

**THE BRITISH ASSOCIATION OF
UROLOGICAL SURGEONS**

SECTION of ONCOLOGY

**BAUS Cancer Registry
Analyses of Minimum data set for Urological cancers
January 1st – 31st December 2006**

October 2007

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PRODUCED FOR BAUS SECTION OF ONCOLOGY

by

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INTRODUCTION

Once more it is a pleasure to introduce, on behalf of the Executive Committee of the Section of Oncology, the data and analysis of the new urological cancers submitted in 2006.

The number of new cancers registered has risen to over 25,400, reversing the decline of the previous three years. Regretfully however, it is apparent that there are still some cancer centres, and even some of the cancer networks, returning no data whatsoever. Overall it is estimated that we are reporting approximately 45% of the new cancers that occur but there are tremendous regional variations with only 5% of the testicular cancers being reported from Wales, but up to 70% of the penile cancers in England.

It is a great pleasure to report the 40% increase in data reporting from Scotland and smaller increases also from Wales and Northern Ireland.

There have been no major changes in the clinical or pathological data of the five cancers we treat apart from the continued trend, as was noted from the 2004 data, that there are fewer patients with metastatic prostate cancer at diagnosis (only 8% of the total) and more with impalpable localised disease (22% with stage T1c disease).

The data reflects the rapidity with which our patients are being seen for their first consultation, undergoing their diagnostic tests and then receiving their first treatment. There are variations between the four countries with the improvements being most noticeable in England. If patients are referred by their general practitioners through the "Two Week / Rapid Referral route" then this improvement is even more marked.

Not surprisingly laparoscopic treatment has become more commonly used with over 870 cancers being treated this way and, for the first time this year, radical prostatectomy has overtaken nephrectomy as being the most numerous laparoscopic procedure. The enthusiasm for this new treatment and the careful and sensible mentored training that we have undergone is to be commended.

As would be expected with the greater use of the Multi Disciplinary Team Meeting the number of patient's new cancers being discussed in that forum has increased again. It is surprising however, that the percentage is only 77% and not higher.

Depressingly, and despite attempts to make this easier, there has been another fall in the number of patients being successfully recruited, and completing clinical trials – only 1.4% of our patients compared with 2.3% in 2004.

Sarah Fowler is always ready to give advice and help to any individual or centre wishing to collect or submit data to the registry. She continues to do a sterling job collecting and analysing the data that is submitted and my thanks go to her.

Gregor McIntosh
Salisbury

October 2007

AUDIT RESULTS SUMMARY January 1st – 31st December 2006

Who took part?

397 consultant urologists from 117 hospital centres in England, Wales, Scotland and Northern Ireland provided data for this study submitting data on 25,401 newly presenting urological tumours from 1st January to 31st December 2006. Of the 397 consultants, 189 (48%) are full members of the BAUS section of Oncology and returned 51% of the data. These figures represent approximately 45% of the total UK tumours registered in 2004/2005 (54,208) (the most recent years available). 1.8% (450/25401) are the private patients of 104 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 (52 consultants in total).

Data could be returned either in electronic format using either an Access (Microsoft) database or “in-house” database (22,988 – 90% 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. 165 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 24 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 10th September 2007 and relate to diagnoses made during the whole of 2006. The following data was included:

- a. Patients for who the date of diagnosis fell within the time period. (01/01/2006 to 31/12/2006). 25,132 registrations (98.9%).
- 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. (01/01/2006 to 31/12/2006) 196 registrations (0.8%).
- 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. (01/01/2006 to 31/12/2006). 73 (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 2006 dataset.

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

Sarah Fowler
BAUS Cancer Registry (BCR) Manager

October 2007

A. Who took Part and Overall Figures

Whilst we have seen a marked increase in total returns from 2005 it is noted that this is from fewer centres overall. (117 compared to 127 in 2005).

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 2004/2005 – 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:

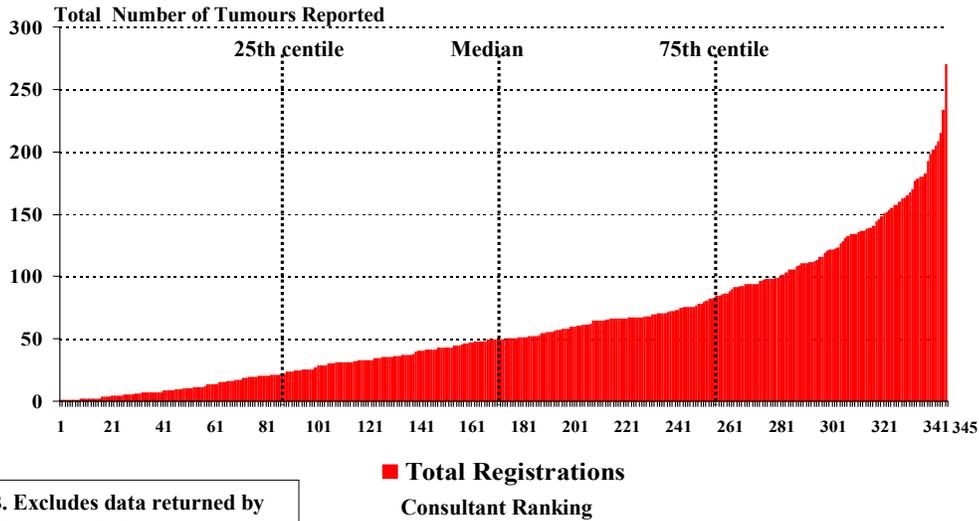
- Our data are only being collected by urologists. We have no way of estimating the number of urological cancers that are not being seen or diagnosed by urologists. In the case of kidney cancer, it seems that a substantial number are never seen by a urological surgeon.
- These data are being presented within nine months of the completion of the year of data collection and being compared to projected national figures from 2004/2005, 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 2006 Who took part

- **397 Consultants from 117 Centres provided data on 25,401 newly presenting urological tumours.**
- **48% (189/397) Consultants are full members of the Section of Oncology. These Consultants returned 51% of the data**
- **1.8% (450/25401) were from the private patients of 104 Consultants**
- **Range of Consultants per Centre = 1 - 12, (Median 3)**
- **Median number of tumours per Consultant = 49, Range 1 - 270**
- **Median number of tumours per Centre = 161, Range 1 - 1008**
- **90% (22988/25401) of the data were returned electronically**

Chart 1

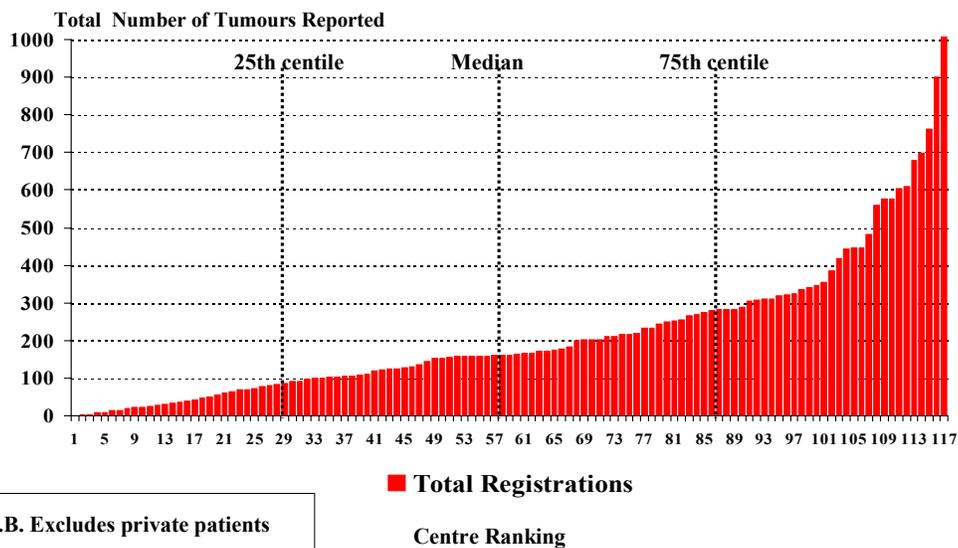
Total Number of Newly Presenting Tumours Reported per Consultant
Median: 49 (Interquartile Range 21 - 86)



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

Chart 2

Total Number of Newly Presenting Tumours Reported per Centre
Median: 161 (Interquartile Range 87 - 282)



N.B. Excludes private patients

Chart 3

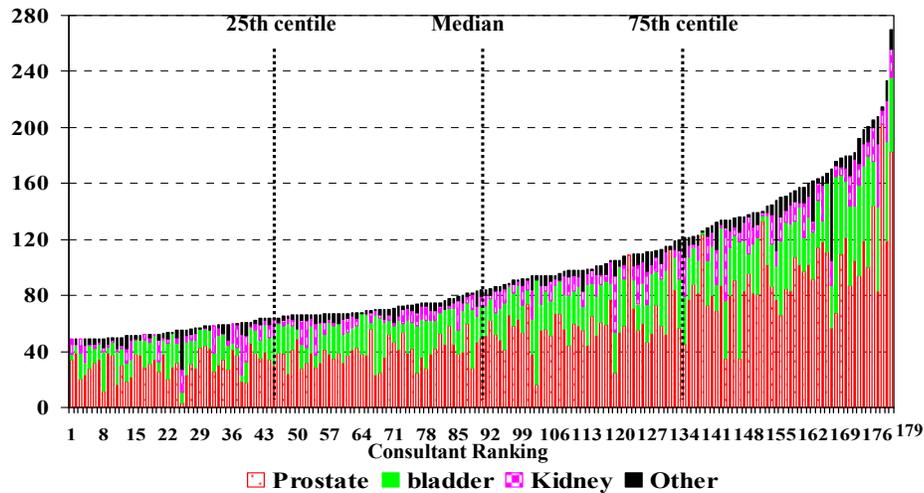
Number of Newly presenting Tumours by Organ per Consultant
397 Consultants reported 25,401 Tumours
Median Total per Consultant = 49

Organ	Total Number Reported	Median per Consultant	Range
Prostate *	14101	26	0 – 202
Bladder	6757	12	0 – 97
Kidney	2478	3	0 – 52
Testis	849	1	0 – 18
Pelvis/Ureter	347	1	0 – 8
Penis	277	0	0 – 24
Urethra	28	0	0 – 2
Prostatic Urethra	12	0	0 - 2

* Includes 121 registrations with High Grade PIN only

Chart 4

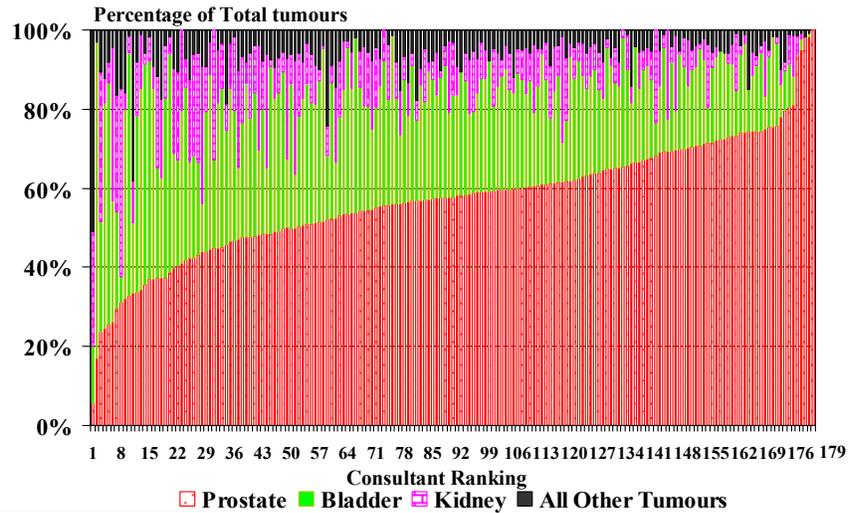
Total Number of Newly Presenting Tumours Reported per Consultant by Organ where n >=49 (i.e. the median reported per consultant)



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 >=49 (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 (25401)	Mean Age at Diagnosis	Age Range	Males	Females
Prostate *	14101	55.5	70.9	20 - 106	14104	-
Bladder	6757	26.6	72.0	19 - 105	4850	1756
Kidney	2478	9.8	66.4	0 - 106	1534	889
Testis	849	3.3	39.0	14 - 102	850	-
Pelvis/Ureter	347	1.4	71.2	36 - 95	226	118
Penis	277	1.1	62.4	24 - 99	276	-
Urethra	28	0.1	71.0	57 - 88	18	9
Prostatic Urethra	12	0.0	72.8	59 - 84	12	-
Other	414	1.6	66.4	19 - 94	340	54
Not recorded	138	0.5	65.4	25 - 91	130	20

* Includes 121 registrations with High Grade PIN only

Chart 7

Overall Data by Organ by Year*

Organ	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)	2002 Number Recorded	% of Total (28,351)
Prostate	14101***	55.5	12809**	57.4	14858##	60.6	16055#	58.9	16580**	58.5
Bladder	6757	26.6	5953	26.7	6073	24.8	7218	26.5	7611	26.8%
Kidney	2479	9.8	2044	9.2	2104	8.6	2254	8.3	2270	7.3
Testis	849	3.3	738	3.3	750	3.1	910	3.3	984	3.5
Pelvis/Ureter	347	1.4	237	1.1	291	1.2	342	1.3	382	1.3
Penis	276	1.1	220	1.0	196	0.8	179	0.6	235	0.8
Urethra	28	0.1	25	0.1	29	0.1	40	0.15	25	0.09
Prostatic Urethra	12	0.0	13	0.1	15	0.1	15	0.05	19	0.07
Other	414	1.6	192	0.9	29	0.1	61	0.2	67	0.25
Not recorded	138	0.5	78	0.3	187	0.8	151	0.56	178	0.63

* Last five years only

Including registrations with High Grade PIN only:

*** 121; # 106; ## 84; #176; ** 101;

Chart 8

“Other” Organ Tumours

Of the 414 “Others” only 49 actually had the organ recorded. The remainder came from 2 sites in the South West & 1 in the North West using their own systems to collect and export data.

