

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

Analyses of procedures performed for Female Stress Urinary Incontinence between

January 1st 2017 and December 31st 2019

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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 31st March 2020 and relate to operations performed between 1st January 2017 and 31st December 2019. Once extracted the data was transferred to an Access™ database for validation before being imported into Tableau™ for generation of the analyses. The validation mainly comprised checks for duplicate and / or empty entries and invalid / inappropriate dates.

The data collection period was from 1 January 2017 to 31 December 2019.

- 1884 SUI procedures were recorded from 95 Consultants at 87 centres in the United Kingdom (1737 procedures for England only), including 81 private patients from 26 Consultants.
- Median number of cases per consultant: 12 (range 1 - 92)
- Median number of cases per centre: 12 (range 1 - 108)
- 96% of the operations (1,656 of 1,726) proceeded with no reported complications. There were 70 cases (4%) in which a **peri-operative** complication was recorded.
- Of the 1,136 (60%) patients with follow-up recorded, 1,131 (99.6%) had a record of whether or not there was a **post-operative** complication. For 1033 (91%) patients, no post-operative complications occurred.
- There were no deaths during the study period.
- 78% (1659) of the procedures were performed for primary SUI and 22% (474) for recurrent SUI. All data were entered by hand, and there was no bulk uploading of data from other systems.

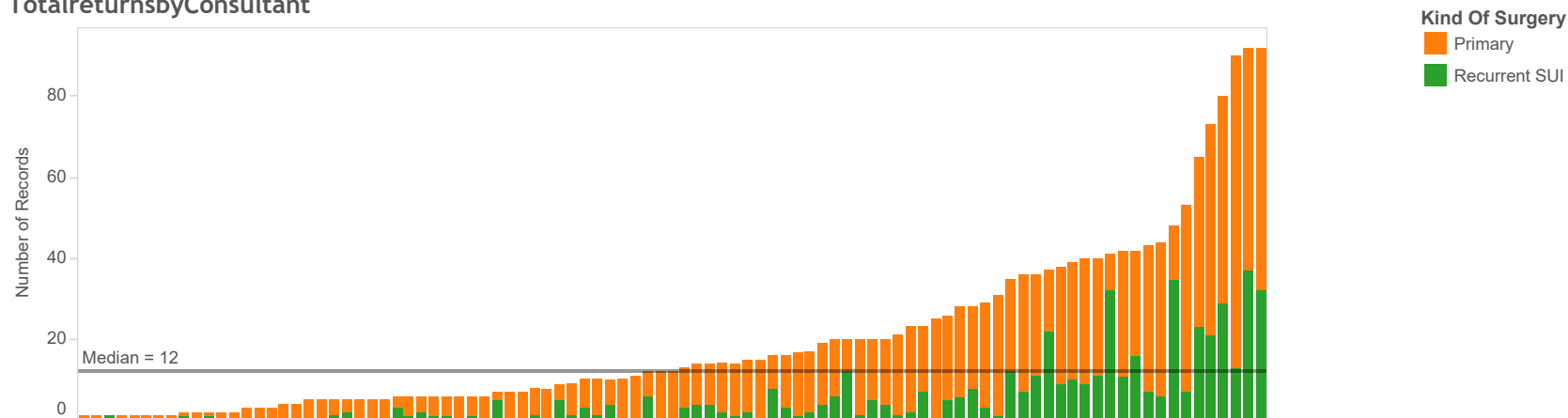
HES figures for 2017 to 2018 (inclusive) indicate that urologists undertook 1,714 stress urinary incontinence (SUI) procedures in England (993 in 2017 and 721 in 2018). We do not have the HES figures for 2019 but assume they will be similar or less than 2018. The BAUS audit has, therefore, probably captured around 72% of these.

It is important to note that as a result of the COVID-19 crisis some surgeons and units may have been unable to submit all or any of their 2019 data.

