

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

**Analyses of Radical Cystectomies performed between**

**January 1<sup>st</sup> and December 31<sup>st</sup> 2015**

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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 1<sup>st</sup> September 2016 and relate to operations performed during the whole of 2015. 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.

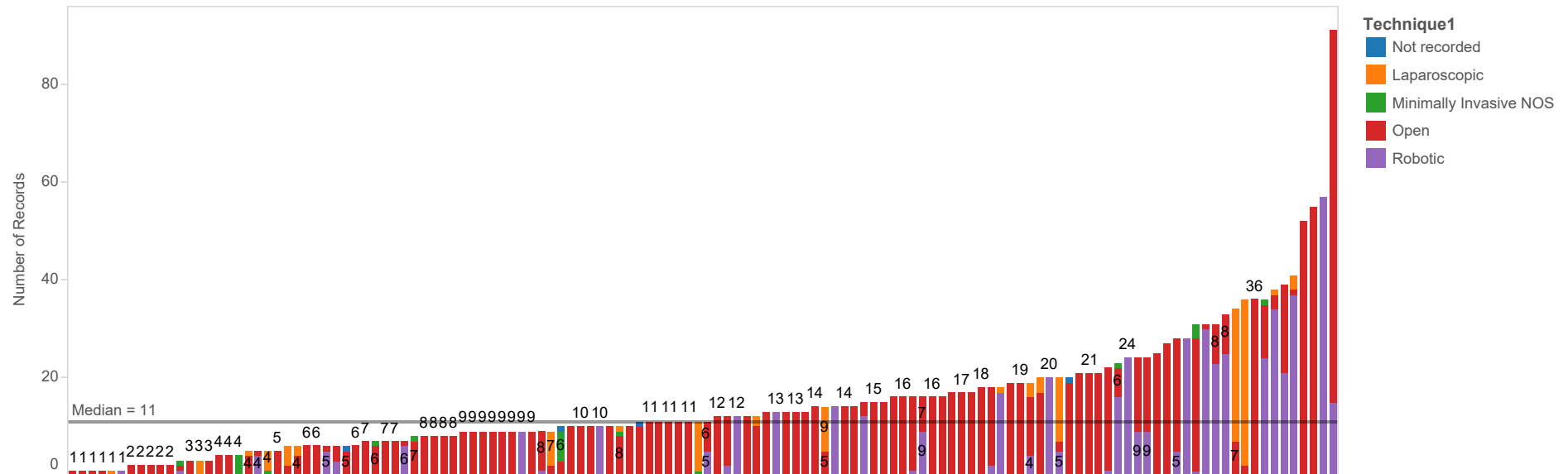
The data collection period was from 1 January 2015 to 31 December 2015.

- 1,948 cases were submitted in total, of which 1,770 were from England. The 1,948 cases came from 117 consultants at 61 sites and include 45 private patients from 15 consultants.
- Median number of cases per consultant: 11 (range 1 - 91)
- Median number of cases per centre: 22(range 1 - 101)
- The overall transfusion rate was 17.3% By technique, the transfusion rates were: open 23.1%, laparoscopic 6.0% and robotic 6.6%.
- The overall Clavien Dindo Grade III plus post-operative complication rate was 9.6%. (Open 10.3%, laparoscopic 7.7% and robotic 8.5%)
- Hospital Episode Statistics (HES) for 2015 indicate that there were 1,952 cystectomies undertaken so we collected data on 91% of the cases undertaken in England in 2015.

