

THE BRITISH ASSOCIATION OF

UROLOGICAL SURGEONS Section of Female, Neurological & Urodynamic Urology

Analyses of procedures performed for Female Stress Urinary Incontinence between

January 1st 2015 and December 31st 2017

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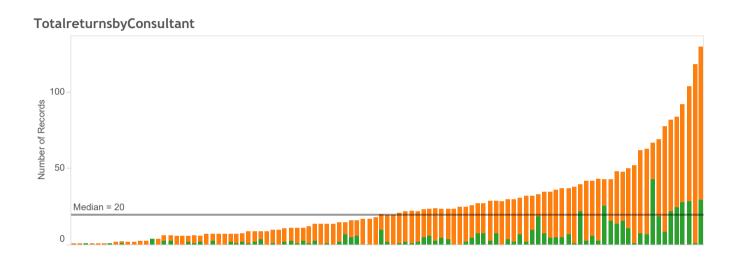
AUDIT RESULTS SUMMARY – Stress Urinary Incontinence dataset

All the data presented here are a summary of the data extracted from the web-based database on 26th March 2018 and relate to operations performed between 1st January 2015 and 31st December 2017. 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.

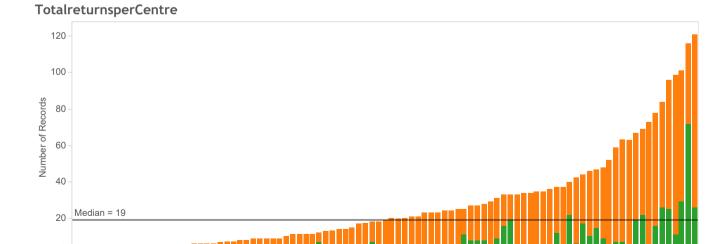
The data collection period was from 1 January 2015 to 31 December 2017.

- 2716 procedures were recorded from 106 consultants at 95 centres in the United Kingdom including 191 private patients from 38 consultants. One of the consultants that returned data is not a BAUS member.
- 96% of the operations (2,498) proceeded with no reported complications. There were 101 cases (4%) in which a peri-operative complication was recorded. There were no deaths.
- Of the 1,733 (64%) patients who have follow-up recorded, 1,709 (99%) had a record of whether or not there was a post operative complication. For 1,543 (90%) no post-operative complications occurred.
- **Hospital Episode Statistics (HES)** for 2015, 2016 and 2017 indicate that urologists undertook 3,524 stress urinary incontinence (SUI) procedures in England of which the BAUS audit has captured data on 72%. Gynaecologists performed 17,409 SUI procedures in England during the same period.
- Median number of cases per consultant: 20 (range 1 130)
- Median number of cases per centre: 21 (range 1 126)
- 80% (2159) of the procedures were performed for primary SUI and 20% (557) were for recurrent SUI. All data were entered by hand and there was no bulk uploading of data from other systems.

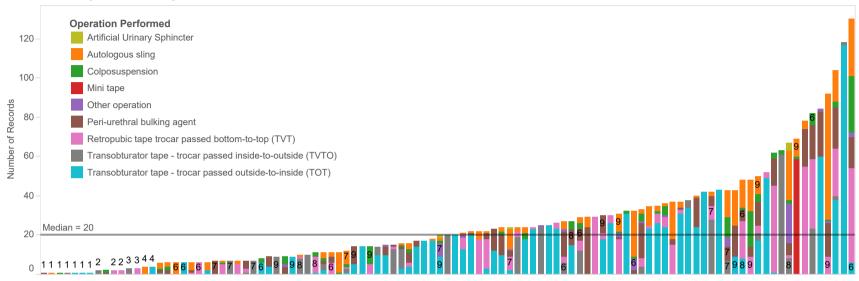
Surgery for Female Stress Urinary Incontinence performed between 01/01/2015 and 31/12/2017 2,716 procedures performed by 106 consultants at 95 sites including 191 private cases from 38 consultants



