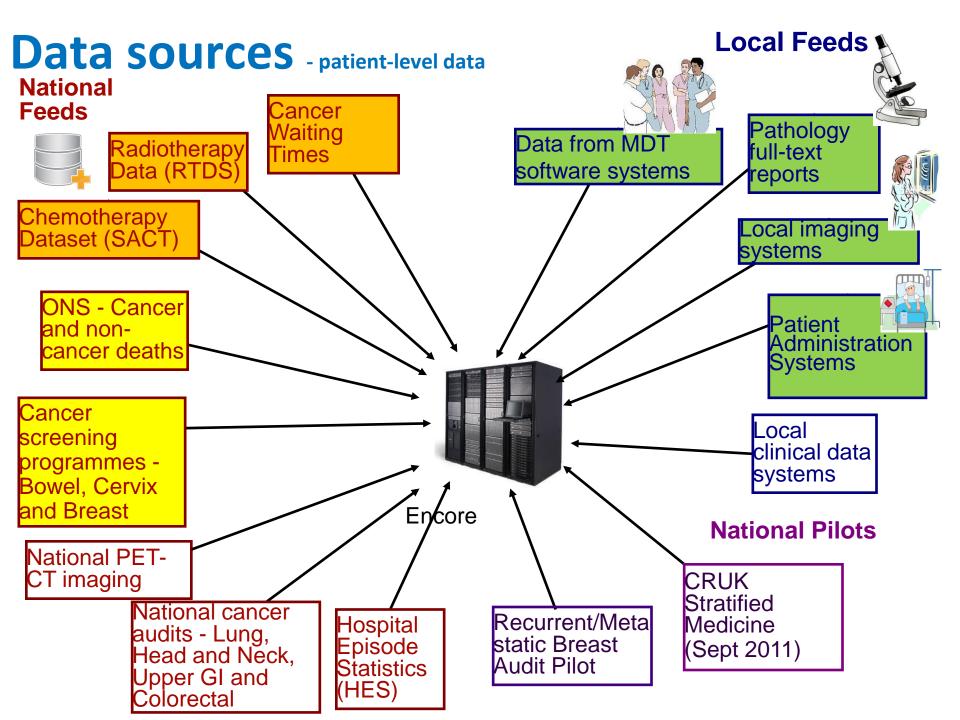
- Single England wide system
- Common standards and processes including data quality
- National datasets available for external analysis and research

One National Cancer Registration Service



And takes us further!

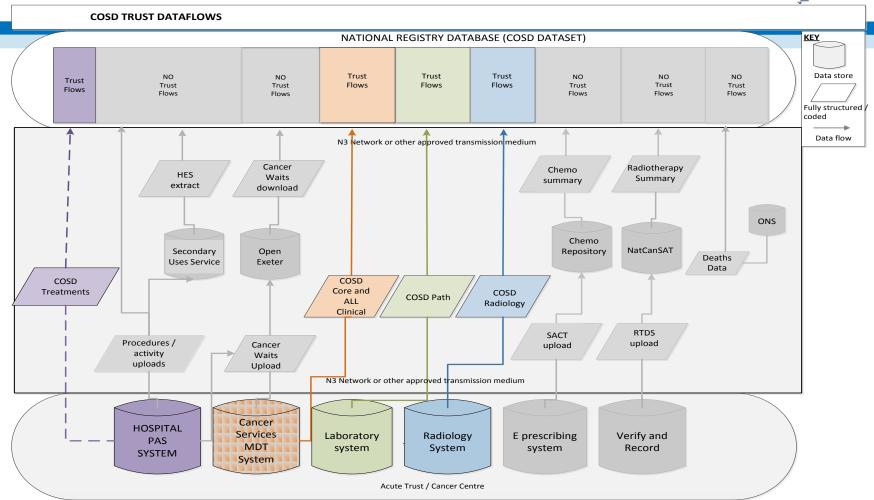
- All systems development now done once instead of 8 times!
 - Opportunity for all to reach standard of the best
 - And to improve on that!
- COSD compliant
- Rapid processing of many data sources
- Direct feedback of data to clinical teams
- Support for (near) real-time surveillance,
 cancer audit and analysis



Direct Provider data flows







One National Cancer Registration Service



To have:

