

# Data Quality Report

## 2011

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).

The Urological SSCRG wished to ascertain 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 prostate tumour 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, 2006-2008, 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 prostate tumour 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 prostate cancer, a trans-urethral resection of the prostate (TURP) may 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 2006-2008 fields analysed**

|                    |          | Valid Entries  |                                     |                     |                                     |                       |                 |                                 |
|--------------------|----------|--|-------------------------------------|---------------------|-------------------------------------|-----------------------|-----------------|---------------------------------|
|                    | Field    | C60<br>(Penile)  | C61<br>(Prostate)                   | C62<br>(Testicular) | C64<br>(Kidney except renal pelvis) | C65<br>(Renal Pelvis) | C66<br>(Ureter) | C67<br>(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. A number of registries at certain times, or throughout the period studied, had no valid TNM stage or its components.
- For prostate cancer, penile cancer, cancer of the renal pelvis, cancer of the ureter and kidney cancer, there were no registries which achieved an overall TNM stage for 70% of registered cases.
- The West Midlands Cancer Intelligence Unit (WMCIU) achieved in excess of 70% overall stage for testicular and bladder cancer.
- Histology for prostate cancer is well recorded, with 100% completeness in all registries except WMCIU. However completeness at WMCIU is still very high. When looking at specific histology the percentage completeness is lower but still high. The lowest value is 82%.
- The recording of specific ethnic group ('unknowns' excluded) appears to be getting worse in more recent years. In some registries there are more unknown patient ethnicities than known.
- The surgery yes/no field is fully complete except for the Eastern Cancer Registration and Information Centre (ECRIC) and Trent Cancer Registry (Trent). The percentage of registrations with a 'yes' for surgery is much higher in Thames Cancer Registry (Thames), which may be due to counting of biopsy or some other examination as a surgical procedure.
- The chemotherapy field is also fully complete except for ECRIC and Trent. Overall the 'yes' recording of chemotherapy is very low, but this is expected as chemotherapy is not generally used for prostate cancer treatment.
- The percentage of registrations with a 'yes' for radiotherapy is generally consistent, except that it is very low in Trent. The true number of patients having radiotherapy is probably higher than that recorded, as registries rely on local trusts to provide radiotherapy information.

**Table 2: Valid staging information for prostate cancer (C61) in English Registry Areas, 2006-2008**

| 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           | 2006 | 3686  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 83.8             | 8.5  | 34.6 | 93.1 |
|  | 2007 | 3738  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 85.3             | 9.5  | 28.0 | 95.9 |
|  | 2008 | 3961  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 88.2             | 11.2 | 31.4 | 95.7 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 4255  | 9.7                      | 8.5  | 9.6  | 13.9 | 1.2                  | 0.9  | 1.4  | 0.1  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 3997  | 19.7                     | 14.5 | 14.7 | 8.6  | 1.5                  | 1.1  | 1.8  | 0.3  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 3807  | 17.8                     | 12.1 | 11.7 | 0.6  | 1.2                  | 1.0  | 1.5  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 4107  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.1  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 4166  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.3  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 4070  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 1704  | 0.1                      | 1.3  | 2.9  | 2.9  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1843  | 0.2                      | 1.2  | 2.6  | 2.4  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1748  | 1.3                      | 1.0  | 0.7  | 0.7  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 5233  | 8.7                      | 1.2  | 0.5  | 0.4  | 1.5                  | 0.2  | 2.6  | 2.5  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 5261  | 6.6                      | 1.6  | 1.0  | 1.0  | 3.9                  | 0.3  | 2.6  | 2.5  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 4974  | 6.3                      | 2.0  | 1.0  | 1.0  | 2.3                  | 0.2  | 3.1  | 3.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 5670  | 8.6                      | 1.8  | 0.2  | 0.0  | 22.1                 | 5.3  | 3.5  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 5881  | 11.0                     | 2.9  | 0.5  | 0.0  | 24.5                 | 6.6  | 4.4  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 5736  | 11.6                     | 2.7  | 0.6  | 0.0  | 26.0                 | 6.9  | 4.4  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 3054  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 3038  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 3013  | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 3609  | 14.8                     | 9.5  | 0.9  | 13.2 | 26.2                 | 10.8 | 17.5 | 24.7 | 38.8             | 19.9 | 18.0 | 35.7 |
|  | 2007 | 3401  | 15.4                     | 9.4  | 0.9  | 13.8 | 27.6                 | 10.7 | 17.4 | 26.5 | 39.8             | 19.6 | 17.9 | 36.9 |
|  | 2008 | 3526  | 18.6                     | 10.1 | 1.6  | 16.1 | 26.4                 | 11.0 | 17.4 | 25.3 | 41.6             | 20.5 | 18.2 | 37.9 |

