

# Data Quality Report

## 2012

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 bladder 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, 2007-2009, 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.

Additional fields were extracted for bladder 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 2007-2009 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 (1a, 1b, 2, 3, 4)	2-4 (2a, 2b, 3a, 3b, 4)	1-4	1-4 (1a, 1b, 2a, 2b, 3a, 3b, 3c, 4)	1-4	1-4	1-4 (1, 2a, 2b, 3a, 3b, 4a, 4b)
	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 (0, 1a, 1b, 2, 3, 4)	1-4 (1a, 1b, 1c, 2a, 2b, 3a, 3b, 4)	1-4	1-4 (1a, 1b, 2a, 2b, 3a, 3b, 3c, 4)	1-4	1-4	1-4 (1, 2a, 2b, 3a, 3b, 4a, 4b)
	N	0-3	0-1	0-3	0-2	0-3	0-3	0-3
	M	0-1	0-1	0-1 (0, 1a, 1b)	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, behaviour code /3						
	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, Thames Cancer Registry and Trent Cancer Registry (Trent), throughout the period studied, had no valid integrated TNM stage.
- The Eastern Cancer Registration & Information Centre (ECRIC) have achieved in excess of 70% overall stages for all but penile and testicular cancer.
- The West Midlands Cancer Intelligence Unit (WMCIU) tend to be the only ones who are consistent across all 3 stages, however still achieve a considerably low percent overall with each cancer.
- ECRIC recording of specific ethnic group ('unknowns' excluded) appears to be worse than all other registries. However the recording of all ethnic groups for bladder cancer is well recorded, with 100% completeness across all registries.
- Histology for bladder cancer is well recorded with the lowest value being 75%.
- The hormone field is fully complete except for WMCIU and Trent, however the 'yes' recording of hormone therapy is very low, which can be expected as hormone therapy is not generally used for bladder cancer treatment.

**Table 2: Valid staging information for penile cancer (C60) in English Registry Areas, 2007-2009**

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	41	0	0	0	0	0	0	0	0	80.5	29.3	2.4	73.2
	2008	53	0	0	0	0	0	0	0	0	77.4	26.4	1.9	67.9
	2009	43	0	0	0	0	0	0	0	0	86.1	0	0	86.1
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	62	0	0	0	0	0	0	0	0	0	0	0	0
	2008	62	0	0	0	0	0	0	0	0	0	0	0	0
	2009	79	3.8	0	0	3.8	0	0	0	0	1.3	1.3	1.3	1.3
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	41	0	0	0	0	0	0	0	0	0	0	0	0
	2008	51	2.0	0	0	0	0	0	0	0	0	0	0	0
	2009	57	3.5	0	0	0	0	0	0	0	0	0	0	0
OXFORD CANCER INTELLIGENCE UNIT	2007	23	0	4.4	0	0	0	0	0	0	0	0	0	0
	2008	19	10.5	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
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	56	53.6	7.1	0	0	0	0	0	0	0	0	0	0
	2008	64	32.8	0	1.6	1.6	0	0	0	0	0	0	0	0
	2009	70	32.9	0	1.4	1.4	5.7	0	4.3	4.3	0	0	0	0
THAMES CANCER REGISTRY	2007	74	64.9	4.1	0	0	8.1	0	0	0	0	0	0	0
	2008	59	71.2	3.4	0	0	1.7	0	0	0	0	0	0	0
	2009	59	84.8	0	0	0	1.7	0	0	0	0	0	0	0
TRENT CANCER REGISTRY	2007	44	0	0	0	0	0	0	0	0	0	0	0	0
	2008	40	0	0	0	0	0	0	0	0	0	0	0	0
	2009	40	0	0	0	0	0	0	0	0	0	0	0	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	50	68.0	10.0	8.0	2.0	4.0	2.0	4.0	0	68.0	10.0	12.0	6.0
	2008	47	66.0	17.0	0	0	0	0	0	0	66.0	17.0	0	0
	2009	52	65.4	5.8	5.8	3.9	3.9	1.9	3.9	0	65.4	7.7	7.7	3.9

