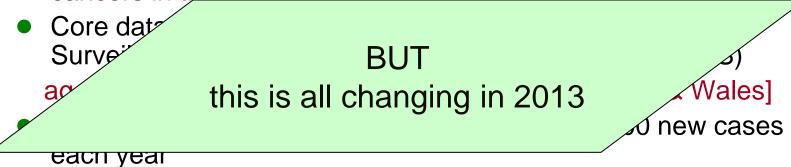


Impact of COSD on Cancer Registration

NCIN Sarcoma Workshop 18 January 2013

Dr Gill Lawrence, Director West Midlands Cancer Intelligence Unit Tel: 0121 415 8129 e-mail: gill.lawrence@wmciu.nhs.uk

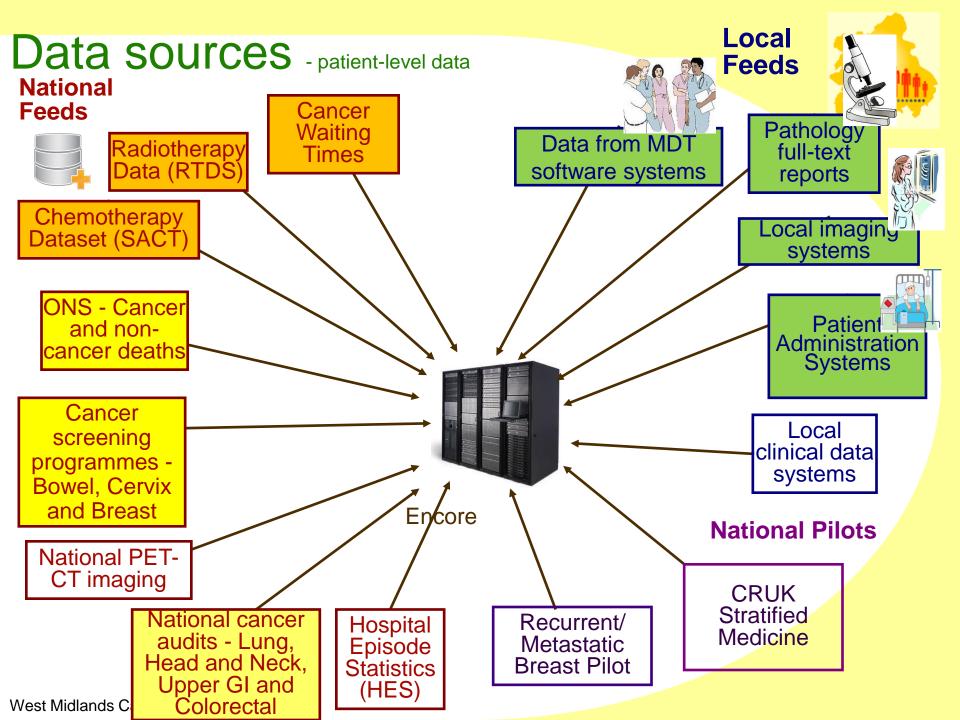
The UK's National Cancer Registration System 8 'regional' English cancer registers + Wales, Scotland, N Ireland [& Eire] record all malignant (invasive and *in situ*) and some benign cancers in their residents



- WMCIU holds the second largest regional register and fifth largest European register
- In 2013 the regional cancer registries are moving to a single cancer registration database for England

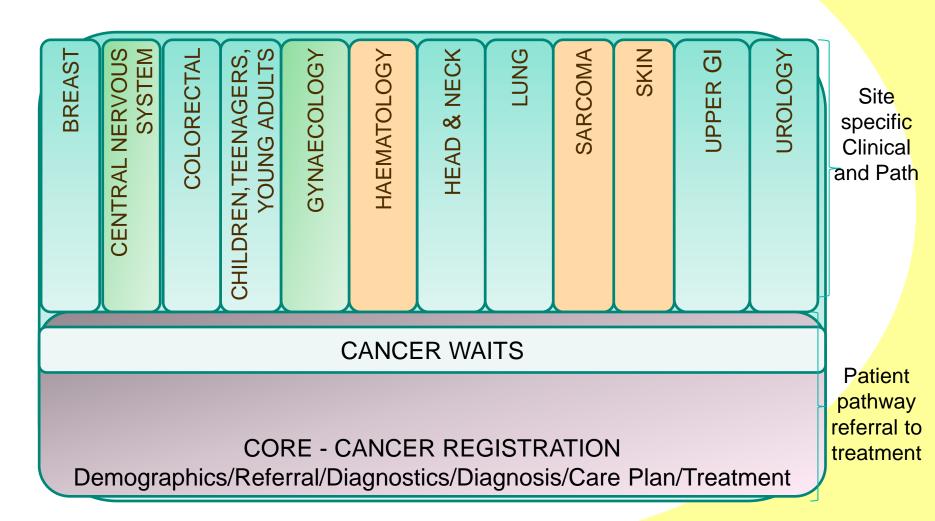
ENCORE

From 1 January 2013 there will be a new cancer registration dataset





COSD – Mandatory from 1 January 2013



What's different about the COSD?



