

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

**Analyses of Cystectomies performed between**

**January 1<sup>st</sup> and December 31<sup>st</sup> 2014**

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## AUDIT RESULTS SUMMARY – Cystectomy dataset

All the data presented here are a summary of the data extracted from the web-based database on 28<sup>th</sup> August 2015 and relate to operations performed during the whole of 2014. Once extracted the data was transferred to an Access<sup>TM</sup> database for validation before being imported into Tableau<sup>TM</sup> for generation of the analyses. The validation mainly comprised checks for duplicate and / or empty entries and invalid / inappropriate dates.

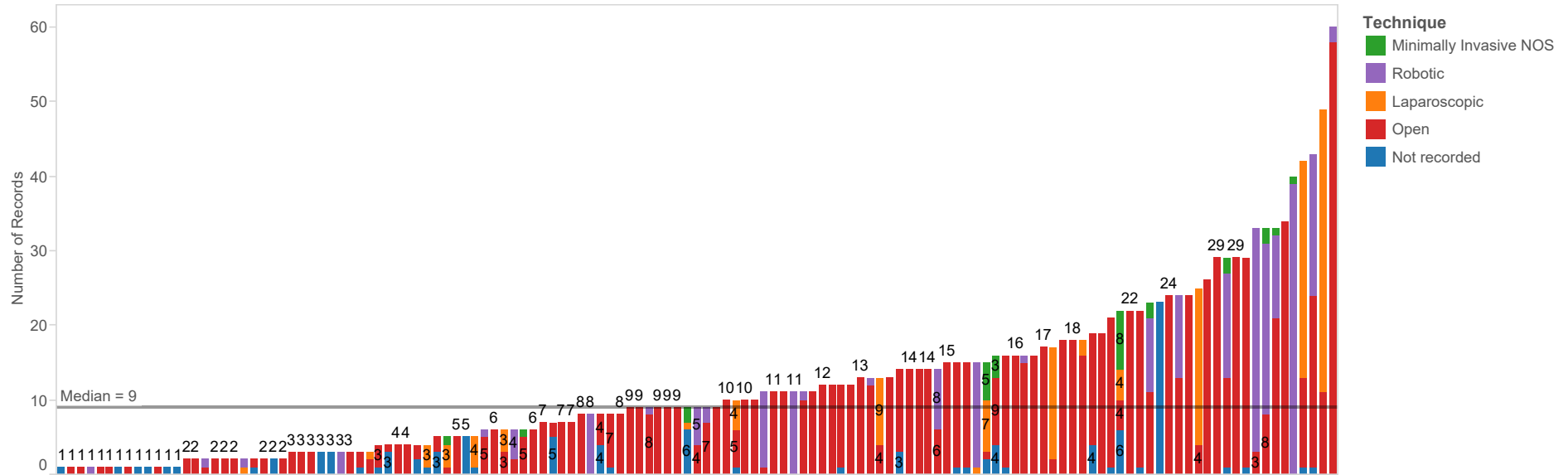
The data collection period was from 1 January 2014 to 31 December 2014.

- 1,601 cases were submitted in total, of which 1,532 were from England. The 1,601 cases came from 135 consultants at 64 sites and include 9 private patients from 8 consultants.
- Median number of cases per consultant: 9 (range 1 - 60)
- Median number of cases per centre: 19.5 (range 1 - 76)
- The overall transfusion rate was 23.6% By technique, the transfusion rates were: open 28.5%, laparoscopic 10.4% and robotic 11.1%.
- The overall Clavien Dindo Grade III plus post-operative complication rate was 10.3%. (Open 10.9%, laparoscopic 6.6% and robotic 9.9%)
- Hospital Episode Statistics (HES) for 2014 indicate that there were 2,054 cystectomies undertaken so we collected data on 78% of the cases undertaken in England in 2014.