Source: South West Public Health Observatory from NCDR

**Table 3: Valid histological, ethnicity and treatment information for prostate cancer (C61) in English Registry Areas, 2006-2008**

| Cancer Registry  | Year | Cases | Valid Histology |          | Valid Ethnicity |          | Surgery    |         | Chemotherapy |         | Radiotherapy |         | Hormone therapy |         |
|--|------|-------|-----------------|----------|-----------------|----------|------------|---------|--------------|---------|--------------|---------|-----------------|---------|
|  |      |       | All             | Specific | All             | Specific | Valid Flag | Y' Flag | Valid Flag   | Y' Flag | Valid Flag   | Y' Flag | Valid Flag      | Y' Flag |
| EASTERN CANCER REGISTRATION & INFORMATION CENTRE           | 2006 | 3686  | 100             | 87.8     | 98.8            | 65.1     | 20.9       | 20.9    | 0.3          | 0.3     | 14.7         | 14.7    | 44.4            | 44.4    |
|  | 2007 | 3738  | 100             | 89.3     | 97.2            | 38.4     | 21.2       | 21.2    | 1.3          | 1.3     | 15.9         | 15.9    | 49.0            | 49.0    |
|  | 2008 | 3961  | 100             | 86.8     | 97.5            | 37.1     | 17.1       | 17.1    | 0.6          | 0.6     | 13.0         | 13.0    | 51.1            | 51.1    |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 4255  | 100             | 89.4     | 81.5            | 67.7     | 100        | 21.7    | 100          | 2.3     | 100          | 33.3    | 100             | 33.7    |
|  | 2007 | 3997  | 100             | 90.6     | 81.4            | 71.6     | 100        | 24.0    | 100          | 2.3     | 100          | 31.3    | 100             | 37.3    |
|  | 2008 | 3807  | 100             | 86.0     | 75.6            | 67.8     | 100        | 22.1    | 100          | 1.9     | 100          | 11.4    | 100             | 22.4    |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 4107  | 100             | 90.6     | 100             | 38.3     | 100        | 24.6    | 100          | 1.3     | 100          | 19.1    | 100             | 52.6    |
|  | 2007 | 4166  | 100             | 89.7     | 100             | 47.5     | 100        | 25.6    | 100          | 0.7     | 100          | 18.7    | 100             | 53.2    |
|  | 2008 | 4070  | 100             | 91.6     | 100             | 55.1     | 100        | 26.0    | 100          | 1.4     | 100          | 17.7    | 100             | 52.0    |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 1704  | 100             | 89.3     | 100             | 63.0     | 100        | 23.8    | 100          | 4.2     | 100          | 19.6    | 100             | 30.7    |
|  | 2007 | 1843  | 100             | 92.6     | 100             | 59.4     | 100        | 25.7    | 100          | 2.4     | 100          | 18.6    | 100             | 25.9    |
|  | 2008 | 1748  | 100             | 90.9     | 100             | 48.7     | 100        | 24.3    | 100          | 3.8     | 100          | 18.5    | 100             | 28.6    |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 5233  | 100             | 84.8     | 100             | 70.9     | 100        | 20.8    | 100          | 1.7     | 100          | 9.3     | 100             | 33.1    |
|  | 2007 | 5261  | 100             | 87.5     | 100             | 66.6     | 100        | 19.6    | 100          | 2.4     | 100          | 8.0     | 100             | 34.6    |
|  | 2008 | 4974  | 100             | 89.7     | 100             | 65.5     | 100        | 21.1    | 100          | 3.7     | 100          | 11.0    | 100             | 34.1    |
| THAMES CANCER REGISTRY                                     | 2006 | 5670  | 100             | 85.4     | 100             | 68.4     | 100        | 80.2    | 100          | 1.4     | 100          | 15.1    | 100             | 31.9    |
|  | 2007 | 5881  | 100             | 87.7     | 100             | 66.8     | 100        | 80.1    | 100          | 1.2     | 100          | 14.3    | 100             | 30.1    |
|  | 2008 | 5736  | 100             | 89.8     | 100             | 63.7     | 100        | 80.4    | 100          | 1.6     | 100          | 12.9    | 100             | 30.8    |
| TRENT CANCER REGISTRY                                      | 2006 | 3054  | 100             | 84.4     | 100.0           | 84.9     | 31.5       | 15.9    | 14.5         | 0.9     | 18.0         | 5.0     | 21.3            | 12.8    |
|  | 2007 | 3038  | 100             | 82.9     | 99.2            | 78.1     | 37.9       | 22.4    | 17.8         | 2.9     | 18.6         | 4.4     | 22.8            | 13.1    |
|  | 2008 | 3013  | 100             | 82.6     | 97.8            | 67.1     | 38.6       | 24.7    | 15.9         | 3.2     | 15.5         | 3.3     | 22.2            | 13.2    |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 3609  | 94.5            | 89.0     | 61.1            | 61.1     | 100        | 21.3    | 100          | 0.5     | 100          | 15.8    | 100             | 30.0    |
|  | 2007 | 3401  | 96.5            | 89.7     | 59.4            | 59.4     | 100        | 21.1    | 100          | 0.2     | 100          | 14.8    | 100             | 25.8    |
|  | 2008 | 3526  | 98.7            | 92.5     | 54.6            | 54.6     | 100        | 22.6    | 100          | 0.7     | 100          | 12.0    | 100             | 23.3    |