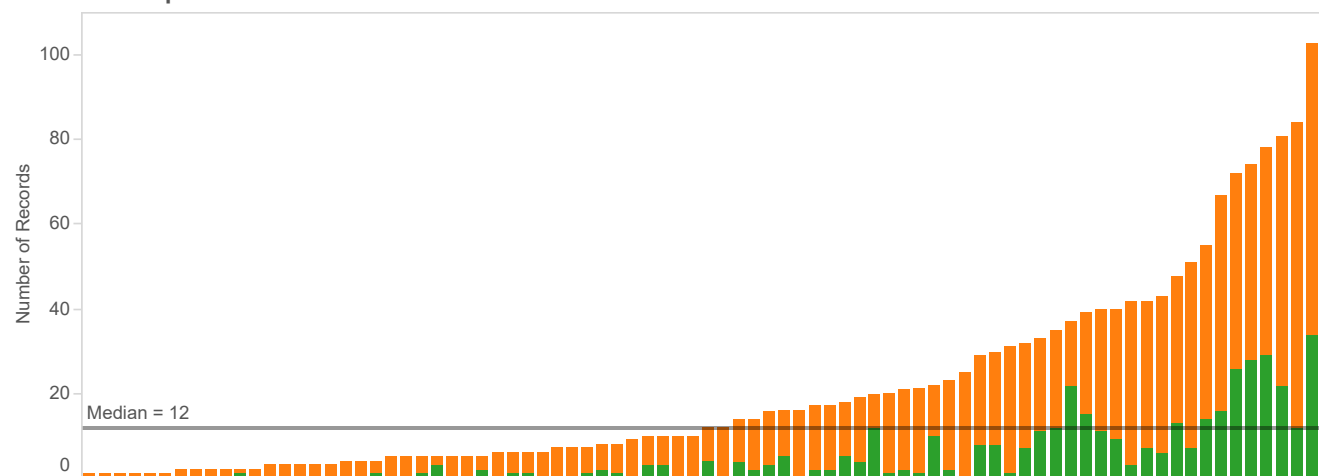
Surgery for Female Stress Urinary Incontinence performed between 01/01/2017 and 31/12/2019

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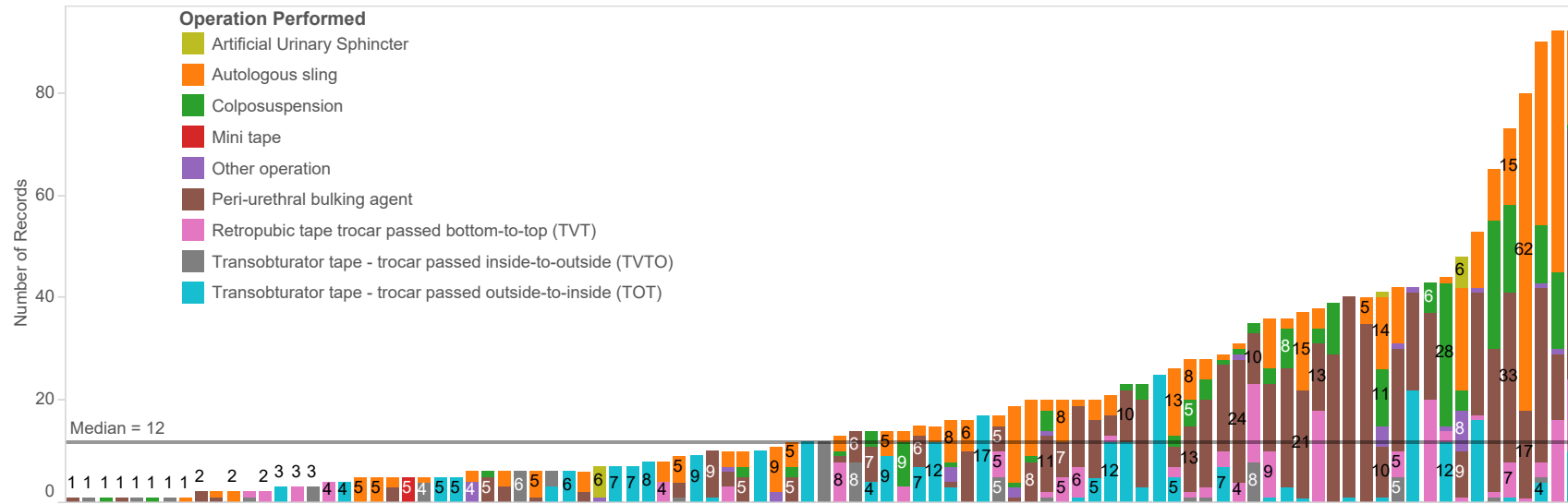
Total returns by Consultant