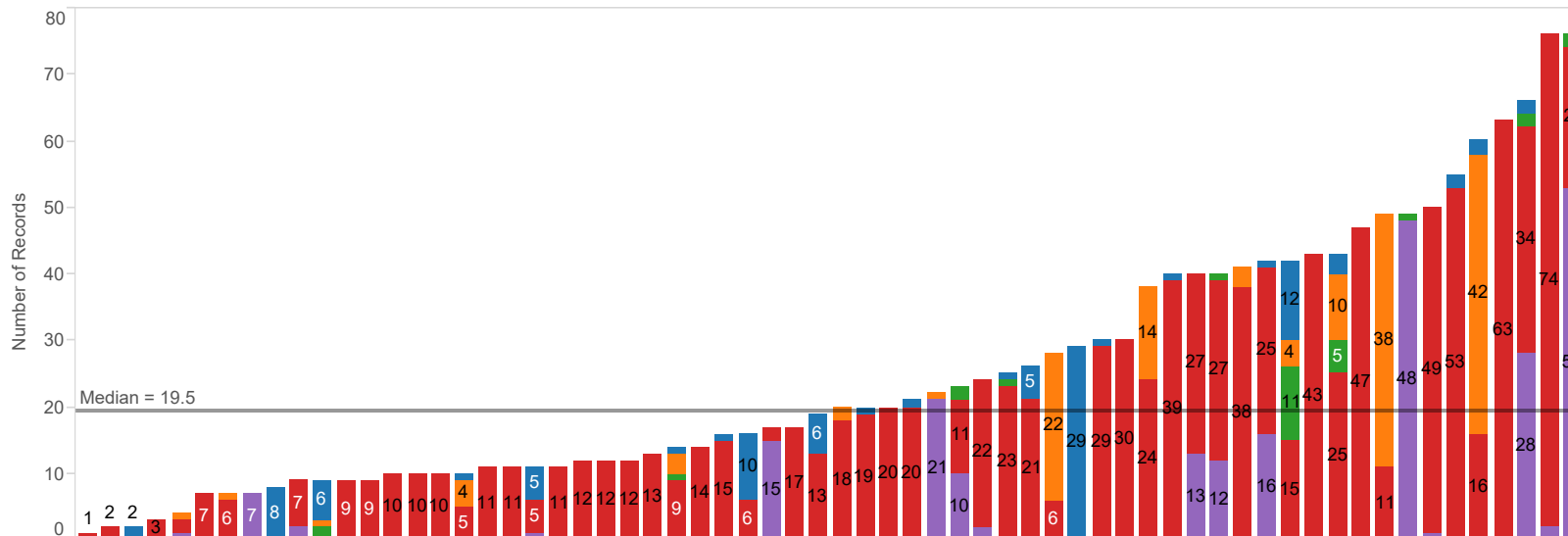
# Total returns for procedures performed between 01/01/2014 and 31/12/2014

1601 cases from 135 consultants at 64 centres including 9 private cases from 8 consultants

Total by Consultant



Total by Centre



## Totals by Technique

Technique	Gender						Grand Total	
	Male		Female		Not recorded			
	N	%	N	%	N	%	N	%
Open	808	73.9%	266	24.3%	20	1.8%	1,094	100.0%
Laparoscopic	122	83.6%	24	16.4%			146	100.0%
Robotic	180	77.6%	51	22.0%	1	0.4%	232	100.0%
Minimally In..	24	85.7%	4	14.3%			28	100.0%
Not recorded	77	76.2%	24	23.8%			101	100.0%
<b>Grand Total</b>	<b>1,211</b>	<b>75.6%</b>	<b>369</b>	<b>23.0%</b>	<b>21</b>	<b>1.3%</b>	<b>1,601</b>	<b>100.0%</b>

## Indication

Indication For Cystectomy	N	% Total
Muscle invasive TCC	737	46.0%
Primary NMIBC	162	10.1%
NMIBC refractory to intravesical treatment	201	12.6%
Primary adenocarcinoma	21	1.3%
Primary CIS	56	3.5%
Salvage after radiotherapy	63	3.9%
Sarcoma	21	1.3%
Squamous cell carcinoma	64	4.0%
Uncontrolled non-muscle invasive disease	23	1.4%
Other	159	9.9%
Not recorded	94	5.9%
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>

## Pre-op Serum Creatinine

Pre-op Serum Creatinine	N	% Total
0 - 120	1,163	72.6%
121 - 200	196	12.2%
> 200	23	1.4%
Not Recorded	219	13.7%
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>

## Technique by Age

Technique	N	%	Median Age	Min. Age	Max. Age
Open	1,094	100.0%	69	14	99
Laparoscopic	146	100.0%	71	35	83
Robotic	232	100.0%	68	31	86
Minimally In..	28	100.0%	71	43	81
Not recorded	101	100.0%	68	32	83
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>	<b>69</b>	<b>14</b>	<b>99</b>

