

**THE BRITISH ASSOCIATION OF
UROLOGICAL SURGEONS
Section of Female, Neurological & Urodynamic Urology**

Analyses of procedures performed for Female Stress Urinary Incontinence between

January 1st 2014 and December 31st 2016

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AUDIT RESULTS SUMMARY – Stress Urinary Incontinence dataset

All the data presented here are a summary of the data extracted from the web-based database on 29th March 2017 and relate to operations performed between 1st January 2014 and 31st December 2016. Once extracted the data was transferred to an AccessTM database for validation before being imported into TableauTM for generation of the analyses. The validation mainly comprised checks for duplicate and / or empty entries and invalid / inappropriate dates plus removal of a few procedures (eg bladder neck closure) not deemed appropriate for inclusion in these analyses.

The data collection period was from 1 January 2014 to 31 December 2016.

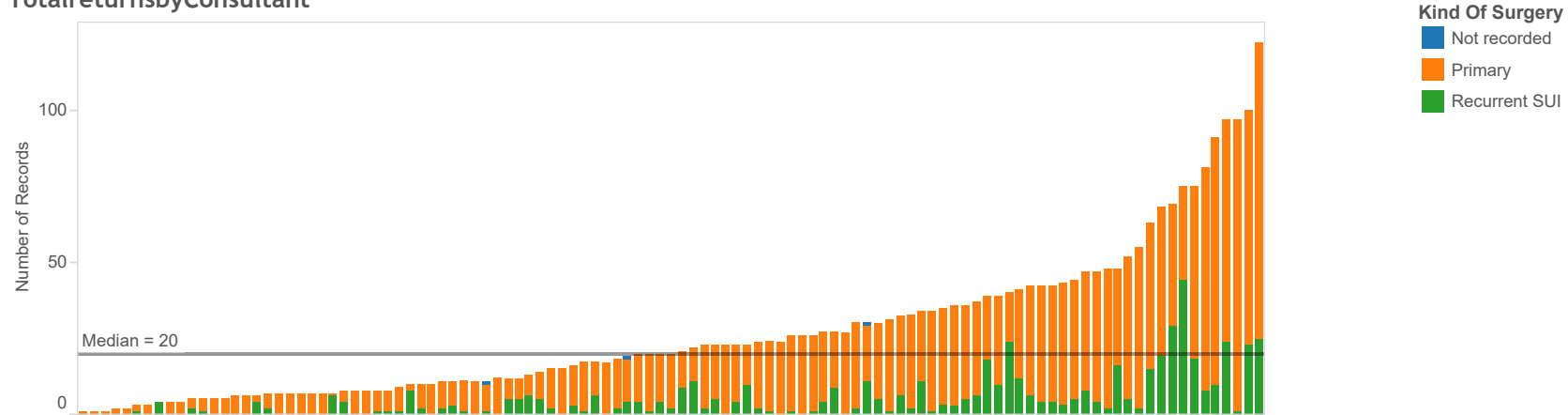
- 2917 procedures were recorded from 109 consultants at 95 centres in the United Kingdom including 250 private patients from 41 consultants. Two of the consultants that returned data are not BAUS members.
- 91% of the operations (2,649) proceeded with no reported complications. There were 107 cases (4%) in which a peri-operative complication was recorded. There were no deaths.
- Of the 1,832 (63%) patients who have follow-up recorded, 1,756 (96%) had a record of whether or not there was a post operative complication. For 1,564 (89%) no post-operative complications occurred.
- **Hospital Episode Statistics (HES)** for 2014, 2015 and 2016 indicate that urologists undertook 3,587 stress urinary incontinence (SUI) procedures in England of which the BAUS audit has captured data on 72%. Gynaecologists performed 20,155 SUI procedures in England during the same period.
- Median number of cases per consultant: 20 (range 1 - 122)
- Median number of cases per centre: 20 (range 1 - 133)

- 81% (2366) of the procedures were performed for primary SUI and 18.8% (548) were for recurrent SUI. All data were entered by hand and there was no bulk uploading of data from other systems.