“Others” recorded included:

12 Bone

7 Skin

5 Adrenal tumours

2 Paratesticular / Seminal vesicle

1 Endometrial

Chart 9

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

Region	2006 Total Registrations* BAUS	National figures**	2006 BAUS % National	2005 BAUS % National	% Change from 2005#
England	19,944	45,067	44.2	45.8	-1.6
Scotland	2,282	4,268	53.4	12.7	40.7
Wales	1,980	3,687	53.7	43.1	10.6
Northern Ireland	603	1,186	50.8	45.7	5.1
Total UK	24,809	54,208	45.8	43.1	2.7

**England : cancer statistics - registrations of cancer diagnosed in 2004, England. Series MBI no. 35 – 2007
Wales: Welsh Cancer Intelligence & Surveillance Unit - 2005
Scotland: Scottish Cancer Registry, Scottish Cancer Intelligence Group, ISD Scotland - 2004
Northern Ireland: Northern Ireland Cancer Registry - 2005 - www.qub.ac.uk/nicr
Change in BAUS returns for 2006 cf 2005 as a % of the National figures

Chart 10

Returns by Cancer Network (England only)

Cancer Network	Returns 2006	Approximate Population	Returns as % of Population
Lancashire & South Cumbria	499	1,480,630	0.03
Greater Manchester & Cheshire	784	2,955,668	0.03
Merseyside & Cheshire	1213	2,012,568	0.06
Northern	1487	1,922,929	0.08
Teeside, South Durham & North Yorkshire	7	1,020,947	0.00
Yorkshire	1430	2,557,742	0.06
Humber & Yorkshire Coast	772	1,025,645	0.08
North Trent	769	1,742,009	0.04
North West Midlands	51	1,224,333	0.00
Black Country	324	896,500	0.04
Pan Birmingham	899	1,612,196	0.06
Arden	621	969,069	0.06
Mid Trent	608	1,556,063	0.04
Derby / Burton	720	667,764	0.11
Leicestershire, Northamptonshire & Rutland	1224	1,502,967	0.08
Norfolk & Waveney	1	755,785	0.00
West Anglia	3	1,511,927	0.00
Mid Anglia	154	978,676	0.02
South Essex	613	702,606	0.09
Mount Vernon	904	1,452,009	0.06
West London	99	1,732,020	0.01
North London	55	1,178,447	0.00
North East London	199	1,495,174	0.01
South East London	1	1,488,199	0.00
Peninsula	1253	1,576,186	0.08
Dorset	1126	692,712	0.16
Avon, Somerset & Wiltshire	846	1,983,850	0.04
3 Counties	503	1,017,912	0.05
Thames Valley	1362	2,133,676	0.06
Central South Coast	1514	1,908,300	0.08
Surrey, West Sussex & Hampshire	0	1,182,807	0.00
Sussex	271	1,082,706	0.03
Kent & Medway	114	1,579,206	0.01

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	11295	29406	38.4	5535	8137	68.0	1958	4936	39.7
Scotland	1276	2550	50.0	596	832	71.5	237	590	40.0
Wales	1166	2241	52.0	498	883	56.4	215	406	53.0
Northern Ireland	364	748	48.7	128	194	66.0	68	151	45.0
Total UK	14101	34945	40.4	6757	10046	67.3	2478	6083	40.7

**England : cancer statistics - registrations of cancer diagnosed in 2004, England. Series MBI no. 35 – 2007
 Wales: Welsh Cancer Intelligence & Surveillance Unit - 2005
 Scotland:Scottish Cancer Registry,Scottish Cancer Intelligence Group, ISD Scotland - 2004
 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	646	1616	40.0	276	641	43.1	234	331	70.7
Scotland	116	178	65.2	44	73	60.3	13	45	28.9
Wales	67	96	69.7	20	29	69.0	14	32	43.8
Northern Ireland	20	64	31.3	7	20	35.0	16	9	177.7
Total UK	849	1954	43.4	347	763	45.5	277	417	66.4

**England : cancer statistics - registrations of cancer diagnosed in 2004, England. Series MBI no. 35 – 2007
 Wales: Welsh Cancer Intelligence & Surveillance Unit - 2005
 Scotland:Scottish Cancer Registry,Scottish Cancer Intelligence Group, ISD Scotland - 2004
 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	2478	2196 88.6%	1048 47.7%	1148
Testis	849	733 86.3%	359 48.9%	374
Pelvis/Ureter	347	258 74.3%	133 51.5%	125

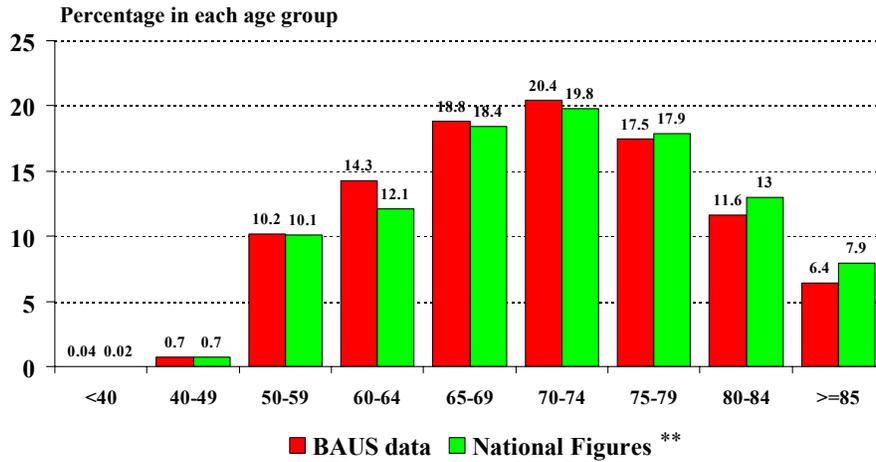
* Number and percentage of those where laterality was recorded

Chart 14

- **Total number of synchronous bilateral tumours = 12**
11 Kidney
1 Testis
- **Total number of Tumours registered twice = 165**
(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 = 166**
(including 3 patients with 3 separate tumours)

Chart 15

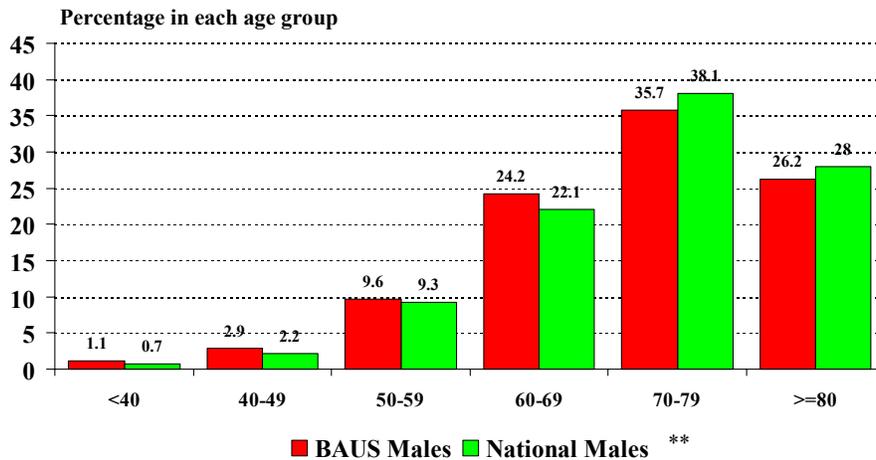
Percentage Age Distribution - Prostate Tumours BAUS 2006 median: 71 Years; Range 20 -106 (n= 13,931*)



* Age could be calculated when both date of birth and diagnosis date were recorded = 13,931/14,101 = 99%
** National figures are for 2004 (England, Scotland), 2005 (Wales & Northern Ireland)

Chart 16

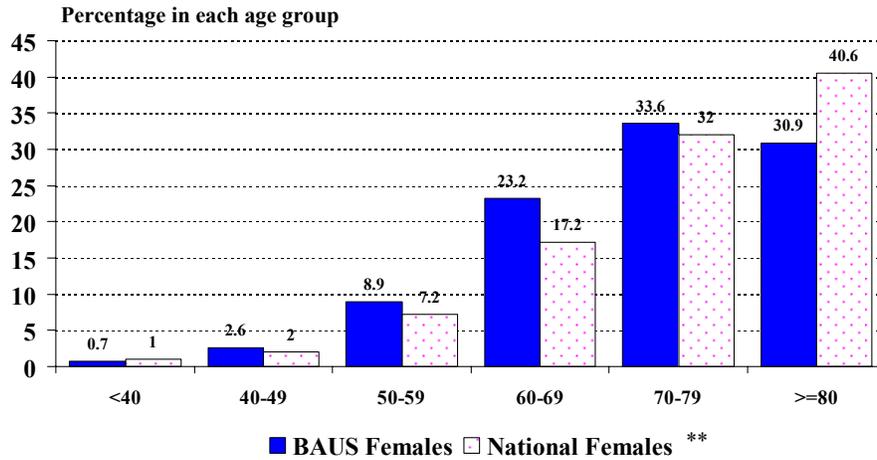
Percentage Age Distribution - Bladder Tumours - Males BAUS 2006 median Males: 73 Years; Range 19 - 100 (n= 4,825*)



* Sex was recorded in 6606/6757 (98%) bladder tumours (4850 males & 1756 females)
Age could be calculated when both date of birth and diagnosis date were recorded = 4825/4850 (99%) & 1749/1756 (99%)
** National figures are for 2004 (England, Scotland), 2005 (Wales, Northern Ireland)

Chart 17

Percentage Age Distribution - Bladder Tumours - Females BAUS 2006 median Females: 74 Years; Range 24 - 105 (n= 1,749*)



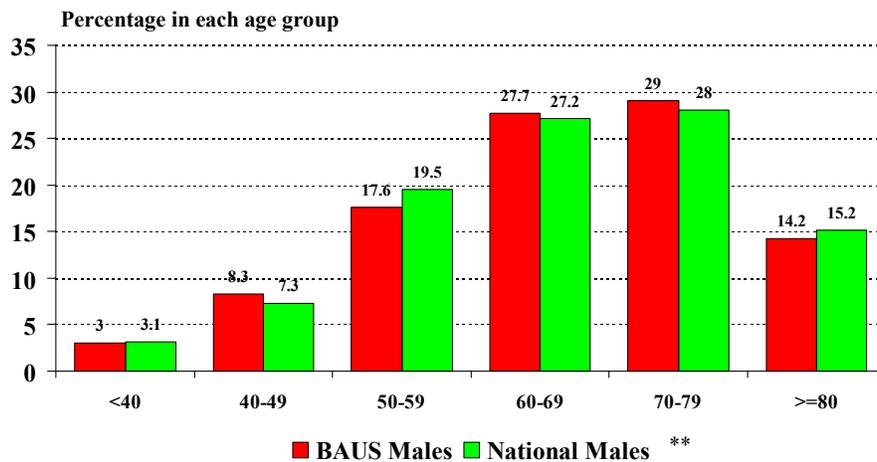
* Sex was recorded in 6606/6757 (98%) bladder tumours (4850 males & 1756 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 4825/4850 (99%) & 1749/1756 (99%)