- Complete patient pathway
 - Referral details for all cases
 - All treatments
 - Includes palliative and supportive care
- Additional core data items including
 - Involvement of Clinical Nurse Specialist
 - Duration of symptoms
 - Mandatory for Children, Teenagers, Young Adults (CTYA), Optional for others
 - Year/Month/Day as appropriate or available
- All registerable conditions including
 - In situ bladder, in situ melanoma, benign brain tumours
- Includes recurrences
 - Breast cancers to start with
- Site specific data
 - Key site specific clinical items patient management
 - Site specific stage
 - Stage components of RCPath datasets

Data Item Name Primary Diagnosis (ICD) Multidisciplinary Team Discussion Date (Cancer) Cancer Care Plan Intent Performance Status (Adult)	Suggested System/Source	COSD Dataset
TNM Stage Grouping (Final Pre Treatment) Site Code (Of Imaging) Procedure Date (Cancer Imaging) Imaging Code (Nicip)		МОТ
Cancer Imaging Modality Imaging Anatomical Site Consultant Code Care Professional Main Specialty		Radiology
Code Procedure Date Primary Procedure (Opcs) Procedure (Opcs)		PAS
Investigation Result Date Service Report Identifier Service Report Status Care Professional Code (Pathology	·	Pathology
Test Requested By) Organisation Site Code (Pathology Test Requested By)		
Cancer Treatment Event Type Treatment Start Date (Cancer) Cancer Treatment Modality Organisation Site Code (Provider Treatment Start Date (Cancer)	<	National Feeds – datasets and other sources e.g. CWT, RTDS, SACT,
st Midlands Cancer Intelligence Unit		(ONS)

How will data reach the registries?



- Multiple Trust systems (MDT, PAS, Path, RIS)
 - ✤ Separate files for MDT, PAS, Path, RIS
 - * Compiled by registries into a full patient record
- Method of transmission
 - ✤ Agreed with registries
 - Data Transfer Agreements
 - Secure transmission nhs.net
 - ✤ Aim towards XML
 - * Path data extracted from path reports by registries
- Minimising duplication of data flows

Sarcoma specific data items



	ems	Sarcoma Specific Data Ite	
	Data Item Name	Data Item Section	Data item No.
	SARCOMA TUMOUR SITE (BONE)	SARCOMA - DIAGNOSIS	SA11000
	SARCOMA TUMOUR SUBSITE (BONE)	SARCOMA - DIAGNOSIS	SA11010
	SARCOMA TUMOUR SITE (SOFT TISSUE)	SARCOMA - DIAGNOSIS	SA11080
)	SARCOMA TUMOUR SUBSITE (SOFT TISSUE)	SARCOMA - DIAGNOSIS	SA11090
	MULTIFOCAL OR SYNCHRONOUS TUMOUR INDICATOR	SARCOMA - DIAGNOSIS	SA11025
-	INVESTIGATION RESULT DATE	SARCOMA - PATHOLOGY	SA11200
	SERVICE REPORT IDENTIFIER	SARCOMA - PATHOLOGY	SA11210
	HISTOPATHOLOGICAL TUMOUR GRADE	SARCOMA - PATHOLOGY	SA11120
	GENETIC CONFIRMATION INDICATOR	SARCOMA - PATHOLOGY	SA11170
	EXTENT OF LOCAL SPREAD (BONE)	SARCOMA - PATHOLOGY - BONE	SA11130
	TUMOUR NECROSIS	SARCOMA - PATHOLOGY - BONE	SA11140
]	TISSUE TYPE AT NEAREST MARGIN	SARCOMA - PATHOLOGY - BONE	SA11160
1	TUMOUR DEPTH	SARCOMA - PATHOLOGY - SOFT TISSUE	SA11100

