

Data Quality Report
2013
National Cancer Data Repository 2010 Data
Urological Cancers SSCRG



Introduction

This report has been produced as collaboration between the South West Public Health Observatory (SWPHO) and the Urological Site Specific Cancer Reference Group (SSCRG) of the National Cancer Intelligence Network (NCIN).

This report assesses the completeness of staging information held in the National Cancer Data Repository (NCDR) for urological tumours (ICD10 C60-C62, C64-C67). Quality of data recorded associated with histology, ethnicity and treatment were also assessed for kidney cancer records.

Method

Records of urological tumours (ICD10 C60-C62, C64-C67) in each Cancer Registry in England for the three most recent diagnosis years available, 2008-2010, were analysed. Pathological, clinical and integrated* staging fields (T, N and M separately and overall TNM stage grouping) were extracted.

* Integrated stage is a hybrid of pathological and clinical T, N and M values. Generally, the T and N values will come from the pathology and the M value will be attributed clinically.

There is also a field for an overall registry derived stage, separate from the TNM fields.

Additional fields were extracted for kidney cancer records relating to histology, ethnicity and treatment.

The percentage valid in each field represents the number of tumours with a valid entry as a proportion of all tumours of that type in a given year at a given registry. The entries which were classed as valid are detailed in table 1. It is important to note that for treatment data, especially surgery, a number of different procedures can be counted in that group and give rise to a 'Yes' entry. For example, in bladder cancer, a trans-urethral resection of a bladder tumour (TURBT) will be counted as a surgical procedure. Under the ethnicity coding system it is possible, and correct, to put the code 'X' or 'Z' which mean 'unknown'. Therefore the completeness of ethnicity is shown both with and without X and Z codes. The remaining codes A to S refer to specific ethnic groups.

Table 1: Valid entries for NCDR 2008-2010 fields analysed

	Field	Valid Entries						
		C60 (Penile)	C61 (Prostate)	C62 (Testicular)	C64 (Kidney except renal pelvis)	C65 (Renal Pelvis)	C66 (Ureter)	C67 (Bladder)
Pathological Stage	T	1-4	2-4	1-4	1-4	1-4	1-4	1-4
	N	0-3	0-1	0-3	0-2	0-3	0-3	0-3
	M	0-1	0-1	0-1	0-1	0-1	0-1	0-1
	TNM	I-IV	I-IV	I-IV	I-IV	I-IV	I-IV	I-IV
Clinical Stage	T	1-4	1-4	1-4	1-4	1-4	1-4	1-4
	N	0-3	0-1	0-3	0-2	0-3	0-3	0-3
	M	0-1	0-1	0-1	0-1	0-1	0-1	0-1
	TNM	I-IV	I-IV	I-IV	I-IV	I-IV	I-IV	I-IV
Histology	All	Valid five character codes						
	Specific	As above excluding '8000' (neoplasm), '8010' (carcinoma)						
Ethnicity	All	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, X, Z						
	Specific	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S						
Treatment Flag	Surgery	Y, N						
	Chemo	Y, N						
	Radio	Y, N						
	Hormone	Y, N						

