

**THE BRITISH ASSOCIATION OF
UROLOGICAL SURGEONS**

SECTION of ONCOLOGY

**BAUS Cancer Registry
Analyses of Minimum data set for Urological cancers
January 1st – 31st December 2007**

October 2008

MEMBERS OF THE EXECUTIVE COMMITTEE

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PRODUCED FOR BAUS SECTION OF ONCOLOGY

by

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INTRODUCTION

It is once more a pleasure to write the introduction for the 2007 data for the Cancer Registry, on behalf of the Executive Committee of the Section of Oncology of BAUS.

It is rewarding to report an increase in the data returns, in terms of new tumours, but in comparison to the data from The UK Association of Cancer Registries, we are reporting about 47% of the true numbers. The distribution of workload is similar to previous years with prostate cancer taking 56% of the returns, bladder cancer 26% and kidney cancer 10%. These three combined are therefore 92% of our Oncology workload. The median number of new tumours per individual consultant is 52 and each urology unit or centre is dealing with a median of nearly 200 new cancers per year.

Close scrutiny of the data, as on previous years, will reveal interesting points, some of which I note here:

- There is still significant variation between the four UK countries in time from referral to consultation and then diagnosis, but a significant reduction of the whole time from consultation to diagnosis in Wales
- There has been a further improvement in the median time between referral and diagnosis, now being the shortest ever at 35 days – a tremendous improvement over the 59 days reported in 2000
- Whilst median times to definitive treatment for individual tumours are similar to last year, all are within the 62 cancer treatment standard, whilst mean times are diminishing
- There is a gradual increase in the numbers of prostate cancers being managed by Active Surveillance, especially those with a PSA level below 15
- As penile cancer treatments are now virtually all carried out by Supra-regional teams there is increasing use of organ conserving surgery, rather than radical ablative surgery
- The number of patients being successfully recruited into clinical trials has again fallen, now being only 1%

Following discussions at previous Section of Oncology meetings, and generous funding from BAUS Council, data entry to the cancer registry and the complex operations database will soon be web-based which it is hoped will rekindle enthusiasm and improve the numbers of cancers, and their treatment, being reported.

Sarah Fowler continues to perform the job of data analysis with remarkable equanimity in the face of poor and late data entry, and as ever, my thanks go to her.

Gregor McIntosh
Salisbury

October 2008

AUDIT RESULTS SUMMARY January 1st – 31st December 2007

Who took part?

391 consultant urologists from 109 hospital centres in England, Wales, Scotland and Northern Ireland provided data for this study submitting data on 25,762 newly presenting urological tumours from 1st January to 31st December 2007. These figures represent approximately 47% of the total UK tumours registered in 2005/2006 (54,418) (the most recent years available). 1.5% (386/25762) are the private patients of 75 consultants.

How were the data analysed?

Information obtained from consultants was entered into the computer database using unique identifying numbers for individual consultants or, if they preferred, a centre number. Twelve centres returned data under a centre number only (46 consultants in total).

Data could be returned either in electronic format using either an Access (Microsoft) database or “in-house” database (23,877 – 93% of returns) designed for the purpose or by completion of a pro forma for each patient (10% of returns). The pro formas were entered directly into an Access database, at which time validation comprising mainly of checks for duplicate entries and on dates and sex of patient could be carried out. 174 tumours were registered twice as a tertiary referral from another centre or another consultant in the same centre. They were only included once in all the analyses using the data from the primary site for all analyses except those relating to staging and treatment when the tertiary site data was used. In addition 309 benign tumours were registered but these have been excluded from all analyses.

The data presented here are a summary of the data received up to 1st October 2008 and relate to diagnoses made during the whole of 2007. The following data was included (this includes the total returns):

- a. Patients for who the date of diagnosis fell within the time period. (01/01/2007 to 31/12/2007). 25,235 registrations (97.3%).
- b. Patients for whom the date of diagnosis was either not included or the patient was a tertiary referral, but the referral date fell within the study period. (01/01/2007 to 31/12/2007) 633 registrations (2.4%).
- c. Patients for whom the diagnosis and referral dates were either not included or the patient was a tertiary referral, but the date of first consultation fell within the study period. (01/01/2007 to 31/12/2007). 68 (0.3%).

For the ranked charts (1, 2, 4, & 5) the individual consultant or centre identification numbers were removed and replaced with rank numbers starting at 1. A unique, confidential "Ranking Sheet" was prepared for each surgeon to enable them to identify their rank in every chart. For those charts where overall figures for the entire database are shown the ranking sheet displays the consultant's individual figures. No one else can identify the results of an individual consultant. The ranked comprise single bars, with in addition the 25, 50, and 75 percentiles and are ranked from left to right in the ascending order of the data item being measured. Where percentages are included figures have been rounded up to one decimal point. Unless otherwise stated all analyses represent the 2007 dataset.

A personal ranking sheet for each consultant registering four or more tumours was issued individually to go with this chartbook.

Sarah Fowler
BAUS Cancer Registry (BCR) Manager

October 2008

A. Who took Part and Overall Figures

Whilst the total returns are slightly higher than those for 2006 it is noted that this is from fewer centres overall. (109 compared to 117 in 2006). The number of major cancer centres not returning any data at all is still worryingly high.

The number of centres using their own in-house systems to return data has increased yet again but unfortunately the completeness of data returned by many of these systems remains less so than when returned using the specially designed Microsoft Access database making validation and analyses more complicated. It is to be hoped that these problems will be resolved shortly.

As in previous years we have incorporated comparison with National Cancer Statistics from 2005/2006 – the latest years available. Comparison with the national data does suggest that our data are representative of the UK as a whole. However when comparing our data with that of the national data we should bear in mind the following:

- Our data are only being collected by urologists. We have no way of estimating the number of urological cancers that are not being seen or diagnosed by urologists. In the case of kidney cancer, it seems that a substantial number are never seen by a urological surgeon.
- These data are being presented within ten months of the completion of the year of data collection and being compared to projected national figures from 2005/2006, which are the latest to be published.
- For the majority of participants, there is no specific funding for data collection and the analysis and presentation is entirely funded by the Section of Oncology.

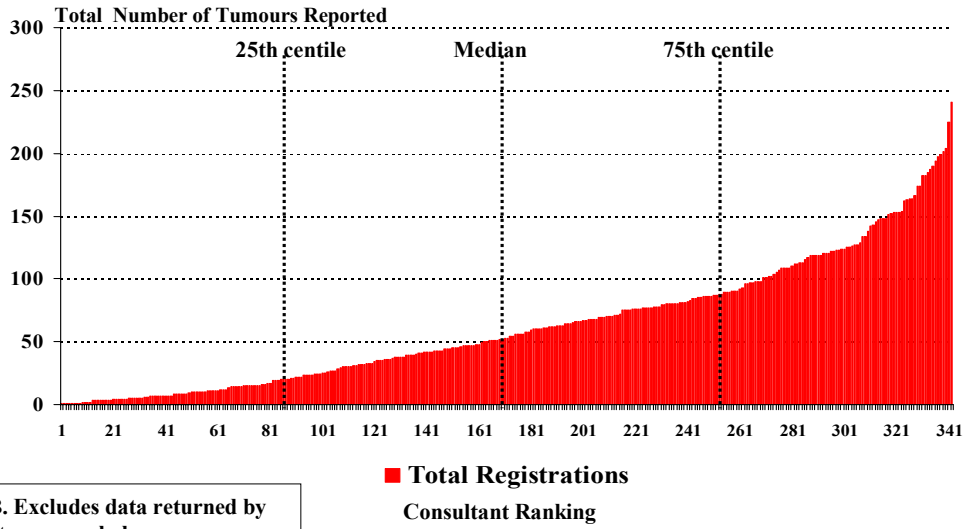
BAUS - Register of Newly Presenting Urological Tumours January 1st - December 31st 2007

Who took part

- **391 Consultants from 109 Centres provided data on 25,762 newly presenting urological tumours.**
- **1.5% (386/25762) were from the private patients of 75 Consultants**
- **Range of Consultants per Centre = 1 - 11, (Median 3)**
- **Median number of tumours per Consultant = 52, Range 1 - 241**
- **Median number of tumours per Centre = 199, Range 2 - 966**
- **93% (23877/25762) of the data were returned electronically**

Chart 1

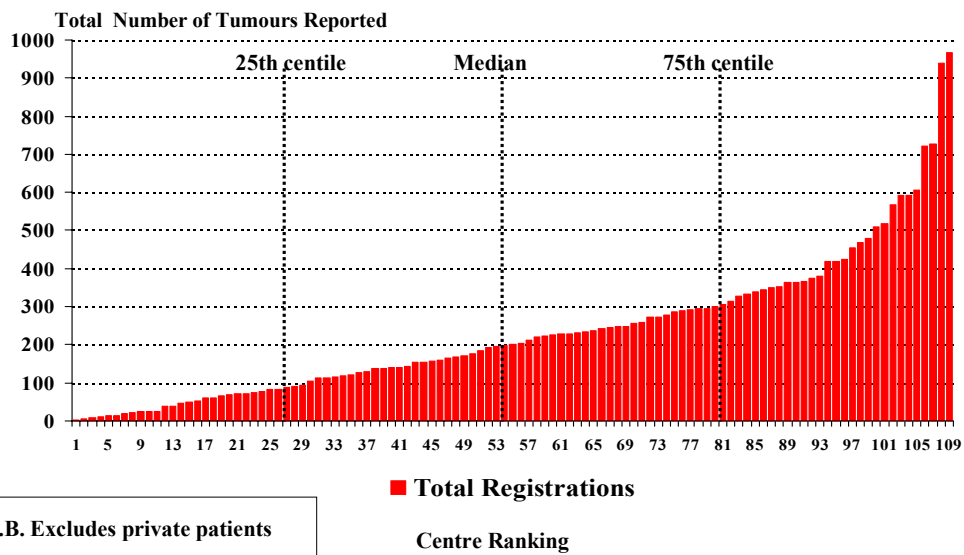
Total Number of Newly Presenting Tumours Reported per Consultant
Median: 52 (Interquartile Range 20 - 90)



N.B. Excludes data returned by centres as a whole

Chart 2

Total Number of Newly Presenting Tumours Reported per Centre
Median: 199 (Interquartile Range 87 - 314)



N.B. Excludes private patients

Chart 3

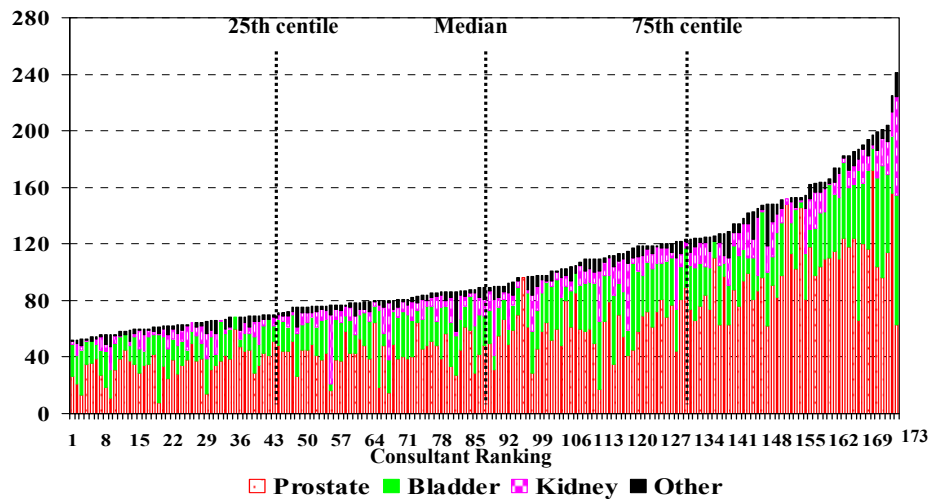
Number of Newly presenting Tumours by Organ per Consultant
388 Consultants reported 25,762 Tumours
Median Total per Consultant = 52

Organ	Total Number Reported	Median per Consultant	Range
Prostate *	14491	29	0 – 172
Bladder	6845	11	0 – 147
Kidney	2772	2	0 – 70
Testis	824	1	0 – 16
Pelvis/Ureter	384	1	0 – 9
Penis	269	0	0 – 25
Urethra	24	0	0 – 2
Prostatic Urethra	12	0	0 - 2

* Includes 109 registrations with High Grade PIN only

Chart 4

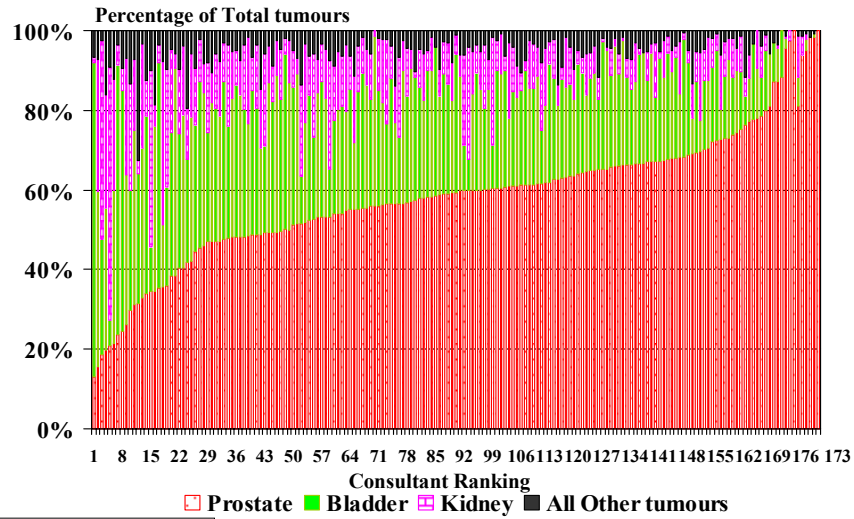
Total Number of Newly Presenting Tumours Reported per Consultant
by Organ where n >=52 (i.e. the median reported per consultant)



N.B. Excludes data returned by centres as a whole

Chart 5

**Total Number of Newly Presenting Tumours Reported per Consultant
by Organ where n >=52 (i.e. the median reported per consultant)
Ranked by Prostate proportion**



N.B. Excludes data returned by centres as a whole

Chart 6

Overall Data by Organ

Organ	Number Recorded	Percentage of Total (25762)	Mean Age at Diagnosis	Age Range	Males	Females
Prostate *	14491	56.2	71.1	35-101	14490	-
Bladder	6845	26.6	72.6	21-101	4888	1695
Kidney	2772	10.8	66.2	0-102	1706	961
Testis	824	3.2	39.2	1-95	824	-
Pelvis/Ureter	384	1.5	71.6	25-98	230	144
Penis	269	1.0	62.2	20-92	268	-
Urethra	24	0.1	67.9	41-87	13	10
Prostatic Urethra	12	0.0	75.5	47-87	12	-
Other	41	0.2	63.8	35-87	32	8
Not recorded	100	0.4	71.6	34-98	91	8

* Includes 109 registrations with High Grade PIN only

Chart 7

Overall Data by Organ by Year*

Organ	2007 Number Recorded	% of Total (25,762)	2006 Number Recorded	% of Total (25,401)	2005 Number Recorded	% of Total (22,309)	2004 Number Recorded	% of Total (24,532)	2003 Number Recorded	% of Total (27,225)
Prostate	14491**	56.2	14101***	55.5	12809*#	57.4	14858##	60.6	16055#	58.9
Bladder	6845	26.6	6757	26.6	5953	26.7	6073	24.8	7218	26.5
Kidney	2772	10.8	2479	9.8	2044	9.2	2104	8.6	2254	8.3
Testis	824	3.2	849	3.3	738	3.3	750	3.1	910	3.3
Pelvis/Ureter	384	1.5	347	1.4	237	1.1	291	1.2	342	1.3
Penis	269	1.0	276	1.1	220	1.0	196	0.8	179	0.6
Urethra	24	0.1	28	0.1	25	0.1	29	0.1	40	0.15
Prostatic Urethra	12	0.0	12	0.0	13	0.1	15	0.1	15	0.05
Other	41	0.2	414	1.6	192	0.9	29	0.1	61	0.2
Not recorded	100	0.4	138	0.5	78	0.3	187	0.8	151	0.56