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

Chart 18

Percentage Age Distribution - Kidney Tumours- Males BAUS 2006 median Males : 67 Years; Range 28 - 106 (n= 1,511*)



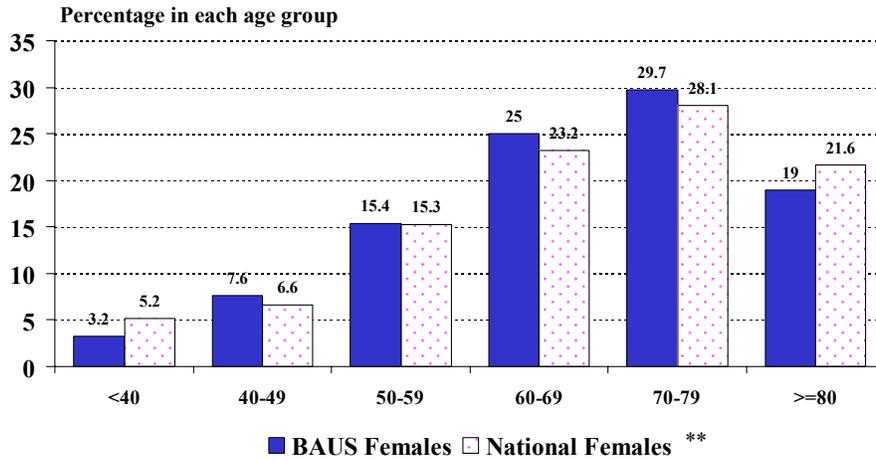
* Sex was recorded in 2423/2478 (97.8%) kidney tumours (1534 males & 889 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 1511/1534 (98.5%) & 881/889 (99%)

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

Chart 19

Percentage Age Distribution - Kidney Tumours - Females BAUS 2006 median Females : 69 Years; Range 21 - 105 (n= 881*)



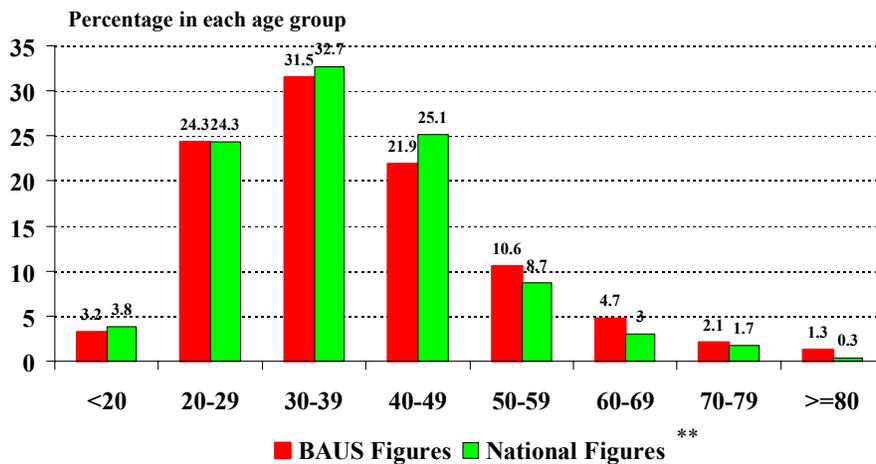
* Sex was recorded in 2423/2478 (97.8%) kidney tumours (1534 males & 889 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 1511/1534 (98.5%) & 881/889 (99%)

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

Chart 20

Percentage Age Distribution - Testicular Tumours BAUS 2006 median: 37 Years; Range 14 -102 (n= 837*)



* Age could be calculated when both date of birth and diagnosis date were recorded = 837/849 (99%).

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

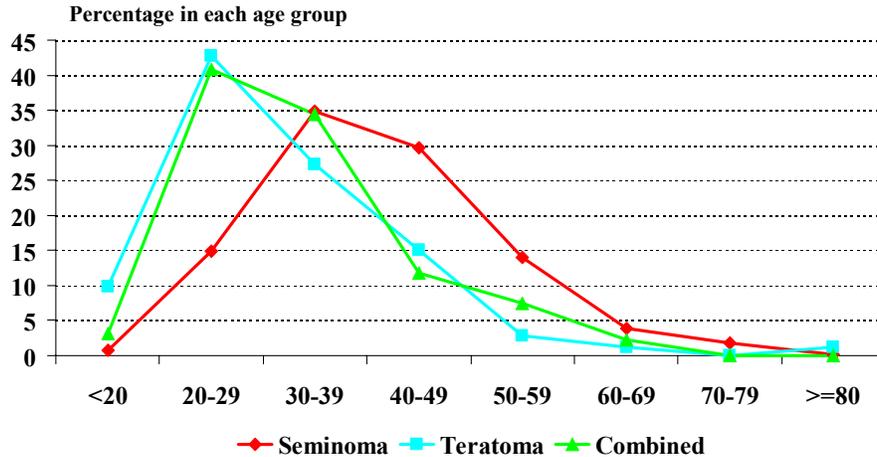
Chart 21

Percentage Age Distribution - Testicular Tumours

Seminoma median age : 39 years; Range 17 - 90; (n = 438*)

Teratoma median age : 28 years; Range 14 - 102; (n = 170*)

Combined seminoma/teratoma median age : 30 years; Range 16 - 69; (n = 93*)



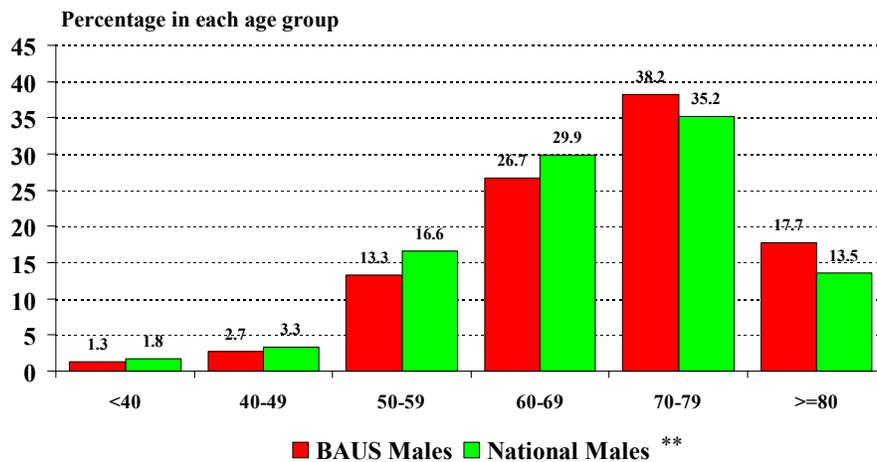
* Age could be calculated when both date of birth and diagnosis date were recorded = 837/849 (99%).

Histology was reported in 790 of these tumours. (790/837 = 94.4%), 88 of these were histologies other than the above groups

Chart 22

Percentage Age Distribution - Pelvis/Ureteric Tumours - Males

BAUS 2006 median Males : 71 Years; Range 36 - 95 (n= 226*)



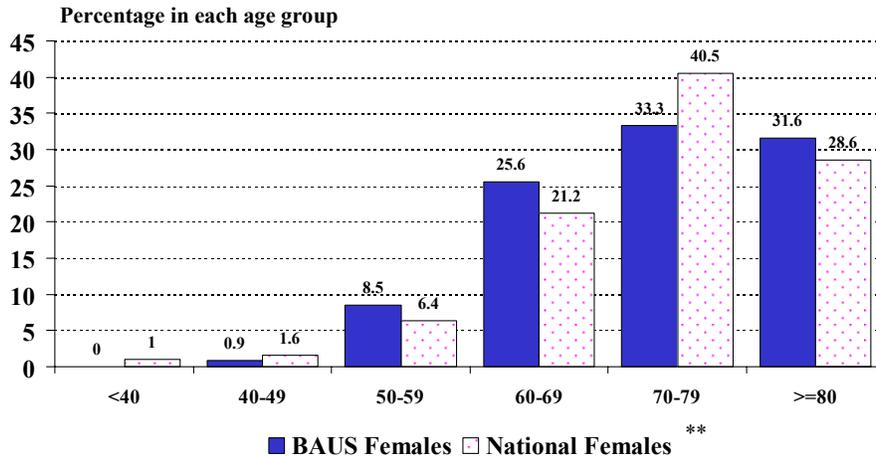
* Sex was recorded in 344/347 (99%) pelvis/ureteric tumours (226 males & 118 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 225/226 (99%) & 117/118 (99%)

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

Chart 23

Percentage Age Distribution - Pelvis/Ureteric Tumours - Females BAUS 2006 median Females : 75Years; Range 47 -93 (n=118*)



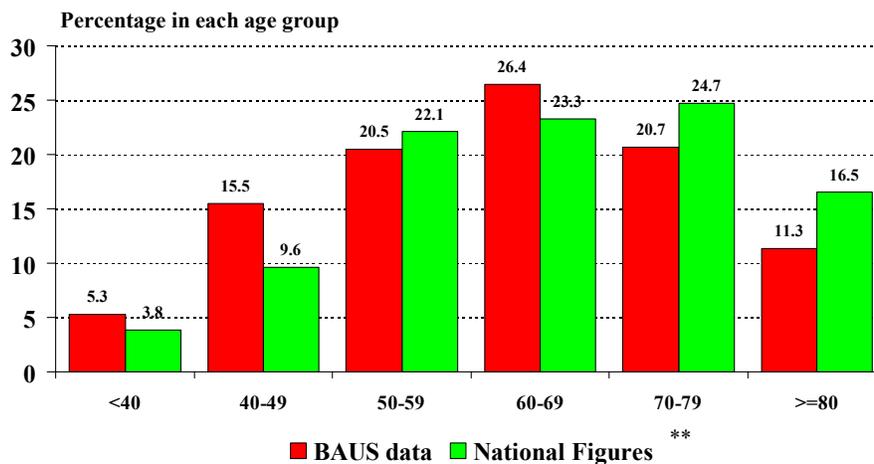
* Sex was recorded in 344/347 (99%) pelvis/ureteric tumours (226 males & 118 females)

Age could be calculated when both date of birth and diagnosis date were recorded = 225/226 (99%) & 117/118 (99%)

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

Chart 24

Percentage Age Distribution - Penile Tumours BAUS 2006 median: 63 Years; Range 24 -99 (n= 264*)



* Age could be calculated when both date of birth and diagnosis date were recorded = 264/276 = 95.7%

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

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

In this section we have included charts from the 2005 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 (91.5%) of GP referrals, under the two-week rule, were seen within 14 days. This is similar to 2005 data (86.9%) 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 73% returns including this item 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 - 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 26

Source of Referral by Organ - 2005

Organ	GP		Urologist		Other		Not Recorded	
	N	%	N	%	N	%	N	%
Prostate	9143	71.4	829	6.5	1958	15.3	879	6.9
Bladder	4259	71.5	237	4.0	1068	17.9	389	6.5
Kidney	845	41.3	236	11.5	802	39.2	161	7.9
Testis	563	76.3	17	2.3	126	17.1	32	4.3
Pelvis/Ureter	133	56.1	25	10.5	63	26.6	16	6.8
Penis	91	41.4	55	25.0	33	15.0	41	18.6
Urethra	10	40.0	1	4.0	5	20.0	9	36.0
Prostatic Urethra	8	61.5	1	7.7	1	7.7	3	23.1
Other or Not Recorded	198	73.3	21	7.8	32	11.9	19	7.0
Totals	15250	68.4	1422	6.4	4088	18.3	1549	6.9

Chart 27

“Other” Sources of Referral by Organ included:

	Prostate	Bladder	Kidney	Testis	Pelvis/ Ureter	Penis	Urethra	Prostatic Urethra
Consultant Physicians	259	162	267	14	11	10	1	
Consultant Surgeons	186	86	154	9	14	3	2	
A & E	240	268	123	41	16	5		
Gynaecology		58	12		1		4	
Care of Elderly	23	16	6		1			
Haematology	16	7	16	1	1			
Oncologists	21	14	18	9		2		
Discovered during Urological Follow-up	587	106	42	8	18	8	2	2
Radiology		2	10	8				
Incidental Finding	275	58	78	4	14	4	1	1
Other	341	103	112	8	11	15		