Source: South West Public Health Observatory

Results

- Staging data using the TNM system is generally very poor. Oxford Cancer Intelligence Unit, South West Cancer Intelligence Service and Thames Cancer Registry, throughout the period studied, had no valid integrated TNM stage.
- Only East Cancer Registration & Information Centre (ECRIC) has achieved the staging target of 70% for all urological cancer types. With the exception of testicular tumours in the most recent year, ECRIC achieved in excess of 80% for each tumour type for the 2010 data year.
- Only Thames Cancer Registry has recorded data in the Registry derived overall stage field. Completeness figures are consistent for each of the three years, and across the range of urological sites (all around 50%-70%).
- In iterations of the NCDR, West Midlands Cancer Intelligence Unit (WMCIU) had achieved the target of 70% staging for testicular and bladder cancers. These figures have dropped considerably since last NCDR release (NCDR2009). For testicular tumours the staging completeness has fallen by almost 40%.
- Recording completeness of kidney cancer histologies by all Registries is similar. All Registries achieved 100% (including valid, non-specific histologies) and an average of 80% excluding non-specific histologies, in 2010, range 74%-87%.
- The average completeness of ethnicity for kidney cancer is 94% (including valid non-specific ethnicities) and an average of 73% (not including valid non-specific ethnicities). There appears to have been a fall of ethnicity recording completeness in 2010 in both ECRIC and SWPHO. Completeness has decreased from a average of 84% and 76% respectively in 2008 and 22% and 26% respectively in 2010. Other registries appear to be more consistent over the last three years.
- Recording of the different treatment modalities for kidney malignancies differs widely between Registries, possibly reflecting differing interpretations of the National Cancer Data Repository specification by Registries. Valid surgery flags range between 37% and 99.9%. Those registries with a lower percentage of valid flags (ECRIC, Thames and WMCIU) have a no difference between valid surgery flags and 'Y' Surgery flags, whereas those registries with higher valid surgery flags have large differences between valid surgery flags and 'Y' Surgery flags. This means all Registries may not concordant in their use of the 'N' flag. It appears, for all treatment modalities, that some Registries assume that a lack of a record of a treatment modality means the tumour has not been treated with that modality and have assigned an 'N' flag. While other Registries do not make this assumption, and possibly consider the lack a treatment record for a particular treatment modality could be an artefact of data quality rather than an a definite indicator that a treatment modality have not been received.

Table 2: Valid staging information for penile cancer (C60) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.4	26.4	1.9	67.9	0.0
	2009	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.1	39.5	2.3	86.1	0.0
	2010	30	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0	26.7	0.0	80.0	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	60	36.7	5.0	1.7	5.0	1.7	0.0	0.0	0.0	41.7	8.3	5.0	11.7	0.0
	2009	79	63.3	1.3	1.3	5.1	0.0	0.0	0.0	0.0	68.4	2.5	2.5	6.3	0.0
	2010	71	54.9	7.0	1.4	2.8	1.4	0.0	0.0	0.0	81.7	18.3	12.7	2.8	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	56	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	1.8	0.0	0.0	0.0
	2010	64	15.6	1.6	0.0	0.0	1.6	1.6	0.0	0.0	23.4	0.0	0.0	0.0	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	19	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	17	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	13	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	65	49.2	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	75	52.0	5.3	1.3	0.0	6.7	2.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	58	60.3	10.3	3.5	0.0	15.5	12.1	13.8	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	59	71.2	3.4	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.7
	2009	59	84.8	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5
	2010	83	80.7	7.2	2.4	0.0	7.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0	60.2
TRENT CANCER REGISTRY	2008	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	40	5.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	5.0	2.5	2.5	0.0	0.0
	2010	42	7.1	2.4	0.0	2.4	0.0	0.0	0.0	0.0	14.3	4.8	0.0	21.4	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	47	63.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0	63.8	10.6	0.0	0.0	0.0
	2009	53	60.4	3.8	5.7	0.0	3.8	1.9	5.7	0.0	60.4	5.7	9.4	0.0	0.0
	2010	48	68.8	6.3	0.0	0.0	2.1	0.0	10.4	0.0	68.8	6.3	10.4	0.0	0.0