* Last five years only

Including registrations with High Grade PIN only:

** 109; *** 121; *# 106; ## 84; #176;

Chart 8

“Other” Organ Tumours

The 41 “Other” Organs recorded included:

- 6 Bone**
- 4 Paratesticular / scrotal**
- 3 Urachal**
- 3 Adrenal tumours**

Chart 9

Total Registrations per Country - 1 Prostate, Bladder, Kidney, Testis, Pelvis/Ureter & Penile Tumours*

Region	2007 Total Registrations* BAUS	National figures**	2006 BAUS % National	2005 BAUS % National	% Change from 2005#
England	21,237	45,383	46.8	44.2	2.6
Scotland	1,878	4,094	45.9	53.4	-7.5
Wales	1,924	3,755	51.2	53.7	-2.5
Northern Ireland	545	1,186	46.0	50.8	-4.8
Total UK	25,584	54,418	47.0	45.8	1.2

**England : cancer statistics - registrations of cancer diagnosed in 2005, England. Series MBI no. 36 – 2008
Wales: Welsh Cancer Intelligence & Surveillance Unit - 2006
Scotland: Scottish Cancer Registry, Scottish Cancer Intelligence Group, ISD Scotland - 2005
Northern Ireland: Northern Ireland Cancer Registry - 2005 - www.qub.ac.uk/nicr
Change in BAUS returns for 2007 of 2006 as a % of the National figures

Chart 10

Returns by Cancer Network (England only)

Cancer Network	Returns 2007	Approximate Population	Returns as % of Population
Lancashire & South Cumbria	676	1,480,630	0.05
Greater Manchester & Cheshire	711	2,955,668	0.02
Merseyside & Cheshire	1452	2,012,568	0.07
Northern	1364	1,922,929	0.07
Teeside, South Durham & North Yorkshire	0	1,020,947	0.00
Yorkshire	1519	2,557,742	0.06
Humber & Yorkshire Coast	676	1,025,645	0.07
North Trent	716	1,742,009	0.04
North West Midlands	75	1,224,333	0.01
Black Country	340	896,500	0.04
Pan Birmingham	952	1,612,196	0.06
Arden	675	969,069	0.07
Mid Trent	519	1,556,063	0.03
Derby / Burton	769	667,764	0.12
Leicestershire, Northamptonshire & Rutland	1255	1,502,967	0.08
Norfolk & Waveney	0	755,785	0.00
West Anglia	221	1,511,927	0.01
Mid Anglia	257	978,676	0.03
South Essex	377	702,606	0.05
Mount Vernon	829	1,452,009	0.06
West London	185	1,732,020	0.01
North London	105	1,178,447	0.01
North East London	240	1,495,174	0.02
South East London	0	1,488,199	0.00
South West London	266	1,539,603	0.02
Peninsula	1083	1,576,186	0.07
Dorset	1093	692,712	0.16
Avon, Somerset & Wiltshire	758	1,983,850	0.04
3 Counties	484	1,017,912	0.05
Thames Valley	1222	2,133,676	0.06
Central South Coast	1839	1,908,300	0.10
Surrey, West Sussex & Hampshire	0	1,182,807	0.00
Sussex	638	1,082,706	0.06
Kent & Medway	78	1,579,206	0.00

Populations have been calculated from the populations of the constituent PCTs. The population of each PCT was calculated by the summation of the population of their constituent census wards. Each census ward was allocated to a PCT using the postcodes within the ward since ONS have allocated every postcode in England to a PCT.

Source: National Cancer Services Analysis Team – October 2005

Chart 11

Total Registrations per Country - 2

Region	Prostate BAUS	National figures*	BAUS % National	Bladder BAUS	National figures*	BAUS % National	Kidney BAUS	National figures*	BAUS % National
England	12024	28886	41.6	5705	8494	67.2	2279	5177	44.0
Scotland	974	2420	40.2	531	715	74.3	236	609	38.8
Wales	1117	2157	51.8	508	970	52.4	209	419	49.9
Northern Ireland	376	748	50.3	101	194	52.1	47	151	31.1
Total UK	14,491	34,211	42.4	6,845	10,373	66.0	2,771	6,356	43.6

**England : cancer statistics - registrations of cancer diagnosed in 2005, England. Series MBI no. 36 – 2008
Wales: Welsh Cancer Intelligence & Surveillance Unit - 2006
Scotland: Scottish Cancer Registry, Scottish Cancer Intelligence Group, ISD Scotland - 2005
Northern Ireland: Northern Ireland Cancer Registry - 2005 - www.qub.ac.uk/nicr

Chart 12

Total Registrations per Country - 3

Region	Testis BAUS	National figures*	BAUS % National	Pelvis/ Ureter BAUS	National figures*	BAUS % National	Penis BAUS	National figures*	BAUS % National
England	684	1715	39.9	325	722	45.0	220	389	56.6
Scotland	81	233	34.8	31	73	42.5	25	44	56.8
Wales	49	119	41.2	24	61	39.3	17	29	58.6
Northern Ireland	10	64	15.6	4	20	20.0	15	9	166.7
Total UK	824	2131	38.7	384	876	43.8	277	471	58.8

**England : cancer statistics - registrations of cancer diagnosed in 2005, England. Series MBI no. 36 – 2008
Wales: Welsh Cancer Intelligence & Surveillance Unit - 2006
Scotland: Scottish Cancer Registry, Scottish Cancer Intelligence Group, ISD Scotland - 2005
Northern Ireland: Northern Ireland Cancer Registry - 2005 - www.qub.ac.uk/nicr

Chart 13

Laterality by Organ

Organ	Total Number Recorded	Laterality recorded & % of total	Left Side *	Right Side *
Kidney	2774	2322 83.7%	1165 50.2%	1157
Testis	826	704 85.2%	325 46.2%	379
Pelvis/Ureter	384	286 74.5%	159 55.6%	127

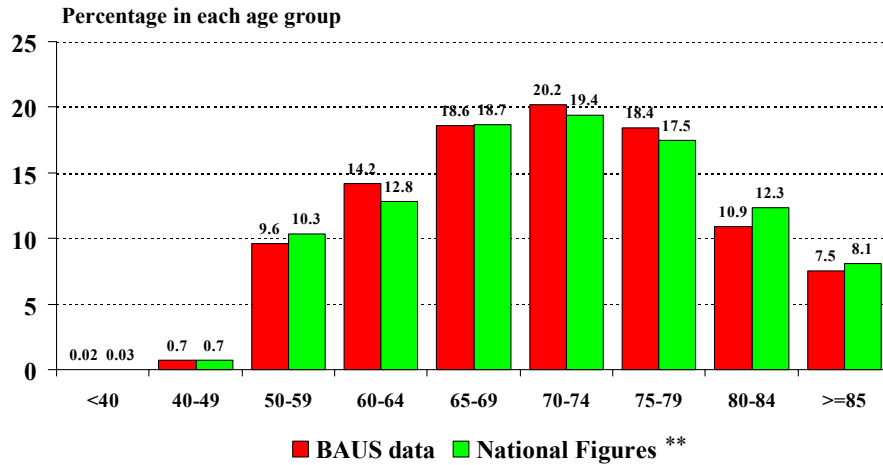
* Number and percentage of those where laterality was recorded

Chart 14

- **Total number of synchronous bilateral tumours = 15**
All Kidney
- **Total number of Tumours registered twice = 174**
(Tertiary referral from another centre or another consultant in the same centre). Only included once in all analyses
- **Total number of patients where there were tumours in different organs in the same year = 225**
(including 2 patients with 3 separate tumours)

Chart 15

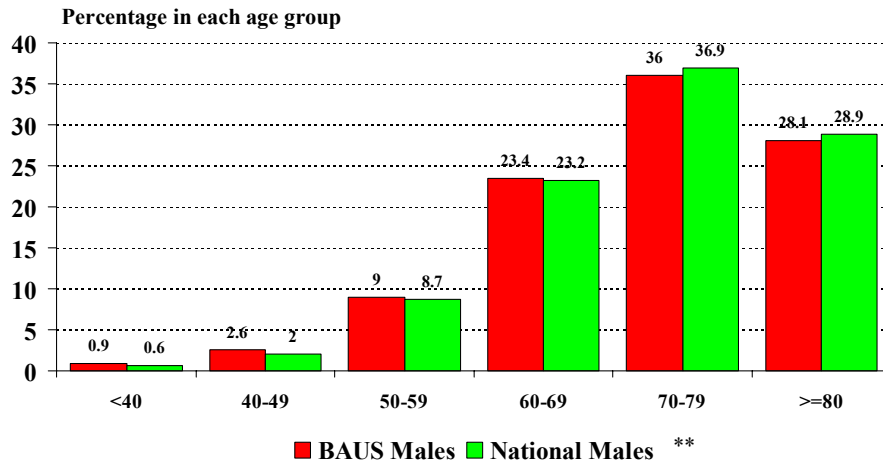
Percentage Age Distribution - Prostate Tumours BAUS 2007 median: 71 Years; Range 35 -101 (n= 14,148*)



* Age could be calculated when both date of birth and diagnosis date were recorded = 14,148/14,491 = 97.6%
 ** National figures are for 2005 (England, Scotland, Northern Ireland), 2006 (Wales)

Chart 16

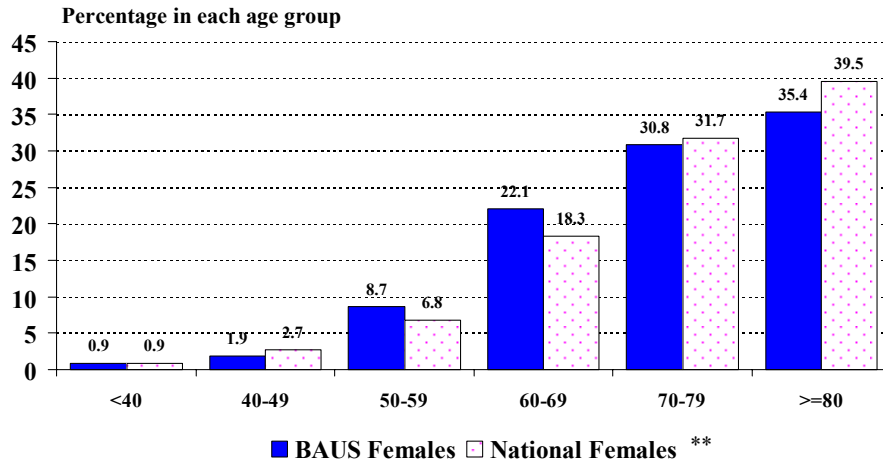
Percentage Age Distribution - Bladder Tumours - Males BAUS 2007 median Males: 74 Years; Range 22 - 100 (n= 4,762*)



* Sex was recorded in 6583/6845 (96%) bladder tumours (4888 males & 1695 females)
 Age could be calculated when both date of birth and diagnosis date were recorded = 4762/4888 (97%) & 1647/1695 (97%)
 ** National figures are for 2004 (England, Scotland), 2005 (Wales, Northern Ireland)

Chart 17

Percentage Age Distribution - Bladder Tumours - Females BAUS 2007 median Females: 75 Years; Range 21 - 101 (n= 1,647*)



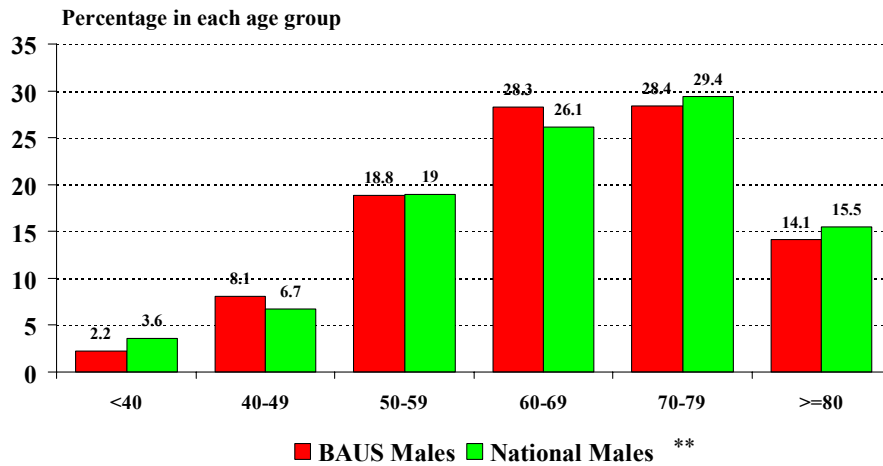
* Sex was recorded in 6583/6845 (96%) bladder tumours (4888 males & 1695 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 4762/4888 (97%) & 1647/1695 (97%)

** National figures are for 2004 (England, Scotland), 2005 (Wales, Northern Ireland)

Chart 18

Percentage Age Distribution - Kidney Tumours- Males BAUS 2007 median Males : 67 Years; Range 0 - 102 (n= 1,656*)



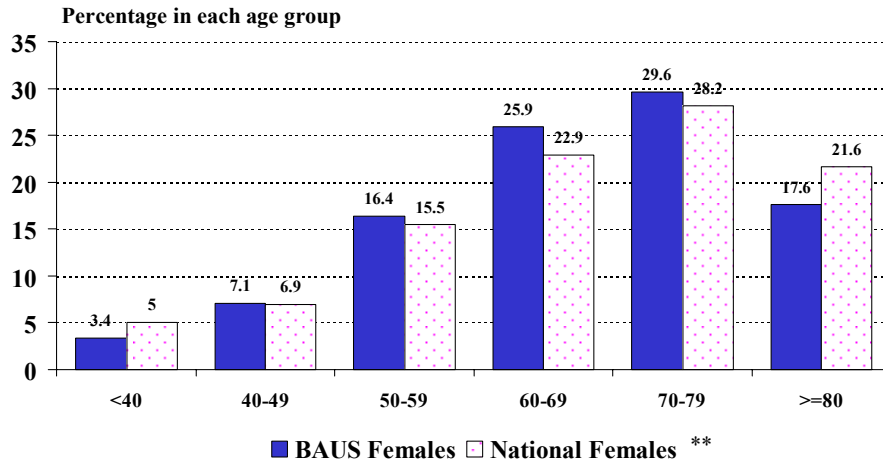
* Sex was recorded in 2667/2772 (96%) kidney tumours (1706 males & 961 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 1656/1706 (97.1%) & 934/961 (97.2%)

** National figures are for 2005 (England, Scotland, Northern Ireland), 2006 (Wales)

Chart 19

Percentage Age Distribution - Kidney Tumours - Females BAUS 2007 median Females : 69 Years; Range 3 - 101 (n= 934*)



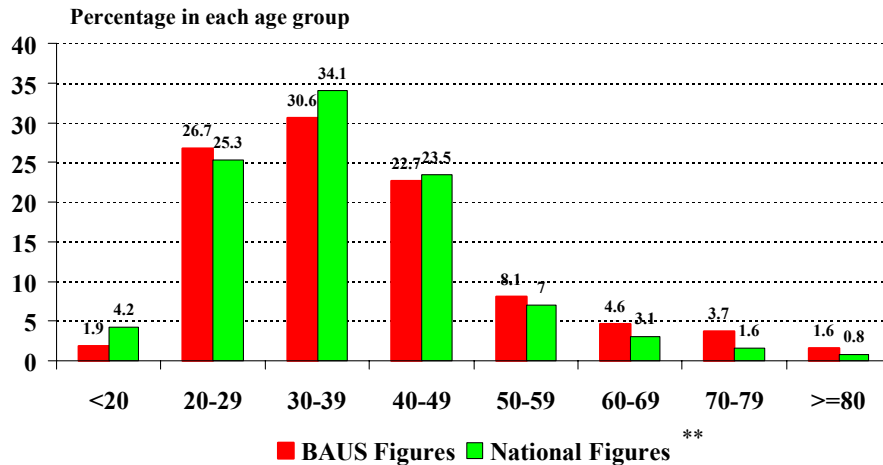
* Sex was recorded in 2667/2772 (96%) kidney tumours (1706 males & 961 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 1656/1706 (97.1%) & 934/961 (97.2%)

** National figures are for 2005 (England, Scotland, Northern Ireland), 2006 (Wales)

Chart 20

Percentage Age Distribution - Testicular Tumours BAUS 2007 median: 37 Years; Range 1 - 95 (n= 801*)



* Age could be calculated when both date of birth and diagnosis date were recorded = 801/824 (97%).

