

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

**Analyses of Radical Prostatectomies performed between**

**January 1<sup>st</sup> and December 31<sup>st</sup> 2019**

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## AUDIT RESULTS SUMMARY – Radical Prostatectomy dataset

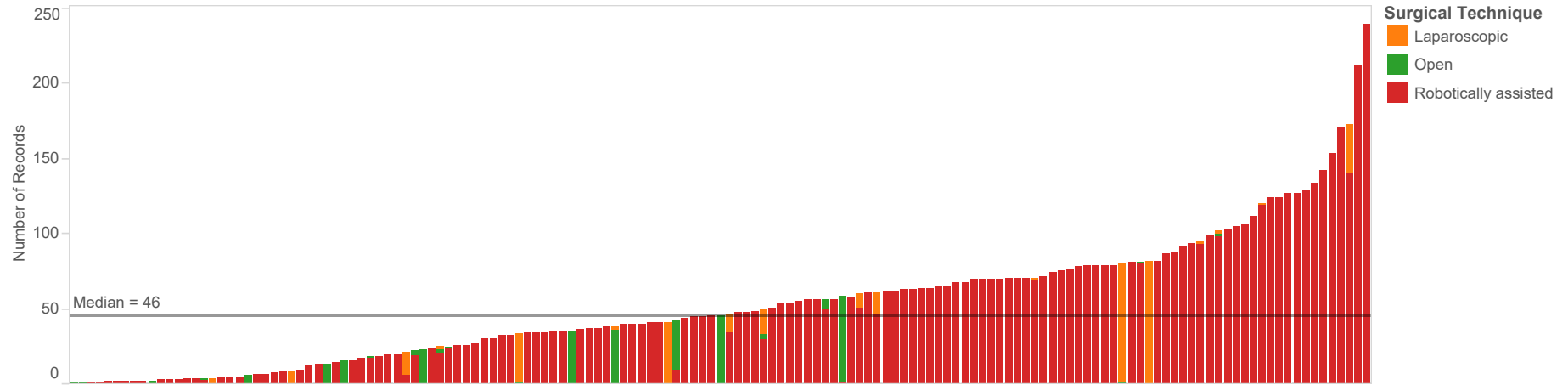
All the data presented here are a summary of the data extracted from the web-based database on 30<sup>th</sup> June 2020 and relate to operations performed during the whole of 2019. Once extracted the data was transferred to an Access™ database for validation before being imported into Tableau™ for generation 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 2019 to 31 December 2019.

