

**THE BRITISH ASSOCIATION OF
UROLOGICAL SURGEONS
Section of Oncology**

Analyses of Nephrectomies performed between

January 1st and December 31st 2014

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AUDIT RESULTS SUMMARY – Nephrectomy dataset (2014 data)

All the data presented here are a summary of the data extracted from the web-based database on 1st September 2015 and relate to operations performed during the whole of 2014. Once extracted the data was transferred to an AccessTM database for validation before being imported into TableauTM for generation of the analyses. The validation mainly comprised checks for duplicate and / or empty entries and invalid / inappropriate dates.

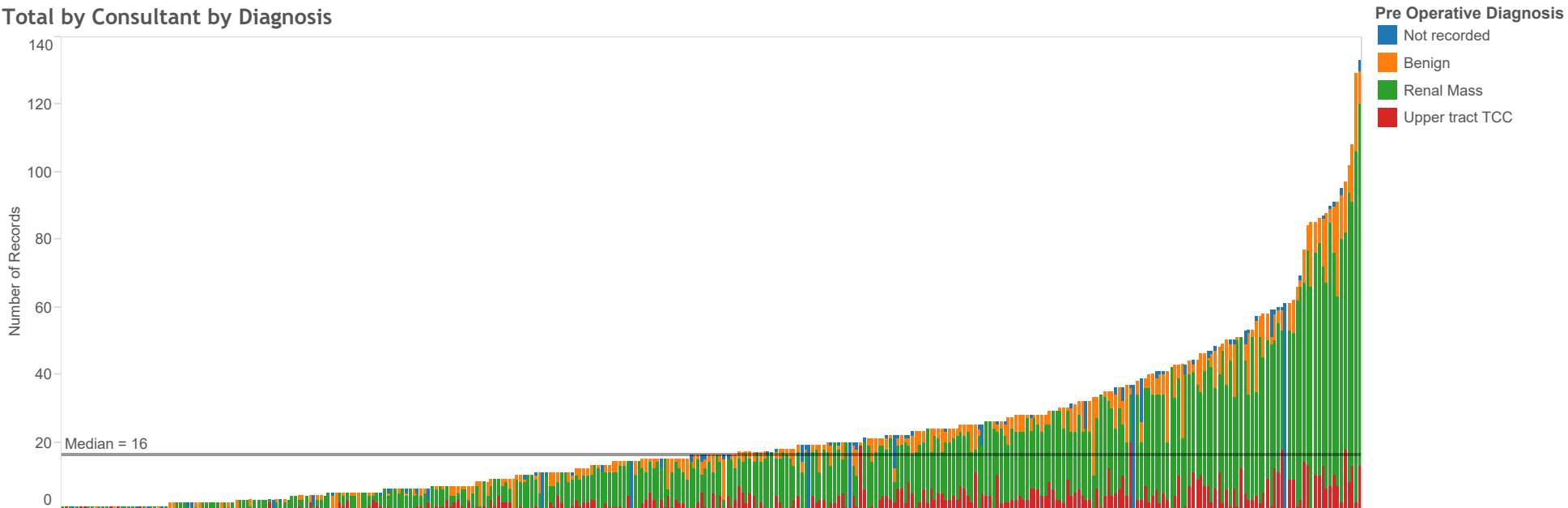
The data collection period was from 1 January 2014 to 31 December 2014.

- 7,703 procedures were recorded from 351 consultants at 140 sites, including 204 private patients from 54 consultants. (England only for 2014 was 7059)
- Median number of cases per consultant: 16 (range 1 – 133)
- Median number of cases per centre: 37.5 (range 1 - 286)
- 698 cases (9.9%) were bulk uploaded from other systems with the remaining data being entered on an individual patient basis.
- Hospital Episode Statistics (HES) for 2014 indicate that there were 8,168 nephrectomies undertaken by urologists in 2014, we captured data on 86% of the nephrectomies undertaken by urologists in England during 2014.

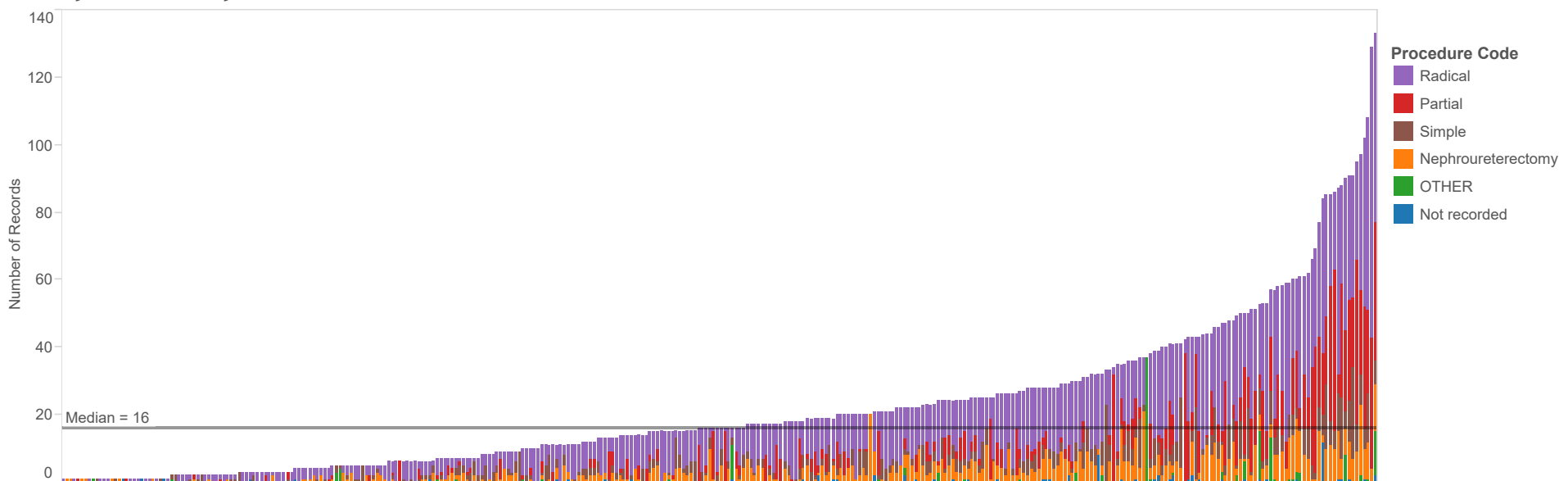
Total Returns for Procedures Performed Between 01/01/2014 and 31/12/2014

7703 procedures from 351 Consultants from 140 Centres in the UK - including 204 private cases from 54 consultants