Source: South West Public Health Observatory from NCDR

**Table 3: Valid staging information for prostate cancer (C61) in English Registry Areas, 2007-2009**

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	3775	0	0	0	0	0	0	0	0	85.5	9.4	27.7	95.7
	2008	4030	0	0	0	0	0	0	0	0	87.7	11.0	30.9	95.1
	2009	4321	0	0	0	0	0	0	0	0	88.1	0	0	94.6
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	4014	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.2
	2008	3861	0.0	0	0	0.0	0	0	0	0	0.2	0.2	0.2	0.2
	2009	4364	0.2	0.1	0.3	0.3	0	0	0	0	3.0	2.9	3.1	3.1
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	4189	0	0	0	0	0	0	0	0	0	0	0	0.4
	2008	4212	0.1	0.0	0	0	0	0	0	0	0	0	0	0.1
	2009	4468	0.7	0.4	0.0	0	0	0	0	0	0	0	0.0	0.8
OXFORD CANCER INTELLIGENCE UNIT	2007	1871	0.2	1.2	2.6	2.4	0.1	0	0.1	0.1	0	0	0	0
	2008	1814	1.2	0.9	0.7	0.7	0	0	0	0	0	0	0	0
	2009	1959	5.8	2.9	0.1	0.1	0.3	0	0	0	0	0	0	0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	5323	6.5	1.5	1.0	1.0	4.0	0.3	2.8	2.6	0	0	0	0
	2008	5107	6.2	1.9	1.0	1.0	2.5	0.2	3.7	3.5	0	0	0	0
	2009	5380	13.5	2.2	1.5	1.1	29.8	5.0	10.7	7.0	0	0	0	0
THAMES CANCER REGISTRY	2007	6390	10.6	2.8	0.5	0	24.1	6.9	4.6	0	0	0	0	0
	2008	6406	11.7	2.7	0.6	0	25.1	7.1	4.4	0	0	0	0	0
	2009	7168	12.9	3.1	0.5	0	28.7	9.4	5.9	0	0	0	0	0
TRENT CANCER REGISTRY	2007	3083	0	0	0	0	0	0	0	0	0	0	0	0
	2008	3051	0	0	0	0	0	0	0	0	0	0	0	0
	2009	3383	0	0	0	0	0	0	0	0	0	0	0	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	3418	15.4	9.5	0.9	1.6	27.9	10.9	17.9	16.5	40.0	19.8	18.4	17.9
	2008	3585	18.4	10.0	1.6	2.3	26.6	11.0	18.1	15.5	41.6	20.4	19.0	17.1
	2009	3750	18.0	10.1	1.2	2.1	28.7	12.5	18.1	16.3	43.0	21.7	18.9	17.9

Source: South West Public Health Observatory from NCDR

Table 4: Valid staging information for testicular cancer (C62) in English Registry Areas, 2007-2009