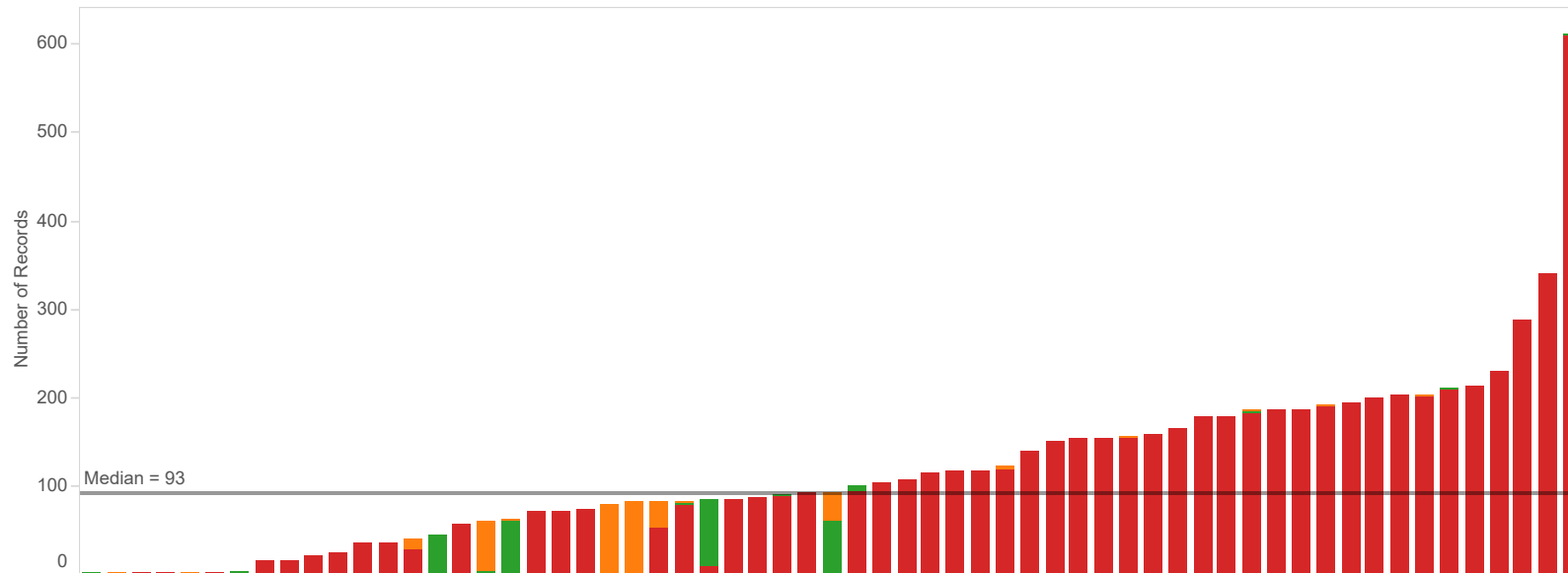
- 7,913 cases were submitted in total, of which 7,298 were from England (6,587 NHS funded); these 7,913 cases came from 149 consultants at 61 NHS sites and include 754 private patients from 67 consultants.
- Median number of cases per consultant: 46 (range 1 - 240)
- Median number of cases per centre: 93 (range 1 - 611)
- The overall transfusion rate was 0.2%. By technique, the transfusion rates were: open 0.0%, laparoscopic 0.3% and robotic 0.17%.
- 7,160 of the entries recorded whether there had been adverse post operative events. The total post-operative complication rate was **6.6%** (469/7160). Of these 469 cases, 467 recorded the Clavien Dindo grade (i.e. 2 or 0.4% did not). Complications classified as Clavien Dindo Grade III or above were seen in **1.3%** of cases.
- Hospital Episode Statistics (HES) for 2019 indicate that there were 7,935 radical prostatectomies undertaken in England so we collected data on 83% of the NHS funded radical prostatectomies undertaken in England during 2019.
- **It is also important to note that as a result of the COVID-19 crisis some surgeons and units may have been unable to submit all or any of their 2019 data.**

# 2019 Radical Prostatectomies -7,913 cases reported by 149 consultants at 61 NHS sites (including 754 private cases from 67 consultants)

Total by Consultant



Total by Centre



### Reason for Prostatectomy

Reason For Prostatectomy	Number of Records	% of Total Number of Recor..
Primary treatment of cancer	6,403	80.92%
Previous active surveillance	816	10.31%
Salvage therapy	84	1.06%
Not recorded	610	7.71%
<b>Grand Total</b>	<b>7,913</b>	<b>100.00%</b>

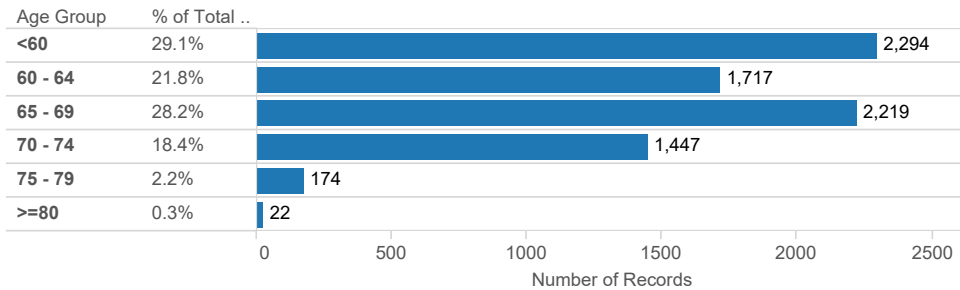
### Reason if Previous Active surveillance