## Pre-op Imaging

Pre Operative Imaging (group)	N	% Total
CT	837	52.3%
CT & MRI	205	12.8%
CT +/- Bone scan, USS, MRI Others	342	21.4%
CT, MRI, Bone scan, USS	1	0.1%
MRI	78	4.9%
MRI, Other & MRI, PET	13	0.8%
MRI, Bone scan	1	0.1%
USS +/- Other	8	0.5%
None	30	1.9%
Other	5	0.3%
Not recorded	81	5.1%
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>

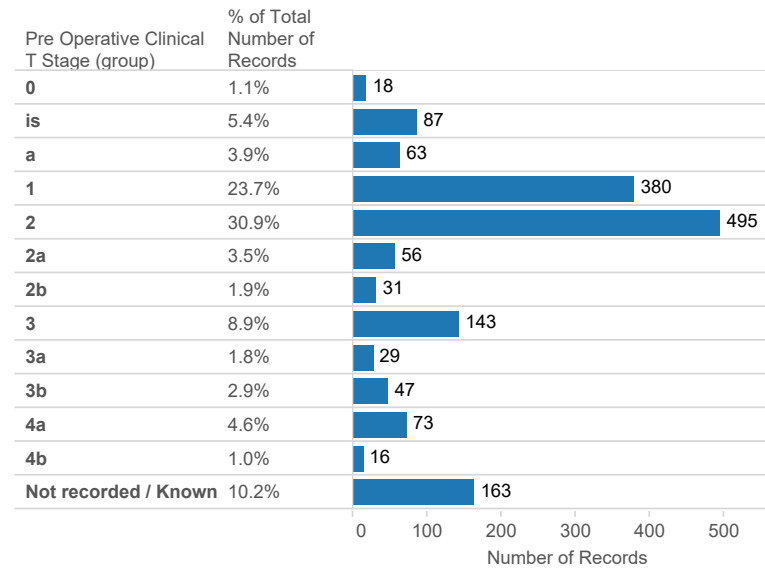
## Pre-operative Serum Egfr

Egfr Normal	Serum Egfr (group)	N	% Total
Yes (>60)	Not recorded / Applicable	688	43.0%
	<b>Total</b>	<b>688</b>	<b>43.0%</b>
No	<20	6	0.4%
	20 - 39	72	4.5%
	40 - 60	385	24.0%
	Not recorded / Applicable	3	0.2%
	<b>Total</b>	<b>466</b>	<b>29.1%</b>
Not recorded	Not recorded / Applicable	447	27.9%
	<b>Total</b>	<b>447</b>	<b>27.9%</b>
<b>Grand Total</b>		<b>1,601</b>	<b>100.0%</b>