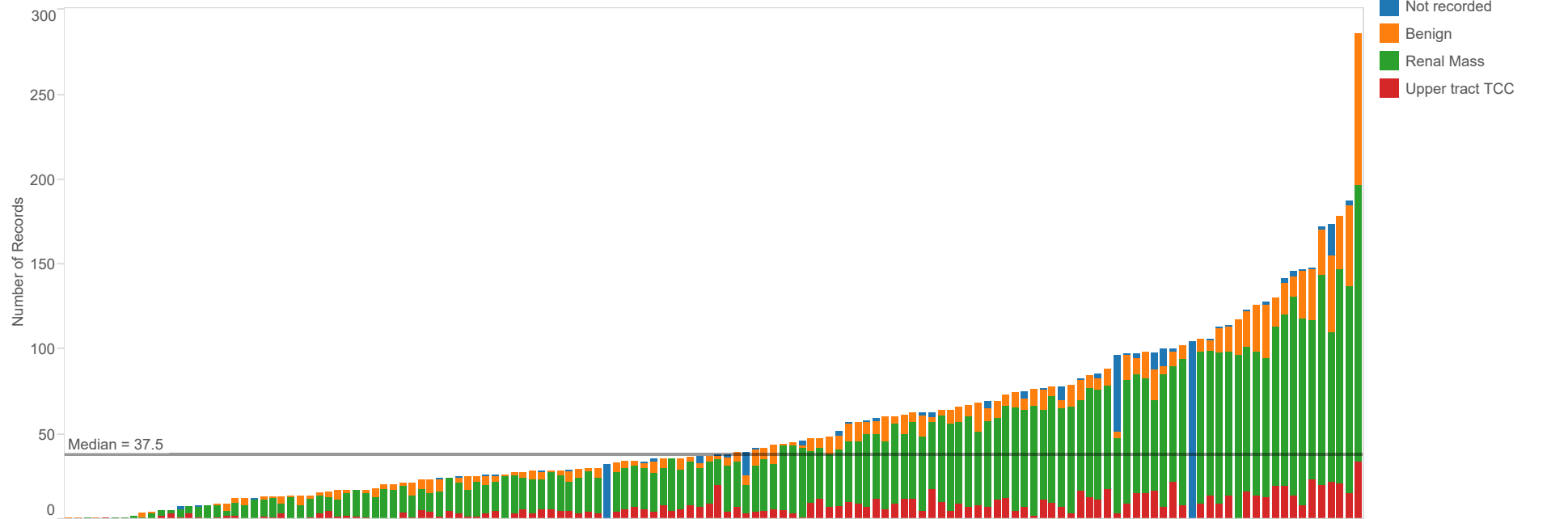
Total by Consultant by Diagnosis



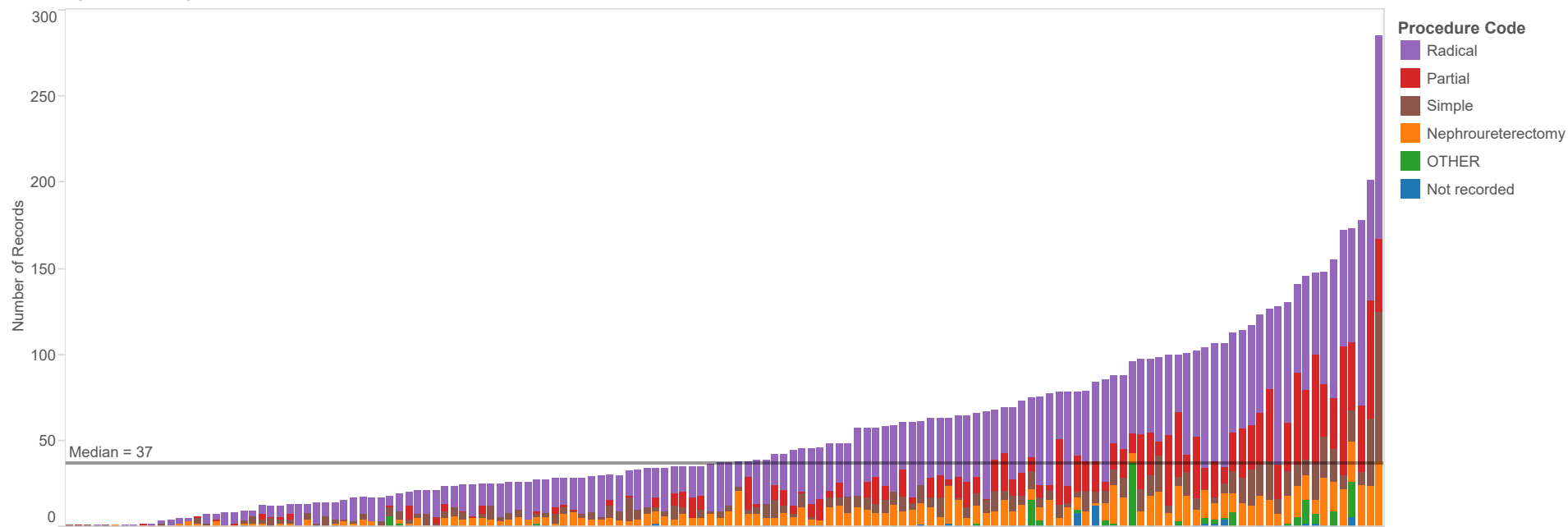
Total by Consultant by Procedure



Total by Centre by Diagnosis



Total by Centre by Procedure



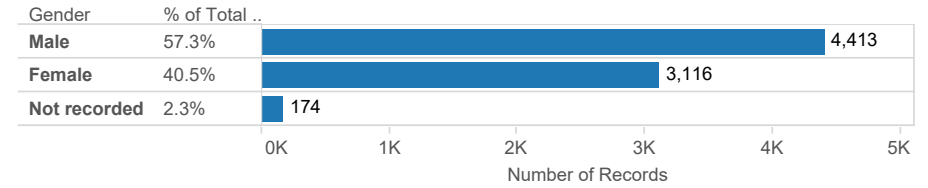
Pre-op Presentation

| Pre Op Pres.. | N | % Total |
|--------------------|--------------|---------------|
| Haematuria | 1,966 | 25.5% |
| Incidental | 3,022 | 39.2% |
| Other | 2,202 | 28.6% |
| Not recorded | 513 | 6.7% |
| Grand Total | 7,703 | 100.0% |

Age

| Agegroup (g.. | N | % Total |
|--------------------|--------------|---------------|
| <=40 | 538 | 7.0% |
| 41-50 | 951 | 12.4% |
| 51-60 | 1,595 | 20.9% |
| 61-70 | 2,234 | 29.2% |
| 71-80 | 1,856 | 24.3% |
| >80 | 470 | 6.1% |
| Grand Total | 7,644 | 100.0% |

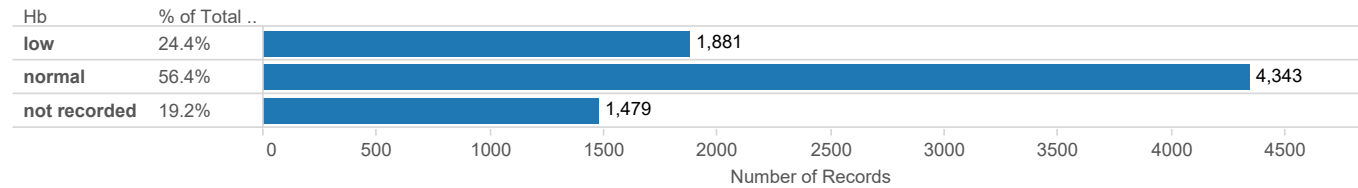
Gender



WHO Performance Status

| Who Perfor.. | N | % Total |
|--------------------|--------------|---------------|
| 0 | 3,453 | 44.8% |
| 1 | 2,101 | 27.3% |
| 2 | 563 | 7.3% |
| 3 | 96 | 1.2% |
| 4 | 18 | 0.2% |
| Not recorded | 1,472 | 19.1% |
| Grand Total | 7,703 | 100.0% |

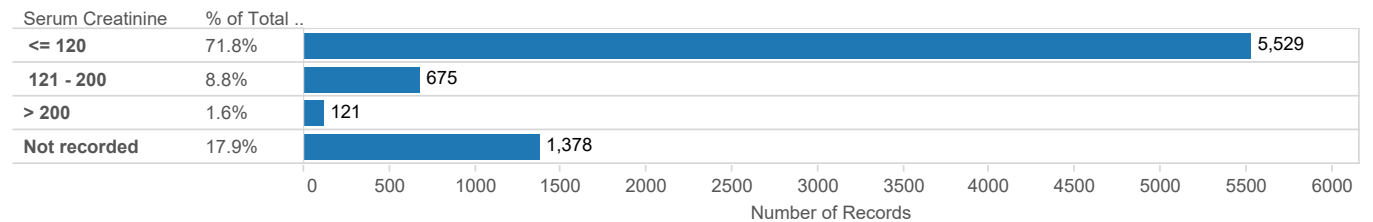
Hb at Operation



eGFR

| Egfr Normal | N | % Total |
|--------------------|--------------|----------------|
| Yes (>60) | 2,486 | 32.27% |
| No | 2,218 | 28.79% |
| Null | 2,999 | 38.93% |
| Grand Total | 7,703 | 100.00% |

Serum Creatinine



Diagnosis

| Pre Operative Di.. | N | % Total |
|--------------------|--------------|---------------|
| Renal Mass | 5,318 | 69.0% |
| Upper tract TCC | 953 | 12.4% |
| Benign | 1,124 | 14.6% |
| Not recorded | 308 | 4.0% |
| Grand Total | 7,703 | 100.0% |

Non-Malignant Diagnosis

| Non Malignant Diagnosis | N | % Total |
|------------------------------------|--------------|---------------|
| Being performed as a donor | 104 | 9.3% |
| Non-functioning kidney | 555 | 49.4% |
| Polycystic | 44 | 3.9% |
| Pyelonephritis | 97 | 8.6% |
| Stone disease | 144 | 12.8% |
| Xanthogranulomatous pyelonephritis | 6 | 0.5% |
| Other | 118 | 10.5% |
| Null | 56 | 5.0% |
| Grand Total | 1,124 | 100.0% |

Post-Op Final Histological Diagnosis

| Pre Operative Diagnosis (gr.. | FinalHistologicalDiagnosis | N | % Total |
|-------------------------------|----------------------------|--------------------------|--------------|
| Renal Mass | Clear cell renal cell ca | 3,311 | 43.0% |
| | TCC | 50 | 0.6% |
| | Angiomyolipoma | 51 | 0.7% |
| | Chromophobe | 228 | 3.0% |
| | Collecting duct | 5 | 0.1% |
| | Other Cancer | 50 | 0.6% |
| | Papillary | 425 | 5.5% |
| | Sarcoma | 18 | 0.2% |
| | Oncocytoma | 290 | 3.8% |
| | Other benign | 116 | 1.5% |
| | Not recorded | 774 | 10.0% |
| Upper tract TCC | Clear cell renal cell ca | 28 | 0.4% |
| | TCC | 770 | 10.0% |
| | Angiomyolipoma | 1 | 0.0% |
| | Other Cancer | 17 | 0.2% |
| | Papillary | 9 | 0.1% |
| | Sarcoma | 1 | 0.0% |
| | Other benign | 20 | 0.3% |
| | Not recorded | 107 | 1.4% |
| Benign | Clear cell renal cell ca | 5 | 0.1% |
| | TCC | 6 | 0.1% |
| | Angiomyolipoma | 21 | 0.3% |
| | Chromophobe | 1 | 0.0% |
| | Papillary | 5 | 0.1% |
| | Oncocytoma | 7 | 0.1% |
| | Other benign | 898 | 11.7% |
| | Not recorded | 181 | 2.3% |
| | Not recorded | Clear cell renal cell ca | 115 |
| TCC | | 25 | 0.3% |
| Angiomyolipoma | | 1 | 0.0% |
| Chromophobe | | 7 | 0.1% |
| Other Cancer | | 32 | 0.4% |
| Papillary | | 7 | 0.1% |
| Sarcoma | | 36 | 0.5% |
| Oncocytoma | | 5 | 0.1% |
| Other benign | | 28 | 0.4% |
| Not recorded | | 52 | 0.7% |
| Grand Total | | | 7,703 |

