# **Supplementary Material**

Diagnosis, treatment and survival from Bladder, Upper Urinary Tract and Urethral Cancers: Real world findings from NHS England between 2013 and 2019

# **SUPPLEMENTARY CONTENT**

- 1. Appendix 1. Dictionary of Source data used in this report
- 2. Supplementary figures 1 to 10
- 3. Supplementary tables 1 to 2.

# Appendix 1. Data sources used in this report

### GDO UCC data (2013-19)

https://www.cancerdata.nhs.uk/getdataout/bladder

- Bladder, UTUC and Urethral cancer: Case numbers and incidence rates 2013-2019
- Split into Malignant and in situ vs. uncertain
- Stage: NMI, MIBC, unknown, all stages. NMI split into Ta, Tis, Ta/Tis, T1 and NOS
- Grade: all, grade 1, grade 2, grade 3, unknown
- Route of diagnosis (2013-18)
- Survival: Net and Kaplan-Meier survival up to 84 months

#### **GDO All 15 cancers data**

https://www.cancerdata.nhs.uk/getdataout/data

#### **Prevalence**

https://www.cancerdata.nhs.uk/prevalence

- Prevalence in 2019 for BC only
- vs. age, ethnicity, sex, stage (invasive vs/ invasive/non-invasive),
   CCG/Cancer Alliance, IMD, Years since diagnosis

## Routes to diagnosis details (2006-16)

https://www.cancerdata.nhs.uk/routestodiagnosis

- vs. Age, IMD, Alliance, Stage (all vs. in situ BC)

#### Survival

https://www.cancerdata.nhs.uk/survival/indexofcancersurvival

- Survival by CCG
- Trends in survival

https://digital.nhs.uk/data-and-information/publications/statistical/cancer-survival-inengland/cancers-diagnosed-2015-to-2019-followed-up-to-2020

- Survival by sex, stage, age
- Survival for other cancers

## Treatment (2013-19)

https://www.cancerdata.nhs.uk/treatments

- Treatments as individual options
- Treatment combinations
- Vs. Age, Ethnicity, CCI, IMD, Gender, Stage and Year of diagnosis

## Radiotherapy used

https://www.cancerdata.nhs.uk/radiotherapy/dashboard

- Vs. Cancer alliance, disease group. Age group, intent, year, sex

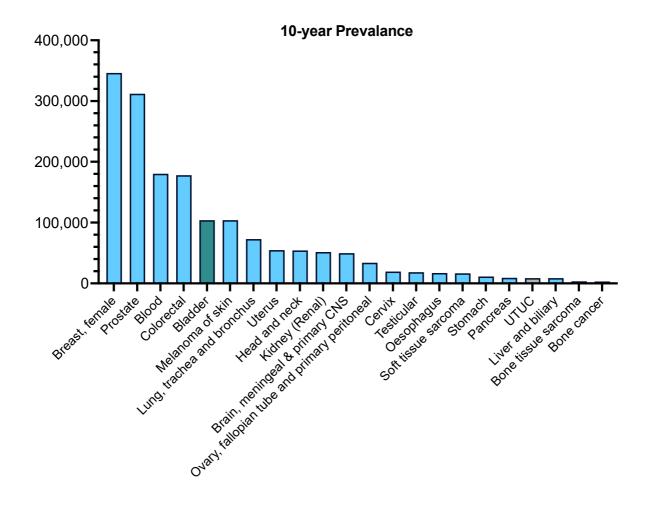
## **Emergency presentation**

https://www.cancerdata.nhs.uk/emergencypresentations

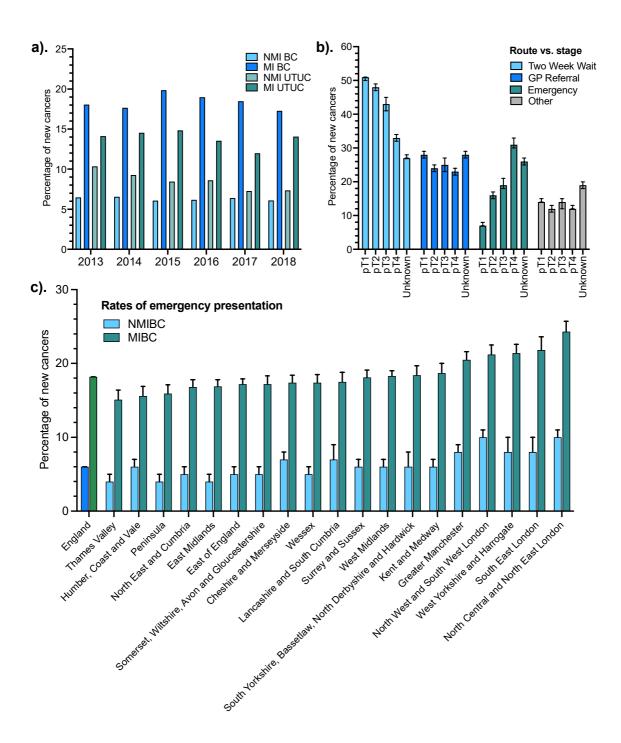
## Staging data

https://www.cancerdata.nhs.uk/stage at diagnosis

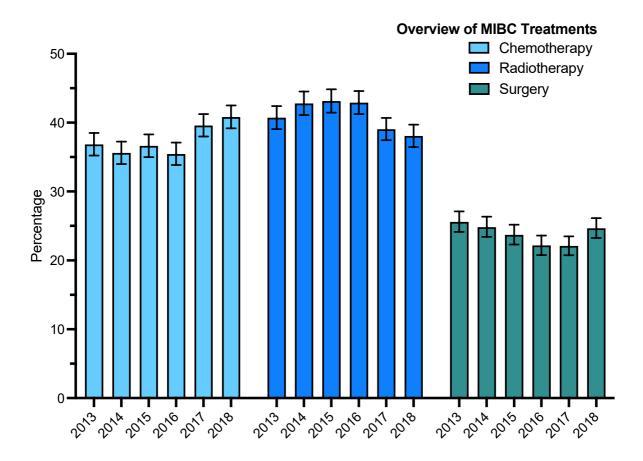
- Geography (alliance, CCG etc.)
- Trends (%) per year
- Trends by site