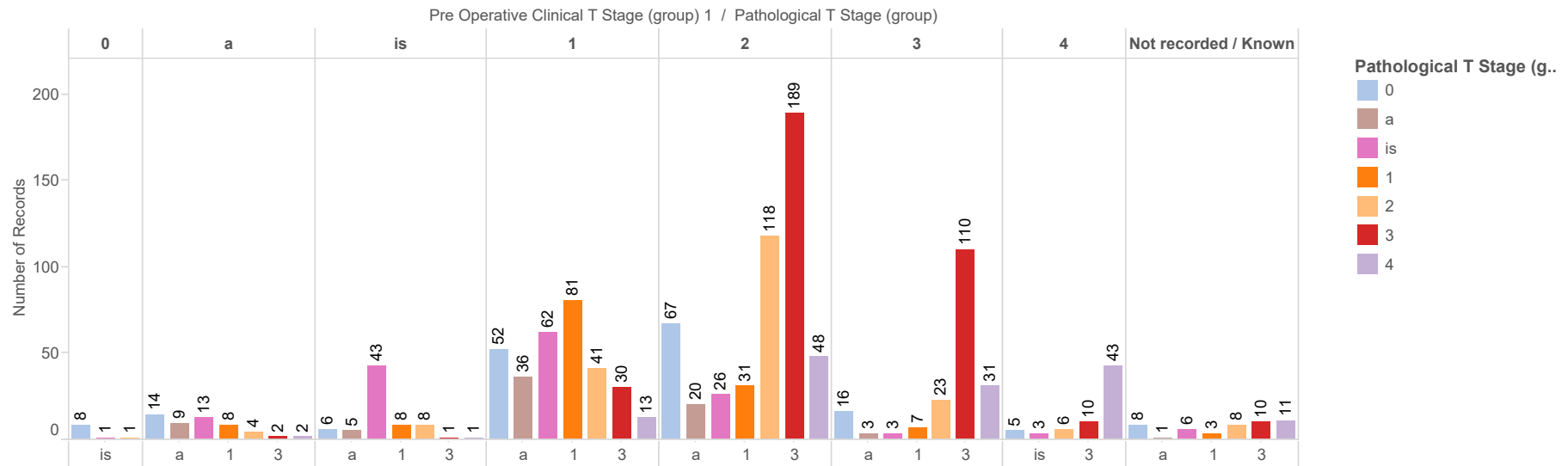
## Status Upper Tracts

Status Upper Tracts	N	% Total
Normal	1,031	64.4%
Unilateral hydronephrosis	215	13.4%
Bilateral hydronephrosis	70	4.4%
TCC	23	1.4%
RCC	4	0.2%
Single functioning kidney	12	0.7%
Other	38	2.4%
Not recorded	208	13.0%
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>

## Pre-operative CT stage



## Comparison Clinical T stage with Pathological T stage



### Operating Surgeon

Grade Of Main Surgeon	Supervised Training Operation	N	% Total
Consultant	Yes	438	27.4%
	No	809	50.5%
	Not recorded	254	15.9%
	<b>Total</b>	<b>1,501</b>	<b>93.8%</b>
SpR	Yes	61	3.8%
	<b>Total</b>	<b>61</b>	<b>3.8%</b>
Other	No	2	0.1%
	<b>Total</b>	<b>2</b>	<b>0.1%</b>
Not recorded	Yes	1	0.1%
	No	14	0.9%
	Not recorded	22	1.4%
	<b>Total</b>	<b>37</b>	<b>2.3%</b>
<b>Grand Total</b>		<b>1,601</b>	<b>100.0%</b>

### Diversion Procedure

Diversion Procedure	Technique											
	Open		Laparoscopic		Robotic		Minimally Invasive NOS		Not recorded		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
Continent cutaneous	16	1.5%	2	1.4%	2	0.9%	1	3.6%			21	1.3%
Ileal conduit	946	86.5%	136	93.2%	199	85.8%	21	75.0%	22	21.8%	1,324	82.7%
Orthotopic	64	5.9%	5	3.4%	25	10.8%	1	3.6%	1	1.0%	96	6.0%
Rectal diversion	3	0.3%			1	0.4%	2	7.1%			6	0.4%
Other	2	0.2%	1	0.7%							3	0.2%
Not recorded	63	5.8%	2	1.4%	5	2.2%	3	10.7%	78	77.2%	151	9.4%
<b>Grand Total</b>	<b>1,094</b>	<b>100.0%</b>	<b>146</b>	<b>100.0%</b>	<b>232</b>	<b>100.0%</b>	<b>28</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>1,601</b>	<b>100.0%</b>

### Joint Operating Cases

Grade Of Main Surgeon	Joint Operating Case	N	% Total
Consultant	Yes	364	22.7%
	No	1,137	71.0%
	<b>Total</b>	<b>1,501</b>	<b>93.8%</b>
SpR	Yes	1	0.1%
	No	60	3.7%
	<b>Total</b>	<b>61</b>	<b>3.8%</b>
Other	No	2	0.1%
	<b>Total</b>	<b>2</b>	<b>0.1%</b>
Not recorded	Yes	3	0.2%
	No	34	2.1%
	<b>Total</b>	<b>37</b>	<b>2.3%</b>
<b>Grand Total</b>		<b>1,601</b>	<b>100.0%</b>

### Conversions

Technique	Converted							
	No		Yes		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%
Laparoscopic	142	97.3%	3	2.1%	1	0.7%	146	100.0%
Robotic	229	98.7%	3	1.3%			232	100.0%
Minimally Invasi..	24	85.7%	2	7.1%	2	7.1%	28	100.0%
<b>Grand Total</b>	<b>395</b>	<b>97.3%</b>	<b>8</b>	<b>2.0%</b>	<b>3</b>	<b>0.7%</b>	<b>406</b>	<b>100.0%</b>