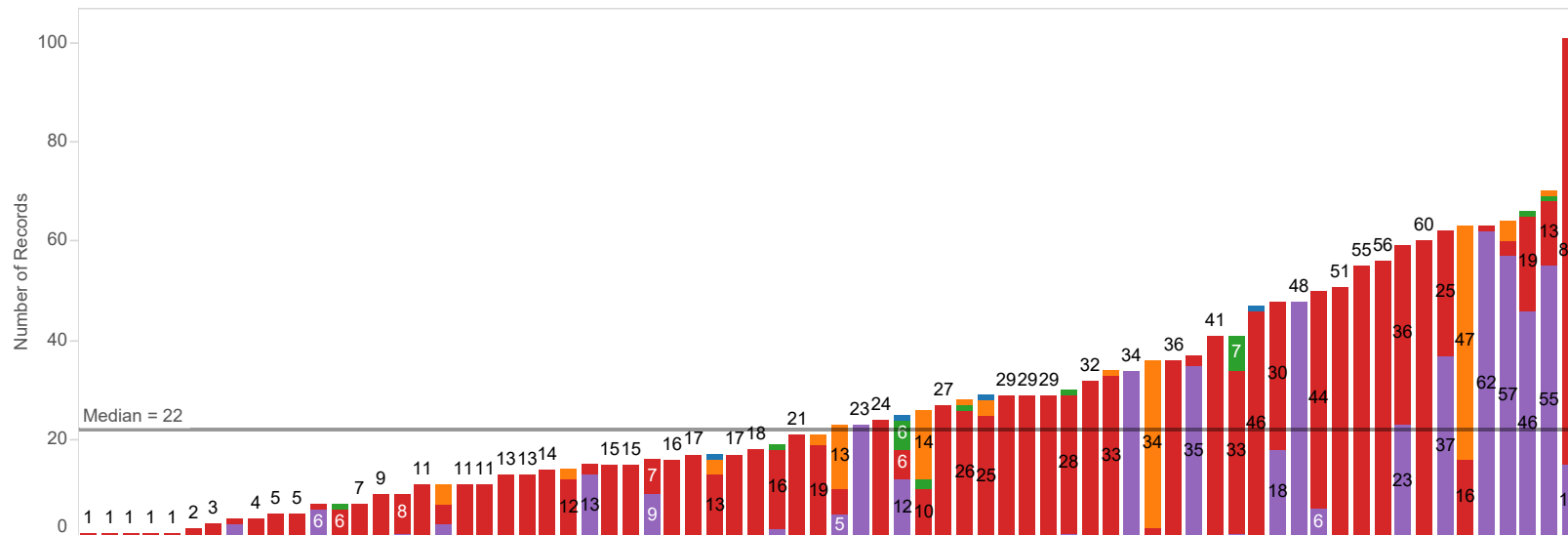
# Total returns for Radical Cystectomy procedures performed between 01/01/2015 and 31/12/2015

1948 cases from 130 consultants at 71 centres including 45 private cases from 15 consultants

Total by Consultant



Total by Centre



## Totals by Technique

Gender1	Technique1											
	Open		Robotic		Laparoscopic		Minimally Invasive NOS		Not recorded		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
Male	938	73.3%	415	80.6%	97	75.2%	17	81.0%	4	100.0%	1,471	75.5%
Female	341	26.7%	100	19.4%	32	24.8%	4	19.0%			477	24.5%
Grand Total	1,279	100.0%	515	100.0%	129	100.0%	21	100.0%	4	100.0%	1,948	100.0%

## Technique by Age

Technique1	N	Median	Min	Max
Open	1,279	69	0	100
Robotic	515	68	0	100
Laparoscopic	129	69	0	85
Minimally Invasive NOS	21	64	48	84
Not recorded	4	61	50	77

## Indication

Indication For Cystectomy	N	% Total
Muscle invasive TCC	889	45.6%
Primary NMIBC	226	11.6%
NMIBC refractory to intravesical treatment	321	16.5%
Primary adenocarcinoma	27	1.4%
Primary CIS	55	2.8%
Salvage after radiotherapy	52	2.7%
Sarcoma	21	1.1%
Squamous cell carcinoma	67	3.4%
Uncontrolled non-muscle invasive disease	7	0.4%
Benign disease	28	1.4%
Gynaecological cancer	16	0.8%
Secondary adenocarcinoma	18	0.9%
Other	107	5.5%
Not recorded	114	5.9%
Grand Total	1,948	100.0%

## Pre-op Imaging

Pre Operative Imaging (group)	N	% Total
CT	1,111	57.0%
CT +/- Bone scan, USS, MRI Others	602	30.9%
MRI	70	3.6%
MRI + others	14	0.7%
USS +/- Other	5	0.3%
None	59	3.0%
Other	1	0.1%
Not recorded	86	4.4%
Grand Total	1,948	100.0%