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	183	0	0	0	0	0	0	0	0	57.4	9.8	8.2	93.4
	2008	167	0	0	0	0	0	0	0	0	56.9	13.8	8.4	85.0
	2009	204	0	0	0	0	0	0	0	0	67.7	0	0	68.1
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	196	0	0	0	0	0	0	0	0	0.5	0	0	1.0
	2008	229	0	0	0	0	0	0	0	0	0	0	0	0
	2009	253	0.8	0	0.4	1.2	0	0	0	0	0.4	0.4	0.4	0.4
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	219	0	0	0	0	0	0	0	0	0	0	0	16.0
	2008	250	0	0	0	0	0	0	0	0	0	0	0	15.2
	2009	255	0.8	0	0	0	0	0	0	0	0	0	0	16.5
OXFORD CANCER INTELLIGENCE UNIT	2007	119	0	1.7	1.7	1.7	0	0	0	0	0	0	0	0
	2008	107	8.4	0.9	0.9	0.9	0	0	0	0	0	0	0	0
	2009	105	65.7	0	0	0	0	0	0	0	0	0	0	0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	270	44.4	1.1	2.2	3.0	0.4	0	0.7	0.7	0	0	0	0
	2008	322	51.9	1.9	3.4	3.4	0	0	1.2	1.2	0	0	0	0
	2009	247	55.5	2.0	6.5	5.7	8.1	5.7	8.9	4.1	0	0	0	0
THAMES CANCER REGISTRY	2007	384	45.3	2.3	2.1	0	5.7	1.0	0.5	0	0	0	0	0
	2008	407	60.9	1.7	0.5	0	4.7	2.5	1.7	0	0	0	0	0
	2009	404	67.1	3.5	1.0	0	3.2	0.5	0.3	0	0	0	0	0
TRENT CANCER REGISTRY	2007	144	0	0	0	0	0	0	0	0	0	0	0	0
	2008	179	0	0	0	0	0	0	0	0	0	0	0	0
	2009	177	0	0	0	0	0	0	0	0	0	0	0	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	218	91.3	3.2	4.6	23.4	1.8	10.6	31.7	34.9	91.3	13.3	33.5	61.0
	2008	181	92.8	7.2	8.8	30.4	7.2	19.3	30.9	33.7	92.8	26.0	37.6	70.7
	2009	209	92.8	6.2	8.6	38.8	8.6	13.4	27.8	33.0	92.8	19.1	32.5	73.2

Source: South West Public Health Observatory from NCDR

Table 5: Valid staging information for kidney cancer (C64) in English Registry Areas, 2007-2009

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	625	0	0	0	0	0	0	0	0	75.5	17.0	33.6	85.0
	2008	727	0	0	0	0	0	0	0	80.9	21.9	34.4	90.5	
	2009	719	0	0	0	0	0	0	0	82.5	0	0	90.1	
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	723	0	0	0	0	0	0	0	0	0	0	0	0.4
	2008	832	0.2	0.2	0.1	0.2	0	0	0	0	0.4	0.4	0.4	0.4
	2009	897	1.3	0.6	1.0	1.7	0	0	0	0	1.8	1.7	2.6	2.6
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	979	0	0	0	0	0	0	0	0	0	0	0	1.6
	2008	1012	0	0	0	0	0	0	0	0	0	0	0	0.7
	2009	972	1.9	0.2	0.2	0.1	0	0	0	0	0	0	0.2	1.5
OXFORD CANCER INTELLIGENCE UNIT	2007	279	0.7	9.0	15.4	15.1	0	0	0	0	0	0	0	0
	2008	309	3.2	2.6	4.2	4.2	2.3	0.7	1.0	0.7	0	0	0	0
	2009	337	47.2	8.3	3.0	3.0	0	0	0.3	0.3	0	0	0	0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	1058	42.3	9.9	7.1	7.3	4.3	2.9	6.0	4.4	0	0	0	0
	2008	1058	48.9	9.5	6.9	6.7	2.2	2.2	6.9	5.6	0	0	0	0
	2009	1027	47.2	9.8	9.6	9.0	6.1	5.2	21.9	18.2	0	0	0	0
THAMES CANCER REGISTRY	2007	1160	39.9	6.6	2.3	0	5.7	2.8	1.9	0	0	0	0	0
	2008	1184	48.9	9.4	1.2	0	7.4	5.6	3.6	0	0	0	0	0
	2009	1240	46.5	8.4	1.6	0	8.9	6.5	4.9	0	0	0	0	0
TRENT CANCER REGISTRY	2007	699	0	0	0	0	0	0	0	0	0	0	0	0
	2008	748	0	0	0	0	0	0	0	0	0	0	0	0
	2009	698	0	0	0	0	0	0	0	0	0	0	0	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	641	61.8	16.7	10.0	11.7	6.6	2.8	20.1	18.9	65.2	19.0	24.5	25.0
	2008	619	65.1	15.0	10.0	10.5	8.7	5.3	23.8	21.2	69.0	19.2	28.0	26.5
	2009	673	61.2	13.2	9.8	11.0	9.8	6.4	24.8	23.0	66.4	19.2	29.9	29.9