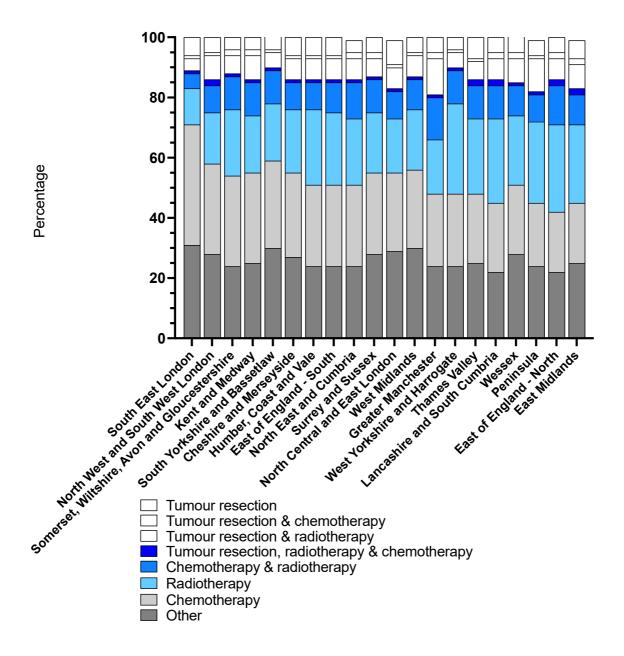
Supplementary figure 1. Prevalence of Bladder Cancer and UTUC 10-years since diagnosis. In 2019, there were 104,192 persons living with bladder cancer (green) and 8,625 living with UTUC (grey) 10 years after diagnosis.



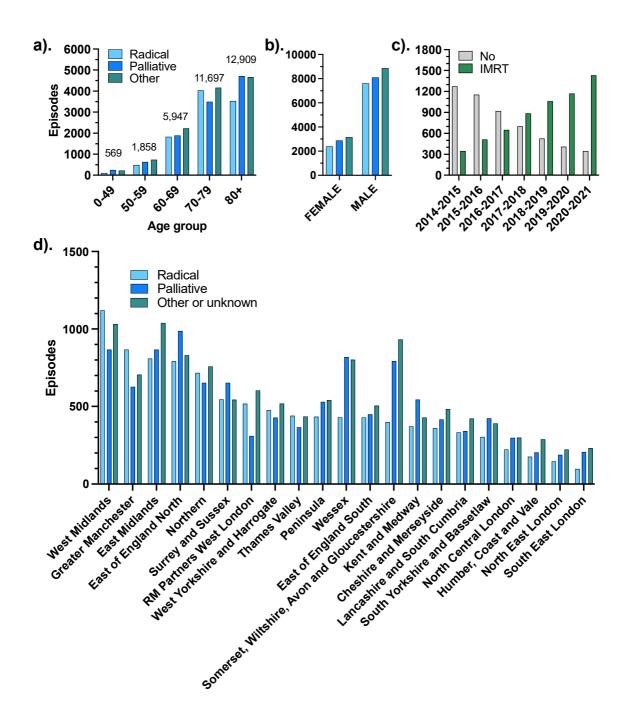
**Supplementary figure 2. Emergency presentation of bladder cancer.** a). Percentage of non-muscle invasive (NMI) and muscle invasive (MI) bladder cancers (BCs) and UTUCs presenting as an emergency from 2013 to 2018, b). Route to diagnosis for bladder cancer with respect to tumour stage (tumour from 2013-18). c). Percentage of MI and NMI bladder cancers presenting as an emergency for each NHS cancer alliance (compared to average for England in bold).



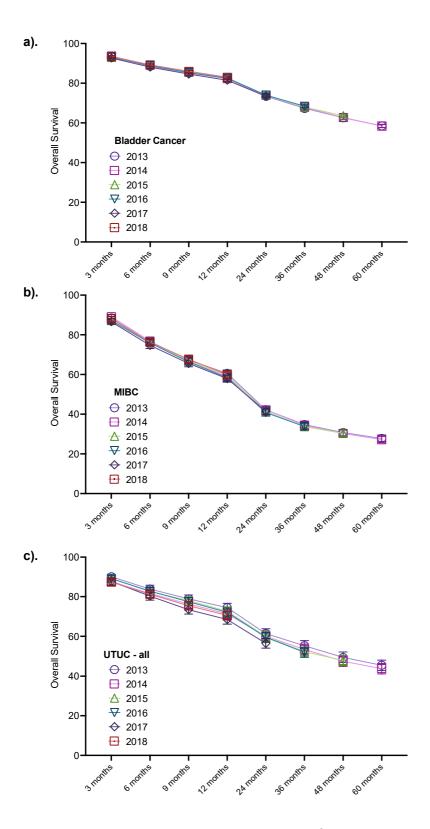
Supplementary figure 3. An overview of the use of chemotherapy, radiotherapy and radical surgery in patients with invasive bladder cancer from 2013 to 2018. Percentage of patients receiving one or more of each treatment shown.



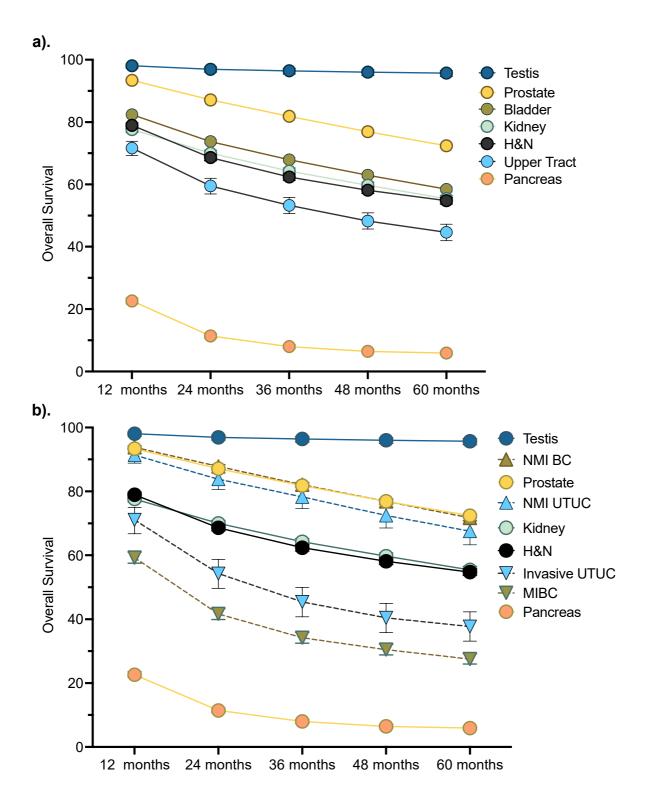
Supplementary figure 4. Use of chemotherapy, radiotherapy, surgery in isolation and combination in patients with bladder cancer from 2013 to 2018 according to cancer alliance.



