

**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 2015

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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 5th April 2016 and relate to operations performed between 1st January 2014 and 31st December 2015. 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 2015.

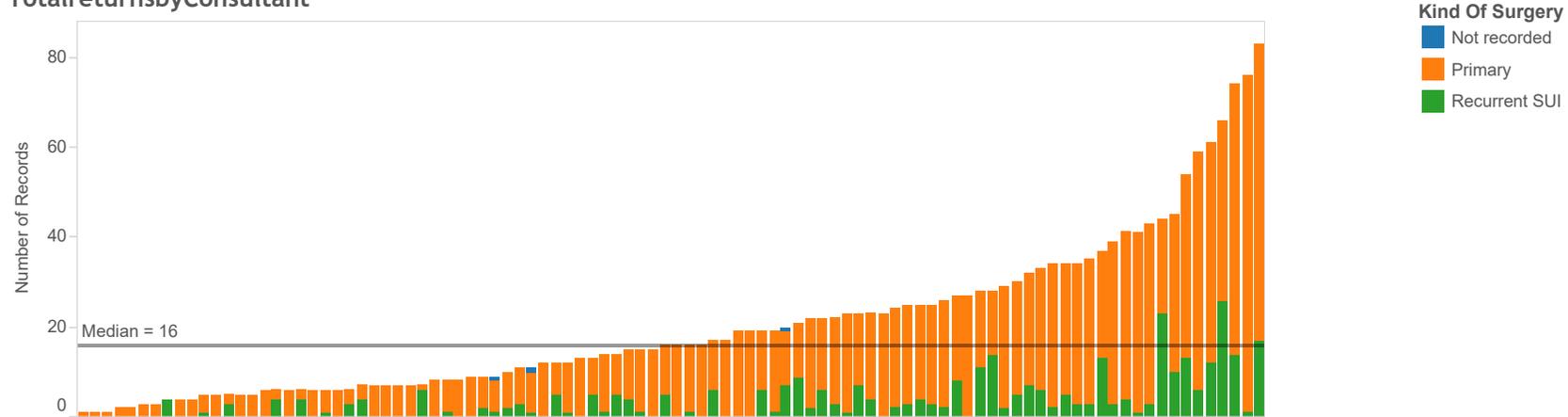
- 1990 procedures were recorded from 98 consultants at 82 centres in the United Kingdom including 184 private patients from 37 consultants. Two of the consultants returning data are not BAUS members.
- 96% of the operations (1,793) proceeded with no reported complications. There were 72 cases (4%) in which a peri-operative complication was recorded. There were no deaths.
- Of the 1,159 (58%) patients who have follow-up recorded, 1,110 (96%) had a record of whether or not there was a post operative complication. For 998 (90%) no post-operative complications occurred.
- **Hospital Episode Statistics (HES)** for 2014 and 2015 indicate that urologists undertook 2,681 stress urinary incontinence (SUI) procedures in England of which the BAUS audit has captured data on 69%. Gynaecologists performed 14,476 SUI procedures in England during the same period.
- Median number of cases per consultant: 16 (range 1 - 83)
- Median number of cases per centre: 15 (range 1 - 88)

- 83% (1644) of the procedures were performed for primary SUI and 17% (346) were for recurrent SUI. All data were entered by hand and there was no bulk uploading of data from other systems.