Tstage

| Tstage (grou.. | N | % Total |
|--------------------|--------------|---------------|
| 0 | 106 | 1.6% |
| 1 | 2,871 | 43.6% |
| 2 | 842 | 12.8% |
| 3 | 1,597 | 24.3% |
| 4 | 132 | 2.0% |
| a | 258 | 3.9% |
| is | 1 | 0.0% |
| X | 88 | 1.3% |
| Not recorded | 684 | 10.4% |
| Grand Total | 6,579 | 100.0% |

Nstage

| Nstage | N | % Total |
|--------------------|--------------|---------------|
| 0 | 3,411 | 51.8% |
| 1 | 143 | 2.2% |
| 2 | 120 | 1.8% |
| 3 | 2 | 0.0% |
| X | 2,143 | 32.6% |
| Not recorded | 760 | 11.6% |
| Grand Total | 6,579 | 100.0% |

Mstage

| Mstage | N | % Total |
|--------------------|--------------|---------------|
| 0 | 3,070 | 46.7% |
| 1 | 259 | 3.9% |
| X | 2,512 | 38.2% |
| Not recorded | 738 | 11.2% |
| Grand Total | 6,579 | 100.0% |

N.B. Pathological category used where available else clinical category

Grade of Operating Surgeon

| Grade Of Main Operator | % of Total Number of .. | Number of Records |
|------------------------|-------------------------|-------------------|
| Consultant | 90.0% | 6,930 |
| SpR | 6.8% | 527 |
| Other | 0.3% | 25 |
| Not recorded | 2.9% | 221 |
| Grand Total | | 7,703 |

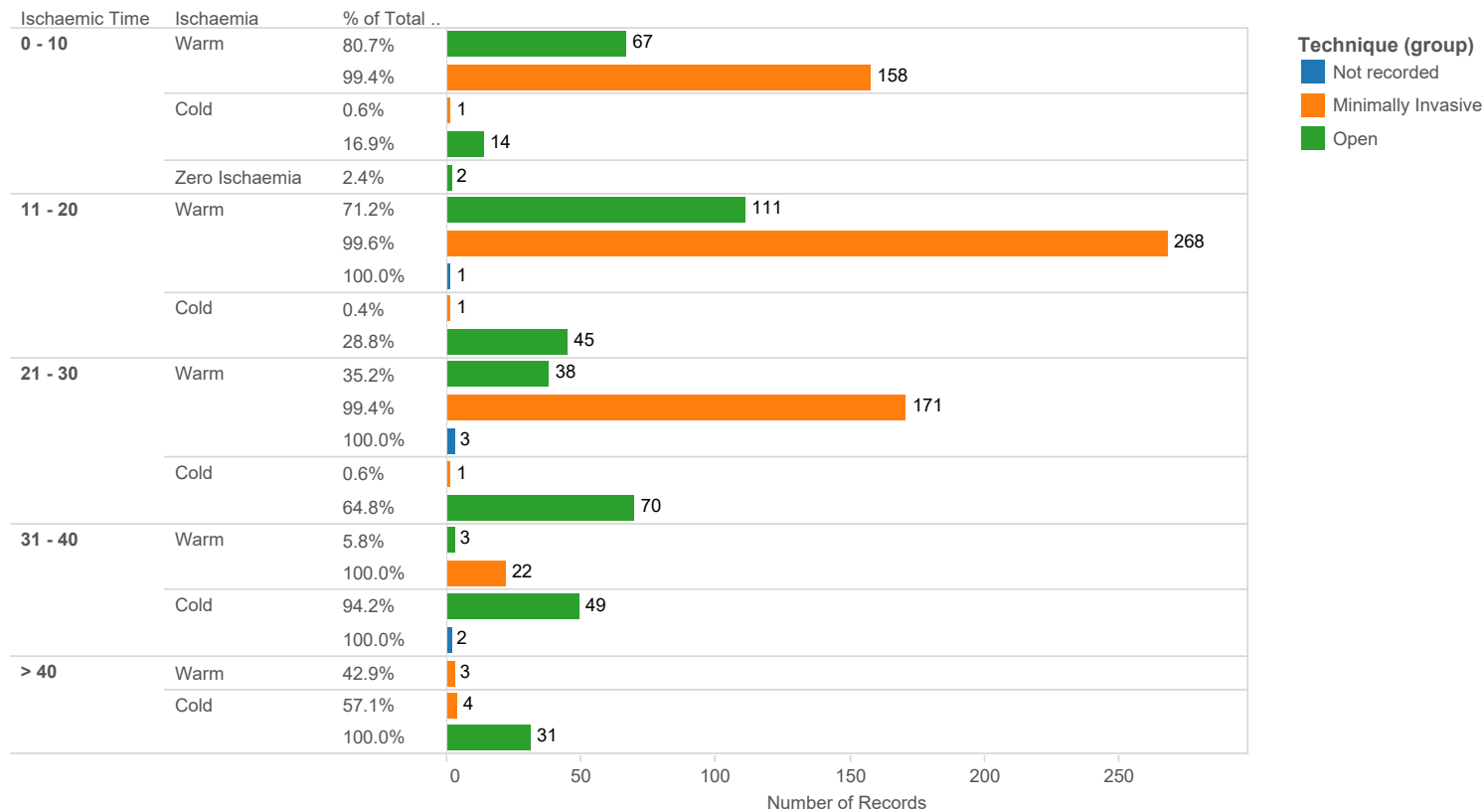
Procedure by Technique

| Procedure Code | Technique (group) | | | | | | Grand Total | |
|--------------------|-------------------|---------------|--------------|---------------|--------------------|---------------|--------------|---------------|
| | Open | | Not recorded | | Minimally Invasive | | N | % Total |
| | N | % Total | N | % Total | N | % Total | N | % Total |
| Radical | 1,035 | 52.2% | 59 | 40.7% | 2,978 | 53.4% | 4,072 | 52.9% |
| Partial | 611 | 30.8% | 20 | 13.8% | 802 | 14.4% | 1,433 | 18.6% |
| Simple | 133 | 6.7% | 11 | 7.6% | 762 | 13.7% | 906 | 11.8% |
| Nephroureterectomy | 132 | 6.7% | 21 | 14.5% | 922 | 16.5% | 1,075 | 14.0% |
| Other | 64 | 3.2% | 9 | 6.2% | 71 | 1.3% | 144 | 1.9% |
| Not recorded | 9 | 0.5% | 25 | 17.2% | 39 | 0.7% | 73 | 0.9% |
| Grand Total | 1,984 | 100.0% | 145 | 100.0% | 5,574 | 100.0% | 7,703 | 100.0% |

Indication for Partial Nephrectomies

| Partial Indication | Technique (group) | | | | | | Grand Total | |
|--------------------|-------------------|---------|--------------|---------|--------------------|---------|-------------|---------|
| | Open | | Not recorded | | Minimally Invasive | | | |
| | N | % Total | N | % Total | N | % Total | N | % Total |
| Elective | 354 | 17.8% | 5 | 3.4% | 594 | 10.7% | 953 | 12.4% |
| Absolute | 82 | 4.1% | 1 | 0.7% | 18 | 0.3% | 101 | 1.3% |
| Relative | 81 | 4.1% | 2 | 1.4% | 88 | 1.6% | 171 | 2.2% |
| Null | 1,467 | 73.9% | 137 | 94.5% | 4,874 | 87.4% | 6,478 | 84.1% |
| Grand Total | 1,984 | 100.0% | 145 | 100.0% | 5,574 | 100.0% | 7,703 | 100.0% |