### Conversion Reasons

Technique	Conversion Reason	N	%
Laparoscopic	Failure to progress	1	100.0%
	Lack of progress	1	100.0%
	tolerential bleeding	1	100.0%
Robotic	ADHERENT SIGMOID COLON TO ABDOMINAL WALL	1	100.0%
	Large bladder tumour	1	100.0%
	Mass filled entire pelvis	1	100.0%
Minimally Invasive NOS	Difficult views	1	100.0%
	Not recorded	1	100.0%
<b>Grand Total</b>		<b>8</b>	<b>100.0%</b>

## Duration of Operation

Technique	Duration Of Operation (group)									
	<3 hours		3-5 hours		>5 hours		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%	N	%
Open	100	9.1%	523	47.8%	377	34.5%	94	8.6%	1,094	100.0%
Robotic	6	2.6%	115	49.6%	90	38.8%	21	9.1%	232	100.0%
Laparoscopic	3	2.1%	98	67.1%	41	28.1%	4	2.7%	146	100.0%
Not recorded	1	1.0%	8	7.9%	7	6.9%	85	84.2%	101	100.0%
Minimally Invasive NOS			5	17.9%	15	53.6%	8	28.6%	28	100.0%
<b>Grand Total</b>	110	6.9%	749	46.8%	530	33.1%	212	13.2%	1,601	100.0%

## Blood Loss

Technique	Measured Blood Loss													
	<300 ml		300-500 ml		500-1000 ml		1000-2000 ml		>2000 ml		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Open	112	10.2%	226	20.7%	351	32.1%	181	16.5%	58	5.3%	166	15.2%	1,094	100.0%
Laparoscopic	54	37.0%	44	30.1%	34	23.3%	5	3.4%	1	0.7%	8	5.5%	146	100.0%
Robotic	96	41.4%	76	32.8%	34	14.7%	4	1.7%	3	1.3%	19	8.2%	232	100.0%
Minimally In..	4	14.3%	5	17.9%	1	3.6%					18	64.3%	28	100.0%
Not recorded	2	2.0%	3	3.0%	2	2.0%	4	4.0%			90	89.1%	101	100.0%
<b>Grand Total</b>	268	16.7%	354	22.1%	422	26.4%	194	12.1%	62	3.9%	301	18.8%	1,601	100.0%

## Transfusions

Technique	Units Of Blood Transfused During This Surgical Admission											
	Nil		Minor (<2 units)		Moderate (3-6 units)		Major (>6 units)		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Open	661	60.4%	174	15.9%	79	7.2%	10	0.9%	170	15.5%	1,094	100.0%
Laparoscopic	121	82.9%	12	8.2%	1	0.7%	1	0.7%	11	7.5%	146	100.0%
Robotic	192	82.8%	19	8.2%	4	1.7%	1	0.4%	16	6.9%	232	100.0%
Minimally Invasive NOS	9	32.1%	1	3.6%					18	64.3%	28	100.0%
Not recorded	10	9.9%	4	4.0%					87	86.1%	101	100.0%
<b>Grand Total</b>	993	62.0%	210	13.1%	84	5.2%	12	0.7%	302	18.9%	1,601	100.0%

## Known Transfusion Rate

Technique	Transfusion			
	Yes		No	
	N	%	N	%
Open	263	28.5%	661	71.5%
Laparoscopic	14	10.4%	121	89.6%
Robotic	24	11.1%	192	88.9%
Minimally Invasive NOS	1	10.0%	9	90.0%
Not recorded	4	28.6%	10	71.4%
<b>Grand Total</b>	306	23.6%	993	76.4%