Children Teenagers Young Adults Specific Data Items

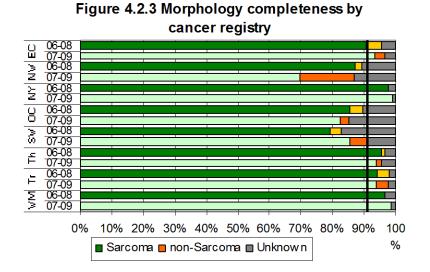
	Data item No.	Data Item Section	Data Item Name
	CT6470	OSTEOSARCOMA and EWINGS	SARCOMA TUMOUR SITE (BONE)
	CT6440	OSTEOSARCOMA and EWINGS	SARCOMA TUMOUR SUBSITE (BONE)
	CT6380	RHABDOMYOSARCOMA and OTHER SOFT TISSUE SARCOMAS	SARCOMA TUMOUR SITE (SOFT TISSUE OTHER THAN RHABDOMYOSARCOMA)
	CT6390	RHABDOMYOSARCOMA and OTHER SOFT TISSUE SARCOMAS	SARCOMA TUMOUR SUBSITE (SOFT TISSUE) OTHER THAN RHABDOMYOSARCOMA
	CT6350	RHABDOMYOSARCOMA and OTHER SOFT TISSUE SARCOMAS	IRS POST SURGICAL GROUP
/	CT6360	RHABDOMYOSARCOMA and OTHER SOFT TISSUE SARCOMAS	CYTOGENETICS FOR ALVEOLAR RHABDOMYOSARCOMA
	CT6370	RHABDOMYOSARCOMA and OTHER SOFT TISSUE SARCOMAS	RHABDOMYOSARCOMA SITE PROGNOSIS CODE
	CT6400	OSTEOSARCOMA	PRIMARY TUMOUR SIZE (Radiological)
	CT6410	OSTEOSARCOMA	EXTENT OF NECROSIS AFTER CHEMOTHERAPY
	CT6420	OSTEOSARCOMA	SARCOMA SURGICAL MARGIN ADEQUACY
\setminus	CT6450	EWINGS	TUMOUR VOLUME AT DIAGNOSIS
	CT6460	EWINGS	CYTOGENETICS FOR EWINGS SARCOMA

Why is COSD important? – Bone cancer data completeness 2007-2009



	% Complete	Registry								
	Data item	ECRIC	NWCIS	NYCRIS	OCIU	SWCIS	Thames	Trent	WMCIU	
+	Sex	100%	100%	100%	100%	100%	100%	100%	100%	
ien ails	Age at diagnosis	100%	97%	100%	100%	100%	100%	100%	100%	
Patient details	NHS number	98%	100%	100%	100%	100%	98%	99%	99%	
Ξ.	Ethnicity	54%	95%	<mark>62%</mark>	85%	91%	86%	91%	93%	
5 0	Morphology	<mark>94</mark> %	70%	99%	<mark>82%</mark>	86%	94%	94%	<mark>99</mark> %	
Tumour details	Morphology coding system (ICDM 3)	61%	45%	69%	0%	0%	0%	0%	100%	
Tun det	Laterality	<mark>89%</mark>	79%	99%	80%	88%	95%	93%	1 0 0%	
	Detailed Site Code	<mark>92%</mark>	73%	97%	87%	93%	84%	89%	97%	
sis ion	Basis of diagnosis	90%	78%	95%	82%	86%	91%	87%	97%	
Diagnosis Information	Cases registered from more than a death certificate	100%	99%	100%	100%	100%	99%	97%	100%	
⊡ ^I	Diagnosis dates	<mark>95</mark> %	96%	100%	100%	100%	98%	100%	97%	
t	Surgery	44%	44%	74%	62%	54%	75%	47%	65%	
Treatment data	Radiotherapy	12%	20%	20%	19%	10%	12%	5%	10%	
eat da	Chemotherapy	34%	29%	38%	16%	38%	29%	37%	38%	
Ъ	Neo-adjuvant therapy	0%	0%	0%	0%	0%	0%	0%	23%	
Death data	Cause of death	100%	99%	100%	100%	100%	99%	96%	99 %	
De da	Place of death	100%	98%	98%	46%	44%	65%	98%	92%	
	Tumour size	20%	0%	0%	0%	7%	11%	0%	47%	
	T component	1%	0%	0%	0%	1%	1%	0%	1%	
data	Nodes examined	1%	0%	1%	0%	3%	1%	0%	3%	
Staging da	Nodes positive	1%	3%	4%	0%	1%	0%	0%	3%	
	N component	1%	0%	0%	0%	1%	0%	0%	1%	
tag	Metastases ("Yes" or "No")	0%	0%	12%	1%	7%	68%	0%	10%	
Ś	M component	0%	0%	0%	1%	7%	0%	0%	0%	
	Grade	34%	20%	22%	<mark>26%</mark>	32%	5%	0%	<mark>63%</mark>	
	TNM stage	1%	0%	1%	1%	7%	0%	0%	2%	