If Previous Active Surveillan..	Number ..	% of Tot..
Clinical progression	84	10.3%
Clinical progression + Other	62	7.6%
Gleason progression	209	25.6%
Gleason progression + Other	81	9.9%
PSA progression	222	27.2%
PSA progression +/- other	19	2.3%
Patient decision	99	12.1%
Not recorded	40	4.9%
<b>Grand Total</b>	<b>816</b>	<b>100.0%</b>

### Previous Management

Previous Management	Number of Records	% of Total Number of Recor..
None	6,822	86.21%
Brachytherapy	13	0.16%
HIFU	30	0.38%
Radiotherapy	37	0.47%
TURP	50	0.63%
Cryotherapy	7	0.09%
Hormonal suppression ther..	71	0.90%
Not recorded	883	11.16%
<b>Grand Total</b>	<b>7,913</b>	<b>100.00%</b>

### Age



### Surgical Technique

Surgical Technique	Number of Records	% of Total Number of Recor..
Open	290	3.66%
Laparoscopic	357	4.51%
Robotically assisted	7,266	91.82%
<b>Grand Total</b>	<b>7,913</b>	<b>100.00%</b>

### Median Age

Surgical Technique	Number of Records	Median Age	Min. Age	Max. Age
Open	279	66	41	75
Laparoscopic	351	64	41	75
Robotically assisted	7,133	64	40	75
<b>Grand Total</b>	<b>7,763</b>	<b>64</b>	<b>40</b>	<b>75</b>

### BMI

Surgical Technique	Underweight		Normal		Overweight		Obese		Not Recorded		Grand Total	
	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records
Open	0.34%	1	14.48%	42	39.66%	115	19.31%	56	26.21%	76	100.00%	290
Laparoscopic	0.28%	1	12.04%	43	33.89%	121	14.85%	53	38.94%	139	100.00%	357
Robotically assisted	1.29%	94	16.50%	1,199	41.38%	3,007	21.86%	1,588	18.97%	1,378	100.00%	7,266
<b>Grand Total</b>	<b>1.21%</b>	<b>96</b>	<b>16.23%</b>	<b>1,284</b>	<b>40.98%</b>	<b>3,243</b>	<b>21.45%</b>	<b>1,697</b>	<b>20.13%</b>	<b>1,593</b>	<b>100.00%</b>	<b>7,913</b>

### ASA Grade

Asa Grade	Number of Records	% of Total Number of Recor..
ASA 1	1,218	15.39%
ASA 2	5,371	67.88%
ASA 3	302	3.82%
ASA 4	3	0.04%
Not recorded	1,019	12.88%
<b>Grand Total</b>	<b>7,913</b>	<b>100.00%</b>

### Clinical T stage

Clinical T Stage (group) 1	Number of Records	% of Total Number of Recor..
0	12	0.15%
1	783	9.90%
2	4,876	61.62%
3	1,520	19.21%
4	5	0.06%
Not recorded/known	717	9.06%
<b>Grand Total</b>	<b>7,913</b>	<b>100.00%</b>