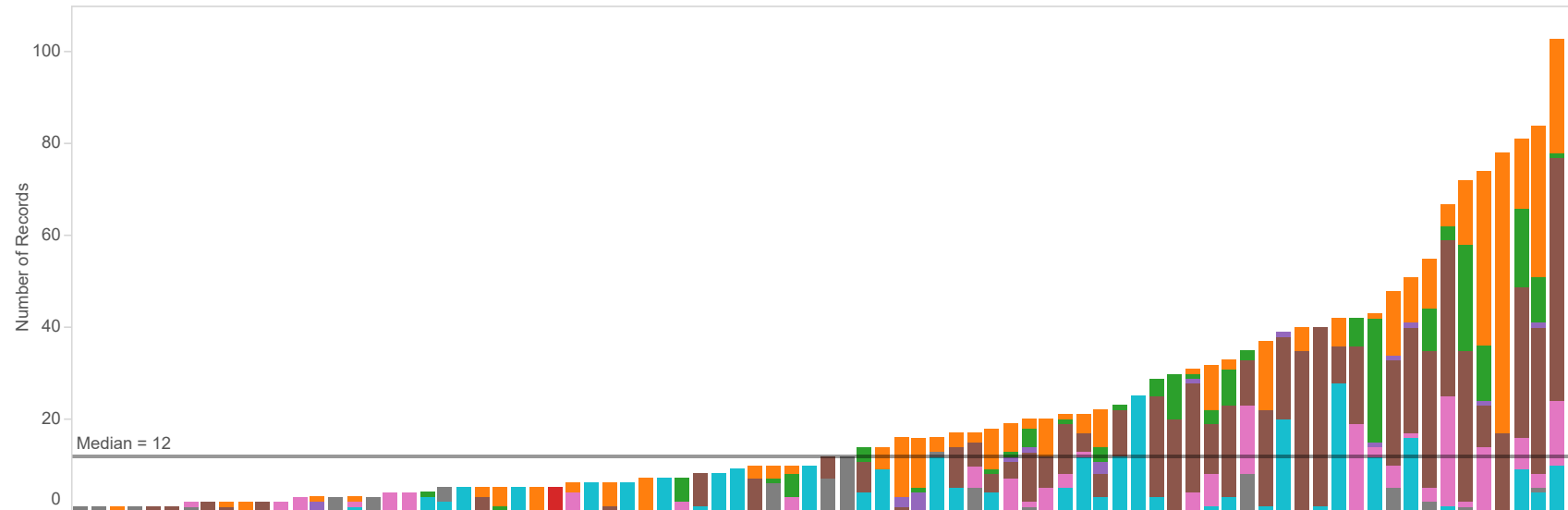
Total returns per Centre



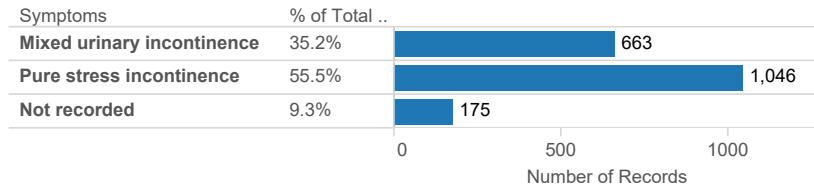
Total returns by Consultant by Procedure