- Single cancer registration service for England
- Near real-time comprehensive data collection and quality assurance
- For entire cancer pathway
- For all patients diagnosed and treated

Providing:

- Near real-time feedback for providers and clinical teams (months not years)
- QA, completeness, clinical indicators, etc
- Stronger partnerships between Registries and Trusts

Local data collection at MDTs is key to success

Information Governance



- S251 NHS Act exemption
 - All cancer registries covered one annual application
 - Annual renewal through National Information Governance Board (NIGB) and corresponding statutory instrument
- Caldicott Guardian
 - sign-off required to allow transfer of data to and from organisations
 - existing signoff covers COSD

Information Governance



Data Protection Act

- All cancer registries are registered under the DPA.
- Fair processing notices, including rights to withdraw consent, are provided through the UKACR Patient Information Leaflet
- Leaflet available from:

www.orderline.dh.gov.uk/ecom dh/public/home.jsf ACR078 About Cancer Registration



Staging Completeness



- Focus on improving staging data quality
 - In 2010, some registries staged over 70% of cases, others less than 30%
- Need to understand stage of disease to understand
 - Appropriate treatments
 - Expected outcomes
 - Case mix adjust fairly
- Historically, registry data focussed on Lung, breast, colorectal

Staging Completeness



- It is possible to collect Ann Arbor staging data for lymphomas
- The Eastern Cancer Registry prioritised this as a valuable data item
 - 86% with known stage for Non Hodgkin's
 - 93% with known stage for Hodgkin's
- Not historically a priority in other areas of the country
- Now mandated by COSD should start to see national staging data.

Improved coding systems



- Currently variation in coding systems used to collect information on tumours
- One national system will see all tumours coded in ICD O3
- This separates out coding for site and morphology
- Greatly improved lymphoma data
 - not just 'it is a lymphoma' but 'this is a lymphoma and this is where it is'

Richer data from COSD



- Site specific fields
- Selected by the SSCRG who had to justify the value of each one
- Examples:
 - Platelet count (for CML, CLL, Myeoldysplasia)
 - White blood cell count (for AML, ALL, Hodgkin's)
 - Hasford Index and Sokal Index (for CML) etc etc
- Will be collected and coded consistently around the country.

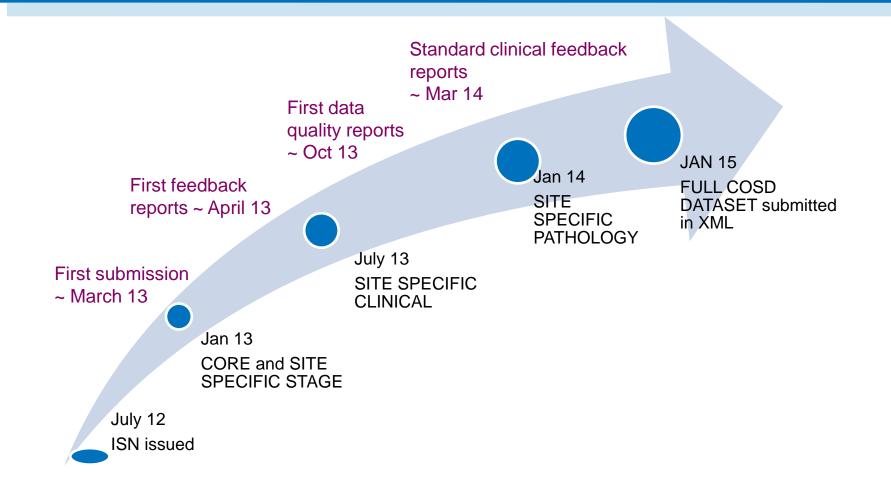
Feedback for Providers and Clinical Teams



- Monthly Conformance Report
 - Extract files received, number of cases, timeliness etc
- Data Quality
 - Initial completeness eg NHS number, stage
- Summary Information Indicators
 - Eg COSD data item completeness
- Clinical and Performance Indicators
 - NICE Quality Standards etc