** National figures are for 2004 (England, Scotland, Northern Ireland), 2006 (Wales)

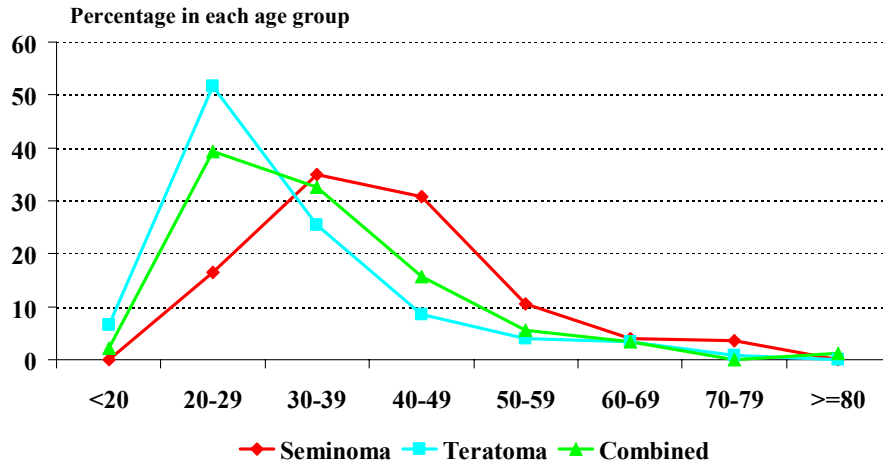
Chart 21

Percentage Age Distribution - Testicular Tumours

Seminoma median age : 39 years; Range 20 - 79; (n = 440*)

Teratoma median age : 28 years; Range 1 - 72; (n = 153*)

Combined seminoma/teratoma median age : 31 years; Range 17 - 81; (n = 89*)



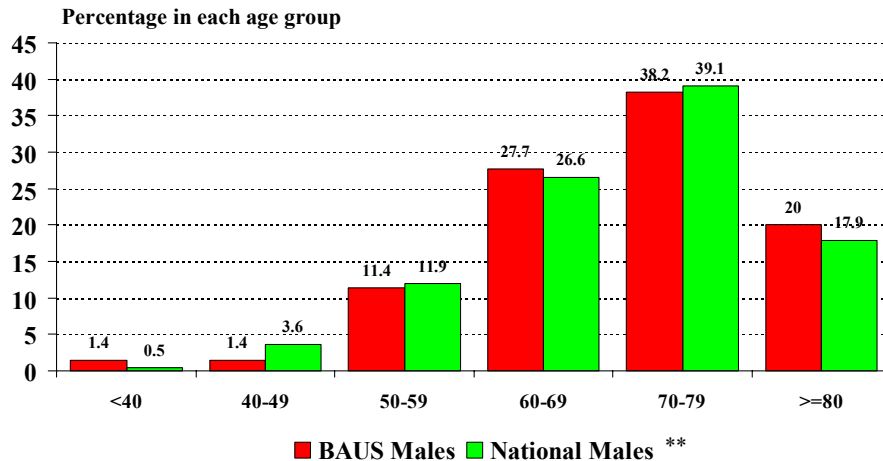
* Age could be calculated when both date of birth and diagnosis date were recorded = 801/826 (97%).

Histology was reported in 748 of these tumours. (748/801 = 93.4%), 66 of these were histologies other than the above groups

Chart 22

Percentage Age Distribution - Pelvis/Ureteric Tumours - Males

BAUS 2007 median Males : 72 Years; Range 25 - 91 (n = 220*)



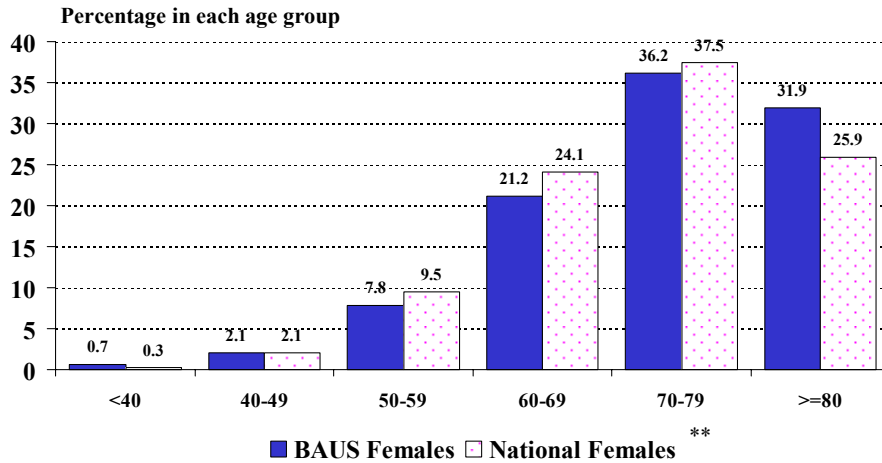
* Sex was recorded in 374/384 (97%) pelvis/ureteric tumours (230 males & 144 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 220/230 (96%) & 141/144 (98%)

** National figures are for 2005 (England, Scotland, Northern Ireland), 2006 (Wales)

Chart 23

Percentage Age Distribution - Pelvis/Ureteric Tumours - Females
BAUS 2007 median Females : 76 Years; Range 36 -98 (n=141*)



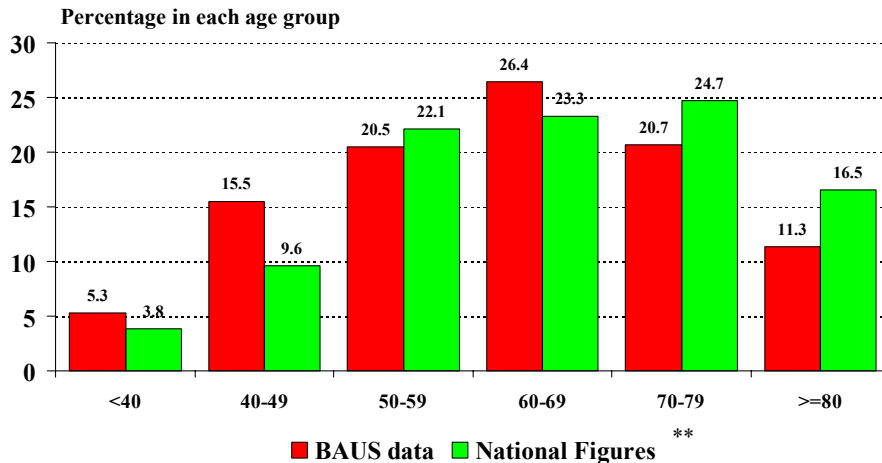
* Sex was recorded in 374/384 (97%) pelvis/ureteric tumours (230 males & 144 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 220/230 (96%) & 141/144 (98%)

** National figures are for 2005 (England, Scotland, Northern Ireland), 2006 (Wales)

Chart 24

Percentage Age Distribution - Penile Tumours
BAUS 2007 median: 63 Years; Range 20 -92 (n= 263*)



* Age could be calculated when both date of birth and diagnosis date were recorded = 263/269 = 98%

** National figures are for 2005 (England, Scotland, Northern Ireland), 2006 (Wales)

B. Referral Source, Priority & Time between Referral, First Consultation, Diagnosis and Definitive Treatment

In this section we have included charts from the 2006 dataset to allow for comparisons.

'Priority of referral' has been recorded in 93% of GP referrals and has enabled analysis of patients referred under the two-week rule as distinct from other types of referral*. Ninety-one percent (91.0%) of GP referrals, under the two-week rule, were seen within 14 days. This is virtually identical to 2006 (91.5%) and a significant increase at 95% CI from 2002 data when 73% of this group were seen within 14 days.

The overall time from referral to diagnosis has fallen significantly from 2004 and is now the shortest since data collection started in 1999.

Recording of date of definitive treatment remains a problem with only 78% of returns including this item although this is a small increase from 2006 (73%) and interpretation must still be cautious. In some cases, the date of definitive treatment was recorded as being before the date of diagnosis! Any negative times between diagnosis and definitive treatment date were treated as 0 i.e. definitive treatment date = date of diagnosis.

The delays from referral to definitive treatment are substantial and disease progression during this time should be considered.

Under the new government cancer waiting times targets* (implemented from April 1st 2003 for urological cancers), urgent GP referrals should be seen within 14 days, and first definitive treatment should be within 31 days for testicular cancers and 62 days for all other cancers. None urgent GP referrals should aim to have a maximum of 31 days between diagnosis and first definitive treatment.

* England only – all charts looking at times to consultation, diagnosis and treatment for patients referred under the 2 week rule exclude returns from Scotland, Wales & Northern Ireland.

Chart 25

Source of Referral by Organ - 2007

Organ	GP		Urologist		Other		Not Recorded	
	N	%	N	%	N	%	N	%
Prostate	10021	69.2	1041	7.2	2445	16.9	984	6.8
Bladder	4790	70.0	354	5.2	1294	18.9	407	5.9
Kidney	1214	43.8	251	9.1	1104	39.8	203	7.3
Testis	560	68.0	69	8.4	149	18.1	46	5.6
Pelvis/Ureter	196	51.0	45	11.7	117	30.5	26	6.8
Penis	141	52.4	54	20.1	58	21.6	16	5.9
Urethra	10	41.7	3	12.5	10	41.7	1	4.2
Prostatic Urethra	5	41.7	0	0.0	4	33.3	3	25.0
Other or Not Recorded	73	51.8	15	10.6	41	29.1	12	8.5
Totals	17010	66.0	1832	7.1	5222	20.3	1698	6.6

Chart 26

Source of Referral by Organ - 2006

Organ	GP		Urologist		Other		Not Recorded	
	N	%	N	%	N	%	N	%
Prostate	9705	68.8	890	6.3	2524	17.9	982	7.0
Bladder	4812	71.2	319	4.7	1179	17.4	447	6.6
Kidney	1044	42.1	218	8.8	1013	40.9	203	8.2
Testis	636	74.9	22	2.6	147	17.3	44	5.2
Pelvis/Ureter	180	51.9	51	14.7	98	28.2	18	5.2
Penis	118	42.6	75	27.1	58	20.9	26	9.4
Urethra	14	50.0	0	0.0	10	35.7	4	14.3
Prostatic Urethra	5	41.7	3	25.0	3	25.0	1	8.3
Other or Not Recorded	344	62.3	76	13.8	39	7.1	93	16.8
Totals	16858	66.4	1654	6.5	5071	20.0	1818	7.2

Chart 27

“Other” Sources of Referral by Organ included:

	Prostate	Bladder	Kidney	Testis	Pelvis/ Ureter	Penis	Urethra	Prostatic Urethra
Consultant Physicians	268	170	271	4	17	14		
Consultant Surgeons	190	113	171	19	10	7	2	
A & E	261	268	124	42	23	6		
Gynaecology		49	16		3		2	
Care of Elderly	17	8	12		2	1		
Haematology	6	5	20	1				
Oncologists	25	22	24	3				
Discovered during Urological Follow-up	502	96	45	5	18	6	2	2
Radiology	4	8	32	12	1			
Incidental Finding	234	94	112	8	7	5		
Other	226	103	97	11	11	7		

Chart 28

Source of Referral by Country - 2007 Country could be identified in all 25,762 tumours (100%)

Region	GP		Urologist		Other		Not Recorded	
	N	%	N	%	N	%	N	%
England	14383	67.3	1369	6.4	4094	19.2	1528	7.1
Scotland	1050	55.9	151	8.0	657	35.0	21	1.1
Wales	1297	67.2	215	11.1	392	20.3	26	1.3
Northern Ireland	280	48.4	97	16.8	80	13.8	122	21.1
Total UK	17010	66.0	1832	7.1	5223	20.3	1697	6.6

Chart 29

Source of Referral by Country - 2006 Country could be identified in all 25401 tumours (100%)

Region	GP		Urologist		Other		Not Recorded	
	N	%	N	%	N	%	N	%
England	13649	66.8	1382	6.8	3842	18.8	1549	7.6
Scotland	1463	63.7	4	0.2	778	33.9	51	2.2
Wales	1365	68.6	67	3.4	352	17.7	205	10.3
Northern Ireland	381	54.9	201	29.0	99	14.3	13	1.9
Total UK	16858	66.4	1654	6.5	5071	20.0	1818	7.2

Chart 30

Priority of GP Referrals by Organ 2007

Priority	Prostate		Bladder		Kidney		Testis		Pelvis/ Ureter		Penis		Totals	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 2 week rule	4819	48.1	2548	53.2	610	50.2	348	62.1	82	41.8	48	34.0	8455	50.0
Emergency	154	1.5	155	3.2	72	5.9	14	2.5	6	3.1	4	2.8	405	2.4
Urgent	1894	18.9	926	19.3	315	25.9	126	22.5	55	28.1	37	26.2	3353	19.8
Routine	2321	23.2	828	17.3	145	11.9	40	7.1	38	19.4	22	15.6	3394	20.1
Discovered during urological follow-up	35	0.3	4	0.1	3	0.2	0	0.0	2	1.0	0	0.0	44	0.3
Unknown / Not Recorded	798	8.0	329	6.9	69	5.7	32	5.7	13	6.6	30	21.3	1271	7.5
Total	10021		4790		1214		560		196		141		16922	

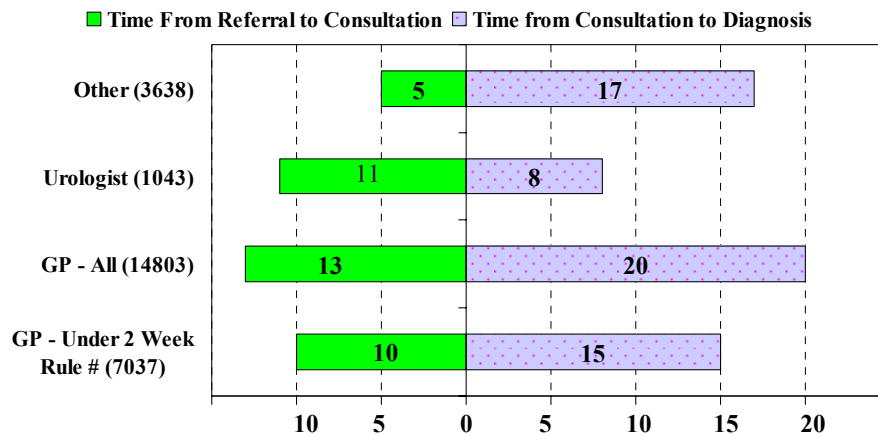
Chart 31

Priority of GP Referrals by Organ 2006

Priority	Prostate		Bladder		Kidney		Testis		Pelvis/ Ureter		Penis		Totals	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 2 week rule	4224	43.5	2341	48.6	489	46.8	397	62.4	59	32.8	52	44.1	7562	45.8
Emergency	211	2.2	176	3.7	67	6.4	12	1.9	11	6.1	4	3.4	481	2.9
Urgent	2131	22.0	964	20.0	258	24.7	162	25.5	41	22.8	33	28.0	3589	21.8
Routine	2378	24.5	959	19.9	155	14.8	37	5.8	46	25.6	19	16.1	3594	21.8
Discovered during urological follow-up	45	0.5	6	0.1	3	0.3	0	0.0	0	0.0	0	0.0	54	0.3
Unknown / Not Recorded	716	7.4	366	7.6	72	6.9	28	4.4	23	12.8	10	8.5	1215	7.4
Total	9705		4812		1044		636		180		118		16495	