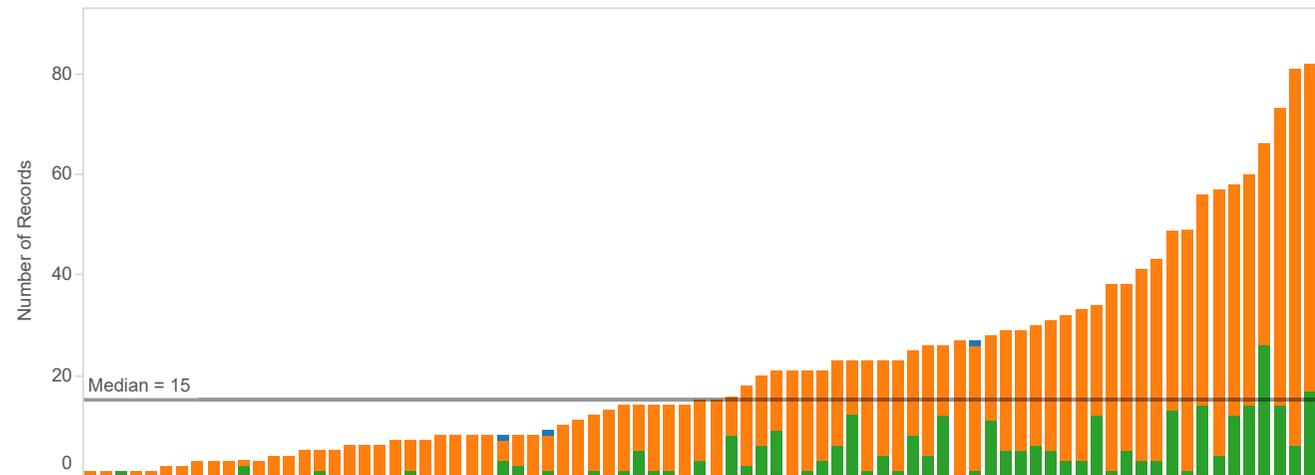
Surgery for Female Stress Urinary Incontinence performed between 01/01/2014 and 31/12/2015

1,990 procedures performed by 98 consultants at 82 sites including 184 private cases from 37 consultants