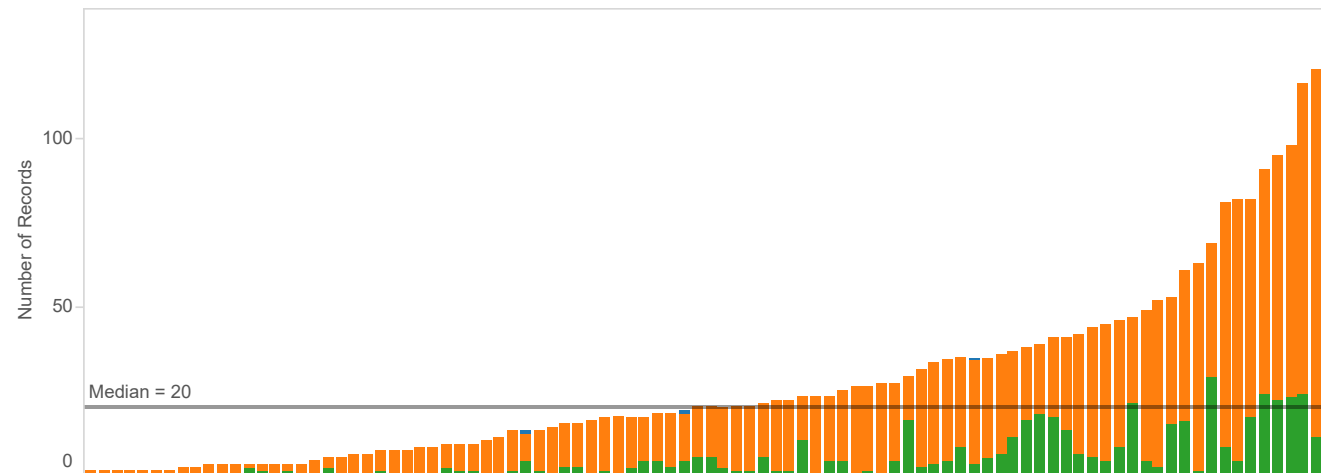
Surgery for Female Stress Urinary Incontinence performed between 01/01/2014 and 31/12/2016

2,917 procedures performed by 109 consultants at 95 sites including 250 private cases from 41 consultants