Ischaemic Time



Tumour size by Procedure & Technique

| Maximum Di.. | Technique (grou.. | Procedure Code | | | | | | | | | | | | | |
|--------------------|--------------------|----------------|---------|---------|---------|--------|---------|--------------------|---------|-------|---------|--------------|---------|-------------|---------|
| | | Radical | | Partial | | Simple | | Nephroureterectomy | | Other | | Not recorded | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total |
| < = 4 | Open | 286 | 7.0% | 500 | 34.9% | 115 | 12.7% | 98 | 9.1% | 59 | 41.0% | 6 | 8.2% | 1,064 | 13.8% |
| | Not recorded | 26 | 0.6% | 19 | 1.3% | 6 | 0.7% | 19 | 1.8% | 7 | 4.9% | 23 | 31.5% | 100 | 1.3% |
| | Minimally Invasive | 1,428 | 35.1% | 727 | 50.7% | 663 | 73.2% | 718 | 66.8% | 67 | 46.5% | 32 | 43.8% | 3,635 | 47.2% |
| > 4 - 7 | Open | 153 | 3.8% | 80 | 5.6% | | | 18 | 1.7% | 1 | 0.7% | | | 252 | 3.3% |
| | Not recorded | 8 | 0.2% | | | | | 2 | 0.2% | | | 1 | 1.4% | 11 | 0.1% |
| | Minimally Invasive | 943 | 23.2% | 51 | 3.6% | | | 125 | 11.6% | 1 | 0.7% | 7 | 9.6% | 1,127 | 14.6% |
| > 7 - 10 | Open | 260 | 6.4% | 11 | 0.8% | | | 7 | 0.7% | 1 | 0.7% | 2 | 2.7% | 281 | 3.6% |
| | Not recorded | 8 | 0.2% | | | 1 | 0.1% | | | | | | | 9 | 0.1% |
| | Minimally Invasive | 415 | 10.2% | 7 | 0.5% | 1 | 0.1% | 38 | 3.5% | 1 | 0.7% | | | 462 | 6.0% |
| > 10 | Open | 327 | 8.0% | 10 | 0.7% | 6 | 0.7% | 7 | 0.7% | 2 | 1.4% | 1 | 1.4% | 353 | 4.6% |
| | Not recorded | 13 | 0.3% | | | | | | | 1 | 0.7% | 1 | 1.4% | 15 | 0.2% |
| | Minimally Invasive | 159 | 3.9% | 14 | 1.0% | 1 | 0.1% | 26 | 2.4% | | | | | 200 | 2.6% |
| Not recorded | Open | 9 | 0.2% | 10 | 0.7% | 12 | 1.3% | 2 | 0.2% | 1 | 0.7% | | | 34 | 0.4% |
| | Not recorded | 4 | 0.1% | 1 | 0.1% | 4 | 0.4% | | | 1 | 0.7% | | | 10 | 0.1% |
| | Minimally Invasive | 33 | 0.8% | 3 | 0.2% | 97 | 10.7% | 15 | 1.4% | 2 | 1.4% | | | 150 | 1.9% |
| Grand Total | | 4,072 | 100.0% | 1,433 | 100.0% | 906 | 100.0% | 1,075 | 100.0% | 144 | 100.0% | 73 | 100.0% | 7,703 | 100.0% |

Operating Time by Procedure & Technique

| Operating Ti.. | Technique (group) | Procedure Code | | | | | | | | | | | | | |
|--------------------|--------------------|----------------|---------|---------|---------|--------|---------|--------------------|---------|-------|---------|--------------|---------|-------------|---------|
| | | Radical | | Partial | | Simple | | Nephroureterectomy | | Other | | Not recorded | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total |
| < 60 mins | Open | 11 | 0.3% | 10 | 0.8% | 3 | 0.4% | 2 | 0.2% | 2 | 1.6% | | | 28 | 0.4% |
| | Not recorded | 1 | 0.0% | | | | | 2 | 0.2% | | | | | 3 | 0.0% |
| | Minimally Invasive | 109 | 3.0% | 19 | 1.5% | 38 | 4.8% | 3 | 0.3% | 6 | 4.8% | 1 | 4.2% | 176 | 2.6% |
| 1 - 2 hours | Open | 174 | 4.8% | 208 | 16.9% | 23 | 2.9% | 12 | 1.3% | 6 | 4.8% | 4 | 16.7% | 427 | 6.3% |
| | Not recorded | 4 | 0.1% | | | 1 | 0.1% | 1 | 0.1% | 2 | 1.6% | | | 8 | 0.1% |
| | Minimally Invasive | 945 | 26.2% | 173 | 14.1% | 280 | 35.2% | 95 | 9.9% | 20 | 16.0% | 7 | 29.2% | 1,520 | 22.6% |
| 2 - 3 hours | Open | 369 | 10.2% | 208 | 16.9% | 47 | 5.9% | 42 | 4.4% | 26 | 20.8% | 3 | 12.5% | 695 | 10.3% |
| | Not recorded | 10 | 0.3% | 7 | 0.6% | 4 | 0.5% | 2 | 0.2% | 5 | 4.0% | | | 28 | 0.4% |
| | Minimally Invasive | 1,113 | 30.9% | 330 | 26.8% | 242 | 30.4% | 320 | 33.5% | 24 | 19.2% | 3 | 12.5% | 2,032 | 30.2% |
| 3 - 4 hours | Open | 201 | 5.6% | 83 | 6.7% | 21 | 2.6% | 25 | 2.6% | 14 | 11.2% | 1 | 4.2% | 345 | 5.1% |
| | Not recorded | 3 | 0.1% | 2 | 0.2% | | | 1 | 0.1% | | | | | 6 | 0.1% |
| | Minimally Invasive | 412 | 11.4% | 133 | 10.8% | 95 | 11.9% | 251 | 26.3% | 8 | 6.4% | 2 | 8.3% | 901 | 13.4% |
| 4 - 6 hours | Open | 103 | 2.9% | 24 | 1.9% | 11 | 1.4% | 19 | 2.0% | 7 | 5.6% | | | 164 | 2.4% |
| | Not recorded | 5 | 0.1% | 1 | 0.1% | | | 1 | 0.1% | | | | | 7 | 0.1% |
| | Minimally Invasive | 118 | 3.3% | 30 | 2.4% | 27 | 3.4% | 159 | 16.6% | 2 | 1.6% | 3 | 12.5% | 339 | 5.0% |
| > 6 hours | Open | 17 | 0.5% | 3 | 0.2% | 2 | 0.3% | 9 | 0.9% | 3 | 2.4% | | | 34 | 0.5% |
| | Minimally Invasive | 6 | 0.2% | | | 2 | 0.3% | 12 | 1.3% | | | | | 20 | 0.3% |
| Grand Total | | 3,601 | 100.0% | 1,231 | 100.0% | 796 | 100.0% | 956 | 100.0% | 125 | 100.0% | 24 | 100.0% | 6,733 | 100.0% |

Blood Loss by Procedure & Technique

| Measured Bl.. | Technique (grou.. | Procedure Code | | | | | | | | | | | | | |
|--------------------|--------------------|----------------|---------|---------|---------|--------|---------|--------------------|---------|-------|---------|--------------|---------|-------------|---------|
| | | Radical | | Partial | | Simple | | Nephroureterectomy | | Other | | Not recorded | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total |
| < 500 | Open | 475 | 13.7% | 420 | 34.5% | 72 | 8.9% | 73 | 7.9% | 21 | 17.9% | 2 | 8.7% | 1,063 | 16.2% |
| | Not recorded | 14 | 0.4% | 9 | 0.7% | 6 | 0.7% | 7 | 0.8% | 7 | 6.0% | | | 43 | 0.7% |
| | Minimally Invasive | 2,472 | 71.4% | 633 | 52.0% | 678 | 84.0% | 764 | 82.2% | 54 | 46.2% | 15 | 65.2% | 4,616 | 70.4% |
| > 500 - 1000 | Open | 170 | 4.9% | 61 | 5.0% | 21 | 2.6% | 18 | 1.9% | 14 | 12.0% | 3 | 13.0% | 287 | 4.4% |
| | Not recorded | 2 | 0.1% | | | | | | | | | | | 2 | 0.0% |
| | Minimally Invasive | 99 | 2.9% | 47 | 3.9% | 17 | 2.1% | 43 | 4.6% | 1 | 0.9% | | | 207 | 3.2% |
| > 1000 - 2000 | Open | 93 | 2.7% | 19 | 1.6% | 6 | 0.7% | 7 | 0.8% | 11 | 9.4% | 2 | 8.7% | 138 | 2.1% |
| | Not recorded | 4 | 0.1% | 1 | 0.1% | | | | | | | | | 5 | 0.1% |
| | Minimally Invasive | 46 | 1.3% | 15 | 1.2% | 4 | 0.5% | 9 | 1.0% | | | | | 74 | 1.1% |
| > 2000 - 5000 | Open | 58 | 1.7% | 10 | 0.8% | 3 | 0.4% | 6 | 0.6% | 8 | 6.8% | | | 85 | 1.3% |
| | Not recorded | | | | | | | | | | | | | | |
| | Minimally Invasive | 17 | 0.5% | 3 | 0.2% | | | 2 | 0.2% | | | | | 22 | 0.3% |
| > 5000 | Open | 9 | 0.3% | | | | | | | 1 | 0.9% | 1 | 4.3% | 11 | 0.2% |
| | Not recorded | 1 | 0.0% | | | | | | | | | | | 1 | 0.0% |
| | Minimally Invasive | 3 | 0.1% | | | | | | | | | | | 3 | 0.0% |
| Grand Total | | 3,463 | 100.0% | 1,218 | 100.0% | 807 | 100.0% | 929 | 100.0% | 117 | 100.0% | 23 | 100.0% | 6,557 | 100.0% |