## Pre-operative Serum Egfr

Egfr Normal	Serum Egfr	N	% Total
Yes (>60)	40 - 60	1	0.1%
	not recorded / applicable	1,209	62.1%
	<b>Total</b>	1,210	62.1%
No	20 - 39	72	3.7%
	40 - 60	293	15.0%
	<20	20	1.0%
	not recorded / applicable	43	2.2%
	<b>Total</b>	428	22.0%
Not recorded	not recorded / applicable	310	15.9%
	<b>Total</b>	310	15.9%
Grand Total		1,948	100.0%

## Pre-op Serum Creatinine

Pre-op Serum Creat..	N	% Total
0 - 120	1,279	65.7%
121 - 200	229	11.8%
> 200	26	1.3%
Not recorded	414	21.3%
Grand Total	1,948	100.0%

## Status Upper Tracts

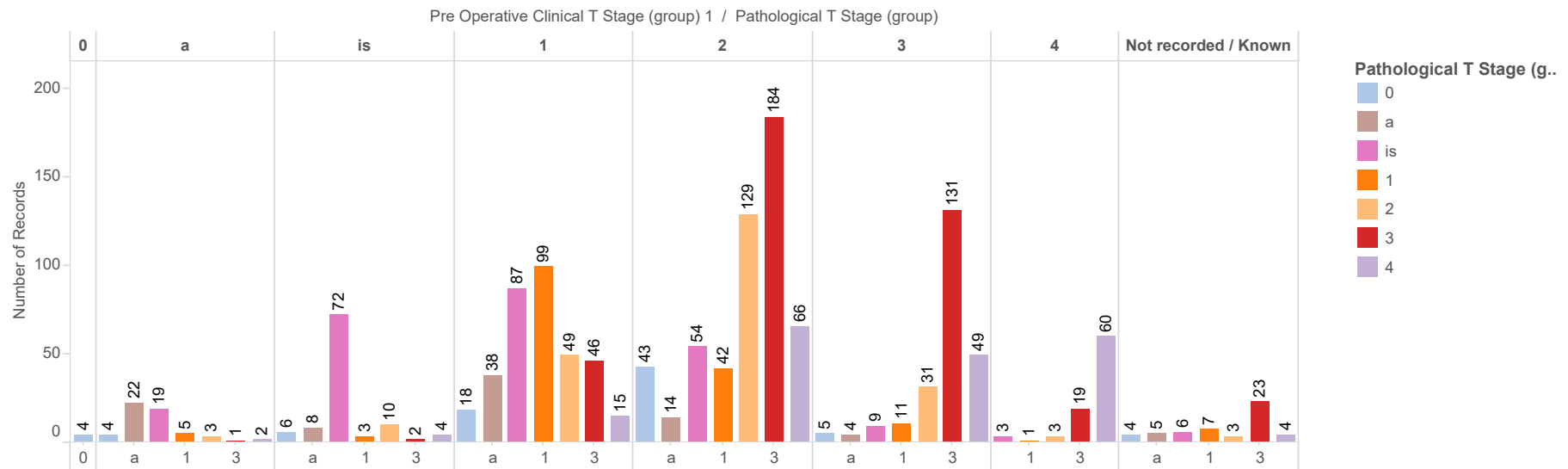
Status Upper Tracts	N	% Total
Normal	1,306	67.0%
Unilateral hydronephrosis	251	12.9%
Bilateral hydronephrosis	98	5.0%
TCC	21	1.1%
Other	27	1.4%
Single functioning kidney	49	2.5%
Not recorded	196	10.1%
<b>Grand Total</b>	<b>1,948</b>	<b>100.0%</b>

## Pre-operative CT stage

Pre Operative Clinical T Stage (group)	% of Total	Number of Records
0	0.8%	16
is	6.3%	122
a	4.5%	87
1	23.6%	460
2	26.0%	507
2a	4.7%	91
2b	4.4%	85
3	8.0%	155
3a	2.5%	48
3b	4.2%	81
4a	3.9%	75
4b	1.8%	35
Not recorded / Known	9.5%	186

Number of Records

## Comparison Clinical T stage with Pathological T stage



### Operating Surgeon

Grade Of Mai..	Supervised Training ..	N	% Total
<b>Consultant</b>	Yes	69	3.5%
	No	153	7.9%
	Not recorded	1,677	86.1%
	<b>Total</b>	1,899	97.5%
<b>SpR</b>	Yes	34	1.7%
	<b>Total</b>	34	1.7%
<b>Not recorded</b>	Not recorded	15	0.8%
	<b>Total</b>	15	0.8%
<b>Grand Total</b>		1,948	100.0%