Chart 28

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 29

Source of Referral by Country - 2005 Country could be identified in 22307/22309 tumours (99.9%)

Region	GP		Urologist		Other		Not Recorded	
	N	%	N	%	N	%	N	%
England	13409	68.3	1164	5.9	3698	18.8	1363	6.9
Scotland	393	78.9	17	3.4	76	15.3	12	2.4
Wales	1104	68.1	138	8.5	219	13.5	161	9.9
Northern Ireland	343	62.0	102	18.4	95	17.2	13	2.4
Total UK	15249	68.4	1421	6.4	4088	18.3	1549	6.9

Chart 30

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	

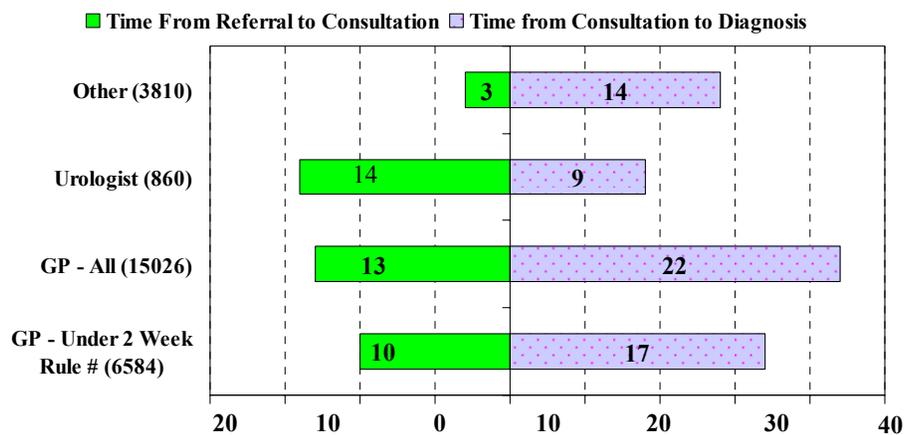
Chart 31

Priority of GP Referrals by Organ 2005

Priority	Prostate		Bladder		Kidney		Testis		Pelvis/ Ureter		Penis		Totals	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Under 2 week rule	3825	41.8	1935	45.4	382	45.2	358	63.6	43	32.3	39	42.9	6575	44.0
Emergency	257	2.8	180	4.2	68	8.0	25	4.4	14	10.5	6	6.6	555	3.7
Urgent	2195	24.0	988	23.2	208	24.6	111	19.7	44	33.1	19	20.9	3579	24.0
Routine	2154	23.6	860	20.2	119	14.1	46	8.2	22	16.5	21	23.1	3218	21.5
Discovered during urological follow-up	29	0.3	7	0.2	2	0.2	1	0.2	0	0.0	0	0.0	39	0.3
Unknown / Not Recorded	683	7.5	289	6.8	66	7.8	22	3.9	10	7.5	6	6.6	1078	7.2
Total	9143		4259		845		563		133		91		14943	

Chart 32

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



* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date (N = 19,840/25,401 = 78% tumours)

Referral Source was recorded in 19,696/19,840 (99%) cases

Referral priority was recorded in 97% (13224/13649) GP referrals in England where 2 week rule operates

Chart 33

**Times to First Consultation and Diagnosis in Days
when referred by GP (15,026 tumours)
Excluding those diagnosed before Referral - 2006**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	743	4.9	2614	17.4
1 – 14	7645	50.9	3128	20.8
15 – 28	2460	16.4	3322	22.1
29 - 60	2616	17.4	3149	21.0
More than 60 days	1562	10.4	2813	18.7

* = 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 (6,584 tumours)
Excluding those diagnosed before Referral - 2006**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	53	0.8	1272	19.3
1 – 14	5972	90.7	1693	25.7
15 – 28	434	6.6	1766	26.8
29 - 60	86	1.3	1243	18.9
More than 60 days	39	0.6	610	9.3

* = 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 (860 tumours)
Excluding those diagnosed before Referral - 2006**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	206	24.0	271	31.5
1 – 14	243	28.3	225	26.2
15 – 28	165	19.2	129	15.0
29 - 60	125	14.5	121	14.1
More than 60 days	121	14.1	114	13.3

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

Chart 36

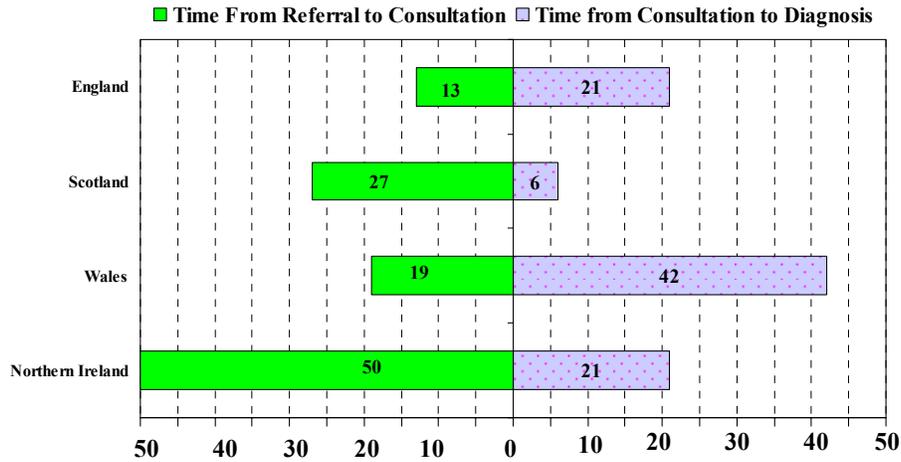
**Times to First Consultation and Diagnosis in Days
when referred by “Other” source (3,810 tumours)
Excluding those diagnosed before Referral - 2006**

Days to Diagnosis	Time to first Consultation		Time from first consultation to Diagnosis	
	N	%	N	%
0 *	1620	42.5	1041	27.3
1 – 14	1050	27.6	917	24.1
15 – 28	419	11.0	536	14.1
29 - 60	437	11.5	656	17.2
More than 60 days	284	7.5	660	17.3

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

Chart 37

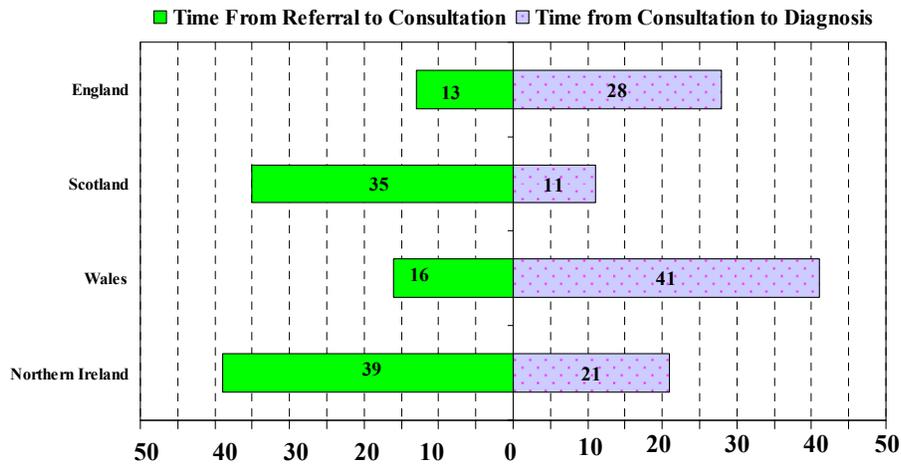
Median Time to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2006
Excluding tumours diagnosed before Referral*



* 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 38

Median Time to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2005
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 = 14,019/15,250 = 92% of GP referrals

Chart 39

**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

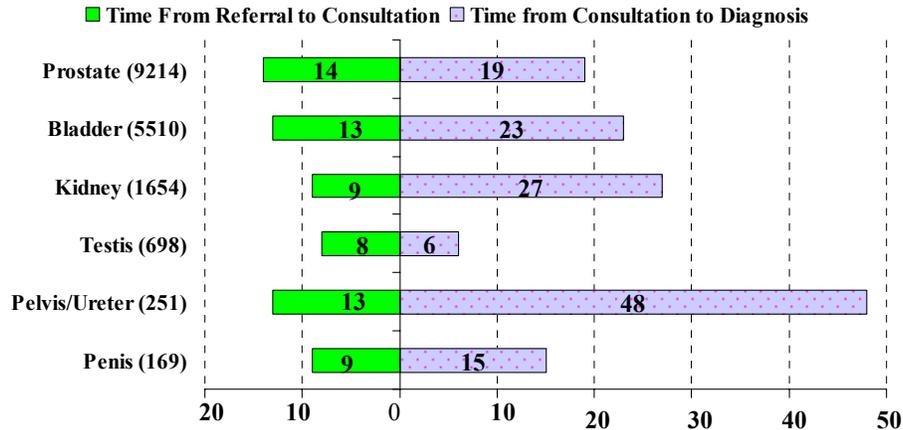
Chart 40

**Times to First Consultation and Diagnosis in Days by Country for tumours referred by GP - 2005
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 (12279 tumours)	13	29.1	0 – 86	28	79.4	0 – 278
Scotland (374 tumours)	35	99.3	0 – 122	11	30.9	0 – 113
Wales (1047 tumours)	16	33.7	0 – 103	41	70.6	0 – 220
Northern Ireland (320 tumours)	39	57.7	0 – 184	21	106.0	0 - 550

Chart 41

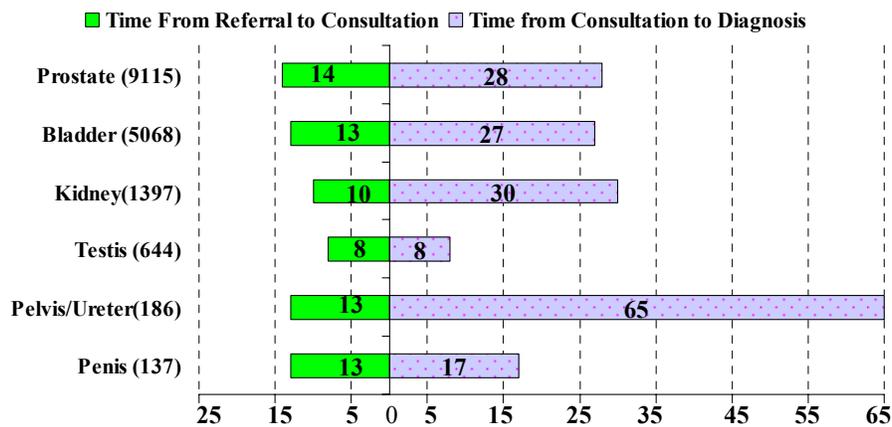
**Median Time to First Consultation and Diagnosis in Days by Organ
Excluding tumours diagnosed before Referral*
2006 dataset**



* 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%

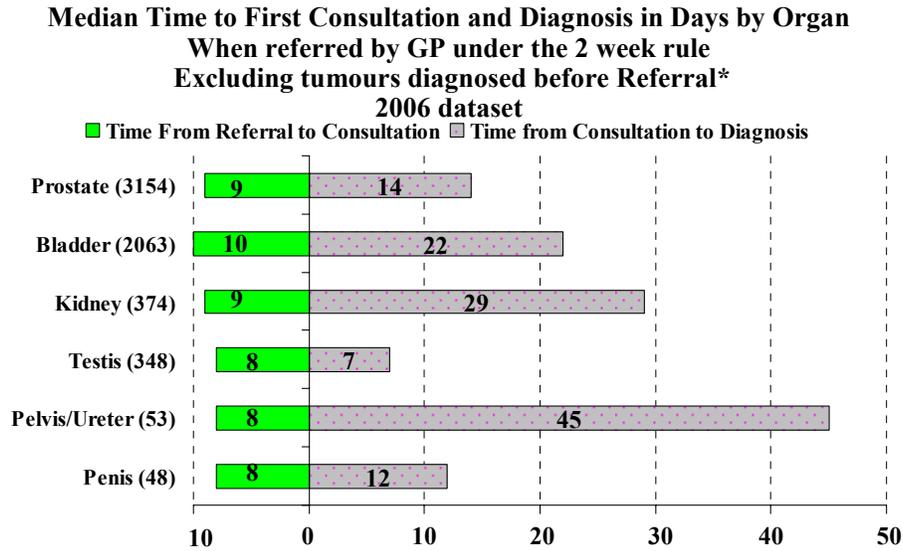
Chart 42

**Median Time to First Consultation and Diagnosis in Days by Organ
Excluding tumours diagnosed before Referral*
2005 dataset**