Chart 32

Median Time to First Consultation and Diagnosis in Days by Referral Source in Days Excluding tumours diagnosed before Referral* - 2007



* Times were calculated when dates of referral, consultation and diagnosis were known

and diagnosis date was not before referral date (N = 19,843/25,762 = 77% tumours)

Referral Source was recorded in 19,485/19,843 (98%) cases

Referral priority was recorded in 98% (12253/12469) GP referrals in England where 2 week rule operates

Chart 33

**Times to First Consultation and Diagnosis in Days
when referred by GP (14,803 tumours)
Excluding those diagnosed before Referral - 2007**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	687	4.6	2600	17.6
1 – 14	8225	55.6	3556	24.0
15 – 28	2358	15.9	3303	22.3
29 - 60	2364	16.0	2913	19.7
More than 60 days	1169	7.9	2431	16.4

* = the number seen either on the day of referral or diagnosed at first consultation

Chart 34

**Times to First Consultation and Diagnosis in Days
when referred by GP under the 2 week rule (7,037 tumours)
Excluding those diagnosed before Referral - 2007**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	72	1.0	1503	21.4
1 – 14	6330	90.0	1964	27.9
15 – 28	493	7.0	1768	25.1
29 - 60	117	1.7	1287	18.3
More than 60 days	25	0.4	515	7.3

* = the number seen either on the day of referral or diagnosed at first consultation

Chart 35

**Times to First Consultation and Diagnosis in Days
when referred by a Urologist (1043 tumours)
Excluding those diagnosed before Referral - 2007**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	317	30.4	370	35.5
1 – 14	307	29.4	228	21.9
15 – 28	217	20.8	147	14.1
29 - 60	134	12.8	172	16.5
More than 60 days	68	6.5	126	12.1

* = the number seen either on the day of referral or diagnosed at first consultation

Chart 36

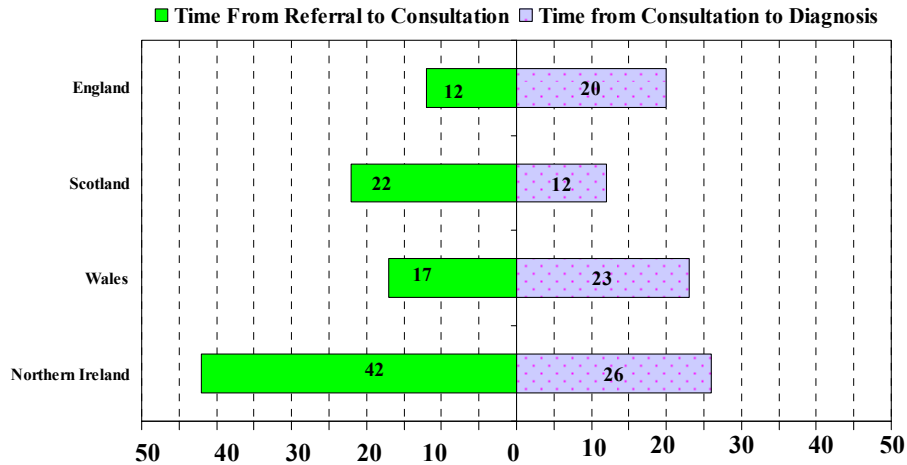
**Times to First Consultation and Diagnosis in Days
when referred by “Other” source (3,638 tumours)
Excluding those diagnosed before Referral - 2007**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	1507	41.4	784	21.6
1 – 14	1039	28.6	903	24.8
15 – 28	436	12.0	622	17.1
29 - 60	427	11.7	678	18.6
More than 60 days	229	6.3	651	17.9

* = the number seen either on the day of referral or diagnosed at first consultation

Chart 37

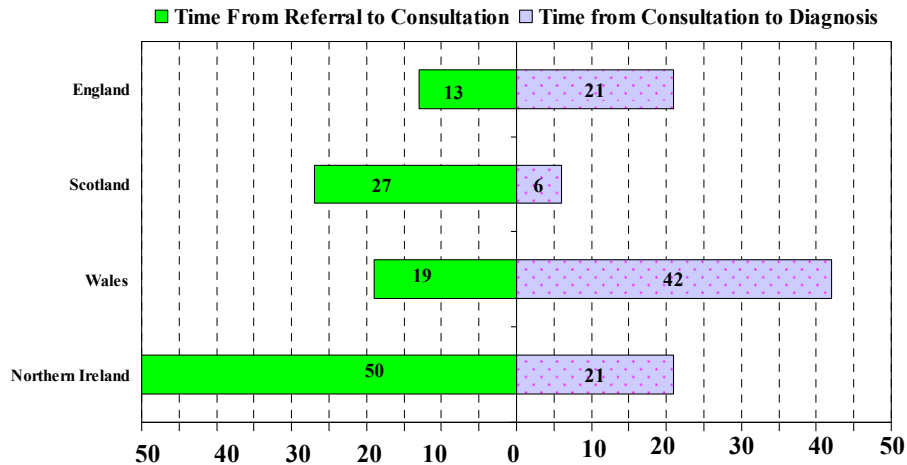
Median Time to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2007
Excluding tumours diagnosed before Referral*



* Times were calculated when Country, dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date N = 14,803/17,258 = 85.8% of GP referrals

Chart 38

Median Time to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2006
Excluding tumours diagnosed before Referral*



* Times were calculated when Country, dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date N = 15,026/16,858 = 89% of GP referrals

Chart 39

Times to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2007
Excluding tumours diagnosed before Referral

Region	Time to Consultation			Time to Diagnosis		
	Median	Mean	Range (0-95%) in days	Median	Mean	Range (0-95%) In days
Total England (12469 tumours)	12	21.6	0 – 69	20	70.1	0 – 245
Scotland (948 tumours)	22	30.8	0 – 81	12	25.5	0 - 90
Wales (1157 tumours)	17	29.9	0 – 96	23	83.4	0 – 329
Northern Ireland (229 tumours)	42	48.5	0 – 117	26	120.8	0 - 645

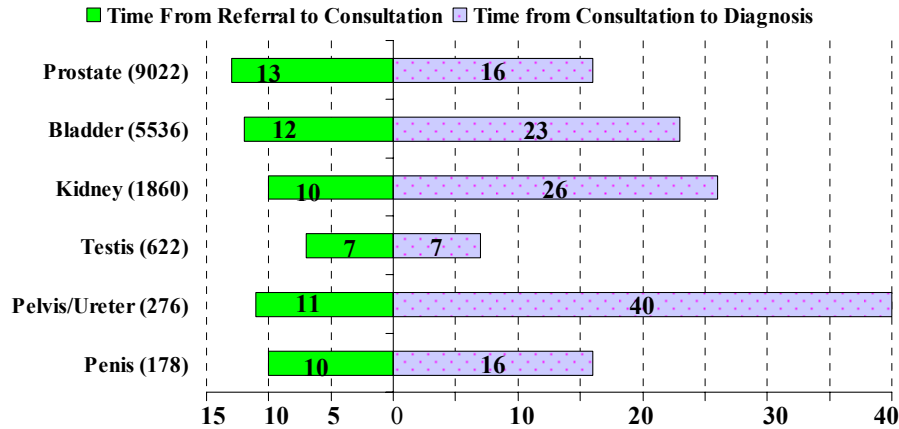
Chart 40

Times to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2006
Excluding tumours diagnosed before Referral

Region	Time to Consultation			Time to Diagnosis		
	Median	Mean	Range (0-95%) in days	Median	Mean	Range (0-95%) In days
Total England (12041 tumours)	13	24.3	0 – 78	21	73.1	0 – 269
Scotland (1354 tumours)	27	34.2	0 – 91	6	23.9	0 - 101
Wales (1288 tumours)	19	32.5	0 – 111	42	105.6	0 – 379
Northern Ireland (343 tumours)	50	69.9	0 – 191	21	120.5	0 - 490

Chart 41

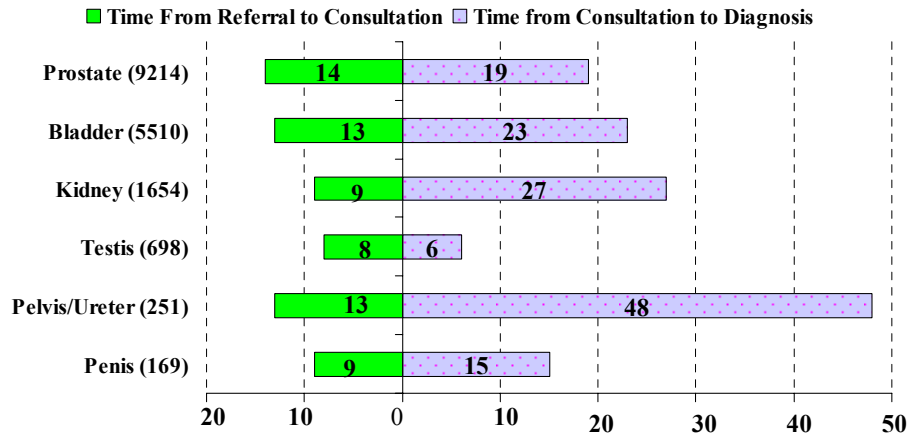
**Median Time to First Consultation and Diagnosis in Days by Organ
Excluding tumours diagnosed before Referral*
2007 dataset**



* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date (N = 19843/26045 = 76% tumours - Bladder = 5536/7100 = 78%; Kidney = 1860/2774 = 67%; Testis = 622/826 = 75%; Pelvis/Ureter = 276/384 = 72%; Penis = 178/269 = 66%. Prostate tumours were only included if they were >T1b = 9022/10877 = 83%

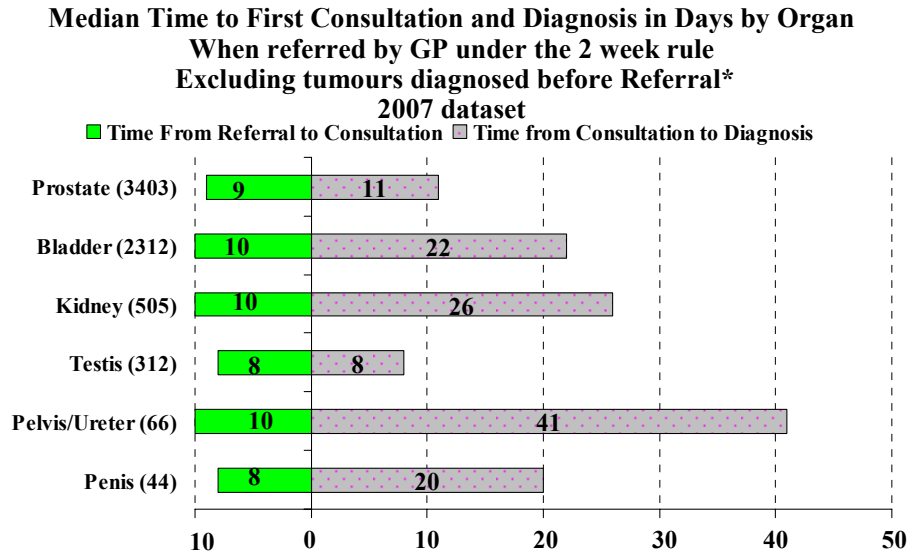
Chart 42

**Median Time to First Consultation and Diagnosis in Days by Organ
Excluding tumours diagnosed before Referral*
2006 dataset**



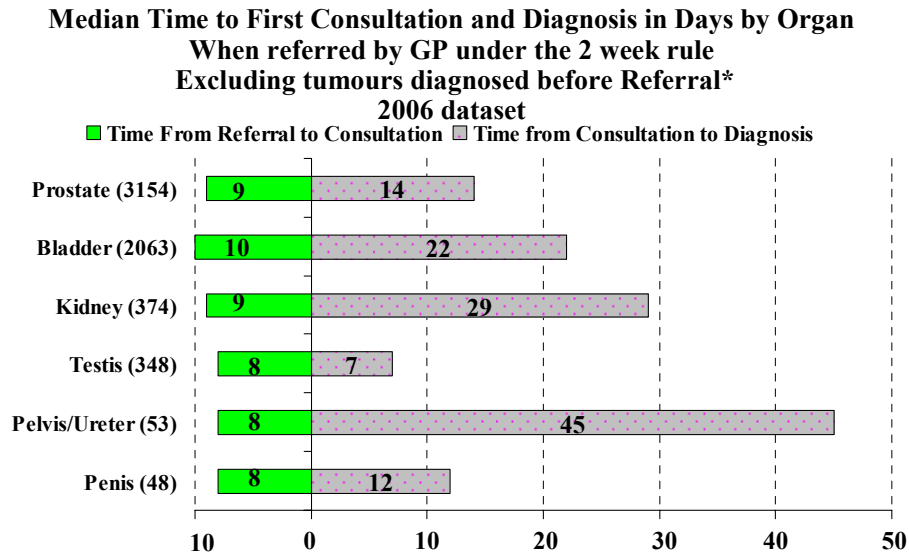
* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date (N = 19840/25401 = 78% tumours - Bladder = 5510/6757 = 81.5%; Kidney = 1654/2478 = 66.7%; Testis = 698/849 = 82.1%; Pelvis/Ureter = 251/347 = 72.3%; Penis = 169/277 = 61.2%. Prostate tumours were only included if they were >T1b = 9214/11191 = 82.3%

Chart 43



* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date . 19843/26045 = 76% tumours -
Bladder = 2312/2412 = 96%; Kidney = 505/616 = 82%;
Testis = 312/352 = 89%; Pelvis/Ureter = 66/77 = 86%; Penis = 44/49 = 90%.
Prostate tumours were only included if they > T1b = 3403/3641 = 94%

Chart 44



* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date . 19840/25401 = 78% tumours -
Bladder = 2063/2166 = 95.2%; Kidney = 374/444 = 84.2%;
Testis = 348/369 = 94.3%; Pelvis/Ureter = 53/57 = 93%; Penis = 48/50 = 96%.
Prostate tumours were only included if they > T1b = 2438/2590 = 94.1%

Chart 45

**Times to First Consultation and Diagnosis in Days - All Referrals
Excluding Patients Diagnosed before Referral**

Year	Time between Referral and First Consultation in Days			Time between First Consultation and Diagnosis in Days		
	Median	Mean	Range (0 - 95%)	Median	Mean	Range (0 - 95%)
2007 (19,843)	12	24.3	0 - 71	19	68.2	0 - 225
2006 (19,840)	13	26.3	0 - 83	20	68.5	0 - 234
2005 (18,174)	13	30.1	0 - 89	27	75.0	0 - 260
2004 (20,189)	14	36.6	0 - 92	34	87.2	0 - 315
2003 (21,294)	14	31.3	0 - 96	30	91.5	0 - 359
2002 (22,634)	17	43.9	0 - 106	29	85.6	0 - 332
2001 (21,632)	19	34.0	0 - 107	30	87.2	0 - 327
2000 (18,722)	22	35.1	0 - 109	29	77.0	0 - 272
1999 (15,912)	-	-	-	53*	84.7*	0 - 282*