### Comparison of Clinical and Pathological T stage

Clinical T Stage (group) 1	Pathological T Stage (group) 1												Grand Total		
	0		1		2		3		4		Not recorded/ Kn..		% of Total	Number of Records	
	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	% of Total Numbe..	Number of Records	
0	8.33%	1			50.00%	6	16.67%	2				25.00%	3	100.00%	12
1	0.13%	1			58.88%	461	27.20%	213				13.79%	108	100.00%	783
2	0.08%	4	0.02%	1	55.29%	2,696	35.89%	1,750	0.06%	3		8.65%	422	100.00%	4,876
3	0.07%	1	0.07%	1	25.46%	387	65.07%	989	0.07%	1		9.28%	141	100.00%	1,520
4							80.00%	4				20.00%	1	100.00%	5
Not recorded..	0.28%	2	0.14%	1	34.59%	248	24.13%	173				40.86%	293	100.00%	717
<b>Grand Total</b>	<b>0.11%</b>	<b>9</b>	<b>0.04%</b>	<b>3</b>	<b>48.00%</b>	<b>3,798</b>	<b>39.57%</b>	<b>3,131</b>	<b>0.05%</b>	<b>4</b>		<b>12.23%</b>	<b>968</b>	<b>100.00%</b>	<b>7,913</b>

### Clinical Stage by Pre-op PSA

Clinical T Stage (group) 1	Pre-operative PSA										Grand Total	
	0-5		6-10		11-20		21-50		>50		Number of Reco..	% of Total N..
	Number of Reco..	% of Total N..	Number of Reco..	% of Total N..	Number of Reco..	% of Total N..	Number of Reco..	% of Total N..	Number of Reco..	% of Total N..	Number of Reco..	% of Total N..
0	2	16.7%	7	58.3%	3	25.0%					12	100.0%
1	204	26.2%	388	49.9%	157	20.2%	25	3.2%	4	0.5%	778	100.0%
2	1,108	23.0%	2,435	50.6%	1,038	21.6%	209	4.3%	19	0.4%	4,809	100.0%
3	235	15.7%	699	46.6%	391	26.1%	155	10.3%	20	1.3%	1,500	100.0%
4	1	20.0%			1	20.0%	2	40.0%	1	20.0%	5	100.0%
Not recorded/known	95	23.8%	205	51.4%	76	19.0%	23	5.8%			399	100.0%
<b>Grand Total</b>	<b>1,645</b>	<b>21.9%</b>	<b>3,734</b>	<b>49.8%</b>	<b>1,666</b>	<b>22.2%</b>	<b>414</b>	<b>5.5%</b>	<b>44</b>	<b>0.6%</b>	<b>7,503</b>	<b>100.0%</b>

### Median pre-operative PSA

Surgical Technique	Number of Records	% of Total Number of Recor..	Avg. Pre Operative Psa	Median Pre Operative..
Open	221	3.0%	9	8
Laparoscopic	324	4.4%	9	8
Robotically assisted	6,760	92.5%	9	7
<b>Grand Total</b>	<b>7,305</b>	<b>100.0%</b>	<b>9</b>	<b>7</b>

### Pathological Staging by Pre-op PSA

Pathological T Stage (group) 1	Pre-operative PSA										Grand Total	
	0-5		6-10		11-20		21-50		>50		Number of Records	% of Total Number ..
	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..
0	5	55.56%	1	11.11%	3	33.33%					9	100.00%
1			2	100.00%							2	100.00%
2	986	26.45%	1,923	51.58%	700	18.78%	111	2.98%	8	0.21%	3,728	100.00%
3	489	15.90%	1,471	47.82%	822	26.72%	263	8.55%	31	1.01%	3,076	100.00%
4			2	50.00%	1	25.00%			1	25.00%	4	100.00%
Not recorded/ Known	165	24.12%	335	48.98%	140	20.47%	40	5.85%	4	0.58%	684	100.00%
<b>Grand Total</b>	<b>1,645</b>	<b>21.92%</b>	<b>3,734</b>	<b>49.77%</b>	<b>1,666</b>	<b>22.20%</b>	<b>414</b>	<b>5.52%</b>	<b>44</b>	<b>0.59%</b>	<b>7,503</b>	<b>100.00%</b>