## Intraoperative Complications by Technique

Intra Operative Complications..	Technique									
	Open		Laparoscopic		Robotic		Minimally Invasive ..		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
None	843	77.1%	109	74.7%	198	85.3%	22	78.6%	1,172	78.1%
Adhesions	32	2.9%	1	0.7%	7	3.0%			40	2.7%
Difficult dissection	52	4.8%	12	8.2%	14	6.0%	1	3.6%	79	5.3%
Haemorrhage / Bleeding	78	7.1%	15	10.3%	6	2.6%			99	6.6%
Nerve injury	3	0.3%	1	0.7%					4	0.3%
Rectal Injury	12	1.1%	3	2.1%	1	0.4%			16	1.1%
Robotic device failure					1	0.4%			1	0.1%
Small bowel injury	2	0.2%							2	0.1%
Unresectable tumour	3	0.3%	1	0.7%	4	1.7%			8	0.5%
Vascular injury	1	0.1%			1	0.4%			2	0.1%
Not recorded	68	6.2%	4	2.7%			5	17.9%	77	5.1%
<b>Grand Total</b>	<b>1,094</b>	<b>100.0%</b>	<b>146</b>	<b>100.0%</b>	<b>232</b>	<b>100.0%</b>	<b>28</b>	<b>100.0%</b>	<b>1,500</b>	<b>100.0%</b>

## Postoperative Complications by Technique

Post Operative Complications (..	Technique									
	Open		Laparoscopic		Robotic		Minimally Invasive ..		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
No Complication	593	54.2%	102	69.9%	128	55.2%	15	53.6%	838	55.9%
Anastomotic leak	7	0.6%	1	0.7%	3	1.3%	2	7.1%	13	0.9%
Bleeding/Haemorrhage	7	0.6%			3	1.3%			10	0.7%
Bowel obstruction	12	1.1%	4	2.7%	1	0.4%			17	1.1%
Chest Infection	44	4.0%	6	4.1%	6	2.6%	1	3.6%	57	3.8%
Intra-abdominal infection	32	2.9%	3	2.1%	12	5.2%	2	7.1%	49	3.3%
Lymphocoele	7	0.6%			2	0.9%			9	0.6%
MI	4	0.4%							4	0.3%
PE / DVT	6	0.5%			1	0.4%			7	0.5%
Prolonged ileus	100	9.1%	14	9.6%	19	8.2%			133	8.9%
Urine leak	14	1.3%	2	1.4%	1	0.4%			17	1.1%
Wound dehiscence / infection	66	6.0%	3	2.1%	3	1.3%			72	4.8%
Not recorded	202	18.5%	11	7.5%	53	22.8%	8	28.6%	274	18.3%
<b>Grand Total</b>	<b>1,094</b>	<b>100.0%</b>	<b>146</b>	<b>100.0%</b>	<b>232</b>	<b>100.0%</b>	<b>28</b>	<b>100.0%</b>	<b>1,500</b>	<b>100.0%</b>

## Post-operative complication rate

Post Operative Complications (group)

Technique	Complication		No Complication		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%
Open	299	27.3%	593	54.2%	202	18.5%	1,094	100.0%
Laparoscopic	33	22.6%	102	69.9%	11	7.5%	146	100.0%
Robotic	51	22.0%	128	55.2%	53	22.8%	232	100.0%
Minimally Invasive NOS	5	17.9%	15	53.6%	8	28.6%	28	100.0%
<b>Grand Total</b>	<b>388</b>	<b>25.9%</b>	<b>838</b>	<b>55.9%</b>	<b>274</b>	<b>18.3%</b>	<b>1,500</b>	<b>100.0%</b>

## Clavien Dindo Grade of Post operative complications

Clavien Dindo Grade Of Complications

Technique	Grade I		Grade II		Grade IIIa		Grade IIIb		Grade IVa		Grade IVb		Grade V		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Open	61	20.4%	114	38.1%	29	9.7%	34	11.4%	16	5.4%	4	1.3%	8	2.7%	33	11.0%	299	100.0%
Laparoscopic	6	18.2%	17	51.5%	1	3.0%	7	21.2%					1	3.0%	1	3.0%	33	100.0%
Robotic	9	17.6%	22	43.1%	8	15.7%	4	7.8%	3	5.9%			2	3.9%	3	5.9%	51	100.0%
Minimally Invasive NOS											1	20.0%	1	20.0%	3	60.0%	5	100.0%
Not recorded															6	100.0%	6	100.0%
<b>Grand Total</b>	<b>76</b>	<b>19.3%</b>	<b>153</b>	<b>38.8%</b>	<b>38</b>	<b>9.6%</b>	<b>45</b>	<b>11.4%</b>	<b>19</b>	<b>4.8%</b>	<b>5</b>	<b>1.3%</b>	<b>12</b>	<b>3.0%</b>	<b>46</b>	<b>11.7%</b>	<b>394</b>	<b>100.0%</b>