Proposed Feedback Timetable





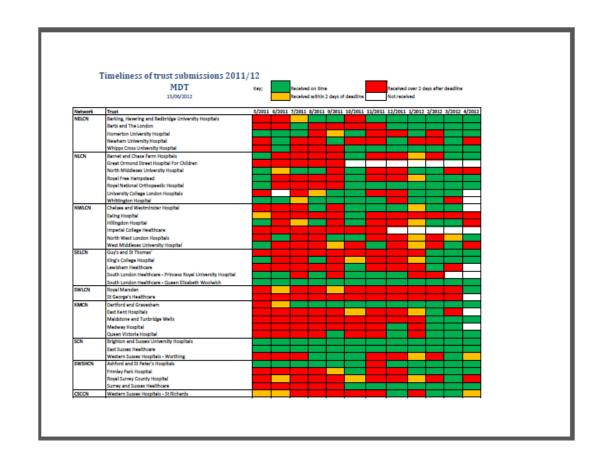
Feedback Indicators?



	No of Records	No of Persons	Full Valid Stage	Partial Stage
North East London				
Barking, Havering & Redbridge Univ. Hospitals NHS Trust	2696	2665	14%	6%
Barts and the London NHS Trust	2164	2163	32%	10%
Homerton University Hospital NHS Trust	479	472	31%	5%
Newham University Hospital NHS Trust	438	438	26%	2%
Whipps Cross University Hospital NHS Trust	1214	1209	10%	12%
North London				
Barnet and Chase Farm Hospitals NHS Trust	2013	1958	11%	21%
Great Ormond Street Hospital for Children NHS Trust	95	95	7%	0%
North Middlesex University Hospital NHS Trust	493	491	2%	5%
toyal Free Hampstead NHS Trust	1228	1228	38%	35%
toyal National Orthopaedic Hospital NHS Trust				7%
University College London Hospitals NHS Trust	2306	2155	12%	2%
Whittington Hospital NHS Trust forth West London	465	460	31%	13%
	488	485	1%	1%
Chelsea and Westminster Hospital NHS Trust				
Ealing Hospital NHS Trust	604	569	27%	13%
Hillingdon Hospital NHS Trust	584	581	3%	4%
imperial College Healthcare NHS Trust	3075	2921	0%	0%
North West London Hospitals NHS Trust	990	977	14%	8%
West Middlesex Hospital NHS Trust	599	574	1%	1%
outh East London				
Guys and St Thomas NHS Foundation Trust	2877	2834	7%	0%
Kings College Hospital NHS Foundation Trust	1852	1824	12%	11%
Lewisham Healthcare NHS Trust	332	331	3%	1%
outh London Healthcare NHS Trust	2252	2225	16%	11%
outh West London				
Croydon Healthcare NHS Trust	911	903	20%	17%
psom and St Heller University Hospitals NHS Trust	1412	1391	22%	11%
Cingoton Hospital NHS Trust	682	665	11%	5%
Royal Manden NHS Foundation Trust	5869	5482	39%	8%
St George's Healthcare NHS Trust	1303	1264	5%	6%
ent and Medway				
Dartford and Gravesham NHS Trust	875	871	7%	4%
East Kent Hospitals NHS Trust	4102	4084	6%	5%
Maidstone and Tunbridge Wells NHS Trust	2517	2512	12%	4%
Medway NHS Foundation Trust	1728	1724	15%	2%
Queen Victoria Hospital NHS Foundation Trust	160	159	2%	1%
surrey, West Sussex and Hampshire	4 40.5	****	4401	***
Ashford and St Peter's Hospitals NHS Trust	1425	1366	11%	9%
Frimley Park Hospital NHS Foundation Trust	1855	1853	17%	17%
Royal Surrey County Hospital NHS Trust	5192	5156 1888	4%	10%
Surrey and Sussex Healthcare NHS Trust	1907	1888	14%	14%
kussex	4070	4232	20%	20%
Brighton and Sussex University Hospitals NHS Trust	4270 2679		30%	20%
East Sussex Hospitals NHS Trust		2620		0010
Western Sussex Hospitals Trust (Worthing Hospital)	2281	2245	16%	25%
		1897	12%	1994
Central South Coast Western Sussex Hospitals Trust (St Richards Hospital)	1938			