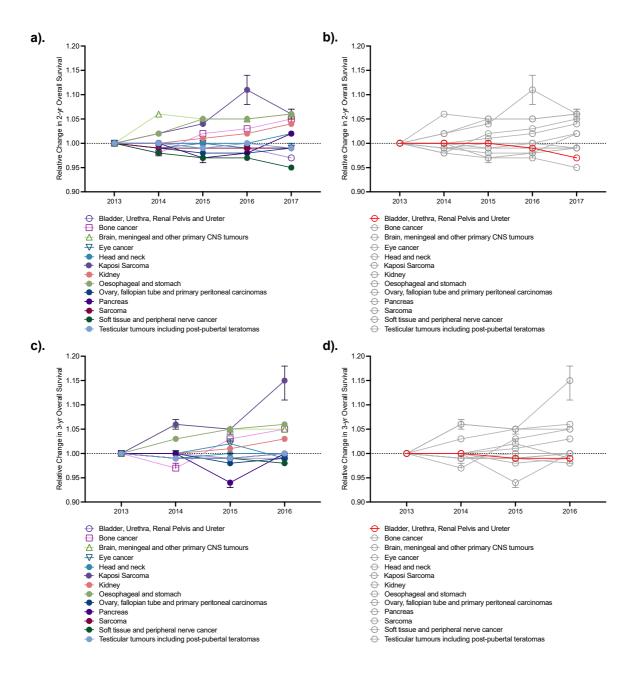
Supplementary figure 5. Patterns of radiotherapy use for advanced Bladder cancer. Radiotherapy regimens for patients with BC from 2009 to 2021 stratified by a). patient age and b). sex, c). The proportion of treatments using intensity modulated radiotherapy for years from 2014 to 2021, d). Use of radical, palliative and other radiotherapy regimens from 2009-2021 according to each NHS cancer alliance.



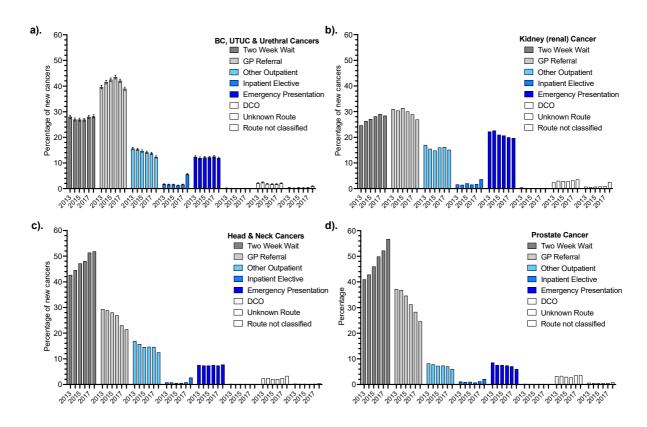
Supplementary figure 6. Overall survival for a). all urothelial bladder cancers, b). urothelial muscle invasive bladder cancers, and c). all upper tract urothelial cancers according to the year of diagnosis from 2013 to 2018.



Supplementary figure 7. Average survival rates from 2013 to 2018 for a). common cancers (in b). BC and UTUC are sub-stratified by stage) within the National Cancer Registration and Analysis Service Data Repository.

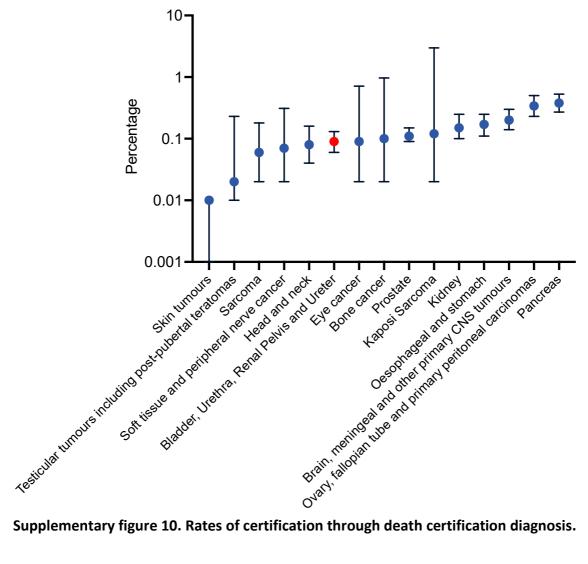


**Supplementary figure 8. Trends in overall survival for multiple cancers since 2013.** For each cancer, the relative survival at 2-years (a. and b.) and 3-years (c. and d.) after diagnosis are shown for the years 2013 to 2018. For illustrative purposes, graphs are duplicated with all cancers coloured (a. and c.) or highlight to show bladder cancer (b. and d.).



Supplementary figure 9. Routes to diagnosis for a). bladder and UTUC cancers, b). kidney (renal) cancer, c). head and neck cancer and d). prostate cancer.

# **Death Certification Diagnosis**



Supplementary figure 10. Rates of certification through death certification diagnosis.