Transfusion Rate

| Blood Transfused | N | % Total |
|--------------------|-------|---------|
| Transfused | 489 | 7.3% |
| Not transfused | 6,240 | 92.7% |
| Grand Total | 6,729 | 100.0% |

Transfusions by Procedure & Technique

| Number Of Units Of Blood Transfused .. | Technique (group) | Procedure Code | | | | | | | | | | | | | |
|--|-------------------|----------------|---------|---------|---------|--------|---------|------------------|---------|-------|---------|--------------|---------|-------------|---------|
| | | Radical | | Partial | | Simple | | Nephroureterec.. | | Other | | Not recorded | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total |
| Nil | Open | 655 | 18.4% | 491 | 39.1% | 89 | 10.8% | 83 | 8.8% | 40 | 32.0% | 3 | 12.5% | 1,361 | 20.2% |
| | Not recorded | 17 | 0.5% | 9 | 0.7% | 6 | 0.7% | 8 | 0.8% | 7 | 5.6% | | | 47 | 0.7% |
| | Minimally Inv.. | 2,571 | 72.3% | 697 | 55.5% | 698 | 84.8% | 793 | 84.0% | 57 | 45.6% | 16 | 66.7% | 4,832 | 71.8% |
| Minor (<= 2) | Open | 122 | 3.4% | 28 | 2.2% | 12 | 1.5% | 15 | 1.6% | 7 | 5.6% | 4 | 16.7% | 188 | 2.8% |
| | Not recorded | 1 | 0.0% | 1 | 0.1% | | | | | | | | | 2 | 0.0% |
| | Minimally Inv.. | 67 | 1.9% | 16 | 1.3% | 6 | 0.7% | 21 | 2.2% | | | | | 110 | 1.6% |
| Moderate (>2 - 6) | Open | 67 | 1.9% | 8 | 0.6% | 5 | 0.6% | 6 | 0.6% | 12 | 9.6% | | | 98 | 1.5% |
| | Not recorded | 2 | 0.1% | | | | | | | | | | | 2 | 0.0% |
| | Minimally Inv.. | 30 | 0.8% | 6 | 0.5% | 6 | 0.7% | 14 | 1.5% | | | | | 56 | 0.8% |
| Major (>6) | Open | 17 | 0.5% | | | 1 | 0.1% | 2 | 0.2% | 2 | 1.6% | 1 | 4.2% | 23 | 0.3% |
| | Not recorded | 1 | 0.0% | | | | | | | | | | | 1 | 0.0% |
| | Minimally Inv.. | 7 | 0.2% | | | | | 2 | 0.2% | | | | | 9 | 0.1% |
| Grand Total | | 3,557 | 100.0% | 1,256 | 100.0% | 823 | 100.0% | 944 | 100.0% | 125 | 100.0% | 24 | 100.0% | 6,729 | 100.0% |

Clavien Dindo Grade III plus Complication Rate

| Grade3plus (group) | N | % Total |
|--------------------|--------------|---------------|
| Grade III plus | 228 | 3.1% |
| No | 7,033 | 96.9% |
| Grand Total | 7,261 | 100.0% |

Clavien Dindo Grades

| Clavien Dindo Grade Of Co.. | Procedure Code | Technique (group) | | | | | | Grand Total | |
|-----------------------------|--------------------|-------------------|---------|--------------------|---------|--------------|---------|-------------|---------|
| | | Open | | Minimally Invasive | | Not recorded | | N | % Total |
| | | N | % Total | N | % Total | N | % Total | | |
| Grade I | Radical | 37 | 1.9% | 117 | 2.1% | | | 154 | 2.0% |
| | Partial | 36 | 1.8% | 14 | 0.3% | 1 | 0.7% | 51 | 0.7% |
| | Simple | 9 | 0.5% | 20 | 0.4% | | | 29 | 0.4% |
| | Nephroureterectomy | 10 | 0.5% | 45 | 0.8% | | | 55 | 0.7% |
| | Other | 2 | 0.1% | | | | | 2 | 0.0% |
| | Not recorded | 2 | 0.1% | 1 | 0.0% | | | 3 | 0.0% |
| Grade II | Radical | 88 | 4.4% | 117 | 2.1% | 3 | 2.1% | 208 | 2.7% |
| | Partial | 36 | 1.8% | 24 | 0.4% | 1 | 0.7% | 61 | 0.8% |
| | Simple | 16 | 0.8% | 24 | 0.4% | | | 40 | 0.5% |
| | Nephroureterectomy | 18 | 0.9% | 52 | 0.9% | | | 70 | 0.9% |
| | Other | | | 1 | 0.0% | | | 1 | 0.0% |
| | Not recorded | 1 | 0.1% | | | | | 1 | 0.0% |
| Grade IIIa | Radical | 11 | 0.6% | 13 | 0.2% | | | 24 | 0.3% |
| | Partial | 14 | 0.7% | 14 | 0.3% | | | 28 | 0.4% |
| | Simple | 4 | 0.2% | 5 | 0.1% | | | 9 | 0.1% |
| | Nephroureterectomy | 3 | 0.2% | 4 | 0.1% | | | 7 | 0.1% |
| | Other | | | 1 | 0.0% | | | 1 | 0.0% |
| Grade IIIb | Radical | 18 | 0.9% | 19 | 0.3% | 1 | 0.7% | 38 | 0.5% |
| | Partial | 8 | 0.4% | 9 | 0.2% | | | 17 | 0.2% |
| | Simple | 4 | 0.2% | 6 | 0.1% | | | 10 | 0.1% |
| | Nephroureterectomy | 4 | 0.2% | 14 | 0.3% | | | 18 | 0.2% |
| | Other | | | 1 | 0.0% | | | 1 | 0.0% |
| | Not recorded | | | 1 | 0.0% | | | 1 | 0.0% |
| Grade IVa | Radical | 9 | 0.5% | 16 | 0.3% | | | 25 | 0.3% |
| | Partial | 4 | 0.2% | | | | | 4 | 0.1% |
| | Simple | 1 | 0.1% | | | | | 1 | 0.0% |
| | Nephroureterectomy | 4 | 0.2% | 8 | 0.1% | | | 12 | 0.2% |
| | Other | 5 | 0.3% | | | | | 5 | 0.1% |
| Grade IVb | Radical | 2 | 0.1% | | | | | 2 | 0.0% |
| | Nephroureterectomy | | | 1 | 0.0% | | | 1 | 0.0% |
| Grade V | Radical | 9 | 0.5% | 3 | 0.1% | | | 12 | 0.2% |
| | Simple | 3 | 0.2% | 1 | 0.0% | | | 4 | 0.1% |
| | Nephroureterectomy | 1 | 0.1% | 7 | 0.1% | | | 8 | 0.1% |
| | Other | 1 | 0.1% | 1 | 0.0% | | | 2 | 0.0% |
| Not recorded | Radical | 861 | 43.4% | 2,693 | 48.3% | 55 | 37.9% | 3,609 | 46.9% |
| | Partial | 513 | 25.9% | 741 | 13.3% | 18 | 12.4% | 1,272 | 16.5% |
| | Simple | 96 | 4.8% | 706 | 12.7% | 11 | 7.6% | 813 | 10.6% |
| | Nephroureterectomy | 92 | 4.6% | 791 | 14.2% | 21 | 14.5% | 904 | 11.7% |
| | Other | 56 | 2.8% | 67 | 1.2% | 9 | 6.2% | 132 | 1.7% |
| | Not recorded | 6 | 0.3% | 37 | 0.7% | 25 | 17.2% | 68 | 0.9% |
| Grand Total | | 1,984 | 100.0% | 5,574 | 100.0% | 145 | 100.0% | 7,703 | 100.0% |