### Diversion Procedure

Diversion Procedure	Technique1											
	Open		Robotic		Laparoscopic		Minimally Invasive NOS		Not recorded		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
<b>Continent cutaneous</b>	26	2.0%	4	0.8%			1	4.8%			31	1.6%
<b>Ileal conduit</b>	1,111	86.9%	459	89.1%	119	92.2%	11	52.4%	2	50.0%	1,702	87.4%
<b>Orthotopic</b>	64	5.0%	42	8.2%	2	1.6%					108	5.5%
<b>Rectal diversion</b>	1	0.1%									1	0.1%
<b>Other</b>	27	2.1%	9	1.7%	4	3.1%	1	4.8%			41	2.1%
<b>Not recorded</b>	50	3.9%	1	0.2%	4	3.1%	8	38.1%	2	50.0%	65	3.3%
<b>Grand Total</b>	1,279	100.0%	515	100.0%	129	100.0%	21	100.0%	4	100.0%	1,948	100.0%

### Joint Operating Cases

Grade Of Mai..	Joint Operating C..	N	% Total
<b>Consultant</b>	Yes	503	25.8%
	No	1,396	71.7%
	<b>Total</b>	1,899	97.5%
<b>SpR</b>	No	34	1.7%
	<b>Total</b>	34	1.7%
<b>Not recorded</b>	Yes	4	0.2%
	No	11	0.6%
	<b>Total</b>	15	0.8%
<b>Grand Total</b>		1,948	100.0%

### Time from Diagnosis to Cystectomy

Time Diagno..	N	% Total
<b>31 to 60</b>	5.0	1.0%
<b>61-90</b>	26.0	5.0%
<b>91-180</b>	122.0	23.4%
<b>181-360</b>	104.0	20.0%
<b>&gt;360</b>	264.0	50.7%
<b>Grand Total</b>	521.0	100.0%

### CPEX Testing

Cpex Testing	N	% Total
<b>Yes</b>	455	23.4%
<b>No</b>	1,209	62.1%
<b>Not recorded</b>	284	14.6%
<b>Grand Total</b>	1,948	100.0%

## Duration of Operation

Technique1	Duration Of Operation (group)									
	<3 hours		3-5 hours		>5 hours		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%	N	%
Open	135	10.6%	619	48.4%	427	33.4%	98	7.7%	1,279	100.0%
Robotic	28	5.4%	157	30.5%	294	57.1%	36	7.0%	515	100.0%
Laparoscopic	6	4.7%	84	65.1%	26	20.2%	13	10.1%	129	100.0%
Minimally Invasive NOS	2	9.5%	3	14.3%	5	23.8%	11	52.4%	21	100.0%
Not recorded	1	25.0%	2	50.0%			1	25.0%	4	100.0%
Grand Total	172	8.8%	865	44.4%	752	38.6%	159	8.2%	1,948	100.0%

## Blood Loss

Technique1	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	161	12.6%	337	26.3%	376	29.4%	193	15.1%	44	3.4%	168	13.1%	1,279	100.0%
Robotic	311	60.4%	113	21.9%	47	9.1%	10	1.9%	1	0.2%	33	6.4%	515	100.0%
Laparoscopic	74	57.4%	30	23.3%	14	10.9%	2	1.6%			9	7.0%	129	100.0%
Minimally In..	9	42.9%	1	4.8%	1	4.8%					10	47.6%	21	100.0%
Not recorded			1	25.0%			2	50.0%			1	25.0%	4	100.0%
Grand Total	555	28.5%	482	24.7%	438	22.5%	207	10.6%	45	2.3%	221	11.3%	1,948	100.0%

## Transfusions

Technique1	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	864	67.6%	181	14.2%	66	5.2%	13	1.0%	155	12.1%	1,279	100.0%
Robotic	464	90.1%	28	5.4%	5	1.0%			18	3.5%	515	100.0%
Laparoscopic	109	84.5%	6	4.7%	1	0.8%			13	10.1%	129	100.0%
Minimally In..	4	19.0%							17	81.0%	21	100.0%
Not recorded	2	50.0%	1	25.0%					1	25.0%	4	100.0%
Grand Total	1,443	74.1%	216	11.1%	72	3.7%	13	0.7%	204	10.5%	1,948	100.0%