* In 1999 only referral date and diagnosis date were recorded therefore these figures represent total time to diagnosis

Chart 46

**Median Total Times to Diagnosis in Days - All Referrals
Excluding Patients Diagnosed before Referral**

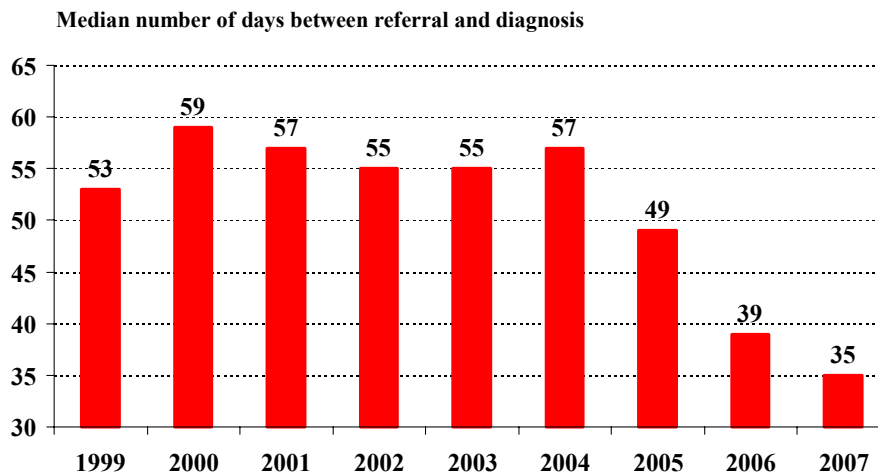


Chart 47

Times to Definitive Treatment in Days by Organ - 2007 Excluding tumours diagnosed or treated before referral

Organ	Time between Referral and Definitive Treatment in days			Time between Diagnosis and Definitive Treatment in days		
	Median	Mean	Range (0 – 95%)	Median	Mean	Range (0 – 95%)
Prostate (7932)	69	115.2	0 – 407	26	18.6	0 – 121
Bladder (3131)	43	75.7	0 – 199	0	5.4	0 – 67
Kidney (1271)	55	101.1	0 – 203	3	11.7	0 – 92
Testis (403)	15	32.5	0 – 97	0	1.3	0 – 15
Pelvis/Ureter (200)	90	132.0	0 – 367	18	3.7	0 – 98
Penis (111)	45	69.6	0 – 169	0	6.3	0 – 70

Definitive treatment date was recorded in 77.6% tumours (20216/26045)

Chart 48

Times to Definitive Treatment in Days by Organ - 2006 Excluding tumours diagnosed or treated before referral

Organ	Time between Referral and Definitive Treatment in days			Time between Diagnosis and Definitive Treatment in days		
	Median	Mean	Range (0 – 95%)	Median	Mean	Range (0 – 95%)
Prostate (7611)	78	133.8	0 – 404	27	35.5	0 – 131
Bladder (3067)	49	82.1	0 – 230	0	4.9	0 – 78
Kidney (1130)	57	88.35	0 – 231	1	12.9	0 – 91
Testis (436)	15	22.6	0 – 707	0	3.1	0 – 17
Pelvis/Ureter (179)	103	148.2	0 – 304	26	25.7	0 – 121
Penis (81)	49	65.3	0 – 211	10	11.2	0 – 81

Definitive treatment date was recorded in 73% tumours (18531/25401)

Chart 49

Times to Definitive Treatment in Days by Organ - 2007 When referred by GP under the two week rule excluding tumours diagnosed or treated before referral

Organ	Time between Referral and Definitive Treatment in days			Time between Diagnosis and Definitive Treatment in days		
	Median	Mean	Range (0 - 95%)	Median	Mean	Range (0 - 95%)
Prostate (2814)	48	65.7	0 - 165	19.0	24.5	0 - 91
Bladder (1210)	37	42.8	2 - 103	0	6.1	0 - 56
Kidney (331)	53	63.4	1 - 133	12	14.1	0 - 72
Testis (177)	15	19.5	3 - 44	0	0.6	0 - 13
Pelvis/Ureter (47)	82	90.9	25 - 160	25	16.9	0 - 70
Penis (16)	36	41.5	11 - 90	0	6.9	0 - 49

Definitive treatment date was recorded in 78.7% tumours referred by GP under the 2 week rule (5941/7552)

Chart 50

Times to Definitive Treatment in Days by Organ - 2006 When referred by GP under the two week rule excluding tumours diagnosed or treated before referral

Organ	Time between Referral and Definitive Treatment in days			Time between Diagnosis and Definitive Treatment in days		
	Median	Mean	Range (0 - 95%)	Median	Mean	Range (0 - 95%)
Prostate (2326)	48	72.2	1 - 187	18.9	28.9	0 - 88
Bladder (1036)	37	51.9	4 - 125	0	13.7	0 - 56
Kidney (250)	57	67.4	5 - 1311	14	23.9	0 - 76
Testis (188)	16	20.7	3 - 51	0	3.8	0 - 19
Pelvis/Ureter (34)	76	95.0	17 - 190	30	32.9	0 - 104
Penis (23)	38	41.5	7 - 86	1	18.5	0 - 53

Definitive treatment date was recorded in 73.4% tumours referred by GP under the 2 week rule (4836/6584)

Chart 51

Times to Definitive Treatment in Days - Prostate Cancer by Stage - 2007
When referred by GP under the two week rule
excluding tumours diagnosed or treated before referral

Stage	Time between Referral and Definitive Treatment in days				Time between Diagnosis and Definitive Treatment in days			
	N	Median	Mean	Range (0 – 95%)	Median	Mean	Range (0 – 95%)	
Stage I (T1a N0 M0 Well Differentiated)	1	-	-	-	-	-	-	
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	<i>T1,1a,1b</i>	56	70	113.4	0 – 246	26	39.5	0 – 90
	<i>T1c</i>	278	62	101.7	5 – 340	25	37.9	0 – 112
	<i>T2</i>	568	56	78.6	2 – 168	29	39.2	0 – 111
Stage III (T3 N0 M0 Any differentiation)	589	43	63.0	2 – 138	16	26.4	0 – 73	
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	340	27	33.8	0 – 86	7	13.6	0 – 51	

Chart 52

Times to Definitive Treatment in Days - Prostate Cancer by Stage - 2006
When referred by GP under the two week rule
excluding tumours diagnosed or treated before referral

Stage	Time between Referral and Definitive Treatment in days				Time between Diagnosis and Definitive Treatment in days			
	N	Median	Mean	Range (0 – 95%)	Median	Mean	Range (0 – 95%)	
Stage I (T1a N0 M0 Well Differentiated)	1	-	-	-	-	-	-	
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	<i>T1,1a,1b</i>	68	68	139.8	22 – 720	28	38.8	0 – 123
	<i>T1c</i>	247	61	104.6	12 – 301	27	37.8	0 – 108
	<i>T2</i>	548	61	83.3	3 – 198	8	37.6	- 94
Stage III (T3 N0 M0 Any differentiation)	517	44	58.9	1 – 126	17	25.6	0 – 84	
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	331	28	39.9	1-1-2	9	14.4	0 – 49	

Chart 53

**Times to First Consultation, Diagnosis and Definitive Treatment in Days
by Prostate (9022 tumours)- 2007 dataset**
Excluding tumours diagnosed before Referral and those with T1a or T1b

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	907	10.1	1711	19.0	1281	14.2
1 – 14	4347	48.2	2444	27.1	1228	13.6
15 – 28	1415	15.7	1845	20.5	1267	14.0
29 - 60	1535	17.0	1373	15.2	1575	17.5
More than 60 days	818	9.1	1649	18.3	1428	15.8
Not Recorded	-		-		2243	24.9

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 54

**Times to First Consultation, Diagnosis and Definitive Treatment in Days
by Prostate (9223 tumours)- 2006 dataset**
Excluding tumours diagnosed before Referral and those with T1a or T1b

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	968	10.5	1938	21.0	1060	11.5
1 – 14	3984	43.2	2068	22.4	1151	12.5
15 – 28	1456	15.8	1801	19.5	1341	14.5
29 - 60	1666	18.1	1646	17.8	1436	15.6
More than 60 days	1149	12.5	1770	19.2	1475	16.0
Not Recorded	-		-		2760	29.9

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 55

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Bladder (5536 tumours)- 2007 dataset Excluding tumours diagnosed before Referral

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	705	12.7	889	16.1	3414	61.7
1 – 14	2838	51.3	1052	19.0	277	5.0
15 – 28	885	16.0	1444	26.1	481	8.7
29 - 60	783	14.1	1472	26.6	337	6.1
More than 60 days	325	5.9	679	12.3	187	3.4
Not Recorded	-		-		840	15.2

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 56

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Bladder (5510 tumours)- 2006 dataset Excluding tumours diagnosed before Referral

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	713	12.9	935	17.0	3153	57.2
1 – 14	2616	47.5	1053	19.1	329	6.0
15 – 28	886	16.1	1349	24.5	488	8.9
29 - 60	848	15.4	1365	24.8	335	6.1
More than 60 days	447	8.1	808	14.7	232	4.2
Not Recorded	-		-		973	17.7

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 57

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Kidney (1860 tumours)- 2007 dataset Excluding tumours diagnosed before Referral

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	365	19.6	322	17.3	972	52.3
1 – 14	940	50.5	376	20.2	154	8.3
15 – 28	289	15.5	293	15.8	152	8.2
29 - 60	187	10.1	495	26.6	219	11.8
More than 60 days	79	4.2	374	20.1	154	8.3
Not Recorded	-		-		209	11.2

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 58

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Kidney (1654 tumours)- 2006 dataset Excluding tumours diagnosed before Referral

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	353	21.3	271	16.4	868	52.5
1 – 14	775	46.9	313	18.9	117	7.1
15 – 28	260	15.7	283	17.1	113	6.8
29 - 60	193	11.7	414	25.0	205	12.4
More than 60 days	73	4.4	373	22.6	141	8.5
Not Recorded	-		-		210	12.7

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 59

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Testis (622 tumours)- 2007 dataset Excluding tumours diagnosed before Referral

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	108	17.4	118	19.0	418	67.2
1 – 14	421	67.7	335	53.9	117	18.8
15 – 28	46	7.4	96	15.4	8	1.3
29 - 60	23	3.7	48	7.7	8	1.3
More than 60 days	24	3.9	25	4.0	6	1.0
Not Recorded	-		-		65	10.5

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

Chart 60

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Testis (698 tumours)- 2006 dataset Excluding tumours diagnosed before Referral

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis		Time from Diagnosis to Definitive Treatment	
	N	%	N	%	N	%
0 *	99	14.2	137	19.6	482	69.1
1 – 14	486	69.6	391	56.0	123	17.6
15 – 28	66	9.5	96	13.8	18	2.6
29 - 60	35	5.0	49	7.0	6	0.9
More than 60 days	12	1.7	25	3.6	1	0.1
Not Recorded	-		-		68	9.7

* = the number seen either on the day of referral or diagnosed and/or treated at first consultation

C. Histology

Histological confirmation was available in 81% of all tumours. This has decreased over the last three years and may be a reflection of the increasing number of returns using in-house data collection systems. Every effort should be made to record data on patients seen in clinics and on the wards, where there is no histological diagnosis.

Chart 61

Histological Confirmation of Diagnosis by Organ

Organ	Confirmation Obtained		Confirmation Not Obtained		Not Recorded	
	N	%	N	%	N	%
Prostate (14491)	12414	85.7	1446	10.0	632	4.4
Bladder (6845)	5672	82.9	624	9.1	550	8.0
Kidney (2772)	1454	52.5	954	34.4	363	13.1
Testis (824)	664	80.6	96	11.7	64	7.8
Pelvis/Ureter (384)	243	63.3	107	27.9	34	8.9
Penis (269)	228	84.8	16	5.9	25	9.3
Urethra (24)	19	79.2	3	12.5	2	8.3
Prostatic Urethra (12)	11	91.7	0	0.0	1	8.3
Other or Not Recorded (141)	48	34.0	20	14.2	73	51.8
Totals (25762)	20753	80.6	3266	12.7	1744	6.8

Chart 62

Known Histology by Organ

	Prostate	Bladder	Kidney	Testis	Pelvis/ Ureter	Penis	Urethra	Prostatic Urethra
Adenocarcinoma	12422 97.5%	121 2.0%	1671* 85.3%	2 0.3%	17 5.8%	4 1.6%	4 21.1%	2 18.2%
TCC	47 0.4%	5808 93.7%	141 7.2%	-	257 88.3%	1 0.4%	6 31.6%	4 36.4%
SCC	81 0.6%	114 1.8%	5 0.3%	3 0.4%	5 1.7%	212 87.2%	5 26.3%	1 9.1%
Mixed TCC / SCC	-	19 0.3%	1 0.1%	7 0.9%	1 0.3%	-	-	-
Seminoma	-	-	-	444 58.7%	-	-	-	-
Teratoma	-	-	1 0.1%	158 20.9%	-	-	-	-
Mixed Seminoma / Teratoma	-	-	-	88 11.6%	-	-	-	-
High Grade PIN	109 0.9%	-	-	-	-	-	-	-
Other	78 0.6%	134 2.2%	140 7.1%	54 7.1%	11 3.8%	26 10.7%	4 21.1%	4 36.4%

*N.B. Includes 1606 renal cell carcinomas

Chart 63

“Other” Histologies reported included:

	Prostate	Bladder	Kidney	Testis	Penis
Carcinoma in situ	1	48			10
Oncocytoma			20		
Sarcoma/Liposarcoma /Leiomyosarcoma	2	13	16	5	1
Haematological cancers	1	6	1	25	1
Leydig cell				8	
Melanoma		2	1		3
Small cell ca/papillary renal cell / spindle cell	8	18	64	1	
Undifferentiated / Anaplastic		4			2

Chart 64

Basis of Diagnosis when Histological Confirmation Not Obtained (3226 tumours – 12.7% of total)

Organ	Radiology	Cytology	Tumour Marker	Clinical	Other
Prostate (1446 tumours)	209	8	413	658	478
Bladder (624 tumours)	174	10	1	85	266
Kidney (954 tumours)	765	12	10	76	77
Testis (96 tumours)	48		2	24	19
Pelvis/Ureter (107 tumours)	60	2	2	11	19
Penis (16 tumours)				2	11

N.B. More than one method might be used for each tumour

Chart 65

Known Differentiation by Organ Percentage & Total of Known Differentiation

Organ (Number Known)	Well N	%	Moderate N	%	Poor N	%	% of Total Tumours Reported
Prostate (8330)	451	5.4	5502	66.1	2377	28.5	57.5
Bladder (4060)	885	21.8	1510	37.2	1665	41.0	59.3
Pelvis/Ureter (63)	7	11.1	24	38.1	32	50.8	16.4
Penis (135)	41	26.5	81	52.3	33	21.3	57.6
Urethra (10)	2	20.0	5	50.0	3	30.0	41.7
Prostatic Urethra (4)	0	0.0	1	25.0	3	75.0	33.3

N.B. Testis and Kidney not included - RCPATH minimum data set does not ask for this data which would be irrelevant to the vast majority of testicular tumours, which are mostly germ cell tumours. Kidney tumours are generally given a nuclear grade rather than a differentiation score.