Source: South West Public Health Observatory from NCDR

Table 3: Valid staging information for prostate cancer (C61) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	4,085	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.0	10.9	31.4	94.4	0.0
	2009	4,461	0.1	0.0	0.0	0.0	0.2	0.1	0.2	0.0	86.6	13.4	36.5	93.1	0.0
	2010	4,400	2.1	0.6	0.2	0.1	3.7	2.3	6.7	0.1	86.6	18.8	54.4	93.7	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	3,743	5.0	1.3	0.2	0.5	0.0	0.0	0.0	0.0	19.3	12.8	12.7	1.9	0.0
	2009	4,387	8.2	2.2	0.7	0.6	0.1	0.0	0.1	0.0	22.8	13.4	12.6	2.1	0.0
	2010	4,506	8.9	2.8	1.4	0.3	0.2	0.0	0.0	0.0	57.6	37.8	40.3	8.2	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	4,225	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
	2009	4,504	0.9	0.5	0.0	0.0	0.1	0.1	0.1	0.0	0.3	0.2	0.0	0.8	0.0
	2010	4,351	3.9	2.2	0.1	0.0	4.8	3.0	2.3	0.1	3.5	1.4	0.1	6.0	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	1,849	1.2	0.9	0.7	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	1,976	6.6	3.1	0.1	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	2010	1,874	7.9	3.9	0.1	0.0	1.1	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	5,270	6.2	2.0	1.0	0.0	2.5	0.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
	2009	5,448	13.6	2.3	1.5	0.0	29.6	5.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0
	2010	5,624	15.5	3.1	2.2	0.0	27.0	6.4	14.7	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	6,388	11.7	2.7	0.6	0.0	25.0	7.2	4.5	0.0	0.0	0.0	0.0	0.0	67.1
	2009	7,276	13.4	3.3	0.6	0.0	28.7	9.5	6.0	0.0	0.0	0.0	0.0	0.0	59.5
	2010	6,870	15.3	4.0	0.5	0.0	32.9	13.2	8.9	0.0	0.0	0.0	0.0	0.0	47.1
TRENT CANCER REGISTRY	2008	3,035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.3	0.8	3.9	0.0
	2009	3,437	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.3	1.0	4.7	0.0
	2010	3,322	2.0	0.7	0.1	0.1	0.0	0.0	0.0	0.0	5.6	1.0	1.2	5.8	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	3,599	18.5	10.1	1.6	2.3	26.6	11.1	18.3	15.7	41.8	20.5	19.1	17.2	0.0
	2009	3,769	18.1	10.1	1.2	2.1	28.7	12.5	18.4	16.4	43.1	21.7	19.0	17.9	0.0
	2010	3,945	16.9	9.5	0.9	1.4	59.7	42.4	62.7	48.5	69.2	49.0	63.1	53.7	0.0

Source: South West Public Health Observatory from NCDR

Table 4: Valid staging information for testicular cancer (C62) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	167	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9	13.8	8.4	85.0	0.0
	2009	213	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.7	12.7	10.3	67.1	0.0
	2010	200	13.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	74.5	23.0	16.5	76.5	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	219	37.4	0.5	0.0	2.7	0.0	0.0	0.0	0.0	44.8	2.3	2.3	3.7	0.0
	2009	250	48.8	2.4	3.2	4.4	0.0	0.0	0.0	0.0	50.8	2.4	3.6	5.2	0.0
	2010	260	67.7	2.3	1.5	0.8	0.0	0.0	0.0	0.0	78.9	18.1	20.0	27.3	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	251	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	0.0
	2009	257	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	16.7	0.0
	2010	234	22.2	0.0	0.0	0.0	2.1	1.3	1.3	0.9	12.8	1.3	0.9	17.5	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	106	8.5	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	103	64.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	115	81.7	1.7	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	323	51.7	1.9	3.4	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
	2009	246	55.3	2.4	6.9	0.0	8.1	5.7	8.5	0.0	0.0	0.0	0.0	0.0	0.0
	2010	288	67.4	6.3	7.3	0.0	6.6	2.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	387	60.7	1.8	0.5	0.0	4.7	2.6	1.8	0.0	0.0	0.0	0.0	0.0	70.0
	2009	392	65.6	3.3	1.0	0.0	3.6	0.8	0.5	0.0	0.0	0.0	0.0	0.0	61.5
	2010	368	72.3	2.7	1.1	0.0	6.3	3.8	3.3	0.0	0.0	0.0	0.0	0.0	48.9
TRENT CANCER REGISTRY	2008	176	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.0
	2009	173	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.6	0.0	3.5	0.0
	2010	207	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	6.8	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	181	91.7	7.2	8.8	25.4	7.2	19.3	29.8	33.7	91.7	26.0	36.5	56.4	0.0
	2009	209	92.8	6.2	8.6	34.9	5.3	13.4	27.8	33.0	92.8	19.1	32.5	64.6	0.0
	2010	199	92.5	6.5	7.5	33.7	10.1	16.6	29.7	24.6	92.5	21.6	35.2	57.8	0.0