Conversions

| Conversion Reason | Procedure Code | | | | | | | | | | | | | |
|-----------------------|----------------|---------------|------------|---------------|------------|---------------|--------------------|---------------|-----------|---------------|--------------|---------------|--------------|---------------|
| | Radical | | Partial | | Simple | | Nephroureterectomy | | Other | | Not recorded | | Grand Total | |
| | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total | N | % Total |
| Adhesions | 11 | 0.4% | 3 | 0.4% | 1 | 0.1% | 3 | 0.3% | | | | | 18 | 0.3% |
| Bowel perforation | 1 | 0.0% | | | | | | | | | | | 1 | 0.0% |
| Difficult dissection | 27 | 0.9% | 7 | 0.9% | 8 | 1.0% | 16 | 1.7% | | | | | 58 | 1.0% |
| Failure to progress | 10 | 0.3% | 1 | 0.1% | 3 | 0.4% | 7 | 0.8% | | | | | 21 | 0.4% |
| Haemorrhage | 42 | 1.4% | 7 | 0.9% | 4 | 0.5% | 13 | 1.4% | | | | | 66 | 1.2% |
| Patient obesity | 2 | 0.1% | 1 | 0.1% | | | | | | | | | 3 | 0.1% |
| Size of tumour / mass | 12 | 0.4% | 3 | 0.4% | 3 | 0.4% | | | | | | | 18 | 0.3% |
| Other | 13 | 0.4% | 6 | 0.7% | 1 | 0.1% | 2 | 0.2% | 1 | 1.4% | | | 23 | 0.4% |
| Not recorded | 2,860 | 96.0% | 774 | 96.5% | 742 | 97.4% | 881 | 95.6% | 70 | 98.6% | 39 | 100.0% | 5,366 | 96.3% |
| Grand Total | 2,978 | 100.0% | 802 | 100.0% | 762 | 100.0% | 922 | 100.0% | 71 | 100.0% | 39 | 100.0% | 5,574 | 100.0% |

Intra-operative Complications

| Intraoperative Complicatio.. | Procedure Code | Technique (group) | | | | | |
|------------------------------|--------------------|-------------------|---------|--------------------|---------|-------------|---------|
| | | Open | | Minimally Invasive | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total |
| Yes | Radical | 79 | 4.0% | 112 | 2.0% | 193 | 2.5% |
| | Partial | 27 | 1.4% | 25 | 0.4% | 53 | 0.7% |
| | Simple | 9 | 0.5% | 17 | 0.3% | 26 | 0.3% |
| | Nephroureterectomy | 13 | 0.7% | 29 | 0.5% | 42 | 0.5% |
| | Other | 4 | 0.2% | 1 | 0.0% | 5 | 0.1% |
| | Not recorded | 2 | 0.1% | | | 2 | 0.0% |
| | Total | 134 | 6.8% | 184 | 3.3% | 321 | 4.2% |
| No | Radical | 865 | 43.6% | 2,679 | 48.1% | 3,569 | 46.3% |
| | Partial | 539 | 27.2% | 709 | 12.7% | 1,257 | 16.3% |
| | Simple | 114 | 5.7% | 716 | 12.8% | 836 | 10.9% |
| | Nephroureterectomy | 107 | 5.4% | 839 | 15.1% | 952 | 12.4% |
| | Other | 56 | 2.8% | 68 | 1.2% | 131 | 1.7% |
| | Not recorded | 6 | 0.3% | 24 | 0.4% | 31 | 0.4% |
| | Total | 1,687 | 85.0% | 5,035 | 90.3% | 6,776 | 88.0% |
| Not recorded | Radical | 91 | 4.6% | 187 | 3.4% | 310 | 4.0% |
| | Partial | 45 | 2.3% | 68 | 1.2% | 123 | 1.6% |
| | Simple | 10 | 0.5% | 29 | 0.5% | 44 | 0.6% |
| | Nephroureterectomy | 12 | 0.6% | 54 | 1.0% | 81 | 1.1% |
| | Other | 4 | 0.2% | 2 | 0.0% | 8 | 0.1% |
| | Not recorded | 1 | 0.1% | 15 | 0.3% | 40 | 0.5% |
| Total | 163 | 8.2% | 355 | 6.4% | 606 | 7.9% | |
| Grand Total | | 1,984 | 100.0% | 5,574 | 100.0% | 7,703 | 100.0% |

Specific Intra-operative Complications

| Procedure Code | Specific Intraoperative C.. | Technique (group) | | | | | |
|----------------------|-----------------------------|-------------------|---------|--------------------|---------|-------------|---------|
| | | Open | | Minimally Invasive | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total |
| Radical | Bleeding | 33 | 24.6% | 58 | 31.5% | 92 | 28.7% |
| | Bleeding,Liver inj.. | | | 1 | 0.5% | 1 | 0.3% |
| | Bleeding,Other | 2 | 1.5% | 2 | 1.1% | 4 | 1.2% |
| | Bleeding,Splenect.. | 4 | 3.0% | 1 | 0.5% | 6 | 1.9% |
| | Bowel injury | 2 | 1.5% | 5 | 2.7% | 7 | 2.2% |
| | Bowel injury,Other | | | 1 | 0.5% | 1 | 0.3% |
| | Death on table | 1 | 0.7% | | | 1 | 0.3% |
| | Liver injury | 3 | 2.2% | 5 | 2.7% | 8 | 2.5% |
| | Liver injury,Other | | | 1 | 0.5% | 1 | 0.3% |
| | Other | 13 | 9.7% | 16 | 8.7% | 29 | 9.0% |
| | Pancreatic injury | | | 2 | 1.1% | 2 | 0.6% |
| | Pancreatic injury,.. | 1 | 0.7% | | | 1 | 0.3% |
| | Pneumothorax | 7 | 5.2% | 10 | 5.4% | 17 | 5.3% |
| | Splenectomy | 11 | 8.2% | 9 | 4.9% | 20 | 6.2% |
| Null | 2 | 1.5% | 1 | 0.5% | 3 | 0.9% | |
| Partial | Bleeding | 10 | 7.5% | 13 | 7.1% | 23 | 7.2% |
| | Bleeding,Liver inj.. | | | | | 1 | 0.3% |
| | Bleeding,Other | 1 | 0.7% | 1 | 0.5% | 2 | 0.6% |
| | Liver injury | | | 1 | 0.5% | 1 | 0.3% |
| | Other | 6 | 4.5% | 10 | 5.4% | 16 | 5.0% |
| | Pneumothorax | 9 | 6.7% | | | 9 | 2.8% |
| | Null | 1 | 0.7% | | | 1 | 0.3% |
| Simple | Bleeding | 5 | 3.7% | 8 | 4.3% | 13 | 4.0% |
| | Bleeding,Other | | | 2 | 1.1% | 2 | 0.6% |
| | Bleeding,Pneumo.. | 1 | 0.7% | | | 1 | 0.3% |
| | Bowel injury | 1 | 0.7% | | | 1 | 0.3% |
| | Bowel injury,Pneu.. | | | 1 | 0.5% | 1 | 0.3% |
| | Other | 1 | 0.7% | 5 | 2.7% | 6 | 1.9% |
| | Pneumothorax | 1 | 0.7% | 1 | 0.5% | 2 | 0.6% |
| Nephrourete.. | Bleeding | 6 | 4.5% | 15 | 8.2% | 21 | 6.5% |
| | Bleeding,Bowel in.. | | | 1 | 0.5% | 1 | 0.3% |
| | Bleeding,Pancrea.. | | | 1 | 0.5% | 1 | 0.3% |
| | Bowel injury | 1 | 0.7% | 4 | 2.2% | 5 | 1.6% |
| | Bowel injury,Other | 1 | 0.7% | | | 1 | 0.3% |
| | Other | 1 | 0.7% | 7 | 3.8% | 8 | 2.5% |
| | Pneumothorax | 2 | 1.5% | 1 | 0.5% | 3 | 0.9% |
| | Pneumothorax,Ot.. | 1 | 0.7% | | | 1 | 0.3% |
| Splenectomy | 1 | 0.7% | | | 1 | 0.3% | |
| Other | Bleeding | 3 | 2.2% | 1 | 0.5% | 4 | 1.2% |
| | Other | 1 | 0.7% | | | 1 | 0.3% |
| Not recorded | Bleeding | 2 | 1.5% | | | 2 | 0.6% |
| Grand Total | | 134 | 100.0% | 184 | 100.0% | 321 | 100.0% |

Post-operative Complications

| Postoperative Complicatio.. | Procedure Code | Technique (group) | | | | | |
|-----------------------------|--------------------|-------------------|---------|--------------------|---------|-------------|---------|
| | | Open | | Minimally Invasive | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total |
| Yes | Radical | 178 | 9.0% | 292 | 5.2% | 474 | 6.2% |
| | Partial | 103 | 5.2% | 57 | 1.0% | 161 | 2.1% |
| | Simple | 38 | 1.9% | 70 | 1.3% | 108 | 1.4% |
| | Nephroureterectomy | 41 | 2.1% | 136 | 2.4% | 177 | 2.3% |
| | Other | 15 | 0.8% | 4 | 0.1% | 19 | 0.2% |
| | Not recorded | 1 | 0.1% | 3 | 0.1% | 4 | 0.1% |
| | No | Radical | 739 | 37.2% | 2,404 | 43.1% | 3,160 |
| Partial | | 433 | 21.8% | 640 | 11.5% | 1,079 | 14.0% |
| Simple | | 82 | 4.1% | 624 | 11.2% | 712 | 9.2% |
| Nephroureterectomy | | 80 | 4.0% | 715 | 12.8% | 800 | 10.4% |
| Other | | 43 | 2.2% | 65 | 1.2% | 115 | 1.5% |
| Not recorded | | 6 | 0.3% | 14 | 0.3% | 20 | 0.3% |
| Not recorded | | Radical | 118 | 5.9% | 282 | 5.1% | 438 |
| | Partial | 75 | 3.8% | 105 | 1.9% | 193 | 2.5% |
| | Simple | 13 | 0.7% | 68 | 1.2% | 86 | 1.1% |
| | Nephroureterectomy | 11 | 0.6% | 71 | 1.3% | 98 | 1.3% |
| | Other | 6 | 0.3% | 2 | 0.0% | 10 | 0.1% |
| | Not recorded | 2 | 0.1% | 22 | 0.4% | 49 | 0.6% |
| Grand Total | | 1,984 | 100.0% | 5,574 | 100.0% | 7,703 | 100.0% |