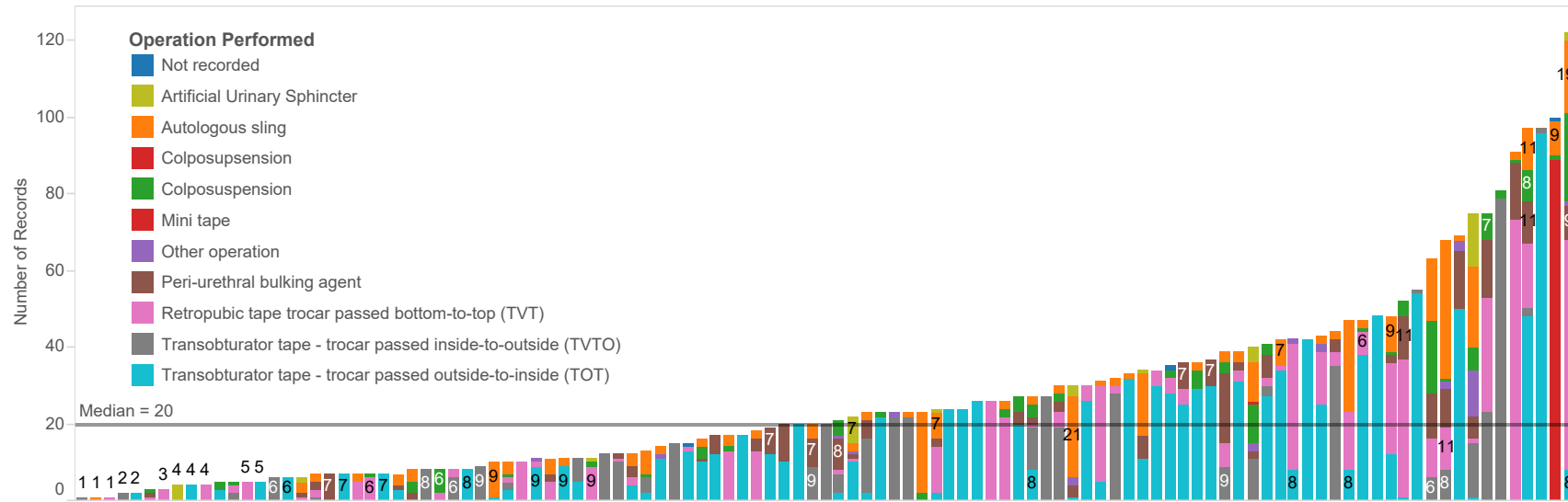
TotalreturnsbyConsultant



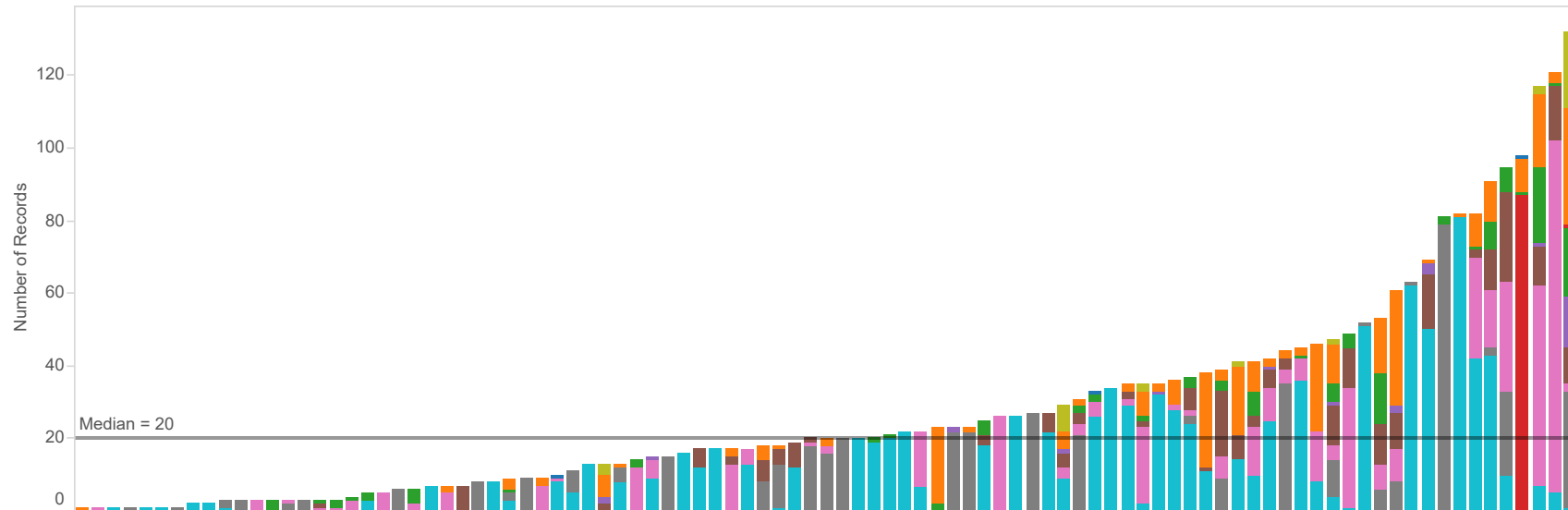
TotalreturnsperCentre



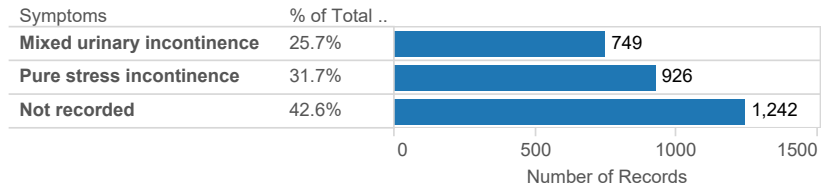
Total returns by Consultant by Procedure