## Age at Operation by Biopsy Gleason Sum

Age Group	Biopsy Gleason Sum Score							
	5 - 6		7		8 - 10		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
<60	291	13.26%	1,689	76.98%	214	9.75%	2,194	100.00%
60 - 64	191	11.57%	1,258	76.20%	202	12.24%	1,651	100.00%
65 - 69	208	9.86%	1,642	77.82%	260	12.32%	2,110	100.00%
70 - 74	120	8.61%	1,089	78.12%	185	13.27%	1,394	100.00%
75 - 79	12	7.32%	124	75.61%	28	17.07%	164	100.00%
>=80			18	90.00%	2	10.00%	20	100.00%
<b>Grand Total</b>	<b>822</b>	<b>10.91%</b>	<b>5,820</b>	<b>77.26%</b>	<b>891</b>	<b>11.83%</b>	<b>7,533</b>	<b>100.00%</b>

## Age at Operation by Surgical Gleason Sum Score

Age Group	Surgical Gleason Sum Score							
	5 - 6		7		8 - 10		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
<60	126	6.44%	1,669	85.33%	161	8.23%	1,956	100.00%
60 - 64	84	5.62%	1,243	83.20%	167	11.18%	1,494	100.00%
65 - 69	76	3.95%	1,617	84.13%	229	11.91%	1,922	100.00%
70 - 74	28	2.22%	1,071	85.00%	161	12.78%	1,260	100.00%
75 - 79	8	5.19%	117	75.97%	29	18.83%	154	100.00%
>=80			16	88.89%	2	11.11%	18	100.00%
<b>Grand Total</b>	<b>322</b>	<b>4.73%</b>	<b>5,733</b>	<b>84.26%</b>	<b>749</b>	<b>11.01%</b>	<b>6,804</b>	<b>100.00%</b>

## Operating Surgeon

Grade Of Main Operating Surgeon	Supervised Training Operation							
	No		Yes		Not recorded		Grand Total	
	Number of Records	% of Total Number..	Number of Records	% of Total Number ..	Number of Records	% of Total Number..	Number of Records	% of Total Number..
Consultant	723	10.23%	29	0.41%	6,318	89.36%	7,070	100.00%
SpR	10	2.42%	395	95.64%	8	1.94%	413	100.00%
Other					111	100.00%	111	100.00%
Not recorded					319	100.00%	319	100.00%
Grand Total	733	9.26%	424	5.36%	6,756	85.38%	7,913	100.00%

## Conversions

Surgical Technique	Converted							
	Yes		No		Null		Grand Total	
	Numbe..	% of T..	Numbe..	% of To..	Numbe..	% of To..	Numbe..	% of To..
Open					290	100.00%	290	100.00%
Laparoscopic	5	1.40%	324	90.76%	28	7.84%	357	100.00%
Robotically assisted	21	0.29%	6,688	92.05%	557	7.67%	7,266	100.00%
Grand Total	26	0.33%	7,012	88.61%	875	11.06%	7,913	100.00%

## Duration of Operation by Technique

Duration Of Operation	Surgical Technique							
	Open		Laparoscopic		Robotically assisted		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
<2.0 hours	14	0.80%	55	3.14%	1,685	96.07%	1,754	100.00%
2.0-3.9 hours	201	3.91%	259	5.04%	4,680	91.05%	5,140	100.00%
4.0-5.9 hours	9	3.35%	13	4.83%	247	91.82%	269	100.00%
>= 6.0 hours			5	41.67%	7	58.33%	12	100.00%
Not recorded	66	8.94%	25	3.39%	647	87.67%	738	100.00%
Grand Total	290	3.66%	357	4.51%	7,266	91.82%	7,913	100.00%

## Nerve Sparing

Nerve Sparing	Number of Records	% of Total Number of Recor..
None	2,263	28.60%
Bilateral	2,677	33.83%
Unilateral	2,311	29.21%
Not recorded	662	8.37%
Grand Total	7,913	100.00%