Specific Post-operative Complications

| Procedure Code | Specific Postoperative Comp.. | Technique (group) | | | | | | |
|----------------------------|-------------------------------|--------------------------|---------|--------------------|---------|-------------|---------|------|
| | | Open | | Minimally Invasive | | Grand Total | | |
| | | N | % Total | N | % Total | N | % Total | |
| Radical | Bleeding / haemorrhage | 13.0 | 3.5% | 23.0 | 4.1% | 36.0 | 3.8% | |
| | Chest infection, Chest.. | 35.0 | 9.3% | 79.0 | 14.1% | 116.0 | 12.3% | |
| | DVT / PE | 5.0 | 1.3% | 4.0 | 0.7% | 9.0 | 1.0% | |
| | Ileus, Ileus,Bleeding / .. | 31.0 | 8.2% | 29.0 | 5.2% | 60.0 | 6.4% | |
| | Renal failure | 6.0 | 1.6% | 12.0 | 2.1% | 18.0 | 1.9% | |
| | Wound infection, Wou.. | 23.0 | 6.1% | 47.0 | 8.4% | 71.0 | 7.5% | |
| | Other | 56.0 | 14.9% | 88.0 | 15.7% | 145.0 | 15.4% | |
| | Not recorded | 9.0 | 2.4% | 10.0 | 1.8% | 19.0 | 2.0% | |
| | Partial | Bleeding / haemorrhage | 14.0 | 3.7% | 17.0 | 3.0% | 31.0 | 3.3% |
| | | Chest infection, Chest.. | 24.0 | 6.4% | 12.0 | 2.1% | 37.0 | 3.9% |
| Chest infection,DVT / .. | | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| Chest infection,Ileus,.. | | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| Chest infection,Ileus,.. | | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| DVT / PE | | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| Ileus, Ileus,Bleeding / .. | | 7.0 | 1.9% | 2.0 | 0.4% | 9.0 | 1.0% | |
| Renal failure | | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| Renal failure,Other | | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| Wound infection, Wou.. | | 13.0 | 3.5% | | | 13.0 | 1.4% | |
| Other | | 39.0 | 10.4% | 24.0 | 4.3% | 63.0 | 6.7% | |
| Not recorded | | 2.0 | 0.5% | | | 2.0 | 0.2% | |
| Simple | | Bleeding / haemorrhage | 4.0 | 1.1% | 3.0 | 0.5% | 7.0 | 0.7% |
| | Chest infection, Chest.. | 6.0 | 1.6% | 14.0 | 2.5% | 20.0 | 2.1% | |
| | Chest infection,Woun.. | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| | DVT / PE | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| | Ileus, Ileus,Bleeding / .. | 3.0 | 0.8% | 6.0 | 1.1% | 9.0 | 1.0% | |
| | Wound infection, Wou.. | 6.0 | 1.6% | 11.0 | 2.0% | 17.0 | 1.8% | |
| | Wound infection,Rena.. | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| | Other | 18.0 | 4.8% | 22.0 | 3.9% | 40.0 | 4.2% | |
| | Not recorded | 1.0 | 0.3% | 11.0 | 2.0% | 12.0 | 1.3% | |
| | Nephrourete.. | Bleeding / haemorrhage | 1.0 | 0.3% | 10.0 | 1.8% | 11.0 | 1.2% |
| | | Chest infection, Chest.. | 8.0 | 2.1% | 35.0 | 6.2% | 43.0 | 4.6% |
| | | Chest infection,Ileus,.. | 1.0 | 0.3% | | | 1.0 | 0.1% |
| | | Chest infection,Ileus,.. | | | 1.0 | 0.2% | 1.0 | 0.1% |
| DVT / PE | | | | 2.0 | 0.4% | 2.0 | 0.2% | |
| Ileus, Ileus,Bleeding / .. | | 8.0 | 2.1% | 17.0 | 3.0% | 25.0 | 2.7% | |
| Renal failure | | 1.0 | 0.3% | 3.0 | 0.5% | 4.0 | 0.4% | |
| Renal failure,Other | | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| Wound infection, Wou.. | | 4.0 | 1.1% | 17.0 | 3.0% | 21.0 | 2.2% | |
| Other | | 17.0 | 4.5% | 48.0 | 8.5% | 65.0 | 6.9% | |
| Not recorded | | 1.0 | 0.3% | 2.0 | 0.4% | 3.0 | 0.3% | |
| Other | | Bleeding / haemorrhage | 1.0 | 0.3% | 2.0 | 0.4% | 3.0 | 0.3% |
| | | Chest infection, Chest.. | 2.0 | 0.5% | | | 2.0 | 0.2% |
| | Ileus, Ileus,Bleeding / .. | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| | Renal failure | 2.0 | 0.5% | | | 2.0 | 0.2% | |
| | Renal failure,Other | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| | Wound infection,Blee.. | 1.0 | 0.3% | | | 1.0 | 0.1% | |
| | Other | 7.0 | 1.9% | 2.0 | 0.4% | 9.0 | 1.0% | |
| Not recorded | Wound infection, Wou.. | | | 1.0 | 0.2% | 1.0 | 0.1% | |
| | Other | 1.0 | 0.3% | 2.0 | 0.4% | 3.0 | 0.3% | |
| Grand Total | | 376.0 | 100.0% | 562.0 | 100.0% | 943.0 | 100.0% | |

Length of Stay

| Technique (group) | Procedure Code | N | % Total | Median | Minimum | Maximum |
|---------------------------|--------------------|-------|---------|--------|---------|---------|
| Open | Radical | 958 | 13.7% | 6 | 0 | 87 |
| | Partial | 531 | 7.6% | 6 | 0 | 67 |
| | Simple | 122 | 1.7% | 7 | 0 | 65 |
| | Nephroureterectomy | 116 | 1.7% | 9 | 0 | 98 |
| | Other | 53 | 0.8% | 10 | 0 | 77 |
| | Not recorded | 8 | 0.1% | 6 | 4 | 21 |
| | Total | | 1,788 | 25.5% | 6 | 0 |
| Minimally Invasive | Radical | 2,748 | 39.2% | 3 | 0 | 99 |
| | Partial | 754 | 10.7% | 3 | 0 | 69 |
| | Simple | 697 | 9.9% | 3 | 0 | 52 |
| | Nephroureterectomy | 845 | 12.0% | 5 | 0 | 72 |
| | Other | 59 | 0.8% | 2 | 0 | 32 |
| | Not recorded | 37 | 0.5% | 3 | 1 | 19 |
| Total | | 5,140 | 73.2% | 4 | 0 | 99 |
| Not recorded | Radical | 46 | 0.7% | 6 | 1 | 23 |
| | Partial | 14 | 0.2% | 5 | 2 | 8 |
| | Simple | 6 | 0.1% | 3 | 1 | 7 |
| | Nephroureterectomy | 15 | 0.2% | 5 | 2 | 12 |
| | Other | 7 | 0.1% | 1 | 1 | 48 |
| | Not recorded | 2 | 0.0% | 7 | 4 | 10 |
| Total | | 90 | 1.3% | 5 | 1 | 48 |
| Grand Total | | 7,018 | 100.0% | 4 | 0 | 99 |

Nuclear Grade of Parenchymal Tumours

| nucleargrade | margins | | | | | | Grand Total | |
|--------------------|----------|---------|----------|---------|--------------|---------|-------------|---------|
| | Positive | | Negative | | Not recorded | | | |
| | N | % Total | N | % Total | N | % Total | N | % Total |
| G1 | 4 | 2.3% | 158 | 5.1% | 14 | 0.8% | 176 | 3.6% |
| G2 | 45 | 26.0% | 1,159 | 37.7% | 141 | 8.5% | 1,345 | 27.4% |
| G3 | 62 | 35.8% | 1,202 | 39.1% | 164 | 9.9% | 1,428 | 29.1% |
| G4 | 44 | 25.4% | 315 | 10.2% | 62 | 3.7% | 421 | 8.6% |
| Null | 18 | 10.4% | 244 | 7.9% | 1,281 | 77.1% | 1,543 | 31.4% |
| Grand Total | 173 | 100.0% | 3,078 | 100.0% | 1,662 | 100.0% | 4,913 | 100.0% |