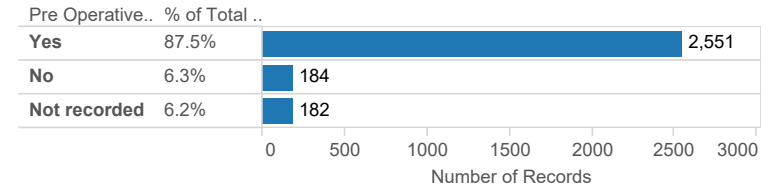
Returns by Centre by Procedure



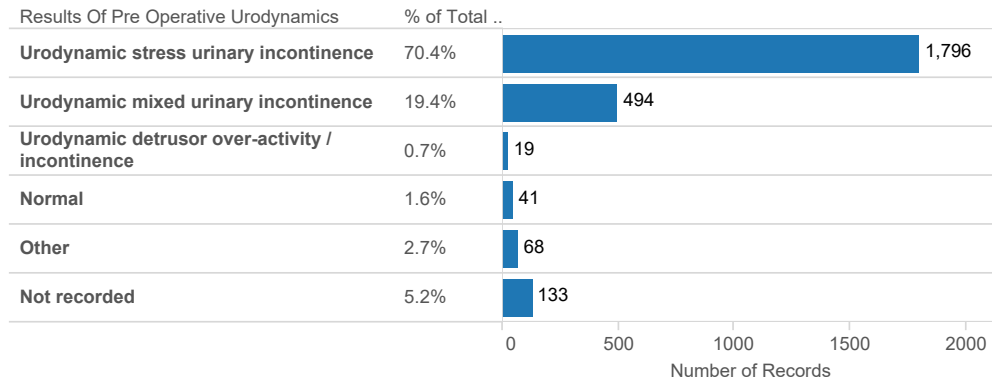
Symptoms



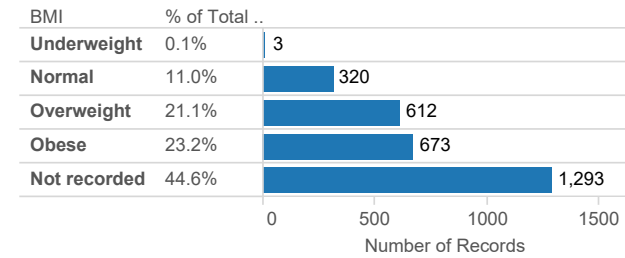
Pre-operative Urodynamics



Pre-operative Urodynamics Results



BMI



Age at Operation

Kind Of Surgery	N	Median		
		Age	Min. Age	Max. Age
Primary	2,353	52	6	92
Recurrent SUI	545	57	19	94
Grand Total	2,898	53	6	94

SurgeryType

Kind Of Surgery	Dateofoperation						Grand Total	
	2014		2015		2016			
	N	% of Total	N	% of Total	N	% of Total	N	% of Total
Primary	870	83.6%	872	80.2%	624	79.1%	2,366	81.1%
Recurrent SUI	168	16.1%	215	19.8%	165	20.9%	548	18.8%
Not recorded	3	0.3%					3	0.1%
Grand Total	1,041	100.0%	1,087	100.0%	789	100.0%	2,917	100.0%

PreviousSurgery

What Kind Of Operation Was Performed Previously	% of Total Number of..	Number of Records
Tape	46.9%	257
Autologous sling	3.5%	19
Colposuspension	14.8%	81
Other	13.9%	76
Peri-urethral bulking agent	18.4%	101
Not recorded	2.6%	14

Operation

Kind Of Surgery

- Recurrent SUI
- Primary

Operation Performed	% of Total Number of Records	Recurrent SUI	Primary
Transobturator tape - trocar passed outside-to-..	15.1%	83	987
Retropubic tape trocar passed bottom-to-top (T..	9.1%	50	496
Transobturator tape - trocar passed inside-to-..	6.9%	38	415
Autologous sling	6.3%	149	164
Peri-urethral bulking agent	6.0%	143	93
Colposuspension	3.6%	84	51
Mini tape	2.6%	14	75
Other operation	0.3%	7	23
Not recorded	0.1%	3	
Artificial Urinary Sphincter	0.3%	7	31
Colposuspension	0.2%	1	

OtherOperation

Other Operation	N	% of Total
Autologous transobturator sling	2	6.7%
Cystoscopy	1	3.3%
TVT excision	6	20.0%
Urethrolisis	1	3.3%
Not recorded / Other	20	66.7%
Grand Total	30	100.0%

Peri-operative complications by surgery

Peri Operative Complications	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	N	% of Total	N	% of Total	N	% of Total
None	2,174	91.9%	473	86.3%	2,647	90.8%
Bladder perforation	20	0.8%	15	2.7%	35	1.2%
Procedure abandoned	3	0.1%	2	0.4%	5	0.2%
Urethral perforation	2	0.1%	3	0.5%	5	0.2%
Other	45	1.9%	16	2.9%	61	2.1%
Not recorded	121	5.1%	39	7.1%	160	5.5%
Urethral perforation,Procedu..	1	0.0%			1	0.0%
Grand Total	2,366	100.0%	548	100.0%	2,914	100.0%