Source: South West Public Health Observatory from NCDR

Table 6: Valid staging information for cancer of the renal pelvis (C65) in English Registry Areas, 2007-2009

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	59	0	0	0	0	0	0	0	0	67.8	15.3	22.0	76.3
	2008	82	0	0	0	0	0	0	0	0	82.9	19.5	15.9	86.6
	2009	74	0	0	0	0	0	0	0	0	74.3	0	0	85.1
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	53	0	0	0	0	0	0	0	0	0	0	0	0
	2008	50	0	0	0	0	0	0	0	0	0	0	0	0
	2009	53	0	0	0	0	0	0	0	0	1.9	1.9	1.9	1.9
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	107	0	0	0	0	0	0	0	0	0	0	0	0
	2008	101	0	0	0	0	0	0	0	0	0	0	0	0
	2009	117	0.9	0	0	0	0	0	0	0	0	0	0	2.6
OXFORD CANCER INTELLIGENCE UNIT	2007	32	0	15.6	3.1	3.1	0	0	0	0	0	0	0	0
	2008	30	10.0	10.0	3.3	3.3	0	0	0	0	0	0	0	0
	2009	38	63.2	13.2	0	0	0	0	0	0	0	0	0	0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	39	82.1	20.5	2.6	2.6	0	2.6	5.1	5.1	0	0	0	0
	2008	61	60.7	14.8	3.3	3.3	1.6	0	3.3	3.3	0	0	0	0
	2009	72	75.0	23.6	6.9	5.6	4.2	5.6	11.1	9.7	0	0	0	0
THAMES CANCER REGISTRY	2007	79	60.8	13.9	0	0	2.5	1.3	0	0	0	0	0	0
	2008	62	71.0	16.1	0	0	1.6	1.6	0	0	0	0	0	0
	2009	80	61.3	18.8	3.8	0	8.8	7.5	3.8	0	0	0	0	0
TRENT CANCER REGISTRY	2007	29	0	0	0	0	0	0	0	0	0	0	0	0
	2008	38	0	0	0	0	0	0	0	0	0	0	0	0
	2009	37	0	0	0	0	0	0	0	0	0	0	0	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	50	70.0	16.0	2.0	0	2.0	2.0	2.0	0	72.0	18.0	4.0	0
	2008	60	78.3	20.0	5.0	0	0	0	0	0	78.3	20.0	5.0	0
	2009	62	77.4	33.9	4.8	0	9.7	4.8	4.8	0	82.3	37.1	9.7	0