Source: South West Public Health Observatory from NCDR

Table 5: Valid staging information for kidney cancer (C64) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	737	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.2	22.1	35.0	90.0	0.0
	2009	753	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	81.5	20.3	32.0	89.0	0.0
	2010	784	11.6	1.4	0.4	0.3	0.9	1.0	1.5	0.0	85.6	23.7	36.1	90.8	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	797	34.3	6.4	1.1	2.3	0.1	0.1	0.1	0.1	39.3	10.2	7.9	7.0	0.0
	2009	897	39.2	7.6	5.0	4.8	0.2	0.1	0.3	0.3	43.6	10.9	11.9	9.6	0.0
	2010	978	38.9	5.0	3.7	2.4	0.0	0.0	0.2	0.2	57.7	27.3	31.0	15.6	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	1,013	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.7	0.0
	2009	984	1.5	0.3	0.1	0.1	0.2	0.1	0.0	0.0	0.9	0.2	0.0	1.7	0.0
	2010	952	13.9	2.4	0.2	0.1	1.2	2.0	2.2	0.2	14.5	1.4	0.6	20.6	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	319	3.8	2.5	4.1	0.0	2.2	0.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
	2009	340	46.2	8.2	2.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	2010	322	54.0	6.5	2.2	0.0	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	1,084	48.1	9.3	6.9	0.0	2.0	2.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
	2009	1,038	47.6	9.9	9.5	0.0	6.2	5.1	21.6	0.0	0.0	0.0	0.0	0.0	0.0
	2010	1,066	45.2	11.2	9.4	0.0	8.6	8.8	31.2	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	1,177	48.7	9.4	1.2	0.0	7.5	5.6	3.6	0.0	0.0	0.0	0.0	0.0	70.3
	2009	1,207	45.0	8.1	1.7	0.0	9.3	6.6	5.0	0.0	0.0	0.0	0.0	0.0	66.0
	2010	1,265	49.3	9.5	2.2	0.0	11.4	8.9	7.4	0.0	0.0	0.0	0.0	0.0	55.9
TRENT CANCER REGISTRY	2008	744	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.2	0.0	0.1	4.6	0.0
	2009	718	0.6	0.1	0.1	0.3	0.0	0.0	0.0	0.0	2.9	0.6	1.1	24.2	0.0
	2010	733	2.3	0.1	0.3	0.3	0.0	0.0	0.0	0.1	3.8	0.8	1.0	21.4	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	619	64.5	14.1	8.7	10.7	7.9	4.4	17.1	15.5	67.5	17.5	20.8	21.0	0.0
	2009	685	59.6	12.3	9.2	12.0	8.8	6.1	20.3	18.8	64.1	17.8	25.0	26.1	0.0
	2010	646	57.4	11.8	9.3	12.1	13.0	13.9	24.3	17.8	62.9	23.8	29.6	28.8	0.0