## Known Transfusion Rate

Technique1	Transfusion			
	Yes		No	
	N	%	N	%
Open	260	23.1%	864	76.9%
Robotic	33	6.6%	464	93.4%
Laparoscopic	7	6.0%	109	94.0%
Minimally Invasive..			4	100.0%
Not recorded	1	33.3%	2	66.7%
Grand Total	301	17.3%	1,443	82.7%



## Intraoperative Complications by Technique

Intra Operative Complications ..	Technique1											
	Open		Robotic		Laparoscopic		Minimally Invasiv..		Not recorded		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
None	1,014	79.3%	462	89.7%	105	81.4%	11	52.4%	2	50.0%	1,594	81.8%
Adhesions	57	4.5%	15	2.9%	1	0.8%					73	3.7%
Difficult dissection	51	4.0%	13	2.5%	5	3.9%					69	3.5%
Haemorrhage / Bleeding	51	4.0%	1	0.2%	9	7.0%			1	25.0%	62	3.2%
Nerve injury	1	0.1%									1	0.1%
Rectal Injury	17	1.3%			1	0.8%					18	0.9%
Small bowel injury	3	0.2%	1	0.2%							4	0.2%
Unresectable tumour	14	1.1%	4	0.8%	2	1.6%					20	1.0%
Vascular injury	4	0.3%	2	0.4%							6	0.3%
Port complications			1	0.2%							1	0.1%
Not recorded	67	5.2%	16	3.1%	6	4.7%	10	47.6%	1	25.0%	100	5.1%
<b>Grand Total</b>	<b>1,279</b>	<b>100.0%</b>	<b>515</b>	<b>100.0%</b>	<b>129</b>	<b>100.0%</b>	<b>21</b>	<b>100.0%</b>	<b>4</b>	<b>100.0%</b>	<b>1,948</b>	<b>100.0%</b>

## Postoperative Complications by Technique

Post Operative Complications (gro..	Technique1											
	Open		Laparoscopic		Robotic		Minimally Invasive NOS		Not recorded		Grand Total	
	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total	N	% Total
No Complications	768	60.0%	85	65.9%	345	67.0%	10	47.6%	1	25.0%	1,209	62.1%
Anastomotic leak	8	0.6%	2	1.6%	2	0.4%					12	0.6%
Bleeding/Haemorrhage	7	0.5%	1	0.8%	1	0.2%					9	0.5%
Bowel obstruction	10	0.8%	2	1.6%	7	1.4%					19	1.0%
Chest Infection +/- Others	71	5.6%	7	5.4%	17	3.3%	1	4.8%			96	4.9%
Intra-abdominal infection +/- others	38	3.0%	1	0.8%	18	3.5%					57	2.9%
Lymphocele	2	0.2%			2	0.4%					4	0.2%
MI	6	0.5%									6	0.3%
PE / DVT	6	0.5%									6	0.3%
Prolonged ileus +/- others	104	8.1%	13	10.1%	52	10.1%					169	8.7%
Urine leak	11	0.9%	2	1.6%	5	1.0%	1	4.8%			19	1.0%
Wound infection / dehiscence	94	7.3%	4	3.1%	9	1.7%					107	5.5%
Bowel obstruction,MI	1	0.1%									1	0.1%
Chest infection,Prolonged ileus,Ur..					1	0.2%					1	0.1%
Intra-abdominal infection,Prolong..	1	0.1%									1	0.1%
Not recorded	152	11.9%	12	9.3%	56	10.9%	9	42.9%	3	75.0%	232	11.9%
<b>Grand Total</b>	<b>1,279</b>	<b>100.0%</b>	<b>129</b>	<b>100.0%</b>	<b>515</b>	<b>100.0%</b>	<b>21</b>	<b>100.0%</b>	<b>4</b>	<b>100.0%</b>	<b>1,948</b>	<b>100.0%</b>

## Post-operative complication rate

Post Operative Complications (group)