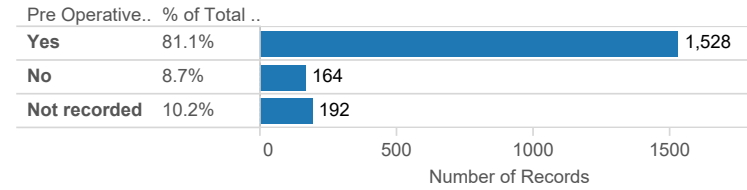
Returns by Centre by Procedure



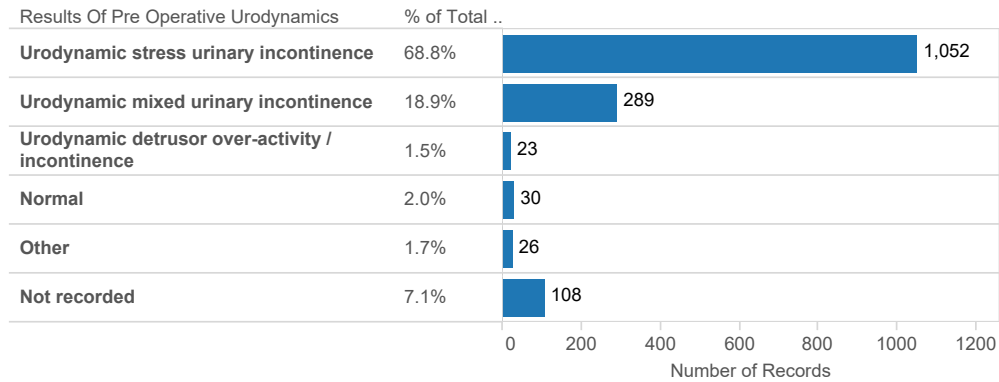
Symptoms



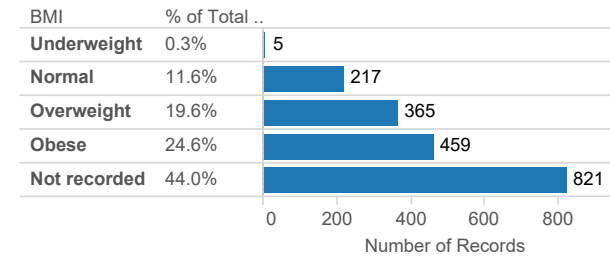
Pre-operative Urodynamics



Pre-operative Urodynamics Results



BMI



Age at Operation

Kind Of Surgery	Number of Records	Median Age	Min. Age	Max. Age
Primary	1,379	51	14	94
Recurrent SUI	488	56	14	89
Grand Total	1,867	53	14	94

NeuropathicBladder

neuropathicbladder	Number of Records	% of Total Number of Recor..
Neuropathic Bladder	67	3.6%
No	1,817	96.4%
Grand Total	1,884	100.0%

Peri-operative complications by surgery

Peri Operative Complications	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
None	1,223	96.4%	433	94.7%	1,656	95.9%
Bladder perforation	25	2.0%	12	2.6%	37	2.1%
Procedure abandoned			1	0.2%	1	0.1%
Urethral perforation	1	0.1%	5	1.1%	6	0.3%
Bladder perforation,Urethral ..	1	0.1%			1	0.1%
Other	19	1.5%	6	1.3%	25	1.4%
Grand Total	1,269	100.0%	457	100.0%	1,726	100.0%

Unintended CISC started

Did The Patient Start Unintended Cisc	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..	Number of Records	% of Total Number ..
Yes	36	2.6%	14	2.8%	50	2.7%
No	518	37.3%	210	42.3%	728	38.6%
Not recorded	834	60.1%	272	54.8%	1,106	58.7%
Grand Total	1,388	100.0%	496	100.0%	1,884	100.0%

Length of Stay

Kind Of Surgery	Number of Records	Median LengthofStay	Min. LengthofStay	Max. LengthofStay
Primary	1,126	0	0	16
Recurrent SUI	383	1	0	63
Grand Total	1,509	0	0	63

Patients with Follow up

Fuid (group) 2	Number of Records	% of Total Number of Recor..
FU	1,138	60.4%
No FU	746	39.6%
Grand Total	1,884	100.0%

Clavien Dindo Grade of Complications

Clavien Dindo Grade Of Complication	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..	Number of Records	% of Total Number of Records ..
No complications	796	92.2%	239	86.9%	1,035	90.9%
Grade I	45	5.2%	22	8.0%	67	5.9%
Grade II	5	0.6%	8	2.9%	13	1.1%
Grade IIIa	2	0.2%	1	0.4%	3	0.3%
Grade IIIb	9	1.0%	2	0.7%	11	1.0%
Grade IVa	3	0.3%	1	0.4%	4	0.4%
Not recorded	3	0.3%	2	0.7%	5	0.4%
Grand Total	863	100.0%	275	100.0%	1,138	100.0%

Patient reported Urinary tract infection

Patient Reported Complications ..	Number of Records	% of Total Number of Recor..
Yes	77	6.8%
No	1,043	91.7%
Not recorded	18	1.6%
Grand Total	1,138	100.0%

Persistent Pain after Surgery

Persistent Pain After Surgery	Number of Records	% of Total Number of Recor..
Yes	35	3.1%
No	1,073	94.3%
Not recorded	30	2.6%
Grand Total	1,138	100.0%

Patient catheter dependent since surgery

Is The Patient Catheter Dependent	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
	Number of Recor..	% of Total Number ..	Number of Recor..	% of Total Nu..	Number of Recor..	% of Total Number ..
Yes	45	7.4%	17	11.2%	62	8.2%
No	554	91.6%	131	86.2%	685	90.5%
Not recorded	6	1.0%	4	2.6%	10	1.3%
Grand Total	605	100.0%	152	100.0%	757	100.0%

Bladder Urgency -new symptoms

Over Active Bladder Symptoms New De Novo Urgency	Number of Records	% of Total Number of Recor..
Yes	145	12.7%
No	973	85.5%
Not recorded	20	1.8%
Grand Total	1,138	100.0%