Source: South West Public Health Observatory from NCDR

Table 4: Valid staging information for penile cancer (C60) in English Registry Areas, 2006-2008

| 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           | 2006 | 40    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 87.5             | 40.0 | 12.5 | 93   |
|  | 2007 | 41    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 80.5             | 29.3 | 2.4  | 73.2 |
|  | 2008 | 52    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 76.9             | 26.9 | 1.9  | 67.3 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 63    | 4.8                      | 4.8  | 4.8 | 30.2 | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 60    | 35.0                     | 8.3  | 6.7 | 35.0 | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 60    | 40.0                     | 6.7  | 3.3 | 10.0 | 0.0                  | 0.0 | 0.0 | 1.7 | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 60    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 41    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 49    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 15    | 0.0                      | 20.0 | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 22    | 0.0                      | 4.6  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 19    | 10.5                     | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 67    | 49.3                     | 4.5  | 0.0 | 1.5  | 1.5                  | 1.5 | 1.5 | 1.5 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 56    | 53.6                     | 7.1  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 64    | 32.8                     | 0.0  | 1.6 | 1.6  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 71    | 43.7                     | 7.0  | 0.0 | 0.0  | 4.2                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 67    | 61.2                     | 4.5  | 0.0 | 0.0  | 9.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 55    | 67.3                     | 3.6  | 0.0 | 0.0  | 1.8                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 51    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 44    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 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 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 59    | 61.0                     | 3.4  | 3.4 | 10.2 | 3.4                  | 3.4 | 1.7 | 0.0 | 61.0             | 6.8  | 5.1  | 11.9 |
|  | 2007 | 50    | 68.0                     | 10.0 | 8.0 | 10.0 | 4.0                  | 2.0 | 4.0 | 0.0 | 68.0             | 10.0 | 12.0 | 16.0 |
|  | 2008 | 46    | 67.4                     | 17.4 | 0.0 | 15.2 | 0.0                  | 0.0 | 0.0 | 0.0 | 67.4             | 17.4 | 0.0  | 15.2 |