Source: South West Public Health Observatory from NCDR



**Table 7: Valid staging information for cancer of the ureter (C66) in English Registry Areas, 2007-2009**

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	41	0	0	0	0	0	0	0	0	82.9	17.1	17.1	87.8
	2008	40	0	0	0	0	0	0	0	82.5	20.0	10.0	87.5	
	2009	53	0	0	0	0	0	0	0	77.4	0	0	92.5	
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	49	0	0	0	0	0	0	0	0	0	0	4.1	
	2008	48	0	0	0	0	0	0	0	0	0	0	0	
	2009	49	2.0	0	0	2.0	0	0	2.0	2.0	2.0	2.0	2.0	
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	63	0	0	0	0	0	0	0	0	0	0	0	
	2008	88	0	0	0	0	0	0	0	0	0	0	0	
	2009	76	4.0	0	0	0	0	0	0	0	0	0	1.3	
OXFORD CANCER INTELLIGENCE UNIT	2007	13	0	7.7	7.7	7.7	0	0	0	0	0	0	0	
	2008	22	4.6	13.6	4.6	4.6	0	0	0	0	0	0	0	
	2009	23	52.2	13.0	0	0	0	0	0	0	0	0	0	
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	61	60.7	18.0	0	0	3.3	3.3	8.2	8.2	0	0	0	
	2008	71	60.6	12.7	1.4	1.4	0	2.8	1.4	1.4	0	0	0	
	2009	74	62.2	13.5	1.4	1.4	5.4	5.4	18.9	13.5	0	0	0	
THAMES CANCER REGISTRY	2007	61	60.7	8.2	1.6	0	3.3	1.6	1.6	0	0	0	0	
	2008	53	64.2	3.8	0	0	5.7	1.9	0	0	0	0	0	
	2009	66	60.6	10.6	3.0	0	3.0	0	0	0	0	0	0	
TRENT CANCER REGISTRY	2007	40	0	0	0	0	0	0	0	0	0	0	0	
	2008	41	0	0	0	0	0	0	0	0	0	0	0	
	2009	53	0	0	0	0	0	0	0	0	0	0	0	
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	55	65.5	10.9	0	1.8	1.8	0	0	0	67.3	10.9	0	1.8
	2008	42	81.0	7.1	0	0	0	0	0	0	81.0	7.1	0	0
	2009	41	70.7	17.1	4.9	0	9.8	7.3	4.9	0	75.6	22.0	9.8	0

Source: South West Public Health Observatory from NCDR

Table 8: Valid staging information for bladder cancer (C67) in English Registry Areas, 2007-2009

Cancer Registry	Year	Cases	Valid Pathological Stage				Valid Clinical Stage				Integrated Stage			
			T	N	M	TNM	T	N	M	TNM	T	N	M	TNM
EASTERN CANCER REGISTRATION & INFORMATION CENTRE (ECRIC)	2007	958	0	0	0	0	0	0	0	0	84.2	14.2	11.3	90.1
	2008	999	0	0	0	0	0	0	0	0	85.2	13.0	11.8	90.1
	2009	1009	0	0	0	0	0	0	0	0	88.8	0	0	92.3
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	1285	0.5	0	0	0.5	0.1	0.1	0.1	0.2	1.3	0.5	0.4	2.8
	2008	1447	0.4	0.1	0.1	0.4	0	0	0	0	0.4	0.4	0.4	0.4
	2009	1374	2.0	0.2	0.2	2.0	0	0	0	0	1.9	1.8	1.8	1.9
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	1304	0	0	0	0	0	0	0	0	0	0	0	0.3
	2008	1254	0.2	0	0	0	0	0	0	0	0	0	0	0.2
	2009	1190	2.6	1.2	0	0.1	0	0	0	0	0	0	0	0.3
OXFORD CANCER INTELLIGENCE UNIT	2007	408	1.7	4.7	3.9	2.7	0	0	0	0	0	0	0	0
	2008	449	5.6	5.8	1.6	0.7	0.2	0.2	0	0	0	0	0	0
	2009	502	49.6	6.2	0	0	0	0	0	0	0	0	0	0
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	1283	73.4	7.5	1.3	1.4	1.6	0.6	1.3	1.0	0	0	0	0
	2008	1296	75.5	6.4	1.4	1.2	0.9	0.4	1.3	1.1	0	0	0	0
	2009	1266	77.4	6.5	2.2	1.3	10.7	3.9	10.8	7.9	0	0	0	0
THAMES CANCER REGISTRY	2007	1809	61.9	5.9	1.8	0	8.3	3.4	2.0	0	0	0	0	0
	2008	1731	69.2	5.5	0.9	0	8.0	3.2	1.7	0	0	0	0	0
	2009	1659	68.1	7.4	1.4	0	8.1	3.0	2.0	0	0	0	0	0
TRENT CANCER REGISTRY	2007	969	0	0	0	0	0	0	0	0	0	0	0	0
	2008	941	0	0	0	0	0	0	0	0	0	0	0	0
	2009	909	0	0	0	0	0	0	0	0	0	0	0	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	852	86.4	9.6	2.8	3.1	14.9	7.4	11.9	8.3	87.8	16.1	13.5	12.0
	2008	790	87.3	9.0	4.3	3.9	16.5	7.2	9.8	7.1	88.4	14.9	12.5	11.3
	2009	866	86.6	5.2	1.9	1.7	13.7	7.5	12.5	10.4	87.8	12.6	13.9	12.5