## Known CD IIIplus complication rate

CDGradeIIIplus

Technique	Yes		No		Grand Total	
	N	%	N	%	N	%
Open	95	10.9%	775	89.1%	870	100.0%
Laparoscopic	9	6.6%	127	93.4%	136	100.0%
Robotic	18	9.9%	164	90.1%	182	100.0%
Minimally Invasive NOS	2	11.8%	15	88.2%	17	100.0%
<b>Grand Total</b>	<b>124</b>	<b>10.3%</b>	<b>1,081</b>	<b>89.7%</b>	<b>1,205</b>	<b>100.0%</b>

## Total by LOS

Technique	N	% Total	Median Length Of Stay	Min. Length Of Stay	Max. Length Of Stay
Open	1,094	68.3%	12	0	379
Laparoscopic	146	9.1%	8	1	281
Robotic	232	14.5%	8	1	90
Minimally Invasive NOS	28	1.7%	8	2	27
Not recorded	101	6.3%	12	1	68
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>	<b>11</b>	<b>0</b>	<b>379</b>

## 30 day mortality

Technique	Thirty Day Mortality							
	Yes		No		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%
Open	11	1.0%	741	67.7%	342	31.3%	1,094	100.0%
Laparoscopic	2	1.4%	97	66.4%	47	32.2%	146	100.0%
Robotic	2	0.9%	166	71.6%	64	27.6%	232	100.0%
Minimally Invasive NOS	1	3.6%	18	64.3%	9	32.1%	28	100.0%
Not recorded			20	19.8%	81	80.2%	101	100.0%
<b>Grand Total</b>	<b>16</b>	<b>1.0%</b>	<b>1,042</b>	<b>65.1%</b>	<b>543</b>	<b>33.9%</b>	<b>1,601</b>	<b>100.0%</b>

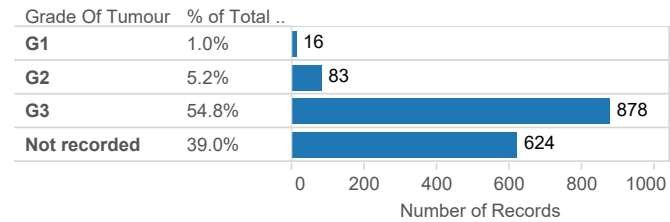
## 90 day mortality

Technique	Ninety Day Mortality							
	Yes		No		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%
Open	20	1.8%	627	57.3%	447	40.9%	1,094	100.0%
Laparoscopic	1	0.7%	88	60.3%	57	39.0%	146	100.0%
Robotic	7	3.0%	119	51.3%	106	45.7%	232	100.0%
Minimally Invasive NOS	1	3.6%	10	35.7%	17	60.7%	28	100.0%
Not recorded			17	16.8%	84	83.2%	101	100.0%
<b>Grand Total</b>	<b>29</b>	<b>1.8%</b>	<b>861</b>	<b>53.8%</b>	<b>711</b>	<b>44.4%</b>	<b>1,601</b>	<b>100.0%</b>

## Operative Histology

Operative Histology	N	% Total
No cancer	206	12.9%
Gynaecological cancer	12	0.7%
Primary adenocarcinoma	26	1.6%
Primary CIS	109	6.8%
Primary CIS,Other	1	0.1%
Primary CIS,Primary adenocarcinoma,..	1	0.1%
Radiation change only	6	0.4%
Sarcoma	16	1.0%
Secondary adenocarcinoma	9	0.6%
Squamous cell carcinoma	71	4.4%
TCC	771	48.2%
TCC,Other	12	0.7%
TCC,Primary CIS	3	0.2%
TCC,Primary CIS,Other	1	0.1%
Other	93	5.8%
Not recorded	264	16.5%
<b>Grand Total</b>	<b>1,601</b>	<b>100.0%</b>