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NMI BC	Number of NMIBC cases	ſwo Week Wait		75% CI	GP referral	2		Other Outpatient	17 %30		Inpatient Elective		95% CI	Emergency presentation	17 %50		eath Certificate Only	2	72 % CI	Unknown	95% CI	
Cheshire and Merseyside	1,918	18%	17%	20%	52%	50%	54%	21%	19%	23%	1%	1%	2%	7%	6%	8%			,	1%		2%
East Midlands	3,583	24%	23%	25%	48%	47%	50%	20%	19%	22%	1%	1%	2%	4%	4%	5%				2%	1%	2%
East of England	5,563	25%	24%	26%	51%	50%	53%	12%	12%	13%	3%	3%	4%	5%	5%	6%				3%	3%	4%
Greater Manchester	2.895	16%	14%	17%	56%	54%	58%	17%	16%	19%	2%	2%	3%	8%	7%	9%				1%	1%	2%
Humber, Coast and Vale	1,366	12%	10%	14%	66%	64%	69%	11%	10%	13%	3%	2%	4%	6%	5%	7%				2%	1%	3%
Kent and Medway	2,086	19%	17%	20%	43%	41%	45%	20%	18%	22%	10%	8%	11%	6%	5%	7%				3%	2%	4%
Lancashire and South Cumbria	1,938	20%	18%	22%	53%	51%	56%	14%	13%	16%	4%	3%	4%	7%	6%	9%				2%	1%	2%
North Central and North East London	2,488	24%	23%	26%	44%	42%	46%	15%	13%	16%	4%	3%	5%	10%	9%	11%				4%	3%	5%
North East and Cumbria	3,066	14%	13%	15%	62%	60%	64%	15%	14%	16%	3%	3%	4%	5%	4%	6%				1%	1%	2%
North West and South West London	3,028	16%	15%	17%	52%	51%	54%	16%	15%	18%	1%	1%	2%	10%	9%	11%				4%	4%	5%
Peninsula	1,680	12%	11%	14%	60%	57%	62%	20%	18%	22%	3%	2%	4%	4%	3%	5%				1%	1%	2%
	•	17%	16%	19%	56%	54%	58%	19%	17%	20%	2%	1%	_	5%		6%						3%
Somerset, Wiltshire, Avon and Gloucestershire	2,571		13%	16%		53%		15%		17%	2%	1%	2% 3%		4% 7%	10%				2% 4%	2% 4%	6%
South East London	1,382	14%			55%		58%		14%				_	8%								
South Yorkshire, Bassetlaw, North Derbyshire and Hardwick	1,636 4,716	18% 17%	16% 16%	20% 19%	60% 56%	57% 55%	62% 58%	14%	13%	16%	1% 3%	1% 3%	2% 4%	6% 6%	5% 5%	8% 7%	0%	0%		0% 4%	0% 3%	1% 4%
Surrey and Sussex		24%	22%		41%	39%	43%	23%	21%		4%	3%		4%	3%	5%	0%	U76		5%	4%	6%
Thames Valley Wessex	1,716 2,304	27%	25%	26% 29%	36%	34%	38%	22%	20%	25% 23%	9%	8%	5% 10%	5%	4%	6%				2%	2%	3%
	-												_								_	
West Midlands	4,561	23%	22%	24%	52%	50%	53%	15%	14%	16%	1%	1%	2%	6%	5%	7%				2%	2%	3%
West Yorkshire and Harrogate	2,074	15%	13%	17%	60%	58%	62%	12%	11%	14%	2%	2%	3%	8%	7%	10%	00/	00/	00/	2%	2%	3%
England	50,571	19%	19%	20%	53%	52%	53%	16%	16%	17%	3%	3%	3%	6%	6%	7%	0%	0%	0%	3%	2%	3%
	cases													io.			_					
MIBC	Number of MIBC cases	Two Week Wait	ì	D % c6	GP referral	5 %		Other Outpatient	5 810	8 6	Inpatient Elective		. 95% CI	Emergency presentation	2%	3	Death Certificate Only	_	% C	Unknown	95% CI	
Cheshire and Merseyside	5,084	§ 32%	31%	34%	급 30%	29%	31%	Other Outpat	14%	16%	Inpatient %2	2%	% 3%	Emergency	16%	18%	% Death Certificate	0%	1%	2%	% 2%	3%
Cheshire and Merseyside East Midlands	5,084 7,400	32% 40%	31% 39%	34% 41%	30% 24%	29% 23%	31% 25%	0ther Outpat 15%	14% 15%	16% 16%	2% 2%	2% 2%	% 3% 3%	17%	16% 16%	18% 18%	% Death Certificate	0% 0%	1% 0%	2% 2%	2% :	2%
Cheshire and Merseyside East Midlands East of England	5,084 7,400 11,429	32% 40% 36%	31% 39% 35%	34% 41% 37%	30% 24% 29%	29% 23% 29%	31% 25% 30%	0ther Outpat 15% 11%	14% 15% 11%	16% 16% 12%	2% 2% 3%	2% 2% 2%	3% 3% 3% 3%	17% 17%	16% 16% 17%	18% 18% 18%	%0 Death Certificate	0% 0% 0%	1% 0% 0%	2% 2% 3%	2% : 2% : 3% :	2% 4%
Cheshire and Merseyside East Midlands East of England Greater Manchester	5,084 7,400 11,429 4,932	32% 40% 36% 30%	31% 39% 35% 29%	34% 41% 37% 31%	30% 24% 29% 33%	29% 23% 29% 31%	31% 25% 30% 34%	75% 15% 11% 13%	14% 15% 11% 13%	16% 16% 12% 14%	2% 2% 3% 2%	2% 2% 2% 2%	3% 3% 3% 3% 2%	17% 17% 20%	16% 16% 17% 19%	18% 18% 18% 22%	%0 %0 Death Certificate	0% 0% 0% 0%	1% 0% 0% 0%	2% 2% 3% 2%	2% : 2% : 3% : 1% :	2% 4% 2%
Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale	5,084 7,400 11,429 4,932 3,054	32% 40% 36% 30% 30%	31% 39% 35% 29%	34% 41% 37% 31% 32%	30% 24% 29% 33% 40%	29% 23% 29% 31% 38%	31% 25% 30% 34% 41%	15% 15% 11% 13%	14% 15% 11% 13% 7%	16% 16% 12% 14% 8%	2% 2% 2% 2% 5%	2% 2% 2% 2% 2% 4%	3% 3% 3% 3% 2% 6%	17% 17% 17% 20% 16%	16% 16% 17% 19% 14%	18% 18% 18% 22% 17%	%0 %0 %0 %0	0% 0% 0% 0% 0%	1% 0% 0% 0% 0%	2% 2% 3% 2% 2%	2% : 2% : 3% : 1% : 2% :	2% 4% 2% 3%
Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale Kent and Medway	5,084 7,400 11,429 4,932 3,054 3,653	32% 40% 36% 30% 30% 36%	31% 39% 35% 29% 29% 35%	34% 41% 37% 31% 32% 38%	30% 24% 29% 33% 40% 24%	29% 23% 29% 31% 38% 23%	31% 25% 30% 34% 41% 26%	15% 15% 11% 13% 7%	14% 15% 11% 13% 7% 13%	16% 16% 12% 14% 8% 15%	2% 2% 2% 5% 3%	2% 2% 2% 2% 4% 3%	% 3% 3% 3% 2% 6% 4%	17% 17% 17% 20% 16%	16% 16% 17% 19% 14% 17%	18% 18% 18% 22% 17% 20%	%0 %0 %0 %0 %0 %0 %0	0% 0% 0% 0% 0% 0%	1% 0% 0% 0% 0% 1%	2% 2% 3% 2% 2% 3%	%6 2% 2% 3% 1% 2% 2%	2% 4% 2% 3% 4%
Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale Kent and Medway Lancashire and South Cumbria	5,084 7,400 11,429 4,932 3,054 3,653 3,812	32% 40% 36% 30% 30% 36% 40%	31% 39% 35% 29% 29% 35% 38%	34% 41% 37% 31% 32% 38% 41%	30% 24% 29% 33% 40% 24% 25%	29% 23% 29% 31% 38% 23% 24%	31% 25% 30% 34% 41% 26% 26%	15% 15% 11% 13% 7% 14% 13%	14% 15% 11% 13% 7% 13% 12%	16% 16% 12% 14% 8% 15% 14%	2% 2% 3% 2% 5% 3% 4%	2% 2% 2% 2% 4% 3% 3%	3% 3% 3% 3% 2% 6% 4%	17% 17% 17% 20% 16% 19%	16% 16% 17% 19% 14% 17% 16%	18% 18% 18% 22% 17% 20% 19%	%0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %	0% 0% 0% 0% 0% 1%	1% 0% 0% 0% 0% 1%	2% 2% 3% 2% 2% 3% 2%	%56 2% : 2% : 3% : 1% : 2% : 2% : 1% :	2% 4% 2% 3% 4%
Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale Kent and Medway Lancashire and South Cumbria North Central and North East London	5,084 7,400 11,429 4,932 3,054 3,653 3,812 3,540	32% 40% 36% 30% 30% 36% 40% 27%	31% 39% 35% 29% 29% 35% 38% 25%	34% 41% 37% 31% 32% 38% 41% 28%	30% 24% 29% 33% 40% 24% 25% 30%	29% 23% 29% 31% 38% 23% 24% 28%	31% 25% 30% 34% 41% 26% 26% 31%	15% 15% 11% 13% 7% 14% 13% 12%	14% 15% 11% 13% 7% 13% 12% 11%	16% 16% 12% 14% 8% 15% 14% 13%	2% 2% 2% 5% 3% 4% 3%	2% 2% 2% 2% 4% 3% 3% 2%	3% 3% 3% 2% 6% 4% 4% 3%	17% 17% 17% 20% 16% 19% 24%	16% 16% 17% 19% 14% 17% 16% 23%	18% 18% 18% 22% 17% 20% 19% 26%	%0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %	0% 0% 0% 0% 0% 1% 0%	1% 0% 0% 0% 0% 1% 0%	2% 2% 3% 2% 2% 3% 2% 4%	%56 2% : 2% : 3% : 1% : 2% : 2% : 1% : 3% :	2% 4% 2% 3% 4% 2%
Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale Kent and Medway Lancashire and South Cumbria North Central and North East London North East and Cumbria	5,084 7,400 11,429 4,932 3,054 3,653 3,812 3,540	32% 40% 36% 30% 30% 36% 40% 27% 42%	31% 39% 35% 29% 29% 35% 38% 25% 41%	34% 41% 37% 31% 32% 38% 41% 28% 43%	30% 24% 29% 33% 40% 24% 25% 30% 25%	29% 23% 29% 31% 38% 23% 24% 28% 24%	31% 25% 30% 34% 41% 26% 26% 31% 26%	15% 15% 11% 13% 7% 14% 13% 12%	14% 15% 11% 13% 7% 13% 12% 11%	16% 16% 12% 14% 8% 15% 14% 13%	2% 2% 3% 5% 3% 4% 3% 3%	2% 2% 2% 2% 4% 3% 3% 2% 3%	3% 3% 3% 2% 6% 4% 4% 3%	17% 17% 17% 20% 16% 19% 24% 17%	16% 16% 17% 19% 14% 17% 16% 23% 16%	18% 18% 18% 22% 17% 20% 19% 26%	%0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %	0% 0% 0% 0% 0% 1% 0% 0%	1% 0% 0% 0% 0% 1% 0% 1%	2% 2% 3% 2% 2% 3% 2%	2% : 2% : 3% : 4 : 2% : 2% : 4 : 2% : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3 :	2% 4% 2% 3% 4% 2% 4% 2%
Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale Kent and Medway Lancashire and South Cumbria North Central and North East London	5,084 7,400 11,429 4,932 3,054 3,653 3,812 3,540 6,255 4,141	32% 40% 36% 30% 36% 40% 27% 42% 29%	31% 39% 35% 29% 29% 35% 38% 25% 41% 27%	34% 41% 37% 31% 32% 38% 41% 28% 43% 30%	30% 24% 29% 33% 40% 24% 25% 30% 25% 31%	29% 23% 29% 31% 38% 23% 24% 28% 24% 30%	31% 25% 30% 34% 41% 26% 26% 31% 26% 33%	15% 15% 11% 13% 7% 14% 13% 12% 12%	14% 15% 11% 13% 7% 13% 12% 11% 11%	16% 16% 12% 14% 8% 15% 14% 13% 13%	2% 2% 3% 2% 5% 3% 4% 3% 2%	2% 2% 2% 2% 4% 3% 3% 2% 3%	3% 3% 3% 2% 6% 4% 4% 3% 3% 2%	17% 17% 17% 20% 16% 19% 18% 24% 17% 21%	16% 16% 17% 19% 14% 17% 16% 23% 16% 20%	18% 18% 18% 22% 17% 20% 19% 26% 18%	%0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %0 %	0% 0% 0% 0% 0% 1% 0%	1% 0% 0% 0% 0% 1% 0%	2% 2% 3% 2% 2% 3% 2% 4%	2% : 2% : 3% : 4 : 2% : 2% : 4 : 2% : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3 : 3 :	2% 4% 2% 3% 4% 2%
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Cheshire and Merseyside East Midlands East of England Greater Manchester Humber, Coast and Vale Kent and Medway Lancashire and South Cumbria North Central and North East London North East and Cumbria North West and South West London Peninsula Somerset, Wiltshire, Avon and Gloucestershire South East London South Yorkshire, Bassetlaw, North Derbyshire and Hardwick Surrey and Sussex Thames Valley Wessex	5,084 7,400 11,429 4,932 3,054 3,653 3,812 3,540 6,255 4,141 3,668 5,294 2,199 3,448 5,628 3,572 5,063 9,892 4,462	32% 40% 36% 30% 30% 40% 27% 42% 29% 41% 39% 29% 38% 35% 41% 36%	31% 39% 35% 29% 29% 35% 41% 27% 40% 37% 37% 34% 40% 34%	\$6 34% 41% 37% 31% 32% 38% 41% 28% 43% 30% 43% 40% 31% 40% 36% 43% 37%	30% 24% 29% 33% 40% 24% 25% 30% 25% 31% 24% 26% 33% 24% 30% 22%	29% 23% 29% 31% 38% 23% 24% 24% 30% 23% 25% 31% 23% 29% 20% 23%	31% 25% 30% 34% 41% 26% 26% 33% 26% 28% 35% 26% 31% 26% 23% 25%	15% 15% 15% 11% 13% 7% 14% 12% 12% 11% 16% 10% 13% 14%	14% 15% 11% 13% 13% 13% 12% 11% 11% 11% 12% 10% 15% 10% 12% 13%	16% 16% 12% 14% 8% 15% 14% 13% 13% 13% 17% 11% 14% 15%	2% 2% 3% 2% 5% 3% 3% 4% 3% 3% 2% 1% 2% 3% 5% 6%	2% 2% 2% 2% 4% 3% 3% 2% 1% 2% 2% 5% 5%	3% 3% 3% 2% 6% 4% 3% 3% 3% 2% 3% 3% 3% 3% 3% 3% 3%	20% 16% 19% 18% 24% 17% 20% 16% 19% 18% 24% 17% 16% 17% 16% 18% 15% 17% 17%	16% 16% 17% 19% 14% 17% 16% 20% 15% 16% 20% 17% 17% 14% 16%	18% 18% 18% 22% 17% 20% 19% 26% 18% 23% 17% 188 24% 20% 199 16%	0% 0% 0% 0% 0% 1% 0% 1% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	866 1% 0% 0% 0% 0% 0% 1% 1% 1% 1% 1% 1% 1%	2% 2% 3% 2% 2% 3% 4% 4% 3% 11% 4% 44% 44% 33% 22% 33%	\$60 29%   29%   39%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49%   49	2% 4% 2% 3% 4% 2% 4% 2% 5% 2% 3% 5% 5% 5% 5%