Source: South West Public Health Observatory from NCDR

**Table 9: Valid histological, ethnicity and treatment information for bladder cancer (C67) in English Registry Areas, 2007-2009**

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)	2007	958	100	92.7	100	59.2	100	85.3	100	24.7	100	17.0	100	0.3
	2008	999	100	92.2	100	54.8	100	83.0	100	29.8	100	15.7	100	0.5
	2009	1009	100	94.2	100	75.1	100	88.7	100	30.5	100	14.6	100	0.7
NORTH WEST CANCER INTELLIGENCE SERVICE	2007	1285	100	85.7	100	93.9	100	75.5	100	18.4	100	15.7	100	0.2
	2008	1447	100	75.1	100	93.6	100	70.2	100	10.2	100	8.4	100	0.4
	2009	1374	100	75.0	100	92.5	100	81.2	100	26.4	100	13.3	100	0.4
NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE	2007	1304	100	92.6	100	56.9	100	84.4	100	41.9	100	17.3	100	0.1
	2008	1254	99.1	92.1	100	64.0	100	86.6	100	44.3	100	19.0	100	0.2
	2009	1190	99.9	91.5	100	52.4	100	87.7	100	43.5	100	20.3	100	0.3
OXFORD CANCER INTELLIGENCE UNIT	2007	408	100	93.6	100	92.4	100	80.6	100	17.2	100	17.4	100	0
	2008	449	100	84.2	100	89.3	100	80.0	100	34.3	100	13.6	100	0.2
	2009	502	100	79.5	100	90.2	100	75.1	100	41.2	100	7.4	100	1.4
SOUTH WEST CANCER INTELLIGENCE SERVICE	2007	1283	100	90.0	100	91.0	100	82.2	100	26.7	100	6.9	100	0.3
	2008	1296	100	89.0	100	92.7	100	76.6	100	29.0	100	9.3	100	0.2
	2009	1266	100	90.1	100	91.6	100	80.7	100	32.0	100	16.6	100	0.5
THAMES CANCER REGISTRY	2007	1809	100	90.2	100	89.6	100	83.4	100	21.8	100	10.8	100	1.1
	2008	1731	100	88.7	100	90.1	100	78.9	100	21.0	100	9.9	100	0.4
	2009	1659	100	83.2	100	91.6	100	73.8	100	21.0	100	10.9	100	0.7
TRENT CANCER REGISTRY	2007	969	100	89.9	100	94.4	86.0	81.5	39.6	31.7	14.6	2.5	13.6	1.1
	2008	941	100	88.5	100	93.0	87.9	82.7	51.3	43.4	14.2	1.5	12.7	0
	2009	909	100	90.7	100	94.6	88.5	84.5	50.1	41.8	19.9	8.8	14.5	0
WEST MIDLANDS CANCER INTELLIGENCE UNIT	2007	852	97.0	92.3	100	92.3	90.4	87.6	18.8	9.5	21.2	16.1	6.7	3.9
	2008	790	98.4	92.0	100	92.2	91.7	88.0	36.1	30.6	21.5	16.5	6.6	2.9
	2009	866	99.1	93.0	100	92.6	91.8	89.3	37.9	33.4	21.1	16.6	6.6	4.0

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

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## 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](http://www.swpho.nhs.uk)