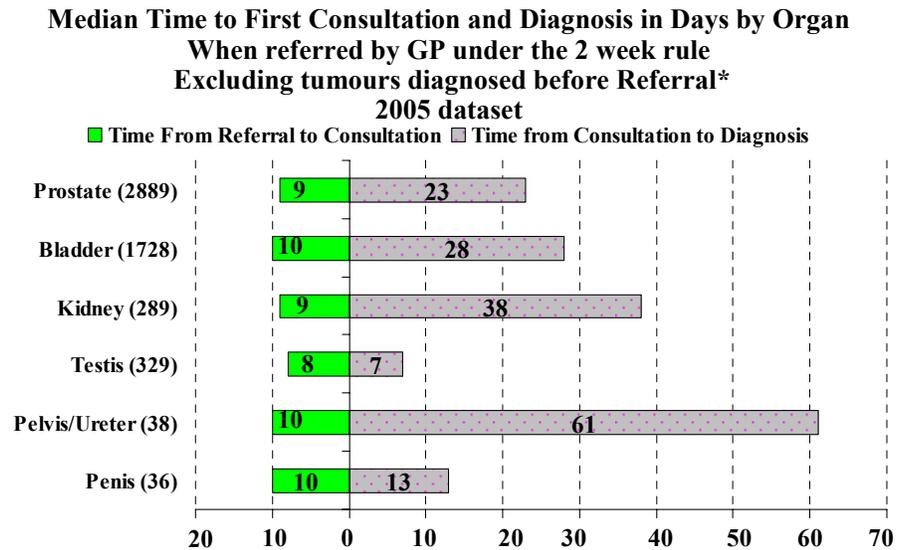
* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date (N = 18174/22309 = 81.5% tumours - Bladder = 5068/5953 = 85.1%; Kidney = 1397/2044 = 68.3%; Testis = 644/738 = 87.3%; Pelvis/Ureter = 186/237 = 78.5%; Penis = 137/220 = 62.2%. Prostate tumours were only included if they were >T1b = 9115/10748 = 84.8%

Chart 43



* 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 44



* Times were calculated when dates of referral, consultation and diagnosis were known and diagnosis date was not before referral date . 18174/22309 = 81.5% tumours -
Bladder = 1728/1803 = 95.8%; Kidney = 289/344 = 84.0%;
Testis = 329/342 = 96.2%; Pelvis/Ureter = 38/41 = 92.7%; Penis = 36/36 = 100%.
Prostate tumours were only included if they > T1b = 2889/3032 = 95.3%

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%)
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**

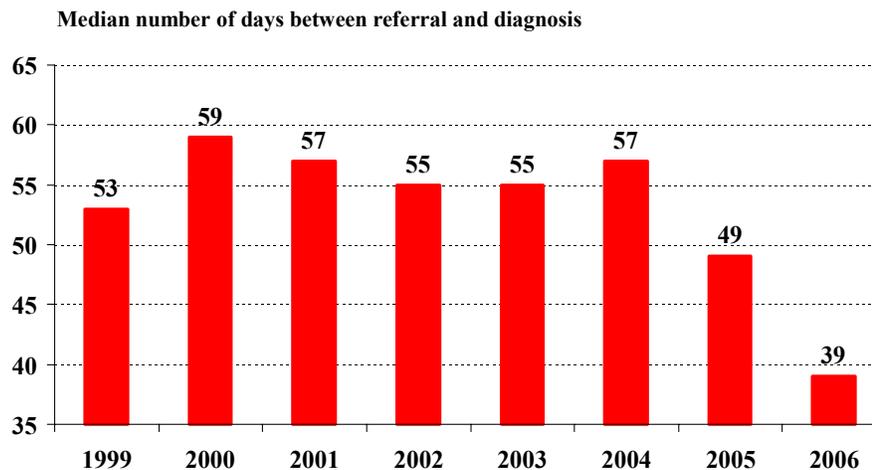


Chart 47

Times to Definitive Treatment in Days by Organ - 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 48

Times to Definitive Treatment in Days by Organ - 2005 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 (5651)	94	151.3	0 - 474	27	34.8	0 - 134
Bladder (2296)	56	78.1	0 - 224	0	4.1	0 - 64
Kidney (774)	65	120.5	0 - 266	0	12.6	0 - 94
Testis (307)	15	30.5	0 - 107	0	5.9	0 - 23
Pelvis/Ureter (122)	117	192.2	6 - 469	5	18.6	0 - 108
Penis (47)	41	85.8	1 - 249	7	15.3	0 - 93

Definitive treatment date was recorded in 71.6% tumours (15976/22309)

Chart 49

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 50

Times to Definitive Treatment in Days by Organ - 2005 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 (1989)	64	90.2	1 – 291	22	29.4	- 120
Bladder (864)	44	58.7	3 – 159	0	4.3	0 – 62
Kidney (182)	69	78.2	13 – 161	1	9.2	0 – 86
Testis (183)	16	25.9	2 – 79	0	4.6	0 – 15
Pelvis/Ureter (22)	95	139.2	28 – 302	21	18.6	0 – 45
Penis (13)	61	62.8	12 – 122	29	25.7	0 - 69

Definitive treatment date was recorded in 71.3% tumours referred by GP under the 2 week rule (4592/6441)

Chart 51

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	28	37.6	0 - 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 - 102	9	14.4	0 - 49	

Chart 52

Times to Definitive Treatment in Days - Prostate Cancer by Stage - 2005
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)	2	-	-	-	-	-	-
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	<i>T1-52</i>	100	147.2	9 - 399	37	62.7	0 - 153
	<i>T1a-6</i>	70	86	29 - 134	20	36.2	0 - 55
	<i>T1b-6</i>	167	227.7	66 - 311	56	86	5 - 158
	<i>T1c-188</i>	112	177.2	8 - 470	46	60.1	0 - 145
	<i>T2-420</i>	78	111.4	2 - 399	30	44.5	0 - 120
Stage III (T3 N0 M0 Any differentiation)	479	50	73.6	1 - 207	21	32.7	0 - 108
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	291	35	45.8	1 - 132	12	17.6	0 - 66

Chart 53

**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 54

**Times to First Consultation, Diagnosis and Definitive Treatment in Days
by Prostate (9115 tumours)- 2005 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 *	826	9.1	1531	16.8	1305	14.3
1 – 14	3758	41.2	1564	17.2	773	8.5
15 – 28	1454	16.0	1553	17.0	1203	13.2
29 - 60	1828	20.1	2049	22.5	272	3.0
More than 60 days	1249	13.7	2418	26.5	1513	16.6
Not Recorded	-		-		4049	44.4

* = 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 (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 56

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Bladder (5068 tumours)- 2005 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 *	664	13.1	650	12.8	2968	58.6
1 – 14	2259	44.6	916	18.1	269	5.3
15 – 28	827	16.3	1090	21.5	311	6.1
29 - 60	840	16.6	1419	28.0	330	6.5
More than 60 days	478	9.4	993	19.6	153	3.0
Not Recorded	-		-		1037	20.5

* = 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 (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 58

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Kidney (1397 tumours)- 2005 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 *	277	19.8	200	14.3	799	57.2
1 – 14	647	46.3	250	17.9	73	5.2
15 – 28	223	16.0	233	16.7	73	5.2
29 - 60	165	11.8	329	23.6	146	10.5
More than 60 days	85	6.1	385	27.6	104	7.4
Not Recorded	-		-		202	14.5

* = 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 (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

Chart 60

Times to First Consultation, Diagnosis and Definitive Treatment in Days by Testis (644 tumours)- 2005 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 *	94	14.6	89	13.8	441	68.5
1 – 14	432	67.1	354	55.0	84	13.0
15 – 28	61	9.5	90	14.0	9	1.4
29 - 60	36	5.6	70	10.9	9	1.4
More than 60 days	21	3.3	41	6.4	4	0.6
Not Recorded	-		-		97	15.1

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

C. Histology

Histological confirmation was available in 83% of all tumours. This is a 5% decrease from 2005 and 8% since 2004 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 (14101)	12604	89.4	1025	7.3	472	3.3
Bladder (6757)	5922	87.6	494	7.3	341	5.0
Kidney (2478)	1369	55.2	886	35.8	223	9.0
Testis (849)	690	81.3	107	12.6	52	6.1
Pelvis/Ureter (347)	256	73.8	71	20.5	20	5.8
Penis (277)	248	89.5	13	4.7	16	5.8
Urethra (28)	19	67.9	1	3.6	8	28.6
Prostatic Urethra (12)	11	91.7	0	0.0	1	8.3
Other or Not Recorded (552)	73	13.2	363	65.8	116	21.0
Totals (25401)	21192	83.4	2960	11.7	1249	4.9

Chart 62

Known Histology by Organ

	Prostate	Bladder	Kidney	Testis	Pelvis/ Ureter	Penis	Urethra	Prostatic Urethra
Adenocarcinoma	12644 97.3%	93 1.4%	1398* 82.3%	1 0.1%	12 4.1%	-	4 16.7%	1 9.1%
TCC	35 0.3%	5897 91.5%	145 8.5%	2 0.3%	269 90.9%	-	10 41.7%	10 90.1%
SCC	17 0.1%	110 1.7%	6 0.4%	4 0.5%	3 1.0%	223 88.1%	9 37.5%	-
Mixed TCC / SCC	-	15 0.2%	-	8 1.0%	-	1 0.4%	-	-
Seminoma	-	-	2 0.1%	443 55.4%	-	-	-	-
Teratoma	-	-	-	176 22.0%	-	-	-	-
Mixed Seminoma / Teratoma	-	-	-	93 11.6%	-	-	-	-
High Grade PIN	121 0.9%	-	-	-	-	-	-	-
Other	176 1.4%	333 5.2%	148 8.7%	73 9.1%	12 4.1%	29 11.5%	1 4.2%	-

*N.B. Includes 1367 renal cell carcinomas

Chart 63

“Other” Histologies reported included:

	Prostate	Bladder	Kidney	Testis	Penis
Carcinoma in situ		52		1	8
Oncocytoma			10		
Sarcoma/Liposarcoma /Leiomyosarcoma	1	15	9	4	
Haematological cancers		4	5	10	
Leydig cell				16	
Melanoma	1		1	1	1
Small cell ca/papillary renal cell / spindle cell	3	12	47		

Chart 64

Basis of Diagnosis when Histological Confirmation Not Obtained (2960 tumours – 11.7% of total)

Organ	Radiology	Cytology	Tumour Marker	Clinical	Other
Prostate (1025 tumours)	165	9	345	571	187
Bladder (494 tumours)	167	13	1	153	195
Kidney (886 tumours)	778	7	10	127	38
Testis (107 tumours)	63	-	4	26	34
Pelvis/Ureter (71 tumours)	54	2	1	17	9
Penis (13 tumours)	-	-	-	3	5

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		Moderate		Poor		% of Total Tumours Reported
	N	%	N	%	N	%	
Prostate (9603)	469	4.9	6704	69.8	2430	25.3	68.1
Bladder (4862)	1047	21.5	1754	36.1	2061	42.4	72.0
Pelvis/Ureter (76)	13	17.1	31	40.8	32	42.1	21.9
Penis (174)	39	22.4	91	52.3	44	25.3	62.8
Urethra (13)	0	0.0	8	61.5	5	38.5	46.4
Prostatic Urethra (7)	1	14.3	3	42.9	3	42.9	58.3

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.) The number of returns having a relevant clinical T category (i.e. not X or null) has fallen significantly from 63.5% in 2005 to 56.3% in 2006 and only 27% 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.

The number of prostate cancers reported with T1c has risen again but this is not significant at the 95% CI.