## Grade of Tumour



## Lymph nodes

Lymph Nodes Sampled	None		1 - 5		6-10		11-20		21-30		Not recorded		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
1 - 5	84	9.7%	19	10.4%			2	20.0%			14	24.1%	119	10.5%
6-10	214	24.7%	44	24.2%	4	20.0%					19	32.8%	281	24.7%
11-20	388	44.9%	78	42.9%	7	35.0%	3	30.0%			21	36.2%	497	43.7%
21-30	129	14.9%	29	15.9%	6	30.0%	3	30.0%	1	50.0%	3	5.2%	171	15.0%
>30	50	5.8%	12	6.6%	3	15.0%	2	20.0%	1	50.0%	1	1.7%	69	6.1%
<b>Grand Total</b>	<b>865</b>	<b>100.0%</b>	<b>182</b>	<b>100.0%</b>	<b>20</b>	<b>100.0%</b>	<b>10</b>	<b>100.0%</b>	<b>2</b>	<b>100.0%</b>	<b>58</b>	<b>100.0%</b>	<b>1,137</b>	<b>100.0%</b>

### Known Positive Surgical Margin Rate

Technique	Positive Margins					
	Yes		No		Grand Total	
	N	%	N	%	N	%
Open	77	8.8%	802	91.2%	879	100.0%
Laparoscopic	8	6.5%	116	93.5%	124	100.0%
Robotic	16	9.3%	156	90.7%	172	100.0%
Minimally Invasive NOS	3	15.0%	17	85.0%	20	100.0%
<b>Grand Total</b>	104	8.7%	1,091	91.3%	1,195	100.0%

### Status at most recent Follow-up

Follow-up Current status	Follow-up Patient status	Time to follow up (group)									
		0-90		91 - 180		181 - 360		>360		Grand Total	
		N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
Alive with metastatic disease	Alive	1	0.8%	2	2.8%					3	1.2%
Alive with no evidence of bladder cancer	Alive	6	5.0%	3	4.2%	3	5.5%	1	7.1%	13	5.0%
Not recorded / applicable	Alive	111	93.3%	64	88.9%	49	89.1%	13	92.9%	237	91.2%
	Died in followup	1	0.8%	3	4.2%	3	5.5%			7	2.7%
<b>Grand Total</b>		119	100.0%	72	100.0%	55	100.0%	14	100.0%	260	100.0%

## Participating Hospital Centres 2014

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

Addenbrooke's Hospital, Cambridge  
Alexandra Hospital, Redditch  
Arrove Park Hospital, Wirral  
Barking, Havering And Redbridge University Hospital  
Belfast City Hospital  
Bradford Royal Infirmary  
Bristol Oncology Centre  
Burnley General Hospital  
Castle Hill Hospital, Hull  
Cheltenham General Hospital  
Churchill Hospital, Oxford  
Colchester General Hospital  
Darent Valley Hospital, Kent  
Derriford Hospital, Plymouth  
Eastbourne District General Hospital  
Freeman Hospital, Newcastle  
Gartnavel General Hospital, Glasgow  
Guy's & Thomas's Hospital  
Heartlands Hospital, Birmingham  
Imperial College Healthcare NHS Trust  
Kent and Canterbury Hospital

Leicester General Hospital  
Lincoln County Hospital  
Maidstone Hospital  
Medway Maritime Hospital, Gillingham  
Morrison Hospital, Swansea  
Musgrove Park Hospital, Taunton  
New Cross Hospital, Wolverhampton  
Norfolk And Norwich University Hospital  
Northampton General Hospital  
Nottingham City Hospital  
Pinderfields General Hospital, Wakefield  
Queen Alexandra Hospital, Portsmouth  
Queen Elizabeth Hospital, Birmingham  
Royal Alexandra Hospital, Paisley  
Royal Berkshire Hospital, Reading  
Royal Bournemouth General Hospital  
Royal Derby Hospital  
Royal Devon and Exeter Hospital  
Royal Hallamshire Hospital, Sheffield  
Royal Liverpool University Hospital  
Royal Marsden Hospital, London  
Royal Preston Hospital

Royal Surrey County Hospital, Guildford  
Royal Sussex County Hospital, Brighton  
Salford Royal Hospital  
Southampton General Hospital  
Southend Hospital  
Southmead Hospital, Bristol  
St George's Hospital, London  
St James's University Hospital, Leeds  
Stepping Hill Hospital, Stockport  
Stobhill Hospital, Glasgow  
Sunderland Royal Hospital  
The James Cook University Hospital, Middlesbrough  
University Hospital of North Staffordshire  
Victoria Hospital, Kirkcaldy  
Walsgrave Hospital, Coventry  
Wexham Park Hospital, Slough  
Wrexham Maelor Hospital  
Wycombe Hospital, High Wycombe  
Ysbyty Gwynedd Hospital, Bangor