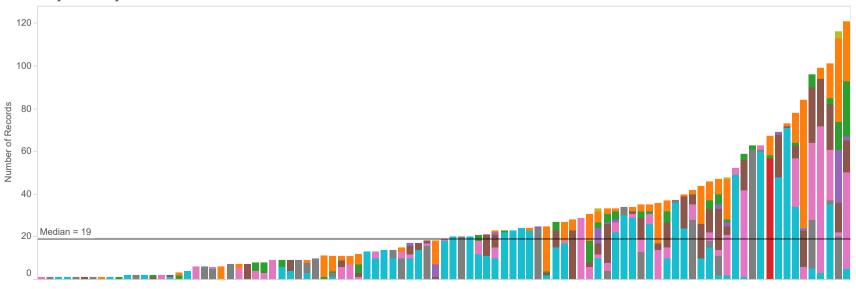




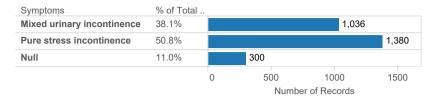
TotalreturnsbyConsultantbyProcedure



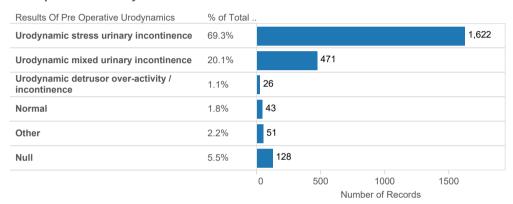
ReturnsbyCentrebyProcedure



Symptoms



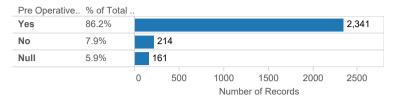
Pre-operative Urodynamics Results



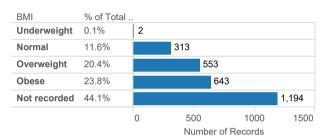
Age at Operation

Kind Of Surgery	Number of Records	Median Age	Min. Age	Max. Age
Primary	2,151	51	14	91
Recurrent SUI	554	56	19	94
Grand Total	2,705	52	14	94

Pre-operative Urodynamics

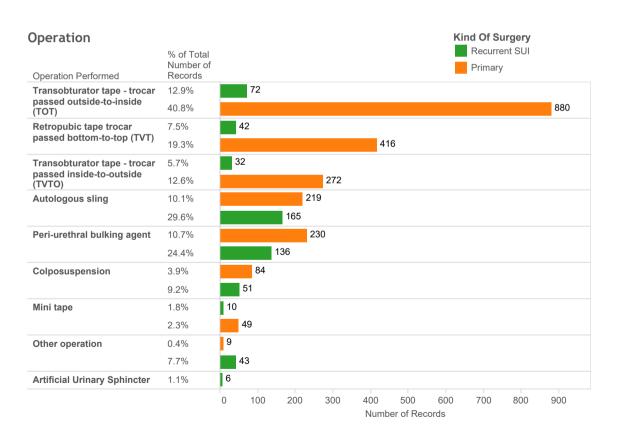


BMI

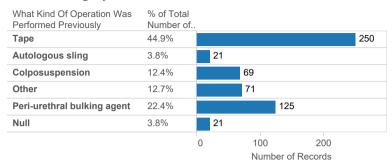


SurgeryType

	Dateofoperation							
	20	2015 2016 2017		2016		Grand	l Total	
		% of Total		% of Total		% of Total		% of Total
	Number of		Number of					Number of
Kind Of Surgery	Records	Records	Records	Records	Records	Records	Records	Records
Primary	883	80.2%	687	79.1%	589	78.8%	2,159	79.5%
Recurrent SUI	218	19.8%	181	20.9%	158	21.2%	557	20.5%
Grand Total	1,101	100.0%	868	100.0%	747	100.0%	2,716	100.0%