Source: South West Public Health Observatory from NCDR

Table 5: Valid staging information for testicular cancer (C62) in English Registry Areas, 2006-2008

| 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           | 2006 | 183   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 40.4             | 7.7  | 2.7  | 95.1 |
|  | 2007 | 183   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 57.4             | 9.8  | 8.2  | 93.4 |
|  | 2008 | 165   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 57.0             | 13.9 | 8.5  | 86.1 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 233   | 0.4                      | 0.4 | 0.9 | 7.7  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 196   | 12.8                     | 5.1 | 3.1 | 14.3 | 0.5                  | 0.5  | 0.5  | 0.5  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 224   | 41.5                     | 2.2 | 2.2 | 2.7  | 0.5                  | 0.0  | 0.0  | 0.5  | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 222   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 2.7  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 218   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 3.7  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 247   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 0.4  | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 113   | 0.0                      | 0.0 | 3.5 | 3.5  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 116   | 0.0                      | 1.7 | 1.7 | 1.7  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 104   | 7.7                      | 1.0 | 1.0 | 1.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 284   | 33.8                     | 0.0 | 1.8 | 1.8  | 0.4                  | 0.7  | 1.4  | 1.1  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 269   | 44.6                     | 1.1 | 2.2 | 3.0  | 0.4                  | 0.0  | 0.7  | 0.7  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 319   | 51.7                     | 1.9 | 3.5 | 3.5  | 0.0                  | 0.0  | 1.3  | 1.3  | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 320   | 22.5                     | 0.9 | 0.3 | 0.0  | 1.9                  | 0.6  | 0.3  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 350   | 46.0                     | 2.6 | 2.3 | 0.0  | 5.1                  | 0.9  | 0.6  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 359   | 59.9                     | 1.4 | 0.6 | 0.0  | 4.2                  | 2.2  | 1.4  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 178   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 144   | 0.0                      | 0.0 | 0.0 | 0.0  | 0.0                  | 0.0  | 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  | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 200   | 90.0                     | 5.0 | 5.5 | 90.0 | 1.0                  | 16.5 | 34.5 | 39.0 | 90.0             | 20.5 | 38.0 | 95.5 |
|  | 2007 | 218   | 91.3                     | 3.2 | 4.6 | 92.7 | 1.8                  | 10.6 | 31.7 | 34.9 | 91.3             | 13.3 | 33.5 | 96.3 |
|  | 2008 | 182   | 92.9                     | 7.1 | 8.8 | 91.2 | 7.1                  | 19.2 | 30.8 | 33.0 | 92.9             | 25.8 | 37.4 | 95.6 |

Source: South West Public Health Observatory from NCDR

Table 6: Valid staging information for kidney cancer (C64) in English Registry Areas, 2006-2008

| 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           | 2006 | 657   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 79.0             | 20.6 | 38.5 | 87.7 |
|  | 2007 | 620   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 76.0             | 17.1 | 33.9 | 85.3 |
|  | 2008 | 710   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 81.0             | 22.4 | 35.2 | 91.0 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 727   | 2.9                      | 2.9  | 4.1  | 15.5 | 1.9                  | 1.8 | 4.3  | 0.4  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 715   | 19.3                     | 10.6 | 9.0  | 20.6 | 2.7                  | 2.1 | 3.9  | 0.8  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 810   | 35.6                     | 7.3  | 3.1  | 3.0  | 2.4                  | 1.9 | 3.1  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 897   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.3  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 963   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.7  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 940   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 292   | 0.7                      | 5.1  | 16.4 | 16.1 | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 277   | 0.4                      | 9.0  | 15.5 | 15.2 | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 301   | 3.0                      | 2.3  | 3.7  | 3.7  | 2.0                  | 0.7 | 0.3  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 1018  | 38.4                     | 6.7  | 4.2  | 4.5  | 1.9                  | 1.1 | 7.4  | 6.9  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1047  | 42.5                     | 9.9  | 7.5  | 7.6  | 4.3                  | 3.0 | 5.6  | 4.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1022  | 50.6                     | 9.7  | 7.0  | 6.8  | 2.0                  | 1.9 | 5.4  | 4.4  | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 975   | 26.5                     | 3.5  | 0.7  | 0.0  | 5.3                  | 2.6 | 1.9  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1073  | 41.0                     | 6.9  | 2.2  | 0.0  | 5.9                  | 2.7 | 2.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1066  | 50.3                     | 9.6  | 1.1  | 0.0  | 7.3                  | 5.4 | 3.4  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 655   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 692   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 737   | 0.0                      | 0.0  | 0.0  | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 566   | 59.0                     | 14.7 | 10.4 | 42.6 | 3.9                  | 4.4 | 20.1 | 18.6 | 61.1             | 17.8 | 24.4 | 53.2 |
|  | 2007 | 624   | 60.3                     | 16.7 | 9.6  | 41.0 | 6.7                  | 2.7 | 20.4 | 20.2 | 63.9             | 18.9 | 24.5 | 53.4 |
|  | 2008 | 580   | 65.2                     | 14.8 | 9.7  | 44.3 | 8.5                  | 5.2 | 23.5 | 22.6 | 69.1             | 18.8 | 27.6 | 58.5 |