Chart 66

Staging of Kidney Tumours A total of 2478 Kidney Tumours were reported Staging could be estimated in 1653 (66.7%)

Known Staging	Total Known	
	N	%
Stage I (T1 N0 M0)	662	40.0
Stage II (T2 N0 M0)	289	17.5
Stage III (T1, T2, T3 N0,N1 M0)	426	25.8
Stage IV (T4 N0,N1 M0 Any T N2 M0 Any T any N M1)	276 including 228 with metastases	16.7 13.8

N.B. A pathological staging for Kidney tumours was only included for those where radical or organ conserving surgery was performed (n =1321)

Chart 67

Staging of Pelvis / Ureteric Tumours A total of 347 Tumours were reported Staging could be estimated in 203 (58.5%)

Known Staging	Total Known	
	N	%
Stage 0a (Ta N0 M0)	65	32.0
Stage 0is (Tis N0 M0)	3	1.5
Stage I (T1 N0 M0)	43	21.2
Stage II (T2 N0 M0)	29	14.3
Stage III (T3 N0 M0)	39	19.2
Stage IV (T4 N0 M0 Any T N1, N2, N3 M0 Any T any N M1)	24 including 14 with metastases	11.8 6.9

N.B. A pathological staging for Pelvis / Ureteric tumours was only included for those where radical or organ conserving surgery was performed (n =179)

Chart 68

Staging of Bladder Tumours A total of 6757 Bladder Tumours were reported Staging could be estimated in 4941 (73.1%)

Known Staging	Total Known	
	N	%
Stage 0a (Ta N0 M0)	2498	50.6
Stage 0is (Tis N0 M0)	92	1.9
Stage I (T1 N0 M0)	1340	27.1
Stage II (T2a, 2b N0 M0)	565	11.4
Stage III (T3a, 3b, 4a N0 M0)	286	5.8
Stage IV (T4b N0 M0 Any T N1, N2, N3 M0 Any T any N M1)	160 including 73 with metastases	3.2 1.5

N.B. A pathological staging for Stage II, III or IV Bladder tumours was only included for tumours where radical surgery was performed (n =180)

Chart 69

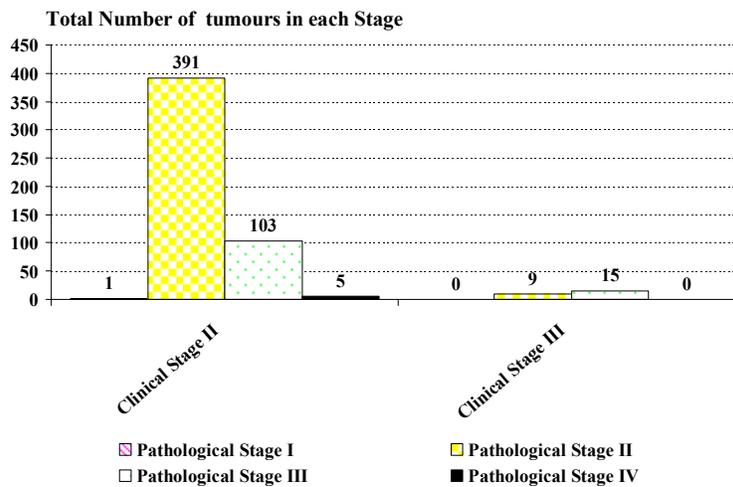
Staging of Prostate Tumours
A total of 14101 Prostate Tumours were reported
Staging could be estimated in 9214 (65.3%)

Known Staging	Total Known	
	N	%
Stage I (T1a N0 M0 Well Differentiated)	5044	0.5
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	t1, 1a, 1b - 683 t1c - 2110 t2 - 3248	7.4 22.9 35.3
Stage III (T3 N0 M0 Any differentiation)	1923	20.9
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	1200 including 736 with metastases	13.0 8.0

N.B. A pathological staging for Prostate tumours was only included for those where radical surgery was performed (n =1528)

Chart 70

Staging of Prostate Tumours
Comparison of clinical & pathological staging

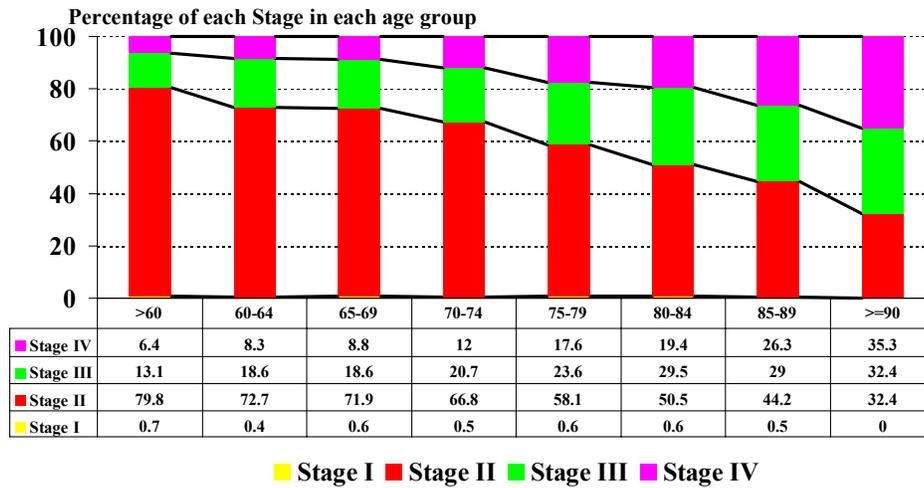


N.B. A pathological staging for Prostate tumours was only included for those where radical surgery was performed (n =1528). Staging could be compared in 34.6% of these (529/1528).

Chart 71

Staging of Prostate Tumours by Age Group

Total in Stage I where age was known = 50
 Total in Stage II where age was known = 5914
 Total in Stage III where age was known = 1913
 Total in Stage IV where age was known = 1169



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

Chart 72

Prostate Cancers reported 1998 - 2006

	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%

* Number where staging could be estimated

Chart 73

Staging of Prostate Tumours by PSA

Numbers falling in each category*

PSA was recorded in 82.9% tumours (11689/14101)

Gleason scores were recorded in 81.1% tumours (11440/14101)

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)	39	25	64.1%	7	17.9%	6	15.4%	1	2.6%	0	-
Stage II (T1a N0 M0 Mod or Poor differentiation T1b, 1c, 1, 2, N0 M0 Any differentiation)	5428	708	13.0%	2176	40.1%	1469	27.1%	742	13.7%	333	6.1%
Stage III (T3 N0 M0 Any differentiation)	1650	77	4.7%	260	15.8%	350	21.2%	476	28.8%	487	29.5%
Stage IV (T4 N0 M0 Any differentiation Any T N1 M0 Any differentiation Any T Any N M1 Any differentiation)	798	23	2.9%	35	4.4%	73	9.1%	181	22.7%	486	60.9%
Totals	7915*	833	10.5%	2478	31.3%	1898	24.0%	1400	17.7%	1306	16.5%

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 81.1% tumours (11440/14101)

Age could be recorded in 98.4% (11258/11440) 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	1318	5	0.4	754	57.2	384	29.1	175	13.3
60 – 64	1673	10	0.6	783	46.8	562	33.6	318	19.0
65 – 69	2209	15	0.7	1043	47.2	729	33.0	422	19.1
70 – 74	2379	16	0.7	868	36.5	845	35.5	650	27.3
75 – 79	1951	15	0.8	570	29.2	746	38.2	620	31.8
80 – 84	1193	9	0.8	319	26.8	436	36.5	429	35.9
85 – 89	454	0	0.0	98	21.6	173	38.1	183	40.3
>=90	81	0	0.0	12	14.8	21	25.9	48	59.3
Totals	11258	70	0.6	4447	39.5	3896	34.6	2845	25.3

Chart 75

Gleason Sum Score Related to Age

Gleason scores were recorded in 81.1% tumours (11440/14101)
 Age could be recorded in 98.4% (11258/11440) of these

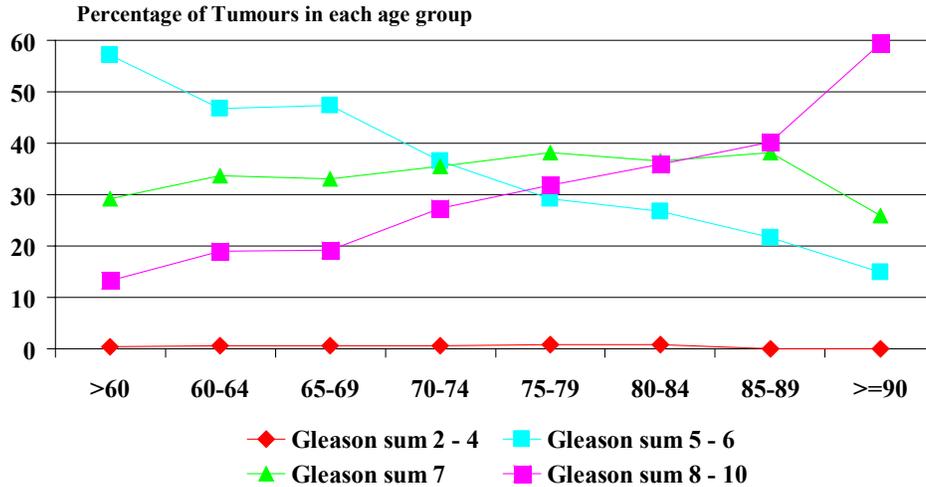


Chart 76

Staging of Testicular Tumours

A total of 849 Testicular Tumours were reported
 Staging could be estimated in 575 (67.6%)

Known Staging	Seminoma		Teratoma		Combined Seminoma/ Teratoma		Other Histology	
	N	%	N	%	N	%	N	%
Total numbers where staging & histology known:	323		130		77		46	
Stage 0 (Tis N0 M0 S0, SX)	0	0.0	0	0.8	0	0.0	0	2.3
Stage I (T1,2,3,4 N0 M0 SX)	164	50.8	66	50.8	40	51.9	26	56.5
Stage IA (T1, N0 M0 S0)	63	19.5	12	9.2	9	11.7	4	8.7
Stage IB (T2, 3, 4, N0 M0 S0)	26	8.0	4	3.1	5	6.5	3	6.5
Stage IS (Any T N0 M0 S1, 2, 3)	60	18.6	33	25.4	19	24.7	9	19.6
Stage II (Any T, N1, 2, 3, M0, SX, 0, 1)	4	1.2	13	10.0	3	3.9	1	2.2
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)	6	1.9	2	1.5	1	1.3	3	6.5

Chart 77

Testicular Tumours by Serum Tumour Marker A total of 849 Testicular Tumours were reported Tumour markers and Histology were reported in 282 (33.2%)

Serum Tumour Marker	Seminoma		Teratoma		Combined Seminoma/ Teratoma		Other Histology	
	N	%	N	%	N	%	N	%
Total numbers where tumour marker & histology known:	167		60		35		20	
S0 (Serum marker study levels within normal limits)	99	59.3	19	31.7	16	45.7	10	50.0
S1 (LDH <1.5*N and HCG (ml/U/ml) <5,000 and AFP (ng/ml) <1,000)	38	22.8	23	38.3	8	22.9	4	20.0
S2 (LDH 1.5 – 10 *N or HCG (ml/U/ml) 5,000 - 50,000 or AFP (ng/ml) 1,000 – 10,000)	27	16.2	16	26.7	9	25.7	6	30.0
S3 (LDH >10*N or HCG (ml/U/ml) > 50,000 or AFP (ng/ml) >10,000)	3	1.8	2	3.3	2	5.7	0	0.0

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

Chart 78

Staging of Penile Tumours A total of 277 Penile Tumours were reported Staging could be estimated in 156 (56.3%)

Known Staging	Total Known	
	N	%
Stage 0 (Tis, a, N0 M0)	22	14.1
Stage I (T1 N0 M0)	59	37.8
Stage II (T2 N0, N1 M0)	44	28.2
Stage III (T1, 2, N2 M0 T3, N0, N1, N2, M0)	21	13.5
Stage IV (T4 Any N M0 Any T N3 M0 Any T Any N M1)	10 including 5 with metastases	6.4 3.2

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 (9908)	4451	44.9	3616	36.5	1841	18.6	70.3
Bladder (4903)	4469	91.1	373	7.6	61	1.2	72.6
Kidney (1768)	1252	70.8	306	17.3	210	11.9	71.3
Testis (613)	604	98.5	6	1.0	3	0.5	72.2
Pelvis/Ureter (238)	190	79.8	30	12.6	18	7.6	68.6
Penis (163)	149	91.4	7	4.3	7	4.3	58.8
Urethra (17)	14	82.4	3	17.6	0	0.0	60.7
Prostatic Urethra (6)	5	83.3	0	0.0	1	16.7	50.0