Bone cancer – data completeness





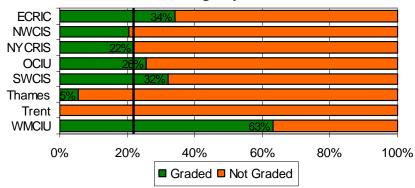
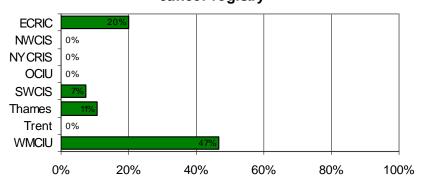
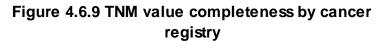
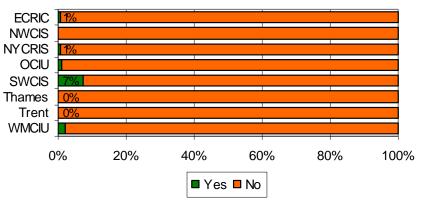


Figure 4.6.1 Tumour size completeness by cancer registry







Why is COSD important? – Soft tissue sarcoma data completeness 2007-2009

	% Complete											
	Data item	ECRIC	NWCIS	NYCRIS	OCIU	SWCIS	Thames	Trent	WMCIU			
+ <u></u> "	Sex	100%	100%	100%	100%	100%	100%	100%	100%			
Patient details	Date of Birth	100%	96%	100%	100%	100%	100%	100%	100%			
Pat det	NHS number	100%	99.6%	99.9%	99.8%	99.9%	98.2%	99.9%	99.8%			
	Ethnicity	54%	86%	63%	<mark>83%</mark>	88%	82%	86%	89%			
ils i	Morphology coding system (ICDM 3)	52%	35%	71%	0%	0%	0%	0%	100%			
Tumour details	Laterality	93%	83%	96%	<mark>91%</mark>	<mark>91%</mark>	94%	96%	99%			
μ	Detailed Site Code	86%	80%	85%	79%	84%	71%	88%	85%			
Diagnosis Information	Basis of diagnosis (histology)	95%	90%	97%	96%	96%	94%	95%	97%			
gno	Cases registered from more than a death certificate	100%	98.5%	99.8%	99.7%	99.9%	99.2%	98.7%	100%			
Dia ⊓fo		100 /0	90.5%	99.0 /0	99.1 /0	33.3 /0	99.2 /0	90.7 /0	100 /6			
	Diagnosis dates	99%	97%	100%	100%	100%	98%	100%	96%			
ent	Surgery	67%	60%		73%	73%	78%	47%	70%			
Treatment data	Radiotherapy	20%	15%		14%	16%	15%	7%	26%			
d d	Chemotherapy	20%	14%		16%	16%	14%	17%	12%			
	Neo-adjuvant therapy	0%	0%	0%	0%	0%	0%	0%	2%			
Death data	Cause of death	100%	99%	100%	100%	99%	99%	95%	1 00 %			
Ъф	Place of death	100%	98%	97%	47%	47%	73%	100%	<mark>96</mark> %			
	Tumour size	34%	1%	1%	2%	29%	12%	0%	47%			
	T component	3%	0%	0%	1%	5%	3%	0%	12%			
g	Nodes examined	5%	0%	1%	1%	5%	5%	0%	6%			
data	Nodes positive	1%	1%	0%	0%	1%	1%	0%	2%			
Staging	N component	1%	0%	0%	6%	15%	2%	0%	7%			
tagi	Metastases ("Yes" or "No")	0%	0%	18%	3%	9%	61%	0%	16%			
õ	M component	2%	1%	0%	4%	10%	1%	0%	8%			
	Grade	44%	33%		31%	51%	10%	2%	45%			
	TNM stage	1%	1%		3%	9%	0%	0%	8%			