Source: South West Public Health Observatory from NCDR

Table 6: Valid staging information for cancer of the renal pelvis (C65) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.1	19.3	16.9	86.8	0.0
	2009	77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.7	23.4	26.0	83.1	0.0
	2010	61	3.3	0.0	0.0	0.0	0.0	1.6	1.6	0.0	73.8	29.5	23.0	82.0	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	43	46.5	4.7	0.0	2.3	0.0	0.0	0.0	0.0	48.8	7.0	2.3	2.3	0.0
	2009	53	47.2	11.3	1.9	1.9	0.0	0.0	0.0	0.0	52.8	13.2	7.6	7.6	0.0
	2010	56	44.6	12.5	0.0	0.0	0.0	0.0	0.0	0.0	57.1	26.8	14.3	3.6	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	121	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
	2010	102	12.8	4.9	0.0	0.0	2.0	1.0	1.0	0.0	4.9	1.0	1.0	13.7	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	30	10.0	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	38	60.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	28	60.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	63	60.3	14.3	4.8	0.0	1.6	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0
	2009	73	72.6	21.9	6.9	0.0	5.5	6.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0
	2010	64	62.5	21.9	7.8	0.0	14.1	12.5	26.6	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	64	68.8	15.6	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	59.4
	2009	81	61.7	17.3	3.7	0.0	8.6	7.4	3.7	0.0	0.0	0.0	0.0	0.0	66.7
	2010	109	67.9	11.0	0.9	0.0	6.4	4.6	1.8	0.0	0.0	0.0	0.0	0.0	57.8
TRENT CANCER REGISTRY	2008	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
	2009	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	7.0	0.0
	2010	47	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	14.9	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	59	79.7	22.0	8.5	0.0	1.7	1.7	11.9	0.0	79.7	23.7	15.3	0.0	0.0
	2009	62	82.3	40.3	8.1	0.0	11.3	6.5	11.3	0.0	88.7	45.2	14.5	0.0	0.0
	2010	72	70.8	22.2	11.1	0.0	2.8	8.3	18.1	0.0	72.2	29.2	23.6	1.4	0.0

Source: South West Public Health Observatory from NCDR

Table 7: Valid staging information for cancer of the ureter (C66) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	42	0.0	0.0	0.0	0.0	2.4	2.4	2.4	0.0	83.3	23.8	11.9	88.1	0.0
	2009	55	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.4	18.2	14.6	90.9	0.0
	2010	42	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.3	19.1	16.7	95.2	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	44	40.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0	45.5	6.8	6.8	2.3	0.0
	2009	48	43.8	6.3	0.0	2.1	0.0	0.0	0.0	0.0	45.8	8.3	4.2	6.3	0.0
	2010	54	51.9	7.4	0.0	1.9	0.0	0.0	0.0	0.0	68.5	22.2	16.7	5.6	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	78	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
	2010	79	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	7.6	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	21	4.8	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	19	63.2	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	19	73.7	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	72	58.3	12.5	1.4	0.0	0.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
	2009	74	63.5	13.5	1.4	0.0	5.4	5.4	18.9	0.0	0.0	0.0	0.0	0.0	0.0
	2010	68	70.6	23.5	8.8	0.0	4.4	5.9	16.2	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	52	63.5	3.9	0.0	0.0	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	65.4
	2009	67	59.7	11.9	4.5	0.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	55.2
	2010	58	77.6	6.9	1.7	0.0	8.6	5.2	1.7	0.0	0.0	0.0	0.0	0.0	60.3
TRENT CANCER REGISTRY	2008	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.4	0.0
	2009	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	45	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	4.4	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	42	83.3	7.1	2.4	0.0	0.0	0.0	2.4	0.0	83.3	7.1	2.4	0.0	0.0
	2009	41	73.2	24.4	9.8	0.0	9.8	12.2	12.2	0.0	78.1	34.2	22.0	0.0	0.0
	2010	49	83.7	14.3	2.0	0.0	6.1	10.2	8.2	0.0	83.7	20.4	10.2	0.0	0.0