Supplementary table 1. Routes to diagnosis for NMIBC and MIBC for each cancer alliance (from https://www.cancerdata.nhs.uk/routestodiagnosis/index).

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2013 Renal Pelvis and Ureter	All	Non-muscle-invasive	T1	277	3.6%	2.0%	6.5%	2.2%	1.0%	4.6%	ىة 66.8%	61.0%	72.1%	0.4%	0.1%	2.0%	5.4%	3.3%	8.7%	1.8%	0.8%	4.2%	0.0%	0.0%	1.4%	19.9%	15.6%	25.0%
2013 Renal Pelvis and Ureter		Muscle-invasive	All	644	2.5%	1.5%	4.0%	1.1%	0.5%	2.2%	58.2%	54.4%	62.0%	0.9%	0.4%	2.0%	15.4%	12.8%	18.4%	4.2%	2.9%	6.0%	2.8%	1.8%	4.4%	14.9%	12.4%	17.9%
2013 Renal Pelvis and Ureter 2013 Bladder		Stage unknown	All T1	485	9.9%	7.5%	12.9%	8.7%	6.5%	11.5%	11.1%	8.6%	14.2%	2.5%	1.4%	4.3% 0.3%	2.7%	1.6%	4.5%	0.6%	0.2%	1.8%	0.2%	0.0%	1.2%	64.3%	60.0%	68.5%
2013 Bladder 2013 Bladder		Non-muscle-invasive Muscle-invasive	All	3599 3290	7.6%	6.8%	1.7%	0.6%	0.4%	23.7%	50.9% 11.9%	49.3% 10.8%	13.0%	16.3%	15.1%	17.6%	39.5% 11.6%	10.6%	41.1% 12.8%	0.9%	0.6%	1.3%	1.9%	0.9%	2.4%	28.2%	26.7%	29.8%
2013 Bladder		Stage unknown	All	1490	8.7%	7.3%	10.2%	6.8%	5.7%	8.2%	1.1%	0.7%	1.8%	2.6%	1.9%	3.5%	1.3%	0.9%	2.1%	0.1%	0.0%	0.4%	0.1%	0.0%	0.5%	79.3%	77.1%	81.2%
2013 Bladder	Other	All stages	All	636	7.2%	5.5%	9.5%	13.2%	10.8%	16.1%	22.6%	19.6%	26.1%	10.7%	8.5%	13.3%	7.4%	5.6%	9.7%	2.4%	1.4%	3.9%	2.2%	1.3%	3.7%	34.3%	30.7%	38.1%
2013 Bladder 2013 Bladder	Other Other	Muscle-invasive Stage unknown	All	414 134	9.0%	5.7%	11.0%	14.7% 17.2%	11.6%	18.5%	23.4% 7.5%	19.6% 4.1%	27.7%	14.0% 7.5%	11.0%	17.7%	7.5%	5.3%	10.4%	0.0%	0.0%	4.1% 2.8%	1.2%	0.5%	2.8%	29.0%	24.8% 47.5%	33.5% 64.1%
2014 Renal Pelvis and Ureter	All		T1	299	3.0%	1.6%	5.6%	0.0%	0.0%	1.3%	64.5%	59.0%	69.8%	0.7%	0.2%	2.4%	7.4%	4.9%	10.9%	0.7%	0.2%	2.4%	0.0%	0.0%	1.3%	23.7%	19.3%	28.9%
2014 Renal Pelvis and Ureter		Muscle-invasive	All	673	2.5%	1.6%	4.0%	1.5%	0.8%	2.7%	56.6%	52.8%	60.3%	2.1%	1.2%	3.5%	17.1%	14.4%	20.1%	3.3%	2.2%	4.9%	2.5%	1.6%	4.0%	14.4%	12.0%	17.3%
2014 Renal Pelvis and Ureter 2014 Bladder		Stage unknown Non-muscle-invasive	All	443 3667	7.9%	5.7%	10.8%	0.3%	6.1%	11.3% 0.6%	9.5% 52.0%	7.1%	12.6% 53.6%	4.7% 0.1%	3.1%	7.1%	0.9%	0.4%	2.3%	0.2%	0.0%	1.3%	1.7%	0.0%	1.3%	68.2%	63.7% 3.6%	72.3%
2014 Bladder 2014 Bladder		Muscle-invasive	All	3264	7.1%	6.3%	8.1%	25.4%	24.0%	27.0%	11.2%	10.1%	12.3%	15.6%	14.4%	16.8%	11.9%	10.8%	13.0%	0.8%	0.5%	1.2%	1.0%	0.7%	1.4%	27.0%	25.5%	28.6%
2014 Bladder		Stage unknown	All	1186	7.2%	5.8%	8.8%	5.9%	4.7%	7.4%	0.8%	0.4%	1.4%	2.2%	1.5%	3.2%	0.8%	0.4%	1.4%	0.0%	0.0%	0.3%	0.2%	0.0%	0.6%	83.1%	80.8%	85.1%
2014 Bladder	Other	All stages	All	617	6.2%	4.5%	8.3%	11.8%	9.5%	14.6%	26.1%	22.8%	29.7%	12.0%	9.7%	14.8%	6.5%	4.8%	8.7%	3.6%	2.4%	5.3%	2.4%	1.5%	4.0%	31.4%	27.9%	35.2%
2014 Bladder 2014 Bladder	Other Other	Muscle-invasive Stage unknown	All	391 122	5.4%	3.5% 6.3%	8.1% 17.4%	14.8%	11.7%	18.7%	23.5%	19.6%	28.0%	15.3% 10.7%	12.1%	19.3%	7.2%	5.0%	7.0%	0.8%	0.1%	5.6% 4.5%	1.3%	0.5%	3.0% 4.5%	29.2% 47.5%	24.9% 38.9%	33.8% 56.3%
	All	Non-muscle-invasive		323	2.5%	1.3%	4.8%	0.9%	0.3%	2.7%	65.6%	60.3%	70.6%	0.3%	0.1%	1.7%	7.7%	5.3%	11.2%	0.6%	0.2%	2.2%	0.0%	0.0%	1.2%	22.3%	18.1%	27.1%
2015 Renal Pelvis and Ureter		Muscle-invasive	All	741	3.9%	2.7%	5.6%	1.9%	1.1%	3.1%	54.1%	50.5%	57.7%	1.6%	0.9%	2.8%	16.1%	13.6%	18.9%	3.2%	2.2%	4.8%	3.5%	2.4%	5.1%	15.7%	13.2%	18.4%