## Lymph Node Dissection

Lymph Node Dissection	Number of Records	% of Total Number of Recor..
None	4,713	59.56%
Extended	1,236	15.62%
Obturator fossae	855	10.81%
Not recorded	1,109	14.01%
Grand Total	7,913	100.00%



### KnownTransfusionRate

	Number of Records	% of Total Number of Recor..
Transfused		
Not transfused	7,779	99.83%
Transfused	13	0.17%
<b>Grand Total</b>	<b>7,792</b>	<b>100.00%</b>

### Tranfusions by Surgical Technique

Blood Units Transfused	Surgical Technique						Grand Total	
	Open		Laparoscopic		Robotically assisted		Number of Records	% of Total Number of Records ..
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..		
Nil	243	3.12%	332	4.27%	7,204	92.61%	7,779	100.00%
Minor (<3 units)			1	10.00%	9	90.00%	10	100.00%
Moderate (3-6 units)					1	100.00%	1	100.00%
Major (>6 units)					2	100.00%	2	100.00%
Not recorded	47	38.84%	24	19.83%	50	41.32%	121	100.00%
<b>Grand Total</b>	<b>290</b>	<b>3.66%</b>	<b>357</b>	<b>4.51%</b>	<b>7,266</b>	<b>91.82%</b>	<b>7,913</b>	<b>100.00%</b>

### TransfusionRatebyAge

Age Group	Transfused					
	Transfused		Not transfused		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
<60	2	0.09%	2,262	99.91%	2,264	100.00%
60 - 64	1	0.06%	1,690	99.94%	1,691	100.00%
65 - 69	3	0.14%	2,180	99.86%	2,183	100.00%
70 - 74	6	0.42%	1,417	99.58%	1,423	100.00%
75 - 79	1	0.59%	169	99.41%	170	100.00%
>=80			21	100.00%	21	100.00%
<b>Grand Total</b>	<b>13</b>	<b>0.17%</b>	<b>7,739</b>	<b>99.83%</b>	<b>7,752</b>	<b>100.00%</b>

### TransfusionRatebyTechnique

Surgical Technique	Transfused					
	Transfused		Not transfused		Grand Total	
	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records
Open			100.00%	243	100.00%	243
Laparoscopic	0.30%	1	99.70%	332	100.00%	333
Robotically assisted	0.17%	12	99.83%	7,204	100.00%	7,216
<b>Grand Total</b>	<b>0.17%</b>	<b>13</b>	<b>99.83%</b>	<b>7,779</b>	<b>100.00%</b>	<b>7,792</b>

### TransfusionRatebyASA

Asa Grade	Transfused					
	Transfused		Not transfused		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
ASA 1	1	0.08%	1,213	99.92%	1,214	100.00%
ASA 2	9	0.17%	5,348	99.83%	5,357	100.00%
ASA 3	1	0.33%	298	99.67%	299	100.00%
ASA 4			3	100.00%	3	100.00%
Not recorded	2	0.22%	917	99.78%	919	100.00%
<b>Grand Total</b>	<b>13</b>	<b>0.17%</b>	<b>7,779</b>	<b>99.83%</b>	<b>7,792</b>	<b>100.00%</b>

### KnownIntraopCompRate

Intra Operative Complications (group) (copy)	Number of Records	% of Total Number of Recor..
Complication recorded	279	3.79%
None	7,076	96.21%
<b>Grand Total</b>	<b>7,355</b>	<b>100.00%</b>

### Known Post-operative Complication rate

PostOperative Complication Wit..	Number of Records	% of Total Number of Recor..
Complication	469	6.55%
None	6,691	93.45%
<b>Grand Total</b>	<b>7,160</b>	<b>100.00%</b>