Unintended CISC started

Did The Patient Start Unintended Cisc	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	N	% of Total	N	% of Total	N	% of Total
Yes	46	1.9%	17	3.1%	63	2.2%
No	879	37.2%	207	37.8%	1,086	37.3%
Not recorded	1,441	60.9%	324	59.1%	1,765	60.6%
Grand Total	2,366	100.0%	548	100.0%	2,914	100.0%

Length of Stay

Kind Of Surgery	N	Median LengthofStay	Min. LengthofStay	Max. LengthofStay
Primary	1,887	1	0	60
Recurrent SUI	436	1	0	42
Grand Total	2,323	1	0	60

Patients with Follow up

Fuid (group) 1	N	% of Total
Follow Up	1,832	62.8%
No Follow-Up	1,085	37.2%
Grand Total	2,917	100.0%

Clavien Dindo Grade of Complications

Clavien Dindo Grade Of Complication	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	N	% of Total	N	% of Total	N	% of Total
No complications	1,302	87.6%	260	75.8%	1,562	85.4%
Grade I	83	5.6%	43	12.5%	126	6.9%
Grade II	26	1.7%	18	5.2%	44	2.4%
Grade IIIa	4	0.3%	2	0.6%	6	0.3%
Grade IIIb	11	0.7%	4	1.2%	15	0.8%
Grade IVa			1	0.3%	1	0.1%
Not recorded	61	4.1%	15	4.4%	76	4.2%
Grand Total	1,487	100.0%	343	100.0%	1,830	100.0%

Patient reported Urinary tract infection

Patient Reported Complications ..	N	% of Total
Yes	130	7.1%
No	1,613	88.0%
Not recorded	89	4.9%
Grand Total	1,832	100.0%

Persistent Pain after Surgery

Persistent Pain After Surgery	N	% of Total
Yes	25	1.8%
No	895	64.2%
Not recorded	473	34.0%
Grand Total	1,393	100.0%

Patient catheter dependent since surgery

Is The Patient Catheter Dependent	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	N	% of Total	N	% of Total	N	% of Total
Yes	44	3.0%	27	7.9%	71	3.9%
No	659	44.3%	148	43.1%	807	44.1%
Not recorded	784	52.7%	168	49.0%	952	52.0%
Grand Total	1,487	100.0%	343	100.0%	1,830	100.0%

Bladder Urgency -new symptoms

Over Active Bladder Symptoms New De Novo Urgency	N	% of Total
Yes	263	14.4%
No	1,464	79.9%
Not recorded	105	5.7%
Grand Total	1,832	100.0%

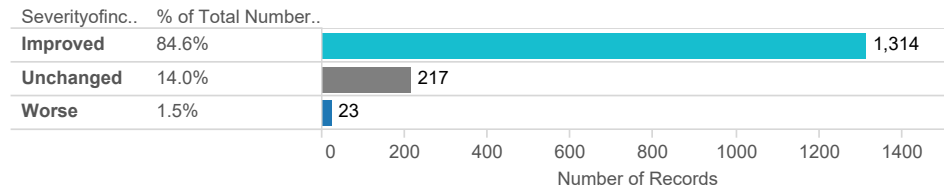
Bladder Urgency - existing symptoms

Over Active Bladder Symptoms Pre Existing Urgency Change	N	% of Total
Better	307	16.8%
No change	662	36.1%
Worse	100	5.5%
Not recorded	763	41.6%
Grand Total	1,832	100.0%

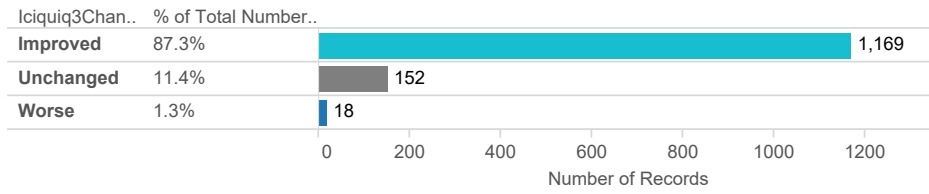
Tape extrusion

Tape Extrusion	Location Of Extrusion	N	% of Total
Yes	Vaginal	12	0.9%
	Not recorded/applicable	1	0.1%
	Total	13	1.0%
No	Not recorded/applicable	1,318	99.0%
	Total	1,318	99.0%
Grand Total		1,331	100.0%