2015 Renal Pelvis and Ureter 2015 Bladder		Stage unknown Non-muscle-invasive	All T1	439 3615	8.9%	6.6%	11.9%	7.5%	5.4%	10.4%	7.1% 52.0%	5.0%	9.8%	4.3% 0.1%	2.8% 0.1%	6.7%	0.7%	0.2%	2.0%	0.5%	0.1%	1.6%	1.9%	0.0%	1.3%	70.8%	66.4% 2.7%	74.9%
2015 Bladder 2015 Bladder		Muscle-invasive	All	3313	7.4%	6.6%	8.3%	25.7%	24.2%	27.2%	10.2%	9.2%	11.3%	16.1%	14.9%	17.4%	12.3%	11.2%	13.4%	0.5%	0.3%	0.8%	0.8%	0.5%	1.1%	27.0%	25.5%	28.6%
2015 Bladder	Urothelial	Stage unknown	All	1162	5.9%	4.6%	7.4%	6.8%	5.5%	8.4%	0.3%	0.1%	0.9%	2.2%	1.5%	3.2%	0.3%	0.1%	0.9%	0.0%	0.0%	0.3%	0.2%	0.0%	0.6%	84.3%	82.1%	86.3%
2015 Bladder	Other	All stages	All	618	6.8%	5.1%	9.1%	14.7%	12.1%	17.7%	21.7%	18.6%	25.1%	9.7%	7.6%	12.3%	5.7%	4.1%	7.8%	2.9%	1.9%	4.6%	1.3%	0.7%	2.5%	37.2%	33.5%	41.1%
2015 Bladder 2015 Bladder	Other	Muscle-invasive Stage unknown	All	421	7.6%	5.4%	10.5%	18.8%	15.3%	22.8% 15.5%	20.4%	16.9%	24.5%	12.4%	9.5%	15.8%	4.3%	2.7%	6.7%	1.9%	0.0%	3.7%	0.9%	0.7%	3.1%	33.3% 63.7%	28.9%	37.9% 72.0%
2016 Renal Pelvis and Ureter	All		T1	307	2.9%	1.6%	5.5%	1.3%	0.5%	3.3%	63.8%	58.3%	69.0%	1.3%	0.5%	3.3%	7.2%	4.8%	10.6%	0.3%	0.1%	1.8%	0.0%	0.0%	1.2%	23.1%	18.8%	28.2%
	All	Muscle-invasive	All	708	4.4%	3.1%	6.1%	1.7%	1.0%	2.9%	54.9%	51.3%	58.6%	1.6%	0.9%	2.8%	20.2%	17.4%	23.3%	3.1%	2.1%	4.7%	1.8%	1.1%	3.1%	12.3%	10.1%	14.9%
2016 Renal Pelvis and Ureter 2016 Bladder		Stage unknown Non-muscle-invasive	All	484 3626	6.0%	4.2% 0.7%	8.5% 1.3%	7.2%	5.2%	9.9%	7.9% 50.6%	5.8% 49.0%	10.6% 52.3%	2.9%	1.7%	4.8% 0.3%	1.0%	0.4% 38.6%	2.4% 41.8%	0.8%	0.3%	2.1%	0.0%	0.0%	0.8%	74.2%	70.1%	77.9% 3.7%
2016 Bladder 2016 Bladder		Muscle-invasive	All	3333	7.6%	6.7%	8.5%	25.1%	23.7%	26.6%	9.7%	8.7%	10.7%	16.3%	15.1%	17.6%	11.0%	10.0%	12.1%	0.8%	0.6%	1.2%	0.7%	0.4%	1.0%	28.9%	27.4%	30.4%
2016 Bladder		Stage unknown	All	1056	6.4%	5.1%	8.1%	5.8%	4.5%	7.4%	1.0%	0.6%	1.9%	1.6%	1.0%	2.6%	0.9%	0.4%	1.6%	0.1%	0.0%	0.5%	0.1%	0.0%	0.5%	84.1%	81.8%	86.2%
2016 Bladder	Other	All stages	All	610	6.2%	4.6%	8.4%	12.0%	9.6%	14.8%	28.9%	25.4%	32.6%	9.2%	7.1%	11.7%	6.6%	4.9%	8.8%	3.6%	2.4%	5.4%	1.5%	0.8%	2.8%	32.1%	28.5%	35.9%
2016 Bladder 2016 Bladder	Other Other	Muscle-invasive Stage unknown	All	398 109	6.8% 7.3%	4.7%	9.7%	14.8%	11.7% 7.1%	18.7%	25.4% 17.4%	21.4%	29.9%	13.1%	10.1%	16.7% 9.1%	7.0%	4.9% 0.2%	10.0%	1.5%	0.7%	3.3%	1.0%	0.4%	2.6%	30.4% 56.9%	26.1% 47.5%	35.1% 65.8%
2017 Renal Pelvis and Ureter	All		T1	256	2.3%	1.1%	5.0%	1.6%	0.6%	3.9%	65.2%	59.2%	70.8%	0.8%	0.2%	2.8%	8.2%	5.4%	12.2%	0.4%	0.1%	2.2%	0.4%	0.1%	2.2%	21.1%	16.5%	26.5%
2017 Renal Pelvis and Ureter		Muscle-invasive	All	717	3.8%	2.6%	5.4%	1.7%	1.0%	2.9%	51.9%	48.2%	55.5%	1.4%	0.8%	2.5%	21.2%	18.4%	24.3%	2.2%	1.4%	3.6%	2.9%	1.9%	4.4%	14.9%	12.5%	17.7%
2017 Renal Pelvis and Ureter 2017 Bladder	All Urothelial	Stage unknown Non-muscle-invasive	All T1	464 3579	11.4%	8.8% 0.8%	14.6%	6.3%	4.4% 0.1%	8.8% 0.4%	4.1%	2.6%	6.3% 45.2%	4.3% 0.1%	2.8%	6.6% 0.2%	1.3%	0.6% 46.6%	2.8%	0.0%	0.0%	0.8%	0.2%	0.0%	1.2%	72.4%	68.2% 2.1%	76.3% 3.1%
2017 Bladder 2017 Bladder		Muscle-invasive	All	35/9	10.6%	9.7%	11.7%	21.0%	19.7%	22.4%	9.4%	8.5%	10.4%	16.8%	15.6%	18.0%	11.5%	10.5%	12.6%	0.5%	0.3%	0.8%	0.7%	0.4%	1.0%	29.5%	28.0%	31.0%
2017 Bladder	Urothelial	Stage unknown	All	1091	8.2%	6.8%	10.0%	5.0%	3.8%	6.4%	0.6%	0.3%	1.2%	1.7%	1.0%	2.6%	0.6%	0.3%	1.3%	0.1%	0.0%	0.5%	0.0%	0.0%	0.4%	83.9%	81.6%	85.9%