### Clavien Dindo Grade of Post-Operative Complications by Technique

Surgical Technique

Clavien Dindo Grade Of Complications (group)	Laparoscopic		Open		Robotically assisted		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
Grade I	17	5.12%	18	7.41%	194	2.95%	229	3.20%
Grade II	19	5.72%	6	2.47%	122	1.85%	147	2.05%
Grade III plus	4	1.20%	6	2.47%	82	1.25%	92	1.28%
Not recorded / NA	292	87.95%	213	87.65%	6,187	93.96%	6,692	93.46%
<b>Grand Total</b>	<b>332</b>	<b>100.00%</b>	<b>243</b>	<b>100.00%</b>	<b>6,585</b>	<b>100.00%</b>	<b>7,160</b>	<b>100.00%</b>

## Specific Intraoperative Complications

Intra Operative Complications	Number of Records	% of Total Number of Recor..
Difficult dissection	176	63.08%
Problematic bleeding	29	10.39%
Problematic bleeding,Difficult dissection	44	15.77%
Rectal injury	8	2.87%
Ureteric injury	4	1.43%
Vascular injury	2	0.72%
Robotic device failure	4	1.43%
Port complications	1	0.36%
Difficult dissection,Small bowel injury	1	0.36%
Problematic bleeding,Port complications	1	0.36%
Nerve injury	2	0.72%
Difficult dissection,Port complications	2	0.72%
Difficult dissection,Robotic device failure	1	0.36%
Small bowel injury	4	1.43%
<b>Grand Total</b>	<b>279</b>	<b>100.00%</b>

## Specific Post operative complications

PostOperativeComplicationWithi..	Number of Records	% of Total Number of Records along Table (Down)
Anastomotic Leak + others	37	7.89%
Chest infection + others	14	2.99%
Haematuria + others	37	7.89%
Haemorrhage + Others	18	3.84%
Ileus	24	5.12%
Ileus + others	3	0.64%
Pelvic Haematoma +/- others	22	4.69%
Sepsis	27	5.76%
Urine leak	18	3.84%
Urine leak & others	4	0.85%
Wound infection	20	4.26%
Sepsis & others	6	1.28%
Return to theatre +/- others	19	4.05%
PE / DVT +/- others	8	1.71%
Others	212	45.20%
<b>Grand Total</b>	<b>469</b>	<b>100.00%</b>

## LOSbyTechnique

Surgical Technique	Number of Records	Median Length Of Stay	Avg. Length Of Stay	Min. Length Of Stay	Max. Length Of Stay
Open	243	3.0	3	0	37
Laparoscopic	332	2.0	2	0	15
Robotically a..	6,748	1.0	2	0	91
<b>Grand Total</b>	<b>7,323</b>	<b>1.0</b>	<b>2</b>	<b>0</b>	<b>91</b>

## pT2 Positive Surgical Margin Rate

Margins (group) 1	Number of Records	% of Total Number of Recor..
Positive	614	16.55%
Negative	3,095	83.45%
<b>Grand Total</b>	<b>3,709</b>	<b>100.00%</b>

## pT2 Margins by Technique

Surgical Technique	Margins (group) 1					
	Positive		Negative		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
Open	9	11.69%	68	88.31%	77	100.00%
Laparoscopic	38	18.36%	169	81.64%	207	100.00%
Robotically assisted	567	16.55%	2,858	83.45%	3,425	100.00%
<b>Grand Total</b>	<b>614</b>	<b>16.55%</b>	<b>3,095</b>	<b>83.45%</b>	<b>3,709</b>	<b>100.00%</b>