Source: South West Public Health Observatory from NCDR

Table 8: Valid staging information for bladder cancer (C67) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage				Overall Stage
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM	
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	1,009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.4	13.0	11.7	89.1	0.0
	2009	1,026	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.2	13.7	12.4	90.7	0.0
	2010	950	13.4	1.3	0.0	0.2	0.8	0.7	0.7	0.0	89.1	17.9	15.6	92.3	0.0
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	1,430	30.6	4.6	2.3	1.2	0.6	0.0	0.0	0.0	42.9	11.2	7.7	2.1	0.0
	2009	1,521	42.3	4.1	1.4	2.8	0.5	0.0	0.0	0.0	48.8	8.8	5.8	3.8	0.0
	2010	1,331	56.9	4.4	1.1	0.9	0.2	0.0	0.0	0.0	69.5	30.2	28.6	7.2	0.0
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	1,244	0.9	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.4	0.0
	2009	1,198	2.8	1.1	0.0	0.1	0.1	0.1	0.0	0.0	1.8	0.3	0.0	0.3	0.0
	2010	1,226	11.9	2.1	0.0	0.0	3.2	2.0	1.6	0.2	12.2	2.1	0.7	5.1	0.0
OXFORD CANCER INTELLIGENCE UNIT	2008	465	5.8	5.6	1.5	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2009	528	46.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2010	441	71.4	7.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	1,322	74.2	7.4	1.4	0.0	1.0	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0
	2009	1,275	76.9	7.8	2.4	0.0	10.7	3.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0
	2010	1,340	79.3	9.5	2.8	0.0	12.0	6.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0
THAMES CANCER REGISTRY	2008	1,730	69.1	5.7	0.9	0.0	8.1	3.3	1.7	0.0	0.0	0.0	0.0	0.0	62.7
	2009	1,665	68.5	7.6	1.5	0.0	8.7	3.4	2.2	0.0	0.0	0.0	0.0	0.0	58.6
	2010	1,606	72.5	7.6	1.1	0.0	9.8	5.2	3.5	0.0	0.0	0.0	0.0	0.0	46.9
TRENT CANCER REGISTRY	2008	964	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1	0.0	1.1	0.0
	2009	904	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.2	0.2	3.1	0.0
	2010	895	7.3	1.7	0.0	0.3	0.0	0.0	0.0	0.0	9.1	2.0	0.2	6.0	0.0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	793	86.9	8.8	4.3	5.7	14.4	6.9	9.6	8.7	88.0	14.5	12.4	14.0	0.0
	2009	868	86.8	5.2	1.8	3.0	13.3	7.5	12.3	12.4	88.0	12.6	13.7	15.6	0.0
	2010	953	84.0	6.1	2.4	5.0	19.9	12.5	16.5	12.6	86.0	17.5	18.1	20.3	0.0

Source: South West Public Health Observatory from NCDR

Table 9: Valid histological, ethnicity and treatment information for Kidney cancer (C64) in English Registry Areas, 2008-2010