Technique1	Complication		No Complication		Not recorded		Grand Total	
	N	%	N	%	N	%	N	%
Open	359	28.1%	768	60.0%	152	11.9%	1,279	100.0%
Robotic	114	22.1%	345	67.0%	56	10.9%	515	100.0%
Laparoscopic	32	24.8%	85	65.9%	12	9.3%	129	100.0%
Minimally Invasi..	2	9.5%	10	47.6%	9	42.9%	21	100.0%
Not recorded			1	25.0%	3	75.0%	4	100.0%
Grand Total	507	26.0%	1,209	62.1%	232	11.9%	1,948	100.0%

## Clavien Dindo Grade of Post operative complications

Clavien Dindo Grade Of Complications

Technique1	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	72	20.1%	153	42.6%	39	10.9%	55	15.3%	11	3.1%	5	1.4%	6	1.7%	18	5.0%	359	100.0%
Robotic	32	28.1%	43	37.7%	10	8.8%	16	14.0%	4	3.5%	3	2.6%	5	4.4%	1	0.9%	114	100.0%
Laparoscopic	12	37.5%	9	28.1%	3	9.4%	3	9.4%	1	3.1%			2	6.3%	2	6.3%	32	100.0%
Minimally In..															2	100.0%	2	100.0%
Grand Total	116	22.9%	205	40.4%	52	10.3%	74	14.6%	16	3.2%	8	1.6%	13	2.6%	23	4.5%	507	100.0%

## Known CD IIIplus complication rate

Clavien Dindo Grade Of Complications (group)

Technique1	Grade I & Grade II		Grade III plus		Grand Total	
	N	%	N	%	N	%
Open	228	20.2%	116	10.3%	1,127	100.0%
Robotic	76	16.6%	39	8.5%	459	100.0%
Laparoscopic	22	18.8%	9	7.7%	117	100.0%
Minimally Invasive NOS	1	8.3%			12	100.0%
Not recorded	1	100.0%			1	100.0%
Grand Total	328	19.1%	164	9.6%	1,716	100.0%

## Total by LOS

Technique1	N	Median LOS	Min LOS	Max LOS
Open	1,279	11	1	248
Robotic	515	7	1	93
Laparoscopic	129	9	1	88
Minimally Invasive NOS	21	6	2	32
Not recorded	4	7	7	7
<b>Grand Total</b>	<b>1,948</b>	<b>10</b>	<b>1</b>	<b>248</b>

## 30 day mortality

Technique1	Thirty Day Mortality (group)					
	Yes		No		Grand Total	
	N	%	N	%	N	%
Open	21	1.64%	1,258	98.36%	1,279	100.00%
Robotic	6	1.17%	509	98.83%	515	100.00%
Laparoscopic	2	1.55%	127	98.45%	129	100.00%
Minimally Invasive NOS			21	100.00%	21	100.00%
Not recorded			4	100.00%	4	100.00%
<b>Grand Total</b>	<b>29</b>	<b>1.49%</b>	<b>1,919</b>	<b>98.51%</b>	<b>1,948</b>	<b>100.00%</b>

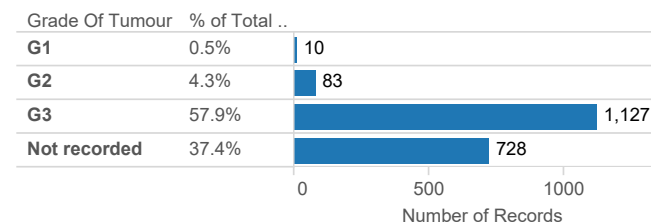
## cumulative 90 day mortality

Technique1	Ninety Day Mortality (group)					
	Yes		No		Grand Total	
	N	%	N	%	N	%
Open	33	2.58%	1,246	97.42%	1,279	100.00%
Robotic	9	1.75%	506	98.25%	515	100.00%
Laparoscopic	5	3.88%	124	96.12%	129	100.00%
Minimally Invasive NOS			21	100.00%	21	100.00%
Not recorded			4	100.00%	4	100.00%
<b>Grand Total</b>	<b>47</b>	<b>2.41%</b>	<b>1,901</b>	<b>97.59%</b>	<b>1,948</b>	<b>100.00%</b>