D. Staging

Participants were asked to return both clinical and, where appropriate, pathological* TNM categories using the 2002 version of the TNM classification for Urological tumours which were included in the data dictionary sent to all participants.

In order to make interpretation of the resultant information easier each patient was staged, wherever possible, using the classifications as shown in the following charts. If the pathological TNM categories were given and appropriate then these were used for the staging, failing this clinical TNM categories were used.

*The pathological assessment of the primary tumour (pT) entails a “resection of the primary tumour or biopsy adequate to evaluate the highest pT category”

Less than 50% of the returns had either the full pathological TNM or clinical TNM categories and an estimate had to be made from what information was provided. (Many forms did not include any N and M categories or these were recorded as “X” – Cannot be assessed.) Yet again the number of returns having a relevant clinical T category (i.e. not X or null) has fallen significantly from 56.3% in 2006 to 51.5% in 2007 and only 30% of these had the clinical N and M categories relevantly recorded (i.e. not X or null). A plea for more accurate data recording is given and the suggestion that the BCR data may be more fully recorded if completed during the relevant Multi Disciplinary Team meeting.

The data on the following charts should therefore be regarded with caution.

Chart 66

Staging of Kidney Tumours A total of 2772 Kidney Tumours were reported Staging could be estimated in 1660 (59.9%)

Known Staging	Total Known	
	N	%
Stage I (T1 N0 M0)	692	41.7
Stage II (T2 N0 M0)	249	15.0
Stage III (T1, T2, T3 N0,N1 M0)	440	26.5
Stage IV (T4 N0,N1 M0 Any T N2 M0 Any T any N M1)	279 including 229 with metastases	16.8 13.8

N.B. A pathological staging for Kidney tumours was only included for those where radical or organ conserving surgery was performed (n =1305)

Chart 67

Staging of Pelvis / Ureteric Tumours A total of 384 Tumours were reported Staging could be estimated in 175 (45.6%)

Known Staging	Total Known	
	N	%
Stage 0a (Ta N0 M0)	46	26.3
Stage 0is (Tis N0 M0)	4	2.3
Stage I (T1 N0 M0)	46	26.3
Stage II (T2 N0 M0)	20	11.4
Stage III (T3 N0 M0)	35	20.0
Stage IV (T4 N0 M0)	24	13.7
Any T N1, N2, N3 M0 Any T any N M1)	including 9 with metastases	5.1

N.B. A pathological staging for Pelvis / Ureteric tumours was only included for those where radical or organ conserving surgery was performed (n =143)

Chart 68

Staging of Bladder Tumours A total of 6845 Bladder Tumours were reported Staging could be estimated in 4541 (66.3%)

Known Staging	Total Known	
	N	%
Stage 0a (Ta N0 M0)	2269	50.0
Stage 0is (Tis N0 M0)	79	1.7
Stage I (T1 N0 M0)	1293	28.5
Stage II (T2a, 2b N0 M0)	500	11.0
Stage III (T3a, 3b, 4a N0 M0)	220	4.8
Stage IV (T4b N0 M0)	180	4.0
Any T N1, N2, N3 M0 Any T any N M1)	including 73 with metastases	1.6

N.B. A pathological staging for Stage II, III or IV Bladder tumours was only included for tumours where radical surgery was performed (n =128)

Chart 69

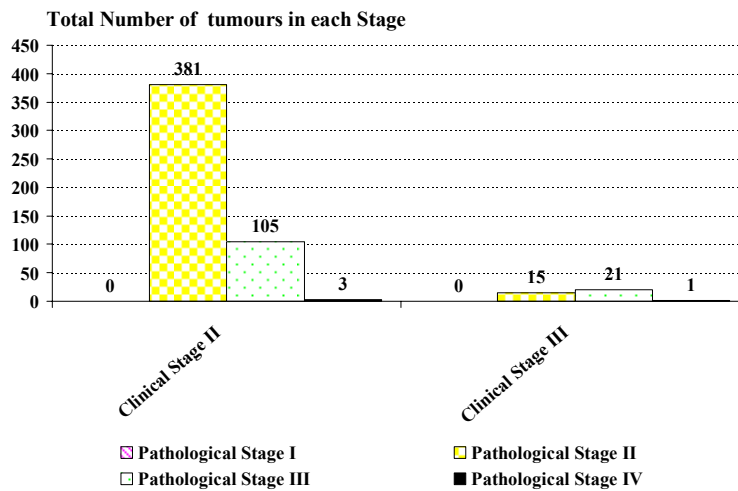
Staging of Prostate Tumours
A total of 14491 Prostate Tumours were reported
Staging could be estimated in 8326 (57.5%)

Known Staging	Total Known	
	N	%
Stage I (T1a N0 M0 Well Differentiated)	47	0.6
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	t1, 1a, 1b - 602 t1c - 1668 t2 - 2857	7.2 20.0 34.3
Stage III (T3 N0 M0 Any differentiation)	2059	24.7
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	1093 including 708 with metastases	13.1 8.5

N.B. A pathological staging for Prostate tumours was only included for those where radical surgery was performed (n =1316)

Chart 70

Staging of Prostate Tumours
Comparison of clinical & pathological staging

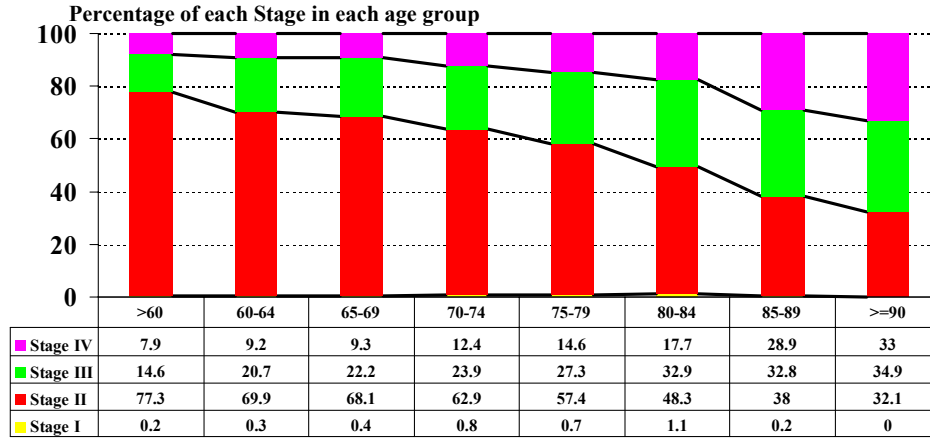


N.B. A pathological staging for Prostate tumours was only included for those where radical surgery was performed (n =1316). Staging could be compared in 40.4% of these (532/1316).

Chart 71

Staging of Prostate Tumours by Age Group

Total in Stage I where age was known = 46
 Total in Stage II where age was known = 5190
 Total in Stage III where age was known = 2030
 Total in Stage IV where age was known = 1087



■ Stage I ■ Stage II ■ Stage III ■ Stage IV

* Age could be calculated when both date of birth and diagnosis date were recorded

Chart 72

Prostate Cancers reported 1998 - 2007

	Total number reported	Median age at diagnosis	Number having T1c	Number having Metastases (M +ve)
1998 (6 months only)	2909	74	250 8.6%	43 14.9%
1999	9781	73	1366 14.0%	1214 12.4%
2000	12892	73	1636* 15.8%	1267/10329* 12.6%
2001	15099	73	2107* 17.4%	1441/ 12100* 11.9%
2002	16580	72	2316* 18.3%	1262/12645* 10.0%
2003	16055	72	2156* 18.9%	971/11393* 8.5%
2004	14858	72	2150* 21.5%	716/10049* 7.1%
2005	12809	71	1896* 22.0%	751/8630* 8.7%
2006	14101	71	2110* 22.9%	736/9214* 8.0%
2007	14491	71	1668* 20.0%	708/8326* 8.5%

* Number where staging could be estimated

Chart 73

Staging of Prostate Tumours by PSA

Numbers falling in each category*

PSA was recorded in 80.7% tumours (11701/14491)

Gleason scores were recorded in 80.3% tumours (11634/14491)

Known Clinical Staging	Total Patients	PSA 0-5		PSA 6-10		PSA 11-20		PSA 21-50		PSA > 50	
		N	%	N	%	N	%	N	%	N	%
Stage I (T1a N0 M0 Well Differentiated)	29	12	41.4%	7	24.1%	6	20.7%	3	10.3%	1	3.4%
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	724	641	13.6%	1836	38.9%	1298	27.5%	665	14.1%	282	6.0%
Stage III (T3 N0 M0 Any differentiation)	1708	83	4.9%	281	16.5%	373	21.8%	427	25.0%	544	31.9%
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	709	25	3.5%	32	4.5%	79	11.1%	152	21.4%	421	59.4%
Totals	7170*	761	10.6%	2156	30.1%	1756	24.5%	1247	17.4%	1249	17.4%

N.B. Excluding pathologies other than Adenocarcinoma.

* Tumours where staging could be estimated, PSA was recorded and Histology = adenocarcinoma

Chart 74

Gleason Sum Scores by Age Group - Prostate Tumours

Number falling into each category

Gleason scores were recorded in 80.3% tumours (11634/14491)

Age could be recorded in 96.5% (11227/11634) of these

Age Group	Total Patients	Gleason sum 2 – 4		Gleason sum 5 – 6		Gleason sum 7		Gleason sum 8 – 10	
		N	%	N	%	N	%	N	%
< 60	1238	5	0.4	671	54.2	388	31.3	174	14.1
60 – 64	1686	2	0.1	779	46.2	565	33.5	340	20.2
65 – 69	2224	8	0.4	942	42.4	762	34.3	512	23.0
70 – 74	2351	15	0.6	837	35.6	858	36.5	641	27.3
75 – 79	2088	10	0.5	617	29.5	772	37.0	689	33.0
80 – 84	1074	7	0.7	255	23.7	395	36.8	417	38.8
85 – 89	490	3	0.6	95	19.4	144	29.4	248	50.6
>=90	76	0	0.0	12	15.8	25	32.9	39	51.3
Totals	11227	50	0.4	4208	37.5	25	0.2	3060	27.3

Chart 75

Gleason Sum Score Related to Age

Gleason scores were recorded in 80.3% tumours (11634/14491)
 Age could be recorded in 96.5% (11227/11634) of these

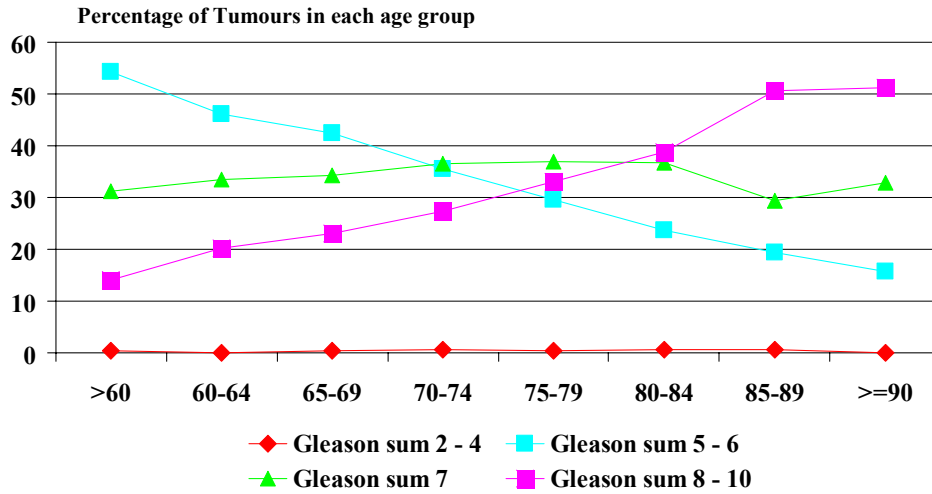


Chart 76

Staging of Testicular Tumours

A total of 824 Testicular Tumours were reported
 Staging could be estimated in 476 (57.8%)

Known Staging	Seminoma		Teratoma		Combined Seminoma/ Teratoma		Other Histology	
	N	%	N	%	N	%	N	%
Total numbers where staging & histology known:	284		102		56		34	
Stage 0 (Tis N0 M0 S0, SX)	0	0.0	0	0.0	0	0.0	0	0.0
Stage I (T1,2,3,4 N0 M0 SX)	163	57.4	70	68.6	30	53.6	11	32.4
Stage IA (T1, N0 M0 S0)	54	19.0	9	8.8	4	7.1	8	23.5
Stage IB (T2, 3, 4, N0 M0 S0)	11	3.9	4	3.9	4	7.1	2	5.9
Stage IS (Any T N0 M0 S1, 2, 3)	47	16.5	16	15.7	17	30.4	9	26.5
Stage II (Any T, N1, 2, 3, M0, SX, 0, 1)	5	1.8	3	2.9	1	1.8	2	5.9
Stage III (Any T, Any N, M1, 1a, SX, 0, 1, 2, 3 Any T, N1, 2, 3, M0, S2, 3 Any T, Any N, M1b, Any S)	4	1.4	0	0.0	0	0.0	2	5.9

Chart 77

Testicular Tumours by Serum Tumour Marker
A total of 824 Testicular Tumours were reported
Tumour markers and Histology were reported in 206 (25%)

Serum Tumour Marker Total numbers where tumour marker & histology known:	Seminoma		Teratoma		Combined Seminoma/ Teratoma		Other Histology	
	N	%	N	%	N	%	N	%
S0 (Serum marker study levels within normal limits)	75	60.0	14	45.2	9	33.3	14	60.9
S1 (LDH <1.5*N and HCG (ml/U/ml) <5,000 and AFP (ng/ml) <1,000)	30	24.0	12	38.7	11	40.7	7	30.4
S2 (LDH 1.5 – 10 *N or HCG (ml/U/ml) 5,000 - 50,000 or AFP (ng/ml) 1,000 – 10,000)	16	12.8	4	12.9	5	18.5	1	4.3
S3 (LDH >10*N or HCG (ml/U/ml) > 50,000 or AFP (ng/ml) >10,000)	4	3.2	1	3.2	2	7.4	1	4.3

N.B. N indicates the upper limit or normal for the LDH assay

Chart 78

Staging of Penile Tumours
A total of 269 Penile Tumours were reported
Staging could be estimated in 150 (55.8%)

Known Staging	Total Known	
	N	%
Stage 0 (Tis, a, N0 M0)	27	18.0
Stage I (T1 N0 M0)	57	38.0
Stage II (T2 N0, N1 M0)	35	23.3
Stage III (T1, 2, N2 M0 T3, N0, N1, N2, M0)	20	13.3
Stage IV (T4 Any N M0 Any T N3 M0 Any T Any N M1)	11 including 6 with metastases	7.3 4.0

E. Initial Treatment Intention and Type
Chart 79

Initial Treatment Intention by Organ
Percentage & Total of Known Intent

Organ (Number Known)	Curative		Palliative		No active anti-cancer treatment		% of Total Tumours Reported
	N	%	N	%	N	%	
Prostate (10020)	4515	45.1	3631	36.2	1874	18.7	69.1
Bladder (5023)	4535	90.3	417	8.3	71	1.4	73.4
Kidney (1958)	1368	69.9	351	17.9	239	12.2	70.6
Testis (584)	576	98.6	7	1.2	1	0.2	70.9
Pelvis/Ureter (291)	208	71.5	54	18.6	29	10.0	75.8
Penis (174)	161	92.5	9	5.2	4	2.3	64.7
Urethra (17)	14	82.4	2	11.8	1	5.9	70.8
Prostatic Urethra (8)	5	62.5	2	25.0	1	12.5	66.7

Chart 80

Treatment Intention of Prostatic Tumours by PSA and Age
Percentage by PSA in each Age Group