Chart 80

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

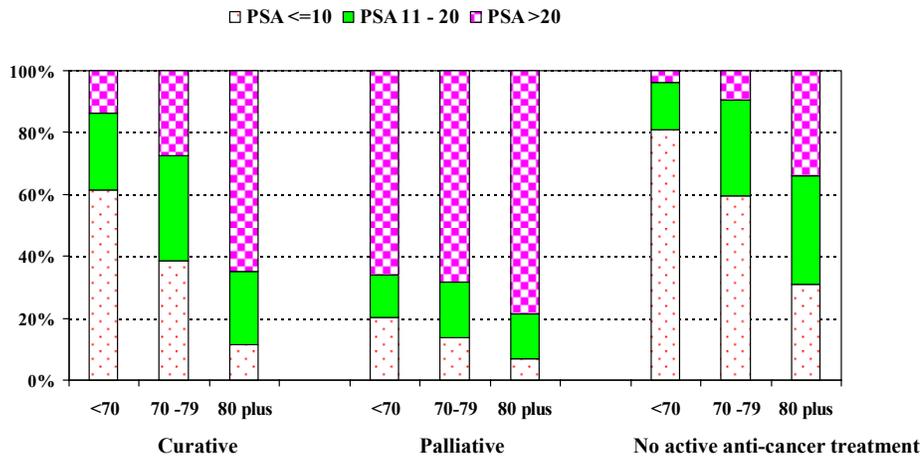


Chart 81

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	9 (9)	1
Radical Ablative Surgery	748 (693)	54 (31)
Organ Conserving Surgery *	75 (71)	1 (1)
Biopsy &/or Ultrasound guided biopsy	3	6
Other Surgery	5 (2)	4 (1)
Radiation Therapy	8 (2)	14 (5)
Systemic Chemotherapy	4	8 (5)
Hormone Therapy	-	3 (2)
Systemic Immunotherapy	16	27 (8)
Palliative care	1	36 (23)
Referred to another centre / specialist	29 (11)	14 (6)
Surveillance / monitoring	16 (2)	4 (3)
Other Treatment	2 (1)	5 (2)

* Performed by 38 centres, median per centre = 2, Range 1 - 11
79 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	21 (12)	3 (1)
Endoscopic Resection + 1 shot intravesical chemotherapy	4 (4)	-
Radical Ablative Surgery	132 (110)	4 (3)
Organ Conserving Surgery	7 (5)	-
Cystoscopy	3	-
Biopsy	10	2 (1)
Other Surgery	5 (1)	-
Radiation Therapy	1	5(2)
Systemic Chemotherapy	6	7 (4)
Referred to another centre / specialist	5 (1)	1
Immunotherapy	2 (1)	-
Palliative care	-	13 (10)
Surveillance / Active Monitoring	4	-
Watchful Waiting	4 (1)	-

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	27 (9)	172 (110)	180 (115)	37 (20)	46 (28)	109 (69)	176 (95)
Endoscopic Resection + 1 shot intravesical chemotherapy	14 (2)	269 (208)	399 (339)	62 (39)	41 (27)	149 (107)	151 (80)
Radical Ablative Surgery	8 (4)	31 (26)	15 (12)	4 (2)	3 (2)	10 (4)	21 (11)
Organ Conserving Surgery	-	1	2 (2)	-	-	1	-
Biopsy / ultrasound guided biopsy	3	10	9 (2)	1	2	6	8
Cystoscopy	6	90 (1)	78 (2)	12	1	47 (2)	37
Other Surgery	1	1 (1)	2 (1)	-	1 (1)	-	2
Radiation Therapy	1	-	1 (1)	2	-	4 (1)	12 (1)
Intra-vesical Chemotherapy (course)	3 (1)	13	21 (1)	8	4 (1)	16 (1)	19
Intra-vesical Immunotherapy (course)	29 (6)	3	5	14 (1)	2	22 (3)	68 (3)
Surveillance / active monitoring	1 (1)	48 (2)	44	4	4 (2)	18 (1)	14
Referral	3 (1)	1	-	-	-	-	4
Other Treatment	1 (1)	1	3	-	-	-	-
Total Tumours Reported in each category	33	512	631	113	88	283	354

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 (2)	12 (6)	83	1 (1)	3 (1)	34	-	4 (1)	33
Endoscopic Resection + 1 shot intravesical chemotherapy	1 (1)	6 (4)	21	-	2 (1)	5	-	1	1
Radical Ablative Surgery	-	6 (3)	56 (17)	-	5	28 (15)	-	1 (1)	19 (4)
Organ Conserving Surgery	-	-	-	-	2 (2)	-	-	-	-
Cystoscopy	-	3	12	-	-	4	-	-	3
Other Surgery	1	-	-	-	-	2	-	-	1
Radiation Therapy	-	2	20 (4)	-	1	14 (2)	-	1	9 (2)
Systemic Chemotherapy	1	1	37(1)	-	1	13 (3)	-	2	23 (3)
Intra-vesical Chemotherapy (course)	-	-	2	-	-	1	-	-	2
Palliative Care	-	-	2	-	-	3 (1)	-	1	5 (1)
Intra-vesical Immunotherapy (course)	-	1	3	-	-	-	-	-	-
Referral	-	3	14	-	-	9 (1)	-	-	7
Total Tumours Reported in each category	4	23	147	2	9	74	0	5	51

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)	23	153	-	11	82	1	4	39
Endoscopic Resection + 1 shot intravesical chemotherapy	-	3 (2)	27	1 (1)	1	5	-	2 (2)	5
Radical Ablative Surgery	1 (1)	7 (2)	39	-	5 (2)	17	-	1 (1)	4
Organ Conserving Surgery	-	-	1 (1)	1 (1)	-	1(1)	-	-	-
Cystoscopy	-	-	24 (1)	-	-	7	-	1	7
Other Surgery	-	-	2	-	-	2 (1)	-	-	1
Radiation Therapy	3 (1)	5 (1)	60 (13)	-	2	39 (14)	-	-	18 (2)
Systemic Chemotherapy	-	2	13	-	-	10	-	1	8
Hormone Therapy	-	-	-	-	-	2 (1)	-	-	-
Immunotherapy	-	-	-	-	-	-	-	-	1 (1)
Referral	1	1	23	-	1	5	-	1	4
Palliative Care	-	-	9	1	3	14	1	1	14
Total Tumours Reported in each category	6	32	244	3	17	123	1	8	60

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	168 (74)	208 (38)
Endoscopic Resection + 1 shot intravesical chemotherapy	11 (6)	1
Radical Ablative Surgery	1298 (1046)	39 (23)
Organ Conserving Surgery	56 (43)	18 (2)
Brachytherapy	194 (87)	46(2)
Biopsy / Ultrasound guided biopsy	526 (33)	497 (15)
Other Surgery	11 (3)	3
Radiation Therapy	1476 (260)	256 (32)
Systemic Chemotherapy / Intravesical Chemotherapy (course)	14 (4)	19 (4)
Hormone Therapy	1868 (579)	3378 (2709)
Intravesical Immunotherapy / Intravesical Immunotherapy (course)	1	1 (1)
Watchful waiting	44 (9)	514 (409)
Surveillance / Active monitoring	147 (68)	1222 (938)
Referral to another centre / specialist	509 (134)	161 (10)
Other Treatment	39 (14)	15 (5)

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	32 (14)	32 (13)	16 (6)	13 (4)	20 (4)	20 (3)
Radical Ablative Surgery	265 (214)	629 (483)	190 (148)	56 (42)	32 (21)	6 (2)
Biopsy /Ultrasound guided biopsy	103 (15)	366 (66)	120 (19)	59 (7)	110(13)	84 (6)
Brachytherapy	30 (20)	115 (59)	26 (11)	8 (2)	8 (1)	5
Other Surgery	2 (1)	-		-	1	-
Radiation Therapy	102 (27)	407 (80)	168 (21)	141 (14)	236 (20)	69 (3)
Chemotherapy (systemic or intra-vesical course)	1	3 (1)	2	2 (1)	5 (1)	8 (1)
Hormone Therapy	130 (52)	473 (149)	255 (97)	203 (69)	472 (202)	576 (407)
Watchful waiting	72 (63)	113 (88)	23 (17)	11 (6)	18 (10)	6 (2)
Surveillance / Active monitoring	166 (111)	326 (195)	87 (54)	20 (11)	21 (12)	9
Referral to another centre / specialist	48 (14)	214 (56)	86 (23)	45 (9)	59 (10)	42 (4)
Other Treatment	4 (3)	12 (2)	-	1	3 (1)	6 (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	28 (9)	30 (10)	23 (5)	24 (6)	45 (9)	39 (7)
Radical Ablative Surgery	8 (7)	42 (29)	15 (9)	5 (4)	4 (2)	8 (3)
Biopsy /Ultrasound guided biopsy	17 (4)	152 (25)	136 (22)	103 (10)	191 (23)	180 (19)
Brachytherapy	2 (1)	14 (8)	5 (3)	3	8	18
Other Surgery	-	-	-	-	1	1
Radiation Therapy	31 (9)	215 (48)	156 (28)	121 (14)	132 (15)	52 (4)
Chemotherapy (systemic or intra-vesical course)	-	4 (1)	1	1	4	4
Hormone Therapy	68 (40)	387 (203)	393 (230)	365 (210)	978 (697)	1412 (1155)
Watchful waiting	49 (41)	158 (135)	91 (74)	57 (49)	69 (53)	30 (10)
Surveillance / Active monitoring	76 (61)	285 (199)	175 (124)	93 (58)	115 (74)	29 (12)
Referral to another centre / specialist	8 (2)	57 (16)	54 (16)	27 (5)	54 (10)	33 (4)
Other Treatment	3	7 (2)	3 (2)	2 (4)	4 (2)	4 (1)

Chart 89

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

Treatment	Curative	Palliative
Radical Ablative Surgery	495 (266)	2 (1)
Organ Conserving Surgery	4 (2)	-
Other Surgery	6 (3)	1 (1)
Radiation Therapy	35 (11)	-
Systemic Chemotherapy	141 (35)	3 (2)
Intravesical Chemotherapy (course)	3 (1)	-
Hormone Therapy	2 (1)	-
Surveillance/active monitoring	14	-
Referral to another centre/specialist	116	-
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	39 (31)	3 (1)
Organ Conserving Surgery	75 (64)	2
Biopsy / US guided biopsy	3 (2)	2
Other Surgery	6 (2)	1
Radiation Therapy	7 (3)	-
Systemic Chemotherapy	3	1 (1)
Referral to another centre/specialist	27 (14)	1
Other Treatment	3 (2)	-

Chart 91

Laparoscopic Procedures Performed

Number of tumours recorded as being operated on laparoscopically = 873

Organ	Procedure and Number Reported	Organ	Procedure and Number Reported
Prostate 424 total	273 Radical prostatectomies 151 Procedure not recorded	Kidney 376 total	197 Nephrectomy 31 Nephroureterectomy 16 Partial Nephrectomy 4 Converted procedure 1 Cryosurgery 127 Procedure not recorded
Bladder 11 total	2 Cystoprostatectomy 1 Cystectomy 8 Procedure not recorded	Pelvis/Ureter 58 total	33 Nephroureterectomy 4 Nephrectomy 1 Conversion to open 20 Procedure not recorded

Chart 92

Laparoscopic Surgery by Organ and Stage

Number of tumours recorded as being operated on laparoscopically = 873

Staging	Prostate N	Bladder N	Kidney N	Pelvis/Ureter N
Stage 0a	N/A	-	N/A	10
Stage I	-	1	166	11
Stage II	325	-	37	4
Stage III	38	2	48	7
Stage IV	1	1	10	1
Not Recorded	60	7	115	25
Totals	424	11	376	58

F. Tertiary Referrals

Chart 93

Tertiary Referrals - Overall Data by Organ
7.3% (1843/25401) of all tumours were tertiary referrals
(referred by a Urologist (1772) or Oncologist (71))

Organ	Number Recorded	Mean Age at Diagnosis & Range	Males	Females	* % of Total Registrations	** % of Total Registrations In 2005	** % of Total Registrations in 2004
Prostate	977	67.3; 36 – 104	977		6.9	6.8	6.1
Bladder	358	69.9; 24 – 105	287	71	5.3	4.4	3.3
Kidney	250	64.3; 22 - 89	159	91	10.1	13.3	12.2
Testis	31	37.6; 21 - 621	31		3.6	4.3	3.7
Pelvis/Ureter	52	69.3; 36 – 87	39	13	15.0	11.4	11.0
Penis	89	61.9; 24 – 84	89		32.1	27.3	20.4
Urethra	1	58		1	3.6	4.0	10.3
Prostatic Urethra	3	69.3; 65 – 74	3		25.0	7.7	6.7
Other	10	59.8; 47 – 77	7	3	2.4	2.6	13.8
Not recorded	72	65.2; 25 - 85	61	11	52.2	23.1	4.3

* % of the total registrations for each tumour site e.g. prostate = $977/14101 = 6.9\%$

** Equivalent figures recorded for diagnoses in 2004 & 2005

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

Clinical trial status continues to be poorly completed with some 40% of the returns not including the information and a further 30% where the clinical trial status was unknown. We note that only 2.0% of patients appeared to be eligible for clinical trials.