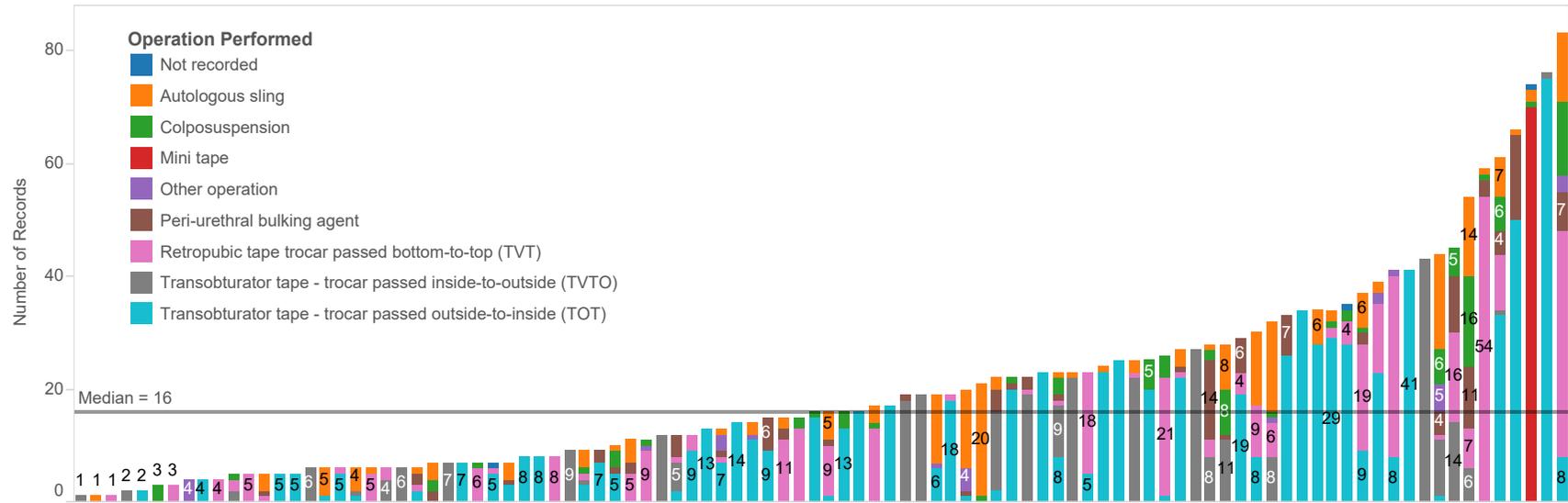
Total returns by Consultant



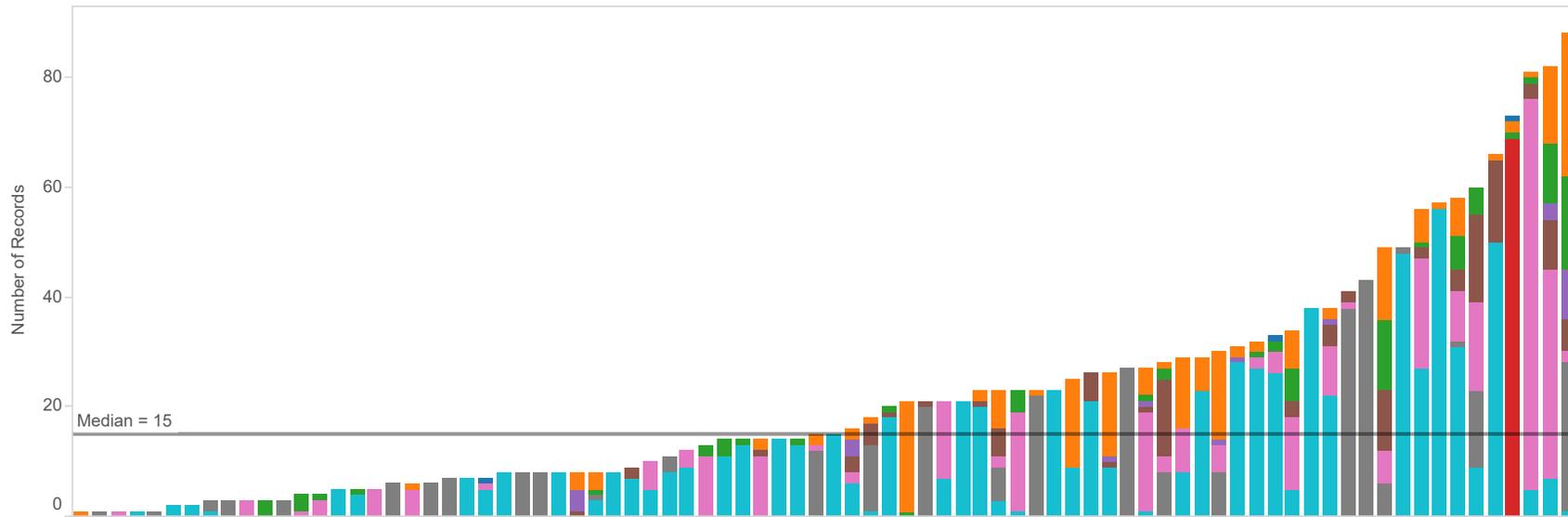
Total returns per Centre



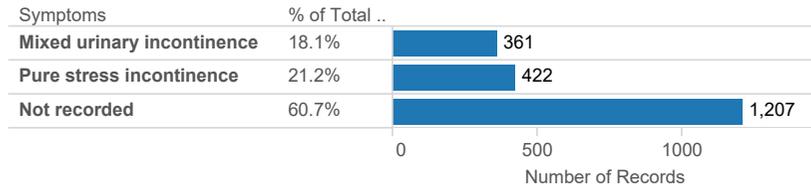
Total returns by Consultant by Procedure