## EnhancedRecovery

Technique1	Enhanced Recovery Pathway						Grand Total	
	Yes		No		Not recorded			
	N	%	N	%	N	%	N	%
Open	878	68.6%	224	17.5%	177	13.8%	1,279	100.0%
Robotic	406	78.8%	56	10.9%	53	10.3%	515	100.0%
Laparoscopic	110	85.3%	6	4.7%	13	10.1%	129	100.0%
Minimally Invasive NOS	3	14.3%	5	23.8%	13	61.9%	21	100.0%
Not recorded	3	75.0%			1	25.0%	4	100.0%
<b>Grand Total</b>	<b>1,400</b>	<b>71.9%</b>	<b>291</b>	<b>14.9%</b>	<b>257</b>	<b>13.2%</b>	<b>1,948</b>	<b>100.0%</b>

## Grade of Tumour



## Unplanned readmission

Technique1	Unplanned Readmission To Hospital						Grand Total	
	Yes		No		Not recorded			
	N	%	N	%	N	%	N	%
Open	123	9.6%	1,031	80.6%	125	9.8%	1,279	100.0%
Robotic	69	13.4%	391	75.9%	55	10.7%	515	100.0%
Laparoscopic	11	8.5%	105	81.4%	13	10.1%	129	100.0%
Minimally Invasive N..			13	61.9%	8	38.1%	21	100.0%
Not recorded			1	25.0%	3	75.0%	4	100.0%
<b>Grand Total</b>	<b>203</b>	<b>10.4%</b>	<b>1,541</b>	<b>79.1%</b>	<b>204</b>	<b>10.5%</b>	<b>1,948</b>	<b>100.0%</b>

## Operative Histology

Operative Histology	N	% Total
No cancer	256	13.1%
Gynaecological cancer	10	0.5%
Primary adenocarcinoma	31	1.6%
Primary CIS	151	7.8%
Primary CIS,Other	5	0.3%
Radiation change only	2	0.1%
Sarcoma	17	0.9%
Secondary adenocarcinoma	21	1.1%
Squamous cell carcinoma	69	3.5%
TCC	959	49.2%
TCC,Other	16	0.8%
TCC,Primary CIS	32	1.6%
Sarcoma,Other	2	0.1%
Squamous cell carcinoma,Gynaecologi..	4	0.2%
Squamous cell carcinoma,Sarcoma	1	0.1%
TCC,Primary adenocarcinoma	4	0.2%
TCC,Sarcoma	1	0.1%
TCC,Secondary adenocarcinoma	4	0.2%
TCC,Squamous cell carcinoma	5	0.3%
TCC,Squamous cell carcinoma,Sarcoma	1	0.1%
Other	125	6.4%
Not recorded	231	11.9%
Squamous cell carcinoma,Other	1	0.1%
<b>Grand Total</b>	<b>1,948</b>	<b>100.0%</b>

## Lymph nodes

Lymph Node..	Positive Lymph Nodes															
	None		1 - 5		6-10		11-20		21-30		Not recorded		>30		Grand Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 - 5	130	83.9%	24	15.5%							1	0.6%			155	100.0%
6-10	265	79.6%	58	17.4%	4	1.2%					6	1.8%			333	100.0%
11-20	522	80.4%	108	16.6%	13	2.0%	4	0.6%			2	0.3%			649	100.0%
21-30	173	75.5%	45	19.7%	6	2.6%	4	1.7%			1	0.4%			229	100.0%
>30	63	76.8%	14	17.1%	2	2.4%	1	1.2%	1	1.2%			1	1.2%	82	100.0%
<b>Grand Total</b>	<b>1,153</b>	<b>79.6%</b>	<b>249</b>	<b>17.2%</b>	<b>25</b>	<b>1.7%</b>	<b>9</b>	<b>0.6%</b>	<b>1</b>	<b>0.1%</b>	<b>10</b>	<b>0.7%</b>	<b>1</b>	<b>0.1%</b>	<b>1,448</b>	<b>100.0%</b>

## LNDlevel2

Lymph Node Dissection	N	% Total
Level I	270	18.6%
Level I,Level II	94	6.5%
Level II	799	55.2%
Level II,Level III	9	0.6%
Level III	178	12.3%
Level I,Level III	3	0.2%
None	36	2.5%
Not recorded	59	4.1%
<b>Grand Total</b>	<b>1,448</b>	<b>100.0%</b>