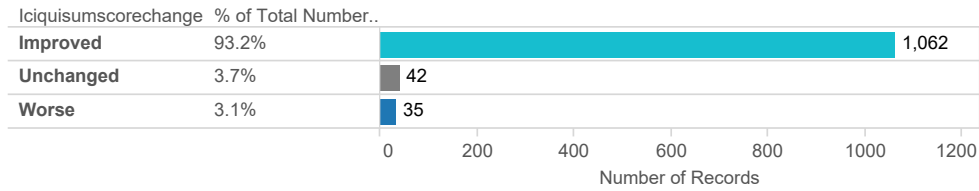
Severity of Incontinence change



ICIQ-UIQ3 change



ICIQ-UI Sum score change



Participating Hospital Centres 2014, 2015 and 2016

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

Addenbrooke's Hospital, Cambridge
Airedale Hospital
Alexandra Hospital, Redditch
Barking, Havering And Redbridge University Hospital
Bedford Hospital
Belfast City Hospital
Blackpool Victoria Hospital
Borders General Hospital, Melrose
Bradford Royal Infirmary
Burnley General Hospital
Castle Hill Hospital, Hull
Charing Cross Hospital, London
Chase Farm Hospital
Chorley and South Ribble Hospital
City Hospital Birmingham
Diana, Princess of Wales Hospital, Grimsby
Doncaster Royal Infirmary
Eastbourne District General Hospital
Epsom General Hospital, Surrey
Forth Valley Royal Hospital, Larbert
Freeman Hospital, Newcastle
Frimley Park Hospital
Gartnavel General Hospital, Glasgow
George Eliot Hospital, Nuneaton

Goole & District Hospital
Guy's & Thomas's Hospital
Harrogate District Hospital
Huddersfield Royal Infirmary
Ipswich Hospital, Suffolk
James Paget University Hospital, Great Yarmouth
King's Mill Hospital, Nottinghamshire
Kingston Hospital, London
Leicester General Hospital
Leighton Hospital, Cheshire
Lister Hospital, Stevenage
Manchester Royal Infirmary
Medway Maritime Hospital, Gillingham
Musgrove Park Hospital, Taunton
Norfolk And Norwich University Hospital
North Manchester General Hospital
Northern General Hospital, Sheffield
Northwick Park Hospital
Nottingham City Hospital
Peterborough City Hospital
Pilgrim Hospital, Boston
Pinderfields General Hospital, Wakefield
Princess Alexandra Hospital, Harlow
Princess of Wales Hospital, Bridgend

Queen Alexandra Hospital, Portsmouth
Queen Elizabeth Hospital, Birmingham
Queen Elizabeth University Hospital
Queen's Hospital, Burton-on-Trent
Rotherham Hospital
Royal Blackburn Hospital
Royal Albert Edward Infirmary, Wigan
Royal Berkshire Hospital, Reading
Royal Bolton Hospital
Royal Devon and Exeter Hospital
Royal Free Hospital, London
Royal Hallamshire Hospital, Sheffield
Royal National Orthopaedic Hospital, Stanmore
Royal Sussex County Hospital, Brighton
Salford Royal Hospital
Salisbury District Hospital
Sandwell District General Hospital, West Bromwich
Scunthorpe General Hospital
Southend Hospital
Southmead Hospital, Bristol
Southport And Ormskirk Hospitals
St James's University Hospital, Leeds
St Richard's Hospital, Chichester
Stepping Hill Hospital, Stockport
Sunderland Royal Hospital
The James Cook University Hospital, Middlesbrough
The Queen Elizabeth Hospital, King's Lynn
The Royal Oldham Hospital
University College Hospital, London
University Hospital of Wales, Cardiff

University Hospital, Ayr
Walsgrave Hospital, Coventry
Watford General Hospital
Western General Hospital, Edinburgh
Weston General Hospital, Weston-super-Mare
Wexham Park Hospital, Slough
Whipps Cross University Hospital, London
Whiston Hospital, Prescot
Withington Community Hospital, Manchester
Worthing Hospital
Wrexham Maelor Hospital
York Hospital