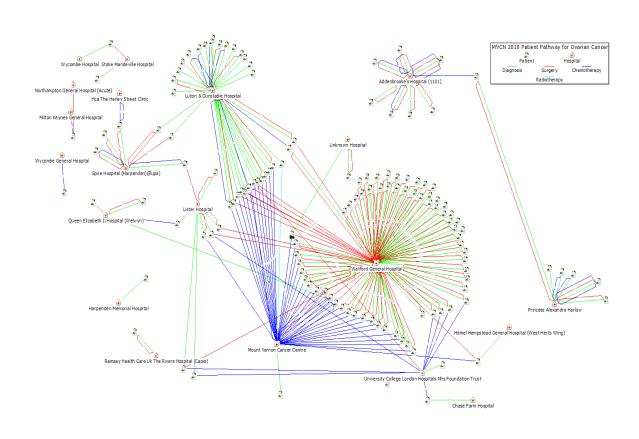
Feedback Dashboards and profiles?





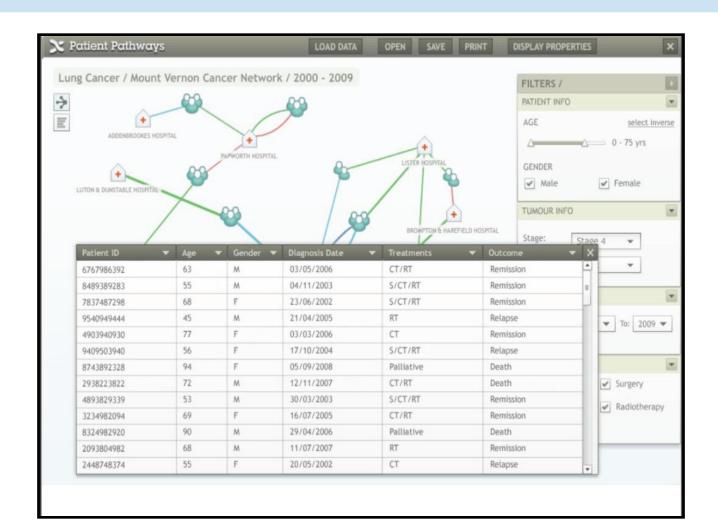
Feedback Patient Pathways?





Feedback Patient Pathways?





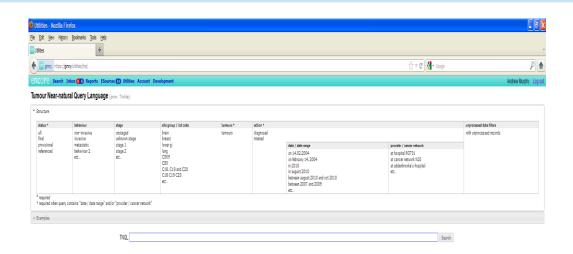
Feedback Interactive tools?





Feedback Direct querying?!







Future Feedback?



- No point providing feedback if no-one is reading it!
- Needs to be
 - Easy to use
 - Engaging
 - Answering the questions clinicians, nurses and service managers care about!
- Important to work with the users to develop tools that are best for them
- Not necessarily one size fits all

Conclusions



- A single cancer registration system (ENCORE) for England
- COSD compliant
- Routine, timely feedback
- Provide powerful data for local, national and international analysis

Any further questions, feel free to contact me sally.vernon@ecric.nhs.uk
or the lead cancer registry for Haematology caroline.brook@nycris.leedsth.nhs.uk

Haematology Specific (1)