### Known Positive Surgical Margin Rate

Technique1	Positive Margins					
	Yes		No		Grand Total	
	N	%	N	%	N	%
Open	95	10.0%	854	90.0%	949	100.0%
Robotic	41	11.3%	323	88.7%	364	100.0%
Laparoscopic	9	8.5%	97	91.5%	106	100.0%
Minimally Invasive NOS	1	11.1%	8	88.9%	9	100.0%
Not recorded			1	100.0%	1	100.0%
<b>Grand Total</b>	146	10.2%	1,283	89.8%	1,429	100.0%

### Status at most recent Follow-up

Current Statusfu	Patient Statusfu	Time to Follow Up									
		0-90		91 - 180		181 - 360		> 360		Grand Total	
		N	%	N	%	N	%	N	%	N	%
Not recorded / applicable	Alive	9	25.0%	17	47.2%	9	25.0%	1	2.8%	36	100.0%
	Died in followup	13	22.0%	26	44.1%	17	28.8%	3	5.1%	59	100.0%
Alive with local recurrence of bladd..	Alive	4	28.6%	5	35.7%	3	21.4%	2	14.3%	14	100.0%
Alive with lymph node involvement ..	Alive	5	38.5%	4	30.8%	2	15.4%	2	15.4%	13	100.0%
Alive with metastatic disease	Alive	7	28.0%	7	28.0%	8	32.0%	3	12.0%	25	100.0%
Alive with no evidence of bladder c..	Alive	140	31.8%	118	26.8%	133	30.2%	46	10.5%	440	100.0%
<b>Grand Total</b>		178	30.3%	177	30.2%	172	29.3%	57	9.7%	587	100.0%

## Participating Hospital Centres 2015

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

Aberdeen Royal Infirmary	Lincoln County Hospital	Royal Marsden Hospital, London
Addenbrooke's Hospital, Cambridge	Lister Hospital, Stevenage	Royal Preston Hospital
Alexandra Hospital, Redditch	Manchester Royal Infirmary	Royal Shrewsbury Hospital
Arrowe Park Hospital, Wirral	Medway Maritime Hospital, Gillingham	Royal Stoke University Hospital
Barking, Havering And Redbridge University Hospital	Morrison Hospital, Swansea	Royal Surrey County Hospital, Guildford
Belfast City Hospital	New Cross Hospital, Wolverhampton	Royal Sussex County Hospital, Brighton
Bradford Royal Infirmary	Ninewells Hospital, Dundee	Salford Royal Hospital
Bristol Oncology Centre; United Bristol Health Care	Norfolk And Norwich University Hospital	Southampton General Hospital
Burnley General Hospital	Northwick Park Hospital	Southend Hospital
Castle Hill Hospital, Hull	Nottingham City Hospital	Southmead Hospital, Bristol
Charing Cross Hospital, London	Pinderfields General Hospital, Wakefield	St George's Hospital, London
Cheltenham General Hospital	Queen Alexandra Hospital, Portsmouth	St James's University Hospital, Leeds
Christie Hospital	Queen Elizabeth Hospital, Birmingham	Stepping Hill Hospital, Stockport
Churchill Hospital, Oxford	Raigmore Hospital, Inverness	Stobhill Hospital, Glasgow
Colchester General Hospital	Royal Blackburn Hospital	Sunderland Royal Hospital
Derriford Hospital, Plymouth	Royal Alexandra Hospital, Paisley	The James Cook University Hospital, Middlesbrough
Eastbourne District General Hospital	Royal Berkshire Hospital, Reading	University College Hospital, London
Forth Valley Royal Hospital, Larbert	Royal Bournemouth General Hospital	Walsgrave Hospital, Coventry
Freeman Hospital, Newcastle	Royal Derby Hospital	Western General Hospital, Edinburgh
Gartnavel General Hospital, Glasgow	Royal Devon and Exeter Hospital	Withington Community Hospital, Manchester
Guy's & Thomas's Hospital	Royal Free Hospital, London	Wycombe Hospital, High Wycombe
Kent and Canterbury Hospital	Royal Hallamshire Hospital, Sheffield	Wythenshawe Hospital, Manchester
Leicester General Hospital	Royal Liverpool University Hospital	Ysbyty Gwynedd Hospital, Bangor