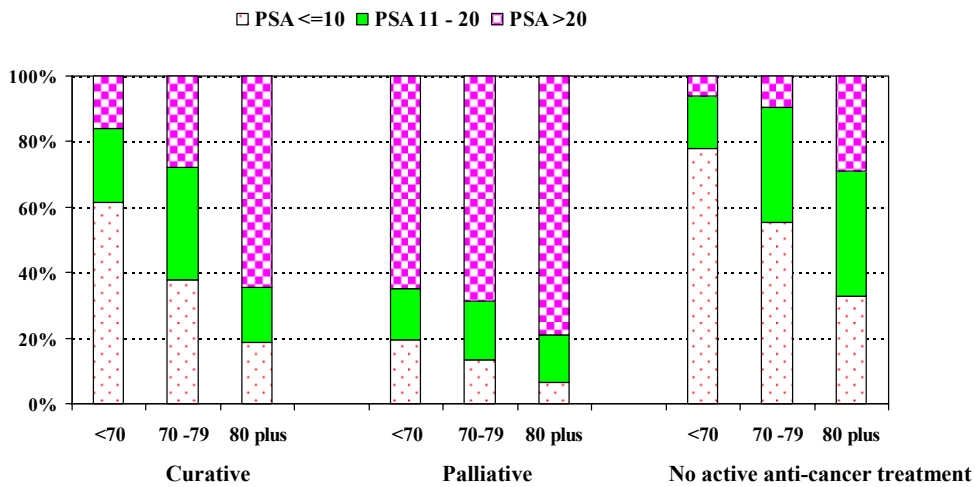


Chart 81

Known Treatment Management - Kidney Tumours Total Numbers Reported with those as only Treatment in () (N.B. Excluding TCC's)

Treatment	Curative	Palliative
Surgery:		
Endoscopic Resection	30 (9)	
Radical Ablative Surgery	815 (712)	60 (35)
Organ Conserving Surgery *	75 (69)	2 (2)
Biopsy &/or Ultrasound guided biopsy	29	9
Other Surgery	6 (5)	14 (11)
Radiation Therapy	9 (5)	13 (6)
Chemotherapy	48 (4)	11 (6)
Hormone Therapy	18	1
Systemic Immunotherapy	27	25 (1)
Palliative care	3 (1)	32 (22)
Referred to another centre / specialist	34 (8)	24 (3)
Surveillance / monitoring / Watchful waiting	28 (6)	5 (3)
Other Treatment	13 (5)	10 (3)

* Performed by 34 centres, median per centre = 2, Range 1 - 9
75 centres performed no organ conserving surgery

Chart 82

Known Treatment Management - Pelvis/Ureteric Tumours Total Numbers Reported with those as only Treatment in ()

Treatment	Curative	Palliative
Surgery:		
Endoscopic Resection	37 (14)	8 (6)
Endoscopic Resection + 1 shot intravesical chemotherapy	3 (3)	-
Radical Ablative Surgery	118 (98)	10 (6)
Organ Conserving Surgery	4 (2)	2
Cystoscopy	13 (2)	-
Biopsy	8	5
Other Surgery	3 (3)	2 (1)
Radiation Therapy	4	4 (1)
Systemic Chemotherapy	18 (1)	8 (5)
Referred to another centre / specialist	7 (5)	-
Immunotherapy	16	1
Palliative care	-	22 (16)
Surveillance / Active Monitoring	4	2 (2)
Watchful Waiting	-	2 (2)

Chart 83

Known Management by T category and Grade - Bladder Tumours
Total Numbers Reported with those as only Treatment in ()

Treatment	Tis	Ta G1	Ta G2	Ta G3	T1 G1	T1 G2	T1 G3
Surgery: Endoscopic Resection	18 (5)	182 (113)	180 (93)	36 (16)	26 (18)	84 (38)	122 (50)
Endoscopic Resection + 1 shot intravesical chemotherapy	11	190 (130)	319 (280)	42 (27)	31 (28)	128 (94)	92 (52)
Radical Ablative Surgery	7 (1)	2 (1)	2 (1)	6 (2)	-	3 (2)	7 (5)
Organ Conserving Surgery	1	9 (2)	4 (1)	-	-	1 (1)	-
Biopsy / ultrasound guided biopsy	2 (1)	8 (1)	7 (2)	1	-	3	4
Cystoscopy	8	101 (6)	95 (3)	13 (1)	5	47 (2)	42 (1)
Other Surgery	-	1 (1)	2 (1)	-	-	1	-
Radiation Therapy	5	-	-	1	-	1	10 (1)
Intra-vesical Chemotherapy (course)	5 (2)	4	9	4	3	17	12
Intra-vesical Immunotherapy (course)	22	3	5 (3)	10 (6)	3	17	40 (2)
Surveillance / active monitoring	3 (1)	48 (1)	55	7	3	8	9
Referral	-	-	1	-	-	2	6 (1)
Other Treatment	3	-	-	2 (1)	-	6 (1)	1
Total Tumours Reported in each category	30	386	526	91	58	225	230

Chart 84

Known Management by T category and Grade - Bladder Tumours where Age is <= 70
Total Numbers Reported with those as only Treatment in ()

Treatment	T2 G1	T2 G2	T2 G3	T3 G1	T3 G2	T3 G3	T4 G1	T4 G2	T4 G3
Surgery: Endoscopic Resection	2 (1)	9	71	-	3	22	-	3	33
Endoscopic Resection + 1 shot intravesical chemotherapy	2 (2)	4	11 (6)	-	3 (1)	22 (1)	-	31	33 (11)
Radical Ablative Surgery	-	6	43 (1)	1 (1)	3 (1)	15	1 (1)	2	15
Organ Conserving Surgery	-	-	-	-	-	1 (1)	-	-	-
Cystoscopy	-	1	16	-	4	2	-	-	8
Other Surgery	-	-	-	-	-	1	-	-	1
Radiation Therapy	1 (1)	4 (1)	12 (3)	-	2	8	-	-	10
Systemic Chemotherapy	-	5 (1)	28 (2)	-	1	7	-	1	20 (1)
Intra-vesical Chemotherapy (course)	-	-	-	-	-	-	-	-	-
Palliative Care	-	-	-	-	-	-	-	-	-
Intra-vesical Immunotherapy (course)	-	-	-	-	-	-	-	-	-
Referral	1	3	12	1	2	3	-	-	6
Total Tumours Reported in each category	5	18	115	2	10	36	1	3	50

Chart 85

**Known Management by T category and Grade - Bladder Tumours where Age >70
Total Numbers Reported with those as only Treatment in ()**

Treatment	T2 G1	T2 G2	T2 G3	T3 G1	T3 G2	T3 G3	T4 G1	T4 G2	T4 G3
Surgery: Endoscopic Resection	3 (1)	21	132		11	57	-	1	45
Endoscopic Resection + 1 shot intravesical chemotherapy	2 (1)	4 (1)	33	-	1	9	-	2 (2)	3
Radical Ablative Surgery	-	6 (4)	22	1 (1)	2 (2)	14	-	1	8
Organ Conserving Surgery	-	-	1 (1)	-	-	1(1)	-	-	-
Cystoscopy	2	10	27	-	-	6	-	-	11
Other Surgery	-	-	-	-	-	-	-	-	1
Radiation Therapy	-	5 (2)	61	-	5 (2)	24	-	-	18
Systemic Chemotherapy	-	1	6	-	-	5	-	1	6
Hormone Therapy	-	-	1 (1)	-	-	1	-	-	1
Immunotherapy	-	-	1 (1)	-	1	-	-	-	-
Referral	-	5	24	-	3	6	-	-	11
Palliative Care	-	-	12	-	4	13	1	-	12 (1)
Total Tumours Reported in each category	56	35	201	2	20	90	1	4	68

Chart 86

**Known Management Intention - Prostate Tumours
Total Numbers Reported with those as only Treatment in ()**

Treatment	Curative	Palliative/ No active anti-cancer treatment
Surgery: Endoscopic Resection	328 (191)	223 (75)
Endoscopic Resection + 1 shot intravesical chemotherapy	3 (2)	4
Radical Ablative Surgery	1130 (875)	21 (12)
Organ Conserving Surgery	31 (26)	23 (4)
Brachytherapy	147 (88)	4 (1)
Biopsy / Ultrasound guided biopsy	732 (77)	660 (23)
Other Surgery	9 (5)	7
Radiation Therapy	1262 (172)	218 (23)
Systemic Chemotherapy / Intravesical Chemotherapy (course)	10 (3)	17 (5)
Hormone Therapy	2007 (635)	3362 (2574)
Intravesical Immunotherapy / Intravesical Immunotherapy (course)	1	1 (1)
Watchful waiting	27 (3)	391 (338)
Surveillance / Active monitoring	209 (105)	1349 (1065)
Referral to another centre / specialist	486 (108)	111 (11)
Other Treatment	32 (7)	22 (4)

Chart 87

Known Management by PSA - Prostate Tumours
where age is <= 70
Total Numbers Reported with those as only Treatment in ()

Treatment	PSA 0-5	PSA 6-10	PSA 11-15	PSA 16-20	PSA 21-50	PSA >50
Surgery: Endoscopic Resection	52 (19)	60 (31)	19 (10)	9 (2)	18 (5)	20 (3)
Radical Ablative Surgery	224 (169)	548 (406)	150 (102)	61 (37)	25 (17)	13 (11)
Biopsy /Ultrasound guided biopsy	146 (36)	417 (65)	173 (29)	77 (14)	133 (20)	145 (13)
Brachytherapy	39 (20)	82 (48)	20 (13)	4 (1)	4 (1)	1 (1)
Other Surgery	8 (3)	5 (2)	7 (4)	2	6 (1)	5
Radiation Therapy	81 (17)	333 (70)	195 (30)	96 (6)	198 (18)	72 (4)
Chemotherapy (systemic or intra-vesical course)	2	5 (1)	-	-	5	5
Hormone Therapy	104 (39)	416 (134)	276 (90)	204 (87)	460 (211)	636 (398)
Watchful waiting	47 (38)	81 (67)	30 (27)	16 (13)	3 (3)	1 (1)
Surveillance / Active monitoring	205 (138)	414 (243)	112 (62)	27 (18)	29 (18)	13 (12)
Referral to another centre / specialist	47 (18)	192 (61)	76 (18)	27 (2)	52 (12)	38 (7)
Other Treatment	19 (11)	29 (21)	8 (6)	-	6	13 (1)

Chart 88

Known Management by PSA - Prostate Tumours
where age is > 70
Total Numbers Reported with those as only Treatment in ()

Treatment	PSA 0-5	PSA 6-10	PSA 11-15	PSA 16-20	PSA 21-50	PSA >50
Surgery: Endoscopic Resection	61 (32)	40 (18)	42 (14)	21 (9)	45 (15)	52 (10)
Radical Ablative Surgery	8 (5)	35 (25)	21 (12)	2 (2)	5 (5)	7 (3)
Biopsy /Ultrasound guided biopsy	24 (1)	199 (33)	167 (19)	114 (8)	220 (30)	213 (24)
Brachytherapy	-	10 (1)	6 (4)	1	1	-
Other Surgery	7 (2)	8 (4)	6 (4)	3	16 (2)	11 (1)
Radiation Therapy	29 (4)	173 (30)	167 (22)	81 (6)	136 (12)	43 (7)
Chemotherapy (systemic or intra-vesical course)	2		1	-	1	5 (1)
Hormone Therapy	85 (51)	361 (171)	451 (254)	365 (178)	930 (603)	1443 (1139)
Watchful waiting	59 (45)	110 (90)	77 (62)	32 (29)	53 (42)	6 (5)
Surveillance / Active monitoring	83 (57)	365 (276)	241 (177)	103 (69)	106 (87)	44 (35)
Referral to another centre / specialist	8 (3)	63 (12)	53 (12)	27 (4)	36 (4)	21 (2)
Other Treatment	3 (2)	10 (5)	5 (2)	6	8 (2)	5 (1)

Chart 89

Known Management - Testicular Tumours Total Numbers Reported with those as only Treatment in ()

Treatment	Curative	Palliative
Radical Ablative Surgery	472 (297)	2 (2)
Organ Conserving Surgery	5 (3)	-
Other Surgery	5 (1)	-
Radiation Therapy	24 (7)	-
Systemic Chemotherapy	105 (20)	2 (2)
Intravesical Chemotherapy (course)	1 (1)	-
Hormone Therapy	-	-
Surveillance/active monitoring	9 (2)	-
Referral to another centre/specialist	105 (17)	2
Other Treatment	1	-

Chart 90

Known Management - Penile Tumours Total Numbers Reported with those as only Treatment in ()

Treatment	Curative	Palliative
Surgery:		
Radical Ablative Surgery	25 (20)	2 (2)
Organ Conserving Surgery	109 (82)	2
Biopsy / US guided biopsy	12 (1)	2
Other Surgery	5 (3)	1
Radiation Therapy	3 (1)	-
Systemic Chemotherapy	6	2 (1)
Referral to another centre/specialist	22 (5)	2 (1)
Other Treatment	3 (1)	-

Chart 91

Laparoscopic Procedures Performed

Number of tumours recorded as being operated on laparoscopically = 896

Organ	Procedure and Number Reported	Organ	Procedure and Number Reported
Prostate 385 total	196 Radical prostatectomies 189 Procedure not recorded	Kidney 446 total	263 Nephrectomy 28 Nephroureterectomy 28 Partial Nephrectomy 2 Cryosurgery 125 Procedure not recorded
Bladder 7 total	2 Cystectomy 5 Procedure not recorded	Pelvis/Ureter 58 total	42 Nephroureterectomy 5 Nephrectomy 11 Procedure not recorded

Chart 92

Laparoscopic Surgery by Organ and Stage

Number of tumours recorded as being operated on laparoscopically = 896

Staging	Prostate N	Bladder N	Kidney N	Pelvis/Ureter N
Stage 0a	N/A	2	N/A	4
Stage I	-	1	192	6
Stage II	277	-	39	-
Stage III	44	-	48	5
Stage IV	1	1	20	4
Not Recorded	63	3	147	39
Totals	385	7	446	58

F. Tertiary Referrals

Chart 93

Tertiary Referrals - Overall Data by Organ
7.9% (2035/25762) of all tumours were tertiary referrals
(referred by a Urologist (1956) or Oncologist (79))

Organ	Number Recorded	Mean Age at Diagnosis & Range	Males	Females	* % of Total Registrations	** % of Total Registrations In 2006	** % of Total Registrations in 2005
Prostate	1114	68.9; 44 - 93	1114		7.7	6.9	6.8
Bladder	399	71.5; 24 - 100	302	89	5.8	5.3	4.4
Kidney	299	64.5; 0 - 88	195	104	10.8	10.1	13.3
Testis	83	37.8; 1 - 82	83		10.1	3.6	4.3
Pelvis/Ureter	46	72.6; 50 - 87	26	20	12.0	15.0	11.4
Penis	72	61.2; 20 - 91	72		26.8	32.1	27.3
Urethra	3	60.3; 41 - 76	3		12.5	3.6	4.0
Prostatic Urethra	0				0.0	25.0	7.7
Other	3	59; 48 - 70	2	1	7.3	2.4	2.6
Not recorded	16	69.7; 35 - 86	15	1	16.0	52.2	23.1

* % of the total registrations for each tumour site e.g. prostate = $1114/14491 = 7.7\%$

** Equivalent figures recorded for diagnoses in 2005 & 2006

G. Clinical Trial Status / Delay to Diagnosis and discussion at MDT meeting

Clinical trial status continues to be poorly completed with some 37% of the returns not including the information and a further 34% where the clinical trial status was unknown. We note that only 1.5% of patients appeared to be eligible for clinical trials.