Data Item Section	Data Item Name		
HAEMATOLOGY - LABORATORY RESULTS			
HAEMATOLOGY - LABORATORY RESULTS - CML, CLL, MYELODYSPLASIA	PLATELET COUNT		
HAEMATOLOGY - LABORATORY RESULTS - AML, ALL, HODGKIN	WHITE BLOOD CELL COUNT (HIGHEST PRE TREATMENT)		
HAEMATOLOGY-LABORATORY-HODGKIN, CLL, MYELODYSPLASIA, FOLLICULAR	BLOOD HAEM OGLOBIN CONCENTRATION		
HAEMATOLOGY - LABORATORY RESULTS - MYELODYSPLASIA	BONE MARROW KARYOTYPE		
HAEMATOLOGY - LABORATORY RESULTS -M YELODYSPLASIA	BONE MARROW BLASTS PERCENTAGE		
HAEMATOLOGY-LABORATORY RESULTS-MYELODYSPLASIA	NEUTROPHIL COUNT		
HAEMATOLOGY - LABORATORY RESULTS - M YELOMA, HODGKIN	ALBUMIN		
HAEMATOLOGY-LABORATORY RESULTS-MYELOMA	BETA2 MICROGLOBULIN LEVEL		
HAEMATOLOGY - LABORATORY RESULTS - HODGKIN	BLOOD LYMPHOCTYE COUNT		
HAEMATOLOGY-LABORATORY RESULTS-FOLLICULAR, DLBCL, OTHER LYMPHOMAS	LACTATE DEHYDROGENASE LEVEL		
HAEMATOLOGY-LABORATORY RESULTS-CLL	BLOOD MYELOBLASTS PERCENTAGE		
HAEMATOLOGY-LABORATORY RESULTS-CML	BLOOD BASOPHILS PERCENTAGE		
HAEMATOLOGY-LABORATORY RESULTS - CML	BLOOD EOSINOPHILS PERCENTAGE		
HAEMATOLOGY-LABORATORY RESULTS-AML	CYTOGENETIC GROUP (ACUTE MYELOID LEUKAEMIA)		
HAEMATOLOGY - CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - FOLLICULAR	NUMBER OF ABNORMAL NODAL AREAS		
HAEMATOLOGY - CANCER CARE PLAN - FOLLICULAR, DLBCL, OTHER LYMPHOMAS, HODGKIN	PRIMARY EXTRANODAL SITE		
HAEMATOLOGY - CANCER CARE PLAN - DLBCL	NUMBER OF EXTRANODAL SITES CODE		
HAEMATOLOGY - CML CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - CML	SPLEEN CM BELOW COSTAL MARGIN		
HAEMATOLOGY - CANCER CARE PLAN - CML	HASFORD INDEX (CHRONIC MYELOID LEUKAEMIA)		
HAEMATOLOGY - CANCER CARE PLAN - CML	SOKAL INDEX (CHRONIC MYELOID LEUKAEMIA)		

Haematology Specific (2)



Data Item Section	Data Item Name		
HAEMATOLOGY - MYELODYSPLASIA CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - MYELODYSPLASIA	IPSS (MYELODYSPLASIA)		
HAEMATOLOGY - CLL CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - CLL	HEPATOM EGALY INDICATOR		
HAEMATOLOGY - CANCER CARE PLAN - CLL	SPLENOMEGALY INDICATOR		
HAEMATOLOGY - CANCER CARE PLAN - CLL	NUMBER OF LYMPHADENOPATHY AREAS		
HAEMATOLOGY - CANCER CARE PLAN - CLL	RAI STAGE		
HAEMATOLOGY - CANCER CARE PLAN - CLL	BINET STAGE		
HAEMATOLOGY - FOLLICULAR CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - FOLLICULAR	FLIPI INDEX SCORE		
HAEMATOLOGY - DLBCL CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - DLBCL	(R)IPI INDEX for DLBCL		
HAEMATOLOGY - MYELOMA CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - MYELOMA	ISS STAGE for MYELOMA		
HAEMATOLOGY - HODGKIN CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - HODGKIN	HASENCLEVER INDEX		
HAEMATOLOGY - ACUTE LYMPHOCYTIC LEUKAEMIA CANCER CARE PLAN			
HAEMATOLOGY - CANCER CARE PLAN - ACUTE LYM PHOCYTIC LEUKAEM IA	HASENCLEVER INDEX		
HAEMATOLOGY - STAGING			
HAEMATOLOGY - STAGING - HODGKIN, FOLLICULAR, DLBCL, OTHER LYMPHOMAS	ANN ARBOR STAGE		
HAEMATOLOGY - STAGING - HODGKIN, FOLLICULAR, DLBCL, OTHER LYMPHOMAS	ANN ARBOR SYMPTOMS		
HAEMATOLOGY - STAGING - HODGKIN, FOLLICULAR, DLBCL, OTHER LYMPHOMAS	ANN ARBOR EXTRANODALITY		
HAEMATOLOGY - STAGING - HODGKIN, FOLLICULAR, DLBCL, OTHER LYMPHOMAS	ANN ARBOR BULK		