Most common soft tissue sarcoma variants

Morphology	88903	88003	91403	88503	88323	89303	88013	88113	91203	89903	88513	88303	89363	
Description	Leiomyosarcoma, NOS	Sarcoma, NOS	Kaposi's sarcoma	Liposarcoma, NOS	Dermatofibrosarcoma	Endometrial stromal sarcoma	Spindle cell sarcoma	Fibromyxosarcoma	Haemangiosarcoma	Mesenchymoma, malignant	Liposarcoma, well differentiated	Fibrous histiocytoma, malignant	Gastrointestinal stromal sarcoma	5 Most common types
ECRIC	21%	12%	3%	5%	5%	3%	5%	4%	2%	7%	2%	2%	0%	50%
NWCIS	18%	13%	5%	5%	6%	1%	4%	4%	5%	4%	4%	2%	1%	52%
NYCRIS	17%	14%	2%	5%	6%	2%	4%	3%	3%	2%	7%	1%	5%	49%
OCIU	17%	12%	2%	12%	3%	3%	4%	3%	2%	7%	4%	3%	0%	53%
SWCIS	17%	12%	3%	7%	4%	3%	4%	5%	4%	5%	2%	3%	0%	47%
Thames	14%	10%	12%	5%	6%	12%	4%	3%	3%	0%	1%	3%	0%	53%
Trent	19%	11%	4%	2%	6%	3%	2%	5%	4%	6%	3%	2%	0%	48%
WMCIU	17%	6%	3%	3%	4%	1%	8%	2%	6%	0%	5%	8%	8%	46%
Grand Total	17%	11%	5%	5%	5%	5%	4%	4%	4%	3%	3%	3%	1%	44%

Soft tissue sarcoma – data completeness



Figure 4.6.9 TNM value completeness by registry

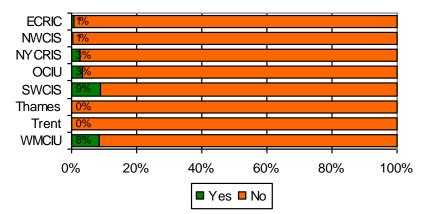


Figure 4.6.1 Tumour size completeness by

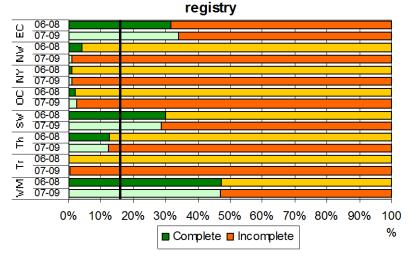
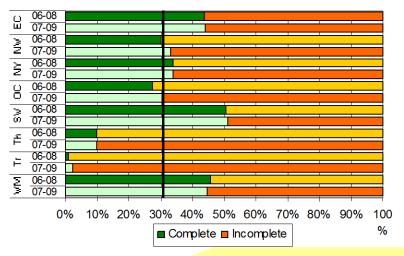
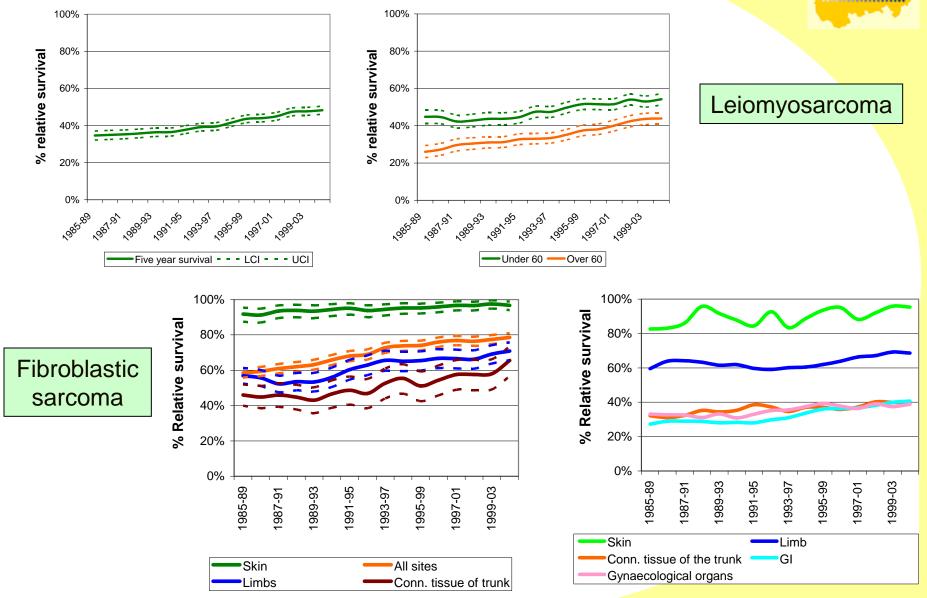


Figure 4.6.8 Grade completeness by registry



Why do we need staging data?







- Matthew Francis
- Nicola Dennis