The number of new cancers being discussed at an MDT meeting has stayed steady from 2006 at 77% (The number being discussed in 2003 was 55%.)

Chart 94

Clinical Trial Status Status was reported in 63% of cases (16149 / 25762)

Trial Status	N	%
Patient eligible, consented to and entered trial	258	1.0
Patient eligible for trial but declined entry	118	0.5
Patient ineligible for trial	1105	4.3
Patient not considered for trial	6005	23.3
Clinical trial status unknown	8663	33.6
Not Recorded	9613	37.3

Chart 95

Delay to Diagnosis

Question completed in 91.2% of cases (23503 / 25762)

Delay	N	%
None	21602	83.9
Patient Delay	418	1.6
Radiology Delay	80	0.3
Repeat Biopsies	315	1.2
Clinical Delay	429	1.7
Administrative Delay	133	0.5
DNA (unspecified reasons)	57	0.2
Other Delay	469	1.8
Not Recorded	2259	8.8

Chart 96

Was the Patient discussed at an MDT meeting with formation of a management plan?

Response	N	%
Yes	20018	77.7
No	4834	18.8
Not Known or Not Recorded	910	3.5

H. Completeness of Data

Chart 97

Completeness of Data -1
Percentage and numbers of Total Returns unknown

Data Item	2007 Number Unknown	% of Total Returns 25762	2006 Number Unknown	% of Total Returns 25401	2005 Number Unknown	% of Total Returns 22309
Centre no or Cons no	0	0	0	0	2	0
Hospital number	*432	1.7	***962	3.8	**456	2.0
NHS number	1290	5.0	2068	8.1	2180	9.8
Postcode	565	2.2	703	2.8	615	2.8
Sex	381	1.5	219	0.9	51	0.2
Date of Birth	59	0.2	193	0.8	445	2.0
Organ	100	0.4	138	0.5	57	0.3
Date of Diagnosis	601	2.3	171	0.7	161	0.7
Referral Source	1696	6.6	1828	7.2	1425	6.4
Priority of GP Referrals	397/17010	2.3	478/16751	2.8	428/15250	2.8
Date of Referral	3031	11.8	3212	12.6	2500	11.2
Date of First Consultation	2711	10.5	2559	10.1	1435	6.4
Date of Definitive Treatment	5547	21.5	6870	27.0	6333	28.4
Delay to Diagnosis	1906	7.4	2180	8.6	1525	6.8
Histological confirmation	1745	6.8	1249	4.9	481	2.2
Basis of diagnosis if no Histology	299/3274	9.1	171/2960	5.8	113/2167	5.2

includes private patients (pp), ** =78 pp + 311 from 2 centres with extraction problems ; *** = 43 + 837 from 3 centres not returning hospital numbers; * 21pp + 325 from 2 centres not returning hospital numbers

Chart 98

Completeness of Data -2
Percentage and numbers of Total Returns unknown

Data Item	2007 Number Unknown	% of Total Returns 25762	2006 Number Unknown	% of Total Returns 25401	2005 Number Unknown	% of Total Returns 22309
Histology	543/20743	2.6	417/21192	2.0	1392/21828	6.4
Differentiation	7095/20743	34.2	5779/21192	27.3	6663/21828	30.5
Clinical T Category	7103	27.6	6211	24.4	3599	16.1
Clinical N Category	9164	35.6	8262	32.5	4678	21.0
Clinical M Category	9206	35.7	8269	32.5	4727	21.2
Pathological T Category*	4496/10902	41.2	2022/8032	25.2	2112/9840	21.5
Pathological N Category*	9305/10902	85.4	6566/8032	88.0	3003/9840	30.5
Pathological M Category*	9698/10902	88.9	6816/8032	88.8	3008/9840	30.6
PSA at time of Diagnosis	2779/14491	19.2	2412/14101	17.1	1798/12809	14.1
Gleason Scores	2857/14491	19.7	2661/14101	18.9	1976/12809	15.4
Testicular S Category	615/824	74.6	568/849	66.9	501/738	67.9
Treatment Intention	7612	29.5	7600	29.9	4577	20.5
Treatment Type	748/15927	4.7	943/15649	6.0	3425/15823	21.6
Clinical Trial Status	9638	37.4	9428	37.1	8344	37.4
Discussed at MDT	662	2.6	710	2.8	892	4.0
Pathological Ref. No.	7336	28.5	7244	28.5	7386	33.1

* A pathological staging for Stage II, III or IV bladder tumours and all prostate tumours was only expected where radical surgery was performed. For kidney & pelvis/ureteric tumours it was only expected for those where radical or organ conserving surgery was performed. For 2006 & 2007 data records with "x - cannot be assessed" have been considered unknown

Appendix A – Participants over the Years

The following table displays a list of all Hospitals contributing data to the BCR during the pilot period 1st April to 30th September 1998 and the nine consecutive 12 month periods from January 1999 to December 2007. The final 4 columns show those contributing data for the complex operations dataset for the calendar years 2004 - 2007. Hospitals contributing six months or less data in 2004 are marked ✓.

N.B. Not all consultants from each participating hospital have contributed data

Hospital	BAUS CANCER REGISTRY – MINIMUM DATASET										COMPLEX OPERATIONS			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2004	2005	2006	2007
Aberdeen Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Addenbrooke's Hospital	✓	✓				✓	✓							
Airedale General Hospital	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	
Alexandra Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
Altnagelvin Area Hospital		✓					✓	✓	✓	✓	✓	✓	✓	✓
Antrim Hospital			✓	✓	✓	✓								
Arrowe Park Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Ayr Hospital		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓
Balfour Hospital				✓										
Barnet & Chase Farm Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Barnsley DGH		✓	✓	✓									✓	
Basildon Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Battle Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Bedford Hospital	✓	✓	✓	✓	✓	✓	✓						✓	✓
Belfast City Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Belford Hospital				✓	✓									
Birmingham Heartlands Hospital	✓	✓		✓	✓	✓								
Bolton Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Borders General Hospital				✓	✓	✓								
Bradford Royal Infirmary		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bromley Hospital		✓	✓	✓	✓	✓	✓	✓	✓				✓	✓
Bronglais Hospital	✓	✓	✓	✓	✓	✓	✓	✓						
Broomfield Hospital	✓		✓	✓			✓	✓	✓					✓
Castle Hill Hospital, Hull		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Central Middlesex		✓												
Cheltenham General Hospital	✓	✓	✓	✓		✓								
Chesterfield & North Derbyshire	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓
Christie Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Churchill Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
City Hospital NHS Trust, B'ham	✓	✓	✓	✓	✓		✓							
Colchester General Hospital		✓	✓	✓	✓	✓	✓	✓		✓	✓			
Conquest & 'Eastbourne DGH's		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cookridge Hospital		✓	✓	✓										
Darent Valley Hospital		✓	✓	✓	✓	✓	✓	✓	✓					
Derby City General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Derriford Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Diana, Princess of Wales Hospital		✓	✓	✓	✓	✓								
Doncaster Royal Infirmary	✓	✓	✓				✓	✓	✓	✓			✓	✓
Dorset County Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Hospital	BAUS CANCER REGISTRY – MINIMUM DATASET										COMPLEX OPERATIONS			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2004	2005	2006	2007
Dr Gray's Hospital				✓	✓	✓								
Dumfries & Galloway Royal Infirmary				✓	✓	✓								
East Lancashire Hospitals NHS Trust		✓	✓	✓	✓	✓	✓		✓	✓				
Edith Cavell Hospital	✓	✓	✓	✓	✓	✓	✓	✓						
Epsom General Hospital	✓	✓	✓	✓	✓	✓	✓							
Freeman Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
Frimley Park Hospital		✓	✓	✓	✓	✓			✓	✓			✓	✓
Furness General Hospital	✓	✓	✓	✓	✓	✓	✓	✓			✓			
Gartnavel General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
George Eliot Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Glan Clwyd Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Glasgow Royal Infirmary		✓	✓	✓	✓	✓			✓	✓			✓	✓
Gloucestershire Royal Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Good Hope Hospital NHS Trust		✓	✓	✓	✓	✓	✓	✓	✓	✓				
Guy's Hospital		✓	✓	✓	✓		✓	✓			✓		✓	✓
Halton General Hospital								✓						
Hammersmith Hospital	✓	✓												
Harold Wood Hospital		✓	✓	✓										
Harrogate District Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hereford Hospitals NHS Trust	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hillingdon Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Homerton Hospital						✓	✓	✓	✓					
Huddersfield Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Institute of Urology				✓	✓	✓	✓	✓			✓	✓		
Inverclyde Royal Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓				
James Cook University Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
James Paget Hospital	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		
Kent and Sussex Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Kettering General Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
King George Hospital	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
King's College Hospital	✓	✓	✓	✓	✓	✓	✓	✓						
King's Mill Hospital	✓	✓	✓	✓	✓	✓	✓							
Kingston Hospital		✓	✓	✓	✓		✓	✓						
Leicester General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Leighton Hospital	✓	✓	✓	✓	✓	✓	✓		✓	✓				
Lincoln & Louth NHS Trust		✓	✓	✓		✓	✓				✓			
Lister Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lorn & Islands District General Hospital				✓	✓	✓			✓	✓				
Luton & Dunstable Hospital		✓			✓	✓								
Maidstone Hospital					✓	✓	✓	✓						
Manchester Royal Infirmary				✓	✓	✓	✓	✓	✓	✓				
Mayday University Hospital	✓	✓	✓	✓	✓	✓						✓		
Medway Maritime Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Mid Ulster Hospital						✓								
Milton Keynes General Hospital			✓	✓	✓	✓	✓	✓						
Monklands District General Hospital				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Morrison Hospital	✓	✓	✓	✓	✓		✓	✓						
Mount Vernon & Watford Hospitals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓

Hospital	BAUS CANCER REGISTRY – MINIMUM DATASET										COMPLEX OPERATIONS			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2004	2005	2006	2007
Nevill Hall Hospital			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
New Cross Hospital			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ninewells Hospital			✓	✓	✓	✓								✓
Noble's Isle of Man Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Norfolk & Norwich Hospital		✓	✓	✓	✓	✓								
North Devon District Hospital						✓	✓	✓	✓	✓	✓	✓		
North Hampshire Hospital	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		
North Middlesex Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Northampton General Hospital		✓		✓	✓	✓	✓	✓	✓	✓		✓		
Northwick Park Hospital	✓	✓									✓			
Nottingham City Hospital	✓	✓	✓	✓	✓	✓				✓	✓	✓		✓
Ormskirk District General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perth Royal Infirmary		✓	✓	✓	✓	✓								
Pilgrim Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Pinderfields Hospital	✓	✓	✓	✓	✓									
Prince Philip Hospital				✓	✓		✓	✓	✓	✓				
Princess Alexandra Hospital	✓	✓	✓	✓	✓		✓	✓	✓			✓		
Princess Margaret Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
Princess Of Wales Hospital		✓				✓	✓							
Queen Elizabeth Hospital, B'ham	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Queen Elizabeth Hospital, King's Lynn		✓	✓	✓	✓									
Queen Elizabeth Hospital, Woolwich		✓	✓	✓	✓	✓		✓		✓				
Queen Margaret Hospital		✓	✓	✓	✓	✓	✓				✓			
Queen's Hospital, Burton	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Raigmore Hospital				✓	✓	✓		✓				✓		
Rotherham District General Hospital											✓			
Royal Alexandra Hospital (Paisley)		✓	✓	✓	✓	✓	✓	✓	✓	✓				
Royal Bournemouth Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Royal Cornwall Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Royal Devon and Exeter Hospital	✓	✓	✓	✓	✓	✓	✓	✓					✓	✓
Royal Free Hospital	✓	✓	✓		✓	✓	✓							
Royal Glamorgan Hospital	✓	✓	✓	✓	✓	✓	✓		✓	✓				
Royal Gwent Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Royal Hallamshire Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	
Royal Hampshire County Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Royal Lancaster Infirmary	✓	✓												
Royal Liverpool University Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
Royal Orthopaedic Hospital, B'ham		✓	✓				✓	✓	✓	✓				
Royal Preston Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Royal Shrewsbury Hospital	✓	✓	✓	✓	✓	✓	✓							
Royal Sussex County Hospital	✓	✓	✓			✓	✓	✓		✓				
Royal United Hospital, Bath	✓	✓	✓	✓	✓	✓	✓							
Royal West Sussex NHS Trust, St Richard's Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Salford Royal Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Salisbury District Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Hospital	BAUS CANCER REGISTRY – MINIMUM DATASET										COMPLEX OPERATIONS			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2004	2005	2006	2007
Sandwell District General Hospital	✓	✓	✓	✓	✓		✓	✓	✓	✓				
Scarborough Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Southampton General Hospital						✓	✓		✓	✓	✓	✓	✓	✓
Southend Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Southern General Hospital				✓	✓	✓			✓	✓		✓	✓	
Southmead Health Services Trust	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
St Bartholomew's Hospital		✓	✓	✓	✓	✓		✓	✓					
St George's Hospital	✓	✓	✓	✓	✓	✓					✓	✓		
St Helier Hospital			✓	✓	✓	✓	✓	✓		✓				
St James' Hospital, Dublin	✓	✓	✓	✓	✓									
St James's University Hospital	✓	✓	✓	✓	✓	✓	✓		✓	✓				
St John's Hospital				✓	✓	✓			✓					
St Mary's Hospital, IOW		✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	
St Mary's Hospital, London		✓	✓											
St Mary's Hospital, Portsmouth	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
St Peter's Hospital		✓		✓	✓									
St Vincents Hospital, Eire		✓		✓										
Stafford District General Hospital	✓	✓	✓	✓										
Stepping Hill Hospital		✓	✓	✓		✓	✓	✓						
Stirling Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stobhill Hospital			✓	✓	✓	✓	✓		✓	✓			✓	
Stoke Mandeville Hospital					✓									
Stracathro Hospital		✓	✓	✓	✓	✓								
Sunderland Royal Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Taunton And Somerset Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓				
The Countess of Chester Hospital							✓	✓	✓	✓				
The Ipswich Hospital	✓	✓	✓	✓	✓	✓	✓				✓		✓	✓
The Royal Oldham Hospital		✓	✓	✓	✓	✓	✓	✓						
Torbay Hospital		✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
Ulster Hospital Dundonald		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
United Bristol Health Care Trust	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓		
University Hospital of North Durham		✓	✓		✓	✓	✓	✓	✓					
University Hospital of North Stafford	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓
University Hospital Of Wales	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Vale of Leven Hospital				✓	✓									
Walsall Manor Hospital N H S Trust	✓	✓	✓	✓	✓	✓	✓	✓			✓			
Walsgrave Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wansbeck General Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Warrington District General Hospital	✓	✓	✓	✓	✓									
Warwick Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
West Cumberland Hospital	✓	✓	✓	✓										
West Suffolk Hospital	✓	✓	✓	✓	✓	✓	✓	✓						
West Wales General Hospital		✓	✓	✓	✓		✓	✓	✓	✓		✓		
Western General Hospital, Edinburgh		✓	✓	✓	✓	✓			✓		✓	✓		
Western Isles Hospital				✓	✓									

Hospital	BAUS CANCER REGISTRY – MINIMUM DATASET										COMPLEX OPERATIONS			
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2004	2005	2006	2007
Weston - Super - Mare General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Wexham Park Hospital				✓		✓	✓	✓	✓	✓				
Whipps Cross Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Whiston Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wigan Infirmary					✓	✓								
Wishaw General Hospital					✓	✓								
Worthing Hospital	✓	✓	✓	✓	✓		✓	✓	✓	✓				
Wrexham Maelor Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wycombe General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Yeovil District Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓				
York District Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Ysbyty Gwynedd Hospital	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	