Source: South West Public Health Observatory from NCDR



**Table 7: Valid staging information for cancer of renal pelvis (C65) in English Registry Areas, 2006-2008**

| 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           | 2006 | 52    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 75.0             | 15.4 | 25.0 | 90.4 |
|  | 2007 | 55    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 70.9             | 14.6 | 23.6 | 80.0 |
|  | 2008 | 81    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 82.7             | 14.8 | 16.1 | 86.4 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 61    | 4.9                      | 3.3  | 1.6 | 36.1 | 1.6                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 53    | 26.4                     | 9.4  | 3.8 | 28.3 | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 46    | 45.7                     | 2.2  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 114   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 105   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 98    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 38    | 0.0                      | 7.9  | 2.6 | 2.6  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 30    | 0.0                      | 16.7 | 3.3 | 3.3  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 29    | 10.3                     | 10.3 | 3.5 | 3.5  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 42    | 71.4                     | 11.9 | 0.0 | 0.0  | 4.8                  | 2.4 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 41    | 80.5                     | 19.5 | 2.4 | 2.4  | 0.0                  | 2.4 | 4.9 | 4.9 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 60    | 61.7                     | 11.7 | 3.3 | 3.3  | 1.7                  | 0.0 | 3.3 | 3.3 | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 60    | 31.7                     | 3.3  | 0.0 | 0.0  | 3.3                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 70    | 61.4                     | 11.4 | 0.0 | 0.0  | 2.9                  | 1.4 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 57    | 71.9                     | 12.3 | 0.0 | 0.0  | 1.8                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 32    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 29    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 39    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 48    | 75.0                     | 12.5 | 6.3 | 0.0  | 2.1                  | 0.0 | 2.1 | 2.1 | 77.1             | 12.5 | 8.3  | 2.1  |
|  | 2007 | 50    | 70.0                     | 12.0 | 2.0 | 0.0  | 2.0                  | 2.0 | 2.0 | 0.0 | 72.0             | 14.0 | 4.0  | 0.0  |
|  | 2008 | 59    | 79.7                     | 13.6 | 5.1 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 79.7             | 13.6 | 5.1  | 0.0  |

Source: South West Public Health Observatory from NCDR

Table 8: Valid staging information for ureter cancer (C66) in English Registry Areas, 2006-2008

| 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           | 2006 | 43    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 79.1             | 23.3 | 11.6 | 88.4 |
|  | 2007 | 40    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 82.5             | 15.0 | 17.5 | 87.5 |
|  | 2008 | 39    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 84.6             | 15.4 | 10.3 | 89.7 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 49    | 2.0                      | 2.0  | 0.0 | 36.7 | 2.0                  | 2.0 | 2.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 49    | 22.5                     | 8.2  | 4.1 | 22.5 | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 48    | 37.5                     | 4.2  | 2.1 | 0.0  | 4.2                  | 2.1 | 2.1 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 80    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 62    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 82    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 17    | 0.0                      | 5.9  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 13    | 0.0                      | 7.7  | 7.7 | 7.7  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 21    | 4.8                      | 14.3 | 4.8 | 4.8  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 62    | 50.0                     | 6.5  | 0.0 | 0.0  | 6.5                  | 3.2 | 4.8 | 1.6 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 61    | 60.7                     | 13.1 | 0.0 | 0.0  | 3.3                  | 3.3 | 8.2 | 8.2 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 70    | 61.4                     | 10.0 | 1.4 | 1.4  | 0.0                  | 1.4 | 1.4 | 1.4 | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 46    | 37.0                     | 2.2  | 0.0 | 0.0  | 2.2                  | 0.0 | 2.2 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 56    | 62.5                     | 7.1  | 1.8 | 0.0  | 3.6                  | 1.8 | 1.8 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 53    | 66.0                     | 3.8  | 0.0 | 0.0  | 5.7                  | 1.9 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 38    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 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  |
|  | 2008 | 41    | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 34    | 91.2                     | 8.8  | 0.0 | 0.0  | 2.9                  | 0.0 | 2.9 | 0.0 | 94.1             | 8.8  | 2.9  | 0.0  |
|  | 2007 | 54    | 64.8                     | 7.4  | 0.0 | 1.9  | 1.9                  | 0.0 | 0.0 | 0.0 | 66.7             | 7.4  | 0.0  | 1.9  |
|  | 2008 | 40    | 82.5                     | 7.5  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0 | 0.0 | 82.5             | 7.5  | 0.0  | 0.0  |