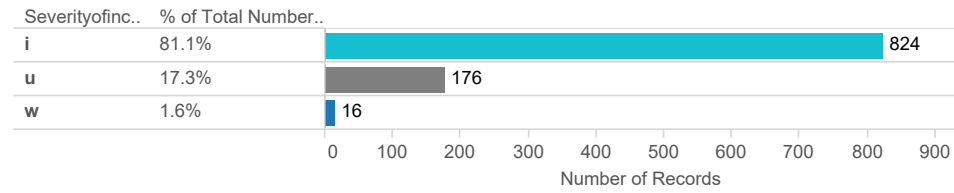
Bladder Urgency - existing symptoms

Over Active Bladder Symptoms Pre Existing Urgency Change	Number of Records	% of Total Number of Recor..
Better	221	19.4%
No change	484	42.5%
Worse	25	2.2%
Not recorded	408	35.9%
Grand Total	1,138	100.0%

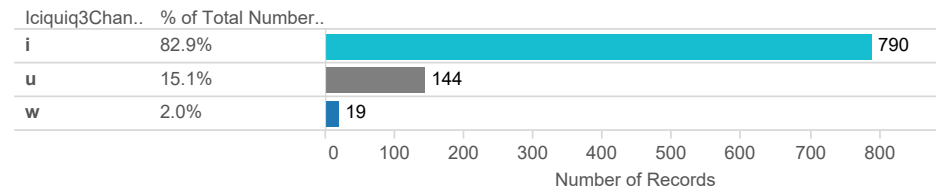
Tape extrusion

Tape Extrusion	Location Of Extrusion	Number of Records	% of Total Number of Recor..
Yes	Vaginal	5	1.5%
	Urethral	1	0.3%
	Total	6	1.8%
No	N/A	334	98.2%
	Total	334	98.2%
Grand Total		340	100.0%

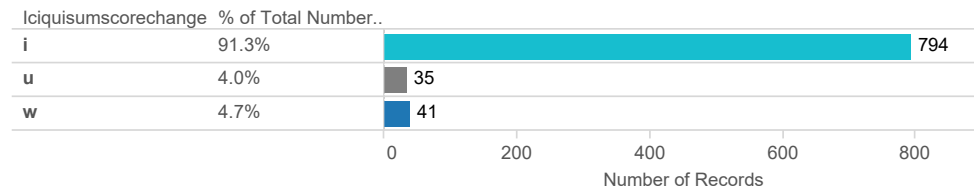
Severity of Incontinence change



ICIQ-UIQ3 change



ICIQ-UI Sum score change



Participating Hospital Centres 2017, 2018 and 2019

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 & Redbridge University Hospital
Basildon University Hospital, Essex
Bedford Hospital
BMI Goring Hall Hospital
Bradford Royal Infirmary
Burnley General Hospital
Castle Hill Hospital, Hull
Charing Cross Hospital, London
City Hospital Birmingham
Darlington Memorial Hospital
Diana, Princess of Wales Hospital, Grimsby
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
Guy's & Thomas's Hospital
Harrogate District Hospital
Huddersfield Royal Infirmary
Ipswich Hospital, Suffolk

James Cook University Hospital, Middlesbrough
James Paget University Hospital, Great Yarmouth
King's Mill Hospital, Nottinghamshire
Kingston Hospital, London
Leicester General Hospital
Leighton Hospital, Cheshire
Lister Hospital, Stevenage
Luton & Dunstable University Hospital
Manchester Royal Infirmary
Medway Maritime Hospital, Gillingham
Musgrove Park Hospital, Taunton
Norfolk & Norwich University Hospital
North Manchester General Hospital
Northern General Hospital, Sheffield
Northwick Park Hospital
Nottingham City Hospital
Peterborough City Hospital
Pinderfields General Hospital, Wakefield
Queen Alexandra Hospital, Portsmouth
Queen Elizabeth Hospital, Birmingham
Queen's Hospital, Burton-on-Trent
Raigmore Hospital, Inverness
Royal Blackburn Hospital
Royal Albert Edward Infirmary, Wigan
Royal Bolton Hospital

Royal Derby 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
Southend Hospital
Southmead Hospital, Bristol
St George's Hospital, London
St James's University Hospital, Leeds
St Richard's Hospital, Chichester
Stepping Hill Hospital, Stockport
Sunderland Royal Hospital
The Queen Elizabeth Hospital, King's Lynn
The Royal Oldham Hospital
University College Hospital, London
Walsgrave Hospital, Coventry
Watford General Hospital
Western General Hospital, Edinburgh
Wexham Park Hospital, Slough
Whipps Cross University Hospital, London
Whiston Hospital, Prescot
Worthing Hospital
Wrexham Maelor Hospital
Wycombe Hospital, High Wycombe
York Hospital