However it is pleasing to note that once again the number of new cancers being discussed at an MDT meeting has risen from 74% to 77% (The number being discussed in 2003 was 55%.)

Chart 94

Clinical Trial Status Status was reported in 60% of cases (15219 / 25401)

Trial Status	N	%
Patient eligible, consented to and entered trial	376	1.5
Patient eligible for trial but declined entry	124	0.5
Patient ineligible for trial	1085	4.3
Patient not considered for trial	6208	24.4
Clinical trial status unknown	7426	29.2
Not Recorded	10182	40.1

Chart 95

Delay to Diagnosis

Question completed in 91.5% of cases (23231 / 25401)

Delay	N	%
None	159	0.6
Patient Delay	21116	83.1
Radiology Delay	339	1.3
Repeat Biopsies	100	0.4
Clinical Delay	373	1.5
Administrative Delay	449	1.8
DNA (unspecified reasons)	195	0.8
Other Delay	69	0.3
Not Recorded	403	1.6

Chart 96

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

Response	N	%
Yes	19622	77.2
No	4750	18.7
Not Known or Not Recorded	1029	4.1

H. Completeness of Data

Chart 97

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

Data Item	2006 Number Unknown	% of Total Returns 25401	2005 Number Unknown	% of Total Returns 22309	2004 Number Unknown	% of Total Returns 24532
Centre no or Cons no	0	0	2	0	0	0
Hospital number	***962	3.8	**456	2.0	*760	3.1
NHS number	2068	8.1	2180	9.8	2975	12.1
Postcode	703	2.8	615	2.8	948	3.9
Sex	219	0.9	51	0.2	113	0.5
Date of Birth	193	0.8	445	2.0	244	1.0
Organ	138	0.5	57	0.3	181	0.7
Date of Diagnosis	171	0.7	161	0.7	84	0.3
Referral Source	1828	7.2	1425	6.4	1592	6.5
Priority of GP Referrals	478/16751	2.8	428/15250	2.8	776/17123	4.5
Date of Referral	3212	12.6	2500	11.2	2419	9.9
Date of First Consultation	2559	10.1	1435	6.4	2101	8.6
Date of Definitive Treatment	6870	27.0	6333	28.4	7707	31.4
Delay to Diagnosis	2180	8.6	1525	6.8	2738	11.2
Histological confirmation	1249	4.9	481	2.2	593	2.4
Basis of diagnosis if no Histology	171/2960	5.8	113/2167	5.2	175/1713	10.2

includes private patients, * = 168pp +552 from 2 centres with extraction problems ; ** =78 pp + 311 from 2 centres with extraction problems ; *** = 43 + 837 from 3 centres not returning hospital numbers

Chart 98

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

Data Item	2006 Number Unknown	% of Total Returns 25401	2005 Number Unknown	% of Total Returns 22309	2004 Number Unknown	% of Total Returns 24532
Histology	417/21192	2.0	1392/21828	6.4	787/22226	3.5
Differentiation	5779/21192	27.3	6663/21828	30.5	5230/22226	23.5
Clinical T Category	6211	24.4	3599	16.1	2669	10.9
Clinical N Category	8262	32.5	4678	21.0	4057	16.5
Clinical M Category	8269	32.5	4727	21.2	4453	18.2
Pathological T Category*	2022/8032	25.2	2112/9840	21.5	1503/10343	14.5
Pathological N Category*	6566/8032	88.0	3003/9840	30.5	2411/10343	23.3
Pathological M Category*	6816/8032	88.8	3008/9840	30.6	2448/10343	23.7
PSA at time of Diagnosis	2412/14101	17.1	1798/12809	14.1	2276/14858	15.3
Gleason Scores	2661/14101	18.9	1976/12809	15.4	2102/14858	14.1
Testicular S Category	568/849	66.9	501/738	67.9	436/750	58.1
Treatment Intention	7600	29.9	4577	20.5	4949	20.2
Treatment Type	943/15649	6.0	3425/15823	21.6	703/17559	4.0
Clinical Trial Status	9428	37.1	8344	37.4	10705	43.6
Discussed at MDT	710	2.8	892	4.0	1907	7.8
Pathological Ref. No.	7244	28.5	7386	33.1	6322	25.8

* 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 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 eight consecutive 12 month periods from January 1999 to December 2006. The final 2 columns show those contributing data for the complex operations dataset for the calendar years 2004 - 2006. 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	2004	2005	2006
Aberdeen Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Addenbrooke's Hospital	✓	✓				✓	✓					
Airedale General Hospital	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
Alexandra Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Altnagelvin Area Hospital		✓					✓	✓	✓	✓	✓	✓
Antrim Hospital			✓	✓	✓	✓						
Arrowe Park Hospital		✓	✓	✓	✓	✓	✓	✓	✓			✓
Ashford Hospital		✓		✓	✓							
Ayr Hospital		✓	✓	✓	✓	✓	✓		✓	✓		✓
Balfour Hospital				✓								
Barnet & Chase Farm Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Barnsley DGH		✓	✓	✓								
Basildon Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bassetlaw District General Hospital	✓					✓	✓	✓		✓		
Battle Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Bedford Hospital	✓	✓	✓	✓	✓	✓	✓					✓
Belfast City Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Belford Hospital				✓	✓							
Blackburn Royal Infirmary		✓	✓	✓	✓	✓	✓		✓			
Bolton Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Borders General Hospital				✓	✓	✓						
Bradford Royal Infirmary		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bristol Oncology Centre	✓	✓						✓			✓	
Bromley Hospital		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Bronglais Hospital	✓	✓	✓	✓	✓	✓	✓	✓				
Broomfield Hospital	✓		✓	✓			✓	✓	✓			
Burnley General Hospital			✓	✓	✓	✓			✓			
Calderdale Royal Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Castle Hill Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Central Middlesex Hospital	✓	✓										
Cheltenham General Hospital	✓	✓	✓	✓		✓						
Chesterfield & North Derbyshire	✓	✓	✓	✓	✓		✓	✓	✓		✓	
Christie Hospital		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Churchill Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
City Hospital NHS Trust, B'ham	✓	✓	✓	✓	✓		✓					
Colchester General Hospital	✓	✓	✓	✓	✓	✓	✓		✓			
Conquest Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Hospital	BAUS CANCER REGISTRY - MINIMUM DATASET									COMPLEX OPERATIONS		
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2004	2005	2006
Cookridge Hospital		✓	✓	✓								
County Hospital, Hereford	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cumberland Infirmary	✓	✓	✓	✓								
Darent Valley Hospital		✓	✓	✓	✓	✓	✓	✓	✓			
Derby City General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Derriford Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DGH Southport	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Doncaster Royal Infirmary	✓	✓	✓				✓	✓	✓		✓	
Dorset County Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dr Gray's Hospital				✓	✓	✓						
Dumfries & Galloway Royal Infirmary		✓	✓	✓								
Eastbourne District General Hospital	✓	✓				✓	✓	✓		✓	✓	
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 District General Hospital	✓	✓	✓	✓	✓	✓	✓	✓				
Grimsby, Scunthorpe, Goole Hospitals	✓	✓	✓	✓	✓	✓	✓	✓				
Guy's Hospital		✓	✓	✓	✓		✓	✓		✓		✓
Halton General Hospital								✓				
Hammersmith Hospital	✓	✓										
Harold Wood Hospital		✓	✓	✓								
Harrogate District Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heartlands & Solihull NHS Trust	✓	✓		✓	✓	✓						
Hemel Hempstead General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Hillingdon Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Homerton Hospital						✓	✓	✓	✓			
Hope Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Huddersfield Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Institute of Urology				✓	✓	✓	✓	✓		✓	✓	
Inverclyde Royal Hospital		✓	✓	✓	✓	✓	✓	✓	✓			
James Cook University Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
James Paget Hospital	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Kent and Sussex Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Kettering General Hospital	✓	✓	✓	✓	✓	✓	✓	✓				
Kidderminster Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓			
King George Hospital	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
King's College Hospital	✓	✓	✓	✓	✓	✓	✓	✓				

Hospital	BAUS CANCER REGISTRY - MINIMUM DATASET										COMPLEX OPERATIONS		
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2004	2005	2006	
King's Mill Hospital	✓	✓	✓	✓	✓	✓	✓						
Kingston Hospital		✓	✓	✓	✓		✓	✓					
Leicester General Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	
Leighton Hospital	✓	✓	✓	✓	✓	✓	✓		✓				
Lincoln & Louth NHS Trust	✓	✓	✓		✓	✓			✓				
Lister Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Lorn Island 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						✓	✓	✓	✓	✓			
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	✓	✓	✓	✓	✓	✓	✓			✓			

Hospital	BAUS CANCER REGISTRY - MINIMUM DATASET									COMPLEX OPERATIONS		
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2004	2005	2006
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		✓	✓			✓		✓	✓			
Royal Preston Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Royal Shrewsbury Hospital	✓	✓	✓	✓	✓	✓	✓					
Royal Surrey County Hospital			✓	✓	✓	✓			✓			✓
Royal Sussex County Hospital	✓	✓	✓			✓	✓	✓				
Royal United Hospital	✓	✓	✓	✓	✓	✓	✓					
Salisbury District Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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's University Hospital	✓	✓	✓	✓	✓	✓	✓		✓			
St John's Hospital				✓	✓	✓			✓			
St Mary's Hospital, IOW		✓	✓	✓	✓	✓	✓		✓			✓
St Mary's Hospital, London		✓	✓									
St Mary's Hospital, Portsmouth	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
St Richard's Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
St Vincents Hospital		✓		✓								
Stafford DGH	✓	✓	✓	✓								
Stepping Hill Hospital		✓	✓	✓		✓	✓	✓				
Stirling Royal Infirmary	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stobhill Hospital			✓	✓	✓	✓	✓		✓			
Stracathro Hospital		✓	✓	✓	✓	✓						
Sunderland Royal Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Taunton And Somerset Hospital		✓	✓	✓	✓	✓	✓	✓	✓			
The Countess of Chester Hospital							✓	✓	✓			
The Ipswich Hospital	✓	✓	✓	✓	✓	✓	✓			✓		✓
The Royal Oldham Hospital		✓	✓	✓	✓	✓	✓	✓				
Torbay Hospital		✓	✓	✓	✓	✓		✓	✓		✓	✓

Hospital	BAUS CANCER REGISTRY - MINIMUM DATASET									COMPLEX OPERATIONS		
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2004	2005	2006
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 Suffolk Hospital	✓	✓	✓	✓	✓	✓	✓	✓				
West Wales General Hospital		✓	✓	✓	✓		✓	✓	✓		✓	
Western General Hospital, Edinburgh		✓	✓	✓	✓	✓			✓	✓	✓	
Western Isles Hospital				✓	✓							
Wexham Park Hospital				✓		✓	✓	✓	✓			
Whipps Cross Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Whiston Hospital		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wigan Infirmary					✓	✓						
Wishaw General Hospital					✓	✓						
Worcester Royal Infirmary				✓	✓	✓	✓	✓	✓			
Worthing Hospital	✓	✓	✓	✓	✓		✓	✓	✓			
Wrexham Maelor Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wycombe & Stoke Mandeville General Hospitals	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Yeovil District Hospital		✓	✓	✓	✓	✓	✓	✓	✓			
York District Hospital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ysbyty Gwynedd Hospital	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