Grade of Urothelial Tumours

| Grade of urothelial tumour | N | % Total |
|----------------------------|-----|---------|
| G1 | 31 | 3.6% |
| G2 | 289 | 34.0% |
| G3 | 492 | 57.8% |
| Not recorded | 39 | 4.6% |
| Grand Total | 851 | 100.0% |

Follow-Up

Adjuvant management

| Adjuvant management (at most recent follow-up - malignancies only) | N | % Total |
|--|--------------|---------------|
| None | 620 | 57.6% |
| Clinical trial | 11 | 1.0% |
| Immunotherapy | 2 | 0.2% |
| Observation | 299 | 27.8% |
| TKI's | 24 | 2.2% |
| Other | 30 | 2.8% |
| Not recorded | 91 | 8.4% |
| Grand Total | 1,077 | 100.0% |

Late Complications

| Late Complications (all cases at most recent follow-up) | N | % Total |
|---|--------------|---------------|
| None | 1,125 | 81.6% |
| DVT | 3 | 0.2% |
| Renal impairment | 48 | 3.5% |
| Wound | 22 | 1.6% |
| Wound hernia | 13 | 0.9% |
| Wound hernia,Other | 1 | 0.1% |
| Wound hernia,Renal impair.. | 1 | 0.1% |
| Wound pain | 18 | 1.3% |
| Wound pain,Other | 1 | 0.1% |
| Other | 37 | 2.7% |
| Not recorded | 109 | 7.9% |
| Grand Total | 1,378 | 100.0% |

Status at most recent follow-up

| Fustatus | Fupatientstatus | Time to Follow -up (group) | | | | | | | |
|---|------------------|----------------------------|---------------|------------|---------------|--------------|---------------|--------------|---------------|
| | | <= 6 months | | > 6 months | | Not recorded | | Grand Total | |
| | | N | % Total | N | % Total | N | % Total | N | % Total |
| Alive with no evidence of renal cancer | Alive | 758 | 77.2% | 327 | 84.1% | 7 | 0.1% | 1,092 | 14.2% |
| Alive with local recurrence of renal cancer | Alive | 7 | 0.7% | 5 | 1.3% | | | 12 | 0.2% |
| Alive with lymph node involvement by renal cancer | Alive | 9 | 0.9% | 2 | 0.5% | | | 11 | 0.1% |
| Alive with metastatic disease | Alive | 52 | 5.3% | 24 | 6.2% | 1 | 0.0% | 77 | 1.0% |
| Discharged to GP / Other consultant | Alive | 89 | 9.1% | 9 | 2.3% | 2 | 0.0% | 100 | 1.3% |
| Other | Alive | 20 | 2.0% | 10 | 2.6% | 1 | 0.0% | 31 | 0.4% |
| | Died in followup | 46 | 4.7% | 12 | 3.1% | | | 58 | 0.8% |
| | died in hospital | 1 | 0.1% | | | | | 1 | 0.0% |
| | Not recorded | | | | | 6,321 | 99.8% | 6,321 | 82.1% |
| Grand Total | | 982 | 100.0% | 389 | 100.0% | 6,332 | 100.0% | 7,703 | 100.0% |

Participating Hospital Centres 2014

We are grateful to consultants from the following Centres / trusts who returned data for these analyses:

Aberdeen Royal Infirmary
Addenbrooke's Hospital, Cambridge
Aintree University Hospital, Liverpool
Airedale Hospital
Alexandra Hospital
Altnagelvin Area Hospital, Londonderry
Arrowe Park Hospital, Wirral
Barking, Havering And Redbridge University Hospital
Barnet Hospital
Barnsley Hospital
Basildon University Hospital, Essex
Basingstoke and North Hampshire Hospital
Bedford Hospital
Belfast City Hospital
Blackpool Victoria Hospital
Bradford Royal Infirmary
Broomfield Hospital, Chelmsford
Burnley General Hospital
Castle Hill Hospital, Hull
Causeway Hospital, Coleraine
Charing Cross Hospital
Chelsea & Westminster Hospital, London
Cheltenham General Hospital
Christie Hospital

Churchill Hospital, Oxford
City Hospital Birmingham
Colchester General Hospital
Countess of Chester Hospital
Craigavon Area Hospital, Portadown
Darent Valley Hospital, Kent
Derriford Hospital, Plymouth
Diana, Princess of Wales Hospital, Grimsby
Doncaster Royal Infirmary
Dorset County Hospital, Dorchester
East Surrey Hospital, Redhill
Eastbourne District General Hospital
Epsom General Hospital, Surrey
Forth Valley Royal Hospital, Larbert
Freeman Hospital, Newcastle
Frimley Park Hospital
Gartnavel General Hospital, Glasgow
George Eliot Hospital, Nuneaton
Glan Clwyd Hospital, Rhyl
Gloucestershire Royal Hospital, Gloucester
Good Hope Hospital, Sutton Coldfield
Guy's & Thomas's Hospital
Hammersmith Hospital
Harrogate District Hospital
Heartlands Hospital, Birmingham

Hereford County Hospital
Hinchingbrooke Hospital, Huntingdon
Huddersfield Royal Infirmary
Ipswich Hospital, Suffolk
James Paget University Hospital, Great Yarmouth
Kent and Canterbury Hospital
Kettering General Hospital
King's College Hospital, London
King's Mill Hospital, Nottinghamshire
Kingston Hospital, London
Leicester General Hospital
Leighton Hospital, Cheshire
Lincoln County Hospital
Lister Hospital, Stevenage
Luton & Dunstable University Hospital
Maidstone Hospital
Manchester Royal Infirmary
Medway Maritime Hospital, Gillingham
Milton Keynes Hospital
Monklands District General Hospital, Airdrie
Morrison Hospital, Swansea
Musgrove Park Hospital, Taunton
New Cross Hospital, Wolverhampton
Ninewells Hospital, Dundee

Noble's Hospital, Isle of Man
Norfolk And Norwich University Hospital
North Manchester General Hospital
North Middlesex Hospital, London
Northampton General Hospital
Northern General Hospital, Sheffield
Northwick Park Hospital
Nottingham City Hospital
Peterborough City Hospital
Pinderfields General Hospital, Wakefield
Princess Alexandra Hospital, Harlow
Princess Elizabeth Hospital, Guernsey
Queen Alexandra Hospital, Portsmouth
Queen Elizabeth Hospital, Birmingham
Queen Margaret Hospital, Dunfermline
Raigmore Hospital, Inverness
Rotherham Hospital
Royal Albert Edward Infirmary, Wigan
Royal Alexandra Hospital, Paisley
Royal Berkshire Hospital, Reading
Royal Bolton Hospital
Royal Bournemouth General Hospital
Royal Cornwall Hospital, Truro
Royal Derby Hospital
Royal Devon and Exeter Hospital
Royal Free Hospital, London
Royal Glamorgan Hospital
Royal Hallamshire Hospital, Sheffield
Royal Hampshire County Hospital, Winchester
Royal Lancaster Infirmary

Royal Liverpool University Hospital
Royal Marsden Hospital, London
Royal Preston Hospital
Royal Shrewsbury Hospital
Royal Surrey County Hospital, Guildford
Royal Sussex County Hospital, Brighton
Royal United Hospital, Bath
Russells Hall Hospital, Dudley
Salford Royal Hospital
Salisbury District Hospital
Sandwell District General Hospital, West Bromwich
Scarborough General Hospital
South Glasgow University Hospital
South Tyneside District Hospital
Southampton General Hospital
Southend Hospital
Southmead Hospital, Bristol
Southport And Ormskirk Hospitals
St Bartholomew's Hospital, London
St George's Hospital, London
St James's Hospital, Dublin
St James's University Hospital, Leeds
St Mary's Hospital , London
St Peter's Hospital, Chertsey
St Richard's Hospital, Chichester
Stepping Hill Hospital, Stockport
Sunderland Royal Hospital
The Great Western Hospital, Swindon

The James Cook University Hospital, Middlesbrough
The Queen Elizabeth Hospital, King's Lynn
The Royal Oldham Hospital
Torbay Hospital, Torquay
University College Hospital, London
University Hospital of North Staffordshire
University Hospital of North Tees
University Hospital of Wales, Cardiff
Victoria Hospital, Kirkcaldy
Walsall Manor Hospital
Walsgrave Hospital, Coventry
Warrington District General Hospital
Watford General Hospital
West Cumberland Hospital, Whitehaven
West Suffolk Hospital, Bury St. Edmunds
Western General Hospital, Edinburgh
Westmorland General Hospital, Kendal
Wexham Park Hospital, Slough
Whipps Cross University Hospital, London
Whiston Hospital, Prescot
Whittington Hospital, London
Withington Community Hospital, Manchester
Worthing Hospital
Wrexham Maelor Hospital
Wycombe Hospital, High Wycombe
Wythenshawe Hospital, Manchester
York Hospital
Ysbyty Gwynedd Hospital, Bangor