Cancer Registry	Year	Cases	Valid Histology		Valid Ethnicity		Surgery		Chemotherapy		Radiotherapy		Hormone Therapy	
			All	Specific	All	Specific	Vlaid Flag	Y' Flag	Valid Flag	Y' Flag	Valid Flag	Y' Flag	Valid Flag	Y' Flag
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2008	737	100	84.0	98.1	46.7	58.8	58.8	8.3	8.3	5.4	5.4	0.8	0.8
	2009	753	100	85.5	98.4	65.3	57.1	57.1	14.1	14.1	7.3	7.3	0.8	0.8
	2010	784	100	87.0	91.7	75.6	61.6	61.6	11.1	11.1	7.1	7.1	0.8	0.8
NORTH WEST CANCER INTELLIGENCE SERVICE	2008	797	100	74.5	91.6	83.7	52.7	52.7	7.4	7.4	5.7	5.7	0.1	0.1
	2009	897	100	77.8	93.7	87.5	56.4	56.4	11.5	11.5	7.8	7.8	0.8	0.8
	2010	978	100	73.7	48.4	22.3	49.1	49.1	11.3	11.3	6.9	6.9	0.3	0.3
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2008	1,013	100	85.4	99.8	67.8	99.8	63.8	99.8	9.3	99.8	5.8	99.8	0.4
	2009	984	100	86.1	99.8	58.7	99.8	62.0	99.8	12.9	99.8	8.8	99.8	0.8
	2010	952	100	81.7	99.8	86.1	99.8	62.2	99.8	9.9	99.8	6.7	99.8	0.4
OXFORD CANCER INTELLIGENCE UNIT	2008	319	100	79.0	95.9	79.6	95.9	64.9	95.9	5.3	95.9	9.4	95.9	0.6
	2009	340	100	65.3	98.8	83.8	98.8	61.5	98.8	10.0	98.8	7.4	98.8	0.3
	2010	322	100	74.2	97.2	81.7	97.2	64.0	97.2	12.1	97.2	5.6	97.2	0.0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2008	1,084	100	77.6	97.7	85.4	97.7	62.2	97.7	6.6	97.7	4.6	97.7	0.4
	2009	1,038	100	82.5	99.5	86.4	99.5	59.3	99.5	9.4	99.5	7.7	99.5	0.5
	2010	1,066	100	78.9	99.3	83.6	99.3	59.2	99.3	11.6	99.3	7.8	99.3	0.7
THAMES CANCER REGISTRY	2008	1,177	100	81.3	99.7	75.5	99.7	65.4	99.7	8.3	99.7	4.8	99.7	1.4
	2009	1,207	100	78.8	99.9	45.5	99.9	63.6	99.9	11.9	99.9	4.9	99.9	0.3
	2010	1,265	100	78.4	99.9	26.2	99.9	74.0	99.9	10.1	99.9	6.6	99.9	0.3
TRENT CANCER REGISTRY	2008	744	100	81.3	97.2	84.0	36.8	36.8	7.4	7.4	2.6	2.6	0.3	0.3
	2009	718	100	79.9	93.7	84.7	45.3	45.3	8.1	8.1	3.2	3.2	0.1	0.1
	2010	733	100	80.4	94.8	87.3	39.3	39.3	4.1	4.1	3.0	3.0	0.7	0.7
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2008	619	100	84.7	87.4	87.4	77.1	65.9	18.9	3.4	19.1	7.4	14.1	2.9
	2009	685	100	87.0	80.9	80.9	73.0	62.8	20.3	6.1	21.0	10.4	18.1	7.7
	2010	646	100	82.7	85.1	85.1	70.0	61.3	16.6	6.2	15.8	6.5	16.7	8.1

Source: South West Public Health Observatory from NCDR

The NCIN is a UK-wide initiative, working to drive improvements in standards of cancer care and clinical outcomes by improving and using the information collected about cancer patients for analysis, publication and research.

Sitting within the National Cancer Research Institute (NCRI), the NCIN works closely with cancer services in England, Scotland, Wales and Northern Ireland. In England, the NCIN is part of the National Cancer Programme.

Our aims and objectives cover five core areas to improve the quality and availability of cancer data from its collection to use:

- Promoting efficient and effective data collection throughout the cancer journey
- Providing a common national repository for cancer datasets
- Producing expert analyses, to monitor patterns of cancer care
- Exploiting information to drive improvements in cancer care and clinical outcomes
- Enabling use of cancer information to support audit and research programmes

Further information

Contact details:

South West Cancer Intelligence Service
South West Public Health Observatory
Grosvenor House
149 Whiteladies Road
Clifton, Bristol
BS8 2RA
T: 0117 970 6474
F: 0117 970 6481
E: info@swpho.nhs.uk

About the South West Public Health Observatory

The South West Public Health Observatory (SWPHO) is part of a network of regional public health observatories in the UK (funded by the Department of Health) and Ireland. These were established in 2000 as outlined in the Government White Paper *Saving lives: our healthier nation*. Key tasks include: monitoring health and disease trends; identifying gaps in health information; advising on methods for health and health impact assessment; drawing together information from different sources; and carrying out projects on particular health issues.

The SWPHO incorporates the National Drug Treatment Monitoring System South West (NDTMS-SW), and in April 2005 merged with the South West Cancer Intelligence Service (SWCIS). The SWPHO works in partnership with a wide range of agencies, networks and organisations regionally and nationally to provide 'a seamless public health intelligence service' for the South West.

For more information about the SWPHO and its partner organisations, please visit www.swpho.nhs.uk