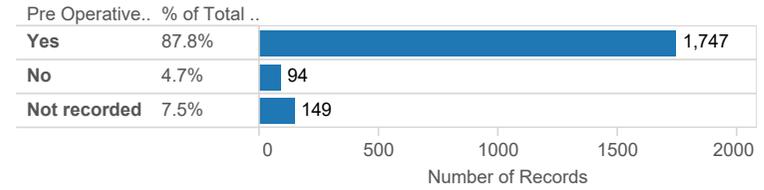
Returns by Centre by Procedure



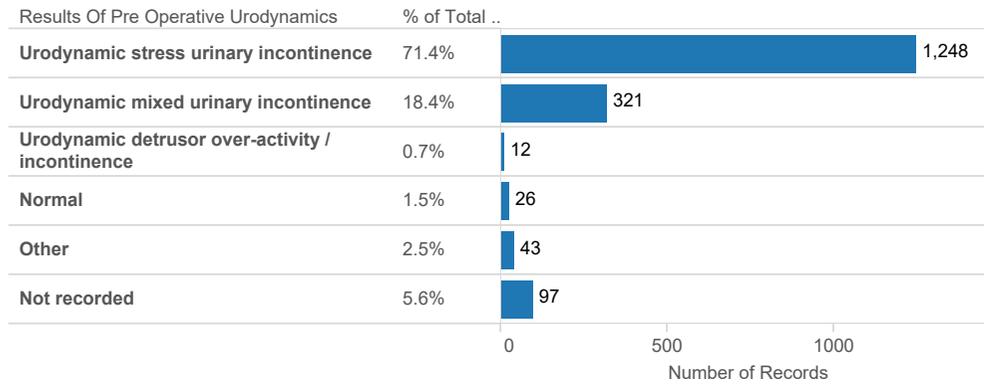
Symptoms



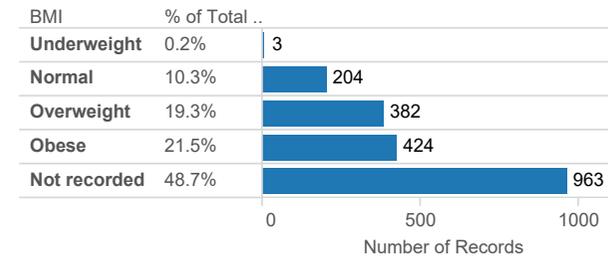
Pre-operative Urodynamics



Pre-operative Urodynamics Results



BMI



Age at Operation

Kind Of Surgery	N	Median		
		Age	Min. Age	Max. Age
Primary	1,629	52	6	92
Recurrent SUI	344	56	21	94
Grand Total	1,973	52	6	94

NeuropathicBladder

Neuropathic bladder	N	% of Total
Yes	22	1.1%
No	1,968	98.9%
Grand Total	1,990	100.0%

SurgeryType

Kind Of Surgery	Dateofoperation					
	2014		2015		Grand Total	
	N	% of Total	N	% of Total	N	% of Total
Primary	855	84.3%	786	80.5%	1,641	82.5%
Recurrent SUI	156	15.4%	190	19.5%	346	17.4%
Not recorded	3	0.3%			3	0.2%
Grand Total	1,014	100.0%	976	100.0%	1,990	100.0%

PreviousSurgery

What Kind Of Operation Was Performed Previously	% of Total Number of..	Number of Records
Tape	48.0%	166
Autologous sling	4.0%	14
Colposuspension	15.6%	54
Other	14.2%	49
Peri-urethral bulking agent	15.6%	54
Not recorded	2.6%	9

Operation

Kind Of Surgery

- Recurrent SUI
- Primary

Operation Performed	% of Total Number of Records	Number of Records
Transobturator tape - trocar passed outside-to-inside (TOT)	19.9%	69
Retropubic tape trocar passed bottom-to-top (TVT)	9.5%	33
Transobturator tape - trocar passed inside-to-outside (TVTO)	5.2%	18
Autologous sling	6.0%	98
Peri-urethral bulking agent	4.0%	66
Colposuspension	3.7%	61
Mini tape	3.2%	11
Other operation	0.4%	6
Not recorded	0.2%	3

OtherOperation

Other Operation	N	% of Total
Artificial Urinary Sphincter	13	50.0%
Autologous transobturator sling	1	3.8%
Not recorded	12	46.2%
Grand Total	26	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	1,488	90.7%	303	87.6%	1,791	90.1%
Bladder perforation	15	0.9%	7	2.0%	22	1.1%
Procedure abandoned	2	0.1%			2	0.1%
Urethral perforation	1	0.1%	3	0.9%	4	0.2%
Other	32	2.0%	12	3.5%	44	2.2%
Not recorded	103	6.3%	21	6.1%	124	6.2%
Grand Total	1,641	100.0%	346	100.0%	1,987	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	2.8%	16	4.6%	62	3.1%
No	853	52.0%	191	55.2%	1,044	52.5%
Not recorded	742	45.2%	139	40.2%	881	44.3%
Grand Total	1,641	100.0%	346	100.0%	1,987	100.0%

Length of Stay

Kind Of Surgery	N	Median LengthofStay	Min. LengthofStay	Max. LengthofStay
Primary	1,216	1	0	60
Recurrent SUI	273	1	0	42
Grand Total	1,489	1	0	60

Patients with Follow up

Fuid (group)	N	% of Total
Follow up	1,159	58.2%
No Follow-Up	831	41.8%
Grand Total	1,990	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	847	88.2%	151	76.6%	998	86.3%
Grade I	48	5.0%	16	8.1%	64	5.5%
Grade II	18	1.9%	14	7.1%	32	2.8%
Grade IIIa	2	0.2%	2	1.0%	4	0.3%
Grade IIIb	8	0.8%	1	0.5%	9	0.8%
Grade IVa			1	0.5%	1	0.1%
Not recorded	37	3.9%	12	6.1%	49	4.2%
Grand Total	960	100.0%	197	100.0%	1,157	100.0%