Source: South West Public Health Observatory from NCDR

Table 9: Valid staging information for bladder cancer (C67) in English Registry Areas, 2006-2008

| 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           | 2006 | 970   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 84.2             | 14.7 | 15.7 | 89.5 |
|  | 2007 | 954   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 84.2             | 14.3 | 11.3 | 90.0 |
|  | 2008 | 990   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 85.6             | 13.1 | 11.9 | 90.5 |
| NORTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 1287  | 8.7                      | 6.5  | 6.6 | 36.4 | 1.9                  | 1.6 | 1.9  | 0.2  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1272  | 29.9                     | 10.2 | 8.3 | 32.1 | 1.1                  | 0.9 | 0.9  | 0.2  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1434  | 37.7                     | 8.7  | 5.7 | 0.5  | 1.9                  | 1.4 | 1.5  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| NORTHERN & YORKSHIRE CANCER REGISTRY & INFORMATION SERVICE | 2006 | 1221  | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.2  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1303  | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.3  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1219  | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| OXFORD CANCER INTELLIGENCE UNIT                            | 2006 | 423   | 0.7                      | 2.6  | 1.0 | 0.7  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 407   | 1.0                      | 4.2  | 3.9 | 2.7  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 428   | 3.7                      | 5.6  | 1.6 | 0.7  | 0.2                  | 0.2 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| SOUTH WEST CANCER INTELLIGENCE SERVICE                     | 2006 | 1288  | 73.7                     | 6.1  | 0.8 | 0.9  | 1.6                  | 0.5 | 1.4  | 1.2  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1282  | 73.6                     | 7.5  | 1.3 | 1.4  | 1.6                  | 0.6 | 1.3  | 1.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1275  | 76.2                     | 6.4  | 1.4 | 1.3  | 0.8                  | 0.2 | 1.0  | 0.9  | 0.0              | 0.0  | 0.0  | 0.0  |
| THAMES CANCER REGISTRY                                     | 2006 | 1554  | 40.6                     | 3.5  | 1.2 | 0.0  | 8.3                  | 3.0 | 2.4  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 1657  | 63.5                     | 6.2  | 1.9 | 0.0  | 8.1                  | 3.2 | 1.9  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 1560  | 70.5                     | 5.3  | 1.0 | 0.0  | 7.4                  | 2.9 | 1.5  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| TRENT CANCER REGISTRY                                      | 2006 | 904   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2007 | 971   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
|  | 2008 | 973   | 0.0                      | 0.0  | 0.0 | 0.0  | 0.0                  | 0.0 | 0.0  | 0.0  | 0.0              | 0.0  | 0.0  | 0.0  |
| WEST MIDLANDS CANCER INTELLIGENCE UNIT                     | 2006 | 851   | 84.5                     | 7.4  | 2.4 | 81.2 | 9.9                  | 6.5 | 7.3  | 9.6  | 85.3             | 13.0 | 8.7  | 82.1 |
|  | 2007 | 854   | 86.3                     | 9.6  | 2.8 | 84.2 | 14.8                 | 7.4 | 11.8 | 14.3 | 87.6             | 16.0 | 13.5 | 86.5 |
|  | 2008 | 791   | 87.4                     | 9.2  | 4.2 | 85.5 | 16.2                 | 7.2 | 9.7  | 12.3 | 88.2             | 15.0 | 12.4 | 88.1 |

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

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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)