2017 Bladder 2017 Bladder	Other	All stages	All	646 445	7.1%	5.4%	9.4%	10.7%	8.5% 10.6%	13.3%	23.2%	20.1%	26.6%	10.8%	8.7%	13.5%	9.0%	7.0%	11.4%	2.0%	1.2%	3.4%	1.2%	0.6%	2.4%	35.9% 35.1%	32.3%	39.7% 39.6%
2017 Bladder 2017 Bladder		Muscle-invasive Stage unknown	All	108	7.9%	5.7%	16.2%	13.5%	4.4%	17.0%	19.3%	15.9%		7.4%	3.8%	17.5%	7.6%	3.8%	10.5%	0.0%	0.0%	3.8%	0.7%	0.2%	5.1%	35.1% 53.7%	30.8% 44.3%	39.6% 62.8%
2018 Renal Pelvis and Ureter		Non-muscle-invasive		261	7.7%	5.0%	11.5%	0.8%	0.2%	2.8%	57.1%	51.0%		0.4%	0.1%	2.1%	9.6%	6.6%	13.8%	0.4%	0.1%	2.1%	0.0%	0.0%	1.5%	24.1%	19.3%	29.7%
2018 Renal Pelvis and Ureter		Muscle-invasive	All	704	5.4%	4.0%	7.3%	0.7%	0.3%	1.7%	43.0%	39.4%	46.7%	1.3%	0.7%	2.4%	30.5%	27.3%	34.0%	0.6%	0.2%	1.5%	2.3%	1.4%	3.7%	16.2%	13.7%	19.1%
2018 Renal Pelvis and Ureter 2018 Bladder		Stage unknown Non-muscle-invasive	All	488	11.5%	8.9% 0.5%	14.6%	8.8% 0.1%	6.6%	11.7%	5.5%	3.8%	7.9%	3.9%	2.5%	6.0%	2.9%	1.7%	4.8%	0.4%	0.1%	2.8%	1.7%	0.0%	1.2%	66.8%	62.5%	70.8%
2018 Bladder 2018 Bladder		Muscle-invasive	All	3396	10.7%	9.7%	11.8%	20.6%	19.3%	22.0%	9.8%	8.9%	10.9%	15.8%	14.6%	17.0%	13.6%	12.5%	14.8%	0.5%	0.3%	0.8%	0.8%	0.5%	1.2%	28.3%	26.8%	29.8%
2018 Bladder	Urothelial	Stage unknown	All	1083	7.8%	6.4%	9.6%	5.5%	4.3%	7.1%	0.3%	0.1%	0.8%	2.7%	1.9%	3.8%	0.5%	0.2%	1.1%	0.0%	0.0%	0.4%	0.0%	0.0%	0.4%	83.2%	80.9%	85.3%
2018 Bladder	Other	All stages	All	629	9.7%	7.6%	12.3%	10.8%	8.6%	13.5%	22.7%	19.6%	26.2%	11.3%	9.0%	14.0%	7.8% 6.7%	5.9%	10.2%	2.1%	1.2%	3.5%	3.2%	2.1%	4.9%	32.4%	28.9%	36.2%
2018 Bladder 2018 Bladder	Other	Muscle-invasive Stage unknown	All	417 102	8.9% 17.6%	6.5%	12.0% 26.2%	9.8%	10.7%	17.3%	21.1% 7.8%	17.5%	25.3%	13.7%	10.7%	17.3%	2.0%	4.7% 0.5%	9.5%	0.0%	0.7%	3.1%	0.0%	0.0%	4.7%	31.9%	27.6% 39.5%	36.5% 58.6%
2019 Renal Pelvis and Ureter	All		T1	292	3.8%	2.1%	6.6%	1.0%	0.4%	3.0%	63.7%	58.0%	69.0%	2.1%	0.9%	4.4%	9.9%	7.0%	13.9%	0.3%	0.1%	1.9%	0.0%	0.0%	1.3%	19.2%	15.1%	24.1%
2019 Renal Pelvis and Ureter	All	Muscle-invasive	All	638	5.3%	3.8%	7.4%	1.9%	1.1%	3.3%	40.4%	36.7%	44.3%	1.7%	1.0%	3.1%	31.7%	28.2%	35.4%	2.7%	1.7%	4.2%	2.2%	1.3%	3.6%	14.1%	11.6%	17.0%
	All	Stage unknown	All	472	10.0%	7.6%	13.0%	6.1%	4.3%	8.7%	7.8%	5.7%	10.6%	2.8%	1.6%	4.7%	2.1%	1.2%	3.9%	0.2%	0.0%	1.2%	0.0%	0.0%	0.8%	71.0%	66.7%	74.9%
2019 Bladder 2019 Bladder		Non-muscle-invasive Muscle-invasive	T1 All	3518 3269	1.0% 9.9%	8.9%	1.4%	20.6%	0.1%	0.4%	47.2% 10.6%	45.6% 9.5%	48.9%	0.0% 17.7%	0.0%	0.2%	11.0%	10.0%	46.1% 12.1%	1.8%	1.5%	0.6%	2.4% 0.7%	2.0% 0.5%	3.0%	2.8%	2.3%	3.4%
2019 Bladder	Urothelial	Stage unknown	All	1481	8.9%	7.6%	10.5%	5.7%	4.7%	7.0%	0.9%	0.6%	1.6%	2.2%	1.6%	3.1%	1.6%	1.1%	2.4%	0.0%	0.0%	0.3%	0.1%	0.0%	0.4%	80.5%	78.4%	82.4%
2019 Bladder	Other	All stages	All	709	7.6%	5.9%	9.8%	7.8%	6.0%	10.0%	24.5%	21.5%	27.8%	9.9%	7.9%	12.3%	9.6%	7.6%	12.0%	2.8%	1.8%	4.3%	2.3%	1.4%	3.6%	35.5%	32.1%	39.1%
2019 Bladder 2019 Bladder	Other Other	Muscle-invasive Stage unknown	All	458 120	7.6%	5.5% 9.0%	10.4%	9.0%	6.7% 5.2%	11.9% 15.7%	23.1% 7.5%	19.5%	27.2% 13.6%	13.8%	10.9%	17.2%	9.2%	6.9% 1.8%	9.4%	1.5%	0.7%	3.1%	1.1%	0.5%	2.5%	34.7% 59.2%	30.5% 50.2%	39.2% 67.5%
TOTA PISODEL	orner	orake nukuowu	All	120	14.2%	9.0%	∠1.5%	9.2%	5.2%	15.7%	7.5%	4.0%	13.6%	5.8%	2.9%	11.6%	4.2%	1.8%	9.4%	0.0%	U.U%	3.1%	U.U%	0.0%	3.1%	59.2%	5U.2%	0/.5%

Supplementary table 2. Treatment choices for all cancers within this dataset.