## Positive Lymph Nodes

Number Of Lymph Nodes Sampled - group	Number Of Positive Lymph Nodes (group)													
	0		1 - 5		6 - 10		11 - 20		> 20		Not recorded		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
1 - 5	602	90.66%	51	7.68%	3	0.45%	1	0.15%	1	0.15%	6	0.90%	664	100.00%
6 - 10	530	88.93%	61	10.23%	1	0.17%					4	0.67%	596	100.00%
11 - 20	517	85.60%	73	12.09%	1	0.17%	4	0.66%	1	0.17%	8	1.32%	604	100.00%
> 20	155	77.11%	39	19.40%	3	1.49%	2	1.00%			2	1.00%	201	100.00%
<b>Grand Total</b>	<b>1,804</b>	<b>87.36%</b>	<b>224</b>	<b>10.85%</b>	<b>8</b>	<b>0.39%</b>	<b>7</b>	<b>0.34%</b>	<b>2</b>	<b>0.10%</b>	<b>20</b>	<b>0.97%</b>	<b>2,065</b>	<b>100.00%</b>

## Patients followed up

Follow up	Number of Records	% of Total Number of Recor..
Followed up	2,087	26.37%
Not followed up	5,826	73.63%
Grand Total	7,913	100.00%

## Current Status

Current Status	TimetoFu months								Grand Total	
	0 - 3		4 - 6		7 - 12		> 12			
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
Alive with no evidence of prostate cancer	1,166	73.15%	263	78.74%	98	69.50%	9	56.25%	1,536	73.67%
Alive with local recurrence of prostate cancer	10	0.63%	7	2.10%	3	2.13%			20	0.96%
Alive with lymph node involvement by prostate cancer	3	0.19%	4	1.20%					7	0.34%
Alive with metastatic disease	1	0.06%	1	0.30%					2	0.10%
Discharged to GP / Other consultant	114	7.15%	4	1.20%					118	5.66%
Not recorded	300	18.82%	55	16.47%	40	28.37%	7	43.75%	402	19.28%
Grand Total	1,594	100.00%	334	100.00%	141	100.00%	16	100.00%	2,085	100.00%

## Participating Hospital Centres 2019

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

Aberdeen Royal Infirmary	Guy's & Thomas's Hospital	Queen Alexandra Hospital, Portsmouth
Addenbrooke's Hospital, Cambridge	Hammersmith Hospital, London	Queen Elizabeth Hospital, Birmingham
Alexandra Hospital, Redditch	Heartlands Hospital, Birmingham	Queen Elizabeth University Hospital
Arrowe Park Hospital, Wirral	James Cook University Hospital, Middlesbrough	Royal Berkshire Hospital, Reading
Barking, Havering & Redbridge University Hospital	Leicester General Hospital	Royal Blackburn Hospital
Broomfield Hospital, Chelmsford	Lister Hospital, Stevenage	Royal Bournemouth General Hospital
Castle Hill Hospital, Hull	Maidstone Hospital	Royal Derby Hospital
Charing Cross Hospital, London	Medway Maritime Hospital, Gillingham	Royal Devon & Exeter Hospital
Cheltenham General Hospital	Morrison Hospital, Swansea	Royal Hallamshire Hospital, Sheffield
Christie Hospital	New Cross Hospital, Wolverhampton	Royal Liverpool University Hospital
Churchill Hospital, Oxford	Ninewells Hospital, Dundee	Royal Marsden Hospital, London
Colchester General Hospital	Norfolk & Norwich University Hospital	Royal Preston Hospital
Derriford Hospital, Plymouth	Nottingham City Hospital	Royal Shrewsbury Hospital
Eastbourne District General Hospital	Pinderfields General Hospital, Wakefield	Royal Stoke University Hospital
Freeman Hospital, Newcastle	Princess Elizabeth Hospital, Guernsey	Royal Surrey County Hospital, Guildford

Southampton General Hospital

Southend Hospital

Southmead Hospital, Bristol

St George's Hospital, London

St James's University Hospital, Leeds

St Mary's Hospital, London

Stepping Hill Hospital, Stockport

Sunderland Royal Hospital

University College Hospital, London

University Hospital of Wales, Cardiff

Walsgrave Hospital, Coventry

Western General Hospital, Edinburgh

Wycombe Hospital, High Wycombe