Patient reported Urinary tract infection

Patient Reported Complications ..	N	% of Total
Yes	78	6.7%
No	1,048	90.4%
Not recorded	33	2.8%
Grand Total	1,159	100.0%

Persistent Pain after Surgery

Persistent Pain After Surgery	N	% of Total
Yes	9	1.0%
No	432	47.8%
Not recorded	463	51.2%
Grand Total	904	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	7	0.7%	7	3.6%	14	1.2%
No	154	16.0%	24	12.2%	178	15.4%
Not recorded	799	83.2%	166	84.3%	965	83.4%
Grand Total	960	100.0%	197	100.0%	1,157	100.0%

Bladder Urgency -new symptoms

Over Active Bladder Symptoms New De Novo Urgency	N	% of Total
Yes	158	13.6%
No	953	82.2%
Not recorded	48	4.1%
Grand Total	1,159	100.0%

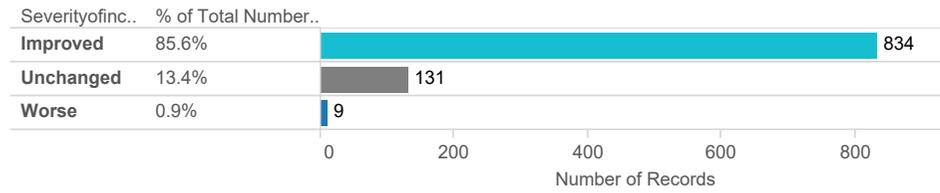
Bladder Urgency - existing symptoms

Over Active Bladder Symptoms Pre Existing Urgency Change	N	% of Total
Better	186	16.0%
No change	398	34.3%
Worse	86	7.4%
Not recorded	489	42.2%
Grand Total	1,159	100.0%

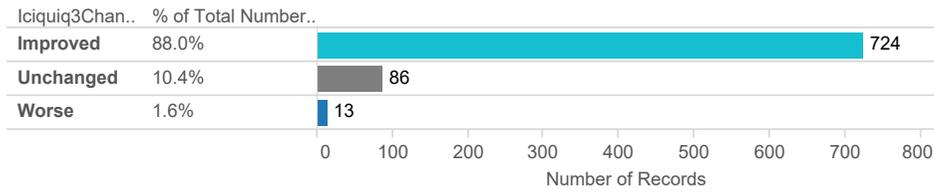
Tape extrusion

Tape Extrusion	Location Of Extrusion	N	% of Total
Yes	Vaginal	9	1.0%
	Not recorded/applicable	1	0.1%
	Total	10	1.1%
No	Not recorded/applicable	865	98.9%
	Total	865	98.9%
Grand Total		875	100.0%

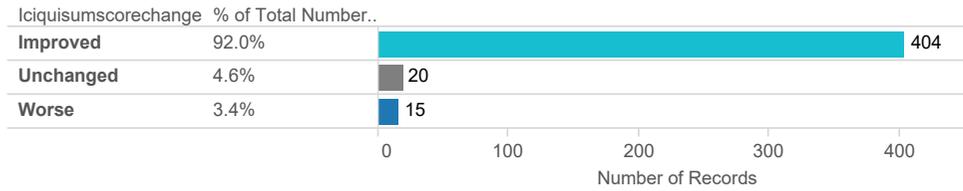
Severity of Incontinence change



ICIQ-UIQ3 change



ICIQ-UI Sum score change



Participating Hospital Centres 2014 and 2015

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

Addenbrooke's Hospital
Airedale Hospital
Barking, Havering & 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
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
Goole & District Hospital
Guy's & Thomas's Hospital
Harrogate District Hospital
Huddersfield Royal Infirmary
Ipswich Hospital, Suffolk
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
Northern General Hospital, Sheffield
Northwick Park Hospital
Nottingham City Hospital
Peterborough City Hospital
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, Glasgow
Queen's Hospital, Burton-on-Trent
Rotherham 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 Preston Hospital
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
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 Royal Oldham Hospital
University College Hospital, London
University Hospital of Wales, Cardiff
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