PreviousSurgery



OtherOperation

Other Operation	Number	% of Tot
Autologous transobturator sling	1	1.9%
TVT excision	3	5.8%
AUS	3	5.8%
Bladder neck AUS	1	1.9%
Bladder neck AUS (whole device singl	1	1.9%
Bladder neck AUS cuff	2	3.8%
Bladder neck closure	2	3.8%
Bladder neck closure and martius fat p	1	1.9%
Bladder neck closure and patch to neo	1	1.9%
Bladder neck closure monti-mitrofano	1	1.9%
Colposupsension	1	1.9%
Durasphere injection to Mitrofanoff	1	1.9%
Excision TVT mesh, colposuspension \dots	1	1.9%
Female AUS	1	1.9%
female sphincter cuff and cystoplasty	1	1.9%
Insertion bladder neck AUS cuff	1	1.9%
Insertion of artificial urinary sphincter	1	1.9%
Insertion of AUS parts	1	1.9%
Not recorded / Other	24	46.2%
Replacement of AUS	1	1.9%
Revision artificial urinary sphincter	1	1.9%
urethral closure and martius flap	1	1.9%
Vaginal closure of Urethra/Formation o	1	1.9%
Grand Total	52	100.0%

Peri-operative complications by surgery

Kind Of Surgery

	Tilla Of Gargery						
	Prin	nary	Recurr	ent SUI	Grand Total		
Peri Operative Complications	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	2,011	93.1%	487	87.4%	2,498	92.0%	
Bladder perforation	21	1.0%	17	3.1%	38	1.4%	
Procedure abandoned	3	0.1%	3	0.5%	6	0.2%	
Urethral perforation	2	0.1%	5	0.9%	7	0.3%	
Other	38	1.8%	11	2.0%	49	1.8%	
Null	83	3.8%	34	6.1%	117	4.3%	
Urethral perforation, Procedu	1	0.0%			1	0.0%	
Grand Total	2,159	100.0%	557	100.0%	2,716	100.0%	

Unintended CISC started

Kind Of Surgery

	Primary		Recurre	ent SUI	Grand Total		
Did The Patient Start Unintended Cisc	Number of Records			% of Total Number	Number of Records	% of Total Number	
Yes	22	1.0%	10	1.8%	32	1.2%	
No	461	21.4%	117	21.0%	578	21.3%	
Null	1,676	77.6%	430	77.2%	2,106	77.5%	
Grand Total	2,159	100.0%	557	100.0%	2,716	100.0%	

Length of Stay

Kind Of Surgery	Number of Records	Median LengthofStay	Min. LengthofStay	Max. LengthofStay
Primary	1,921	0	0	60
Recurrent SUI	481	1	0	63
Grand Total	2,402	0	0	63

Patients with Follow up

 Fuid (group) 2
 Number of Records
 % of Total Number of Records

 FU
 1,733
 63.8%

 No FU
 983
 36.2%

 Grand Total
 2,716
 100.0%

Patient reported Urinary tract infection

Patient Reported Complications	of	% of Total Number of Recor
Yes	84	7.3%
No	1,033	89.5%
Null	37	3.2%
Grand Total	1,154	100.0%

Clavien Dindo Grade of Complications

Kind Of Surgery

Killa Of Surgery							
Primary		Recurr	Recurrent SUI		I Total		
Number of Records	% of Total Number of Records			Number of Records	% of Total Number of Records		
836	90.9%	174	74.4%	1,010	87.5%		
42	4.6%	36	15.4%	78	6.8%		
18	2.0%	14	6.0%	32	2.8%		
3	0.3%			3	0.3%		
7	0.8%	3	1.3%	10	0.9%		
14	1.5%	7	3.0%	21	1.8%		
920	100.0%	234	100.0%	1,154	100.0%		
	Number of Records 836 42 18 3 7	Number of Records % of Total Number of Records 836 90.9% 42 4.6% 18 2.0% 3 0.3% 7 0.8% 14 1.5%	Primary Recurred Recurred Number of Records Number of Records Number of Records Number of Records 836 90.9% 174 42 4.6% 36 18 2.0% 14 3 0.3% 3 7 0.8% 3 14 1.5% 7	Primary Recurrent SUI Number of Records % of Total Number of Records % of Total Number of Records % of Total Number of Records 836 90.9% 174 74.4% 42 4.6% 36 15.4% 18 2.0% 14 6.0% 3 0.3% 3 1.3% 7 0.8% 3 1.3% 14 1.5% 7 3.0%	Primary Recurrent SUI Grand Number of Records % of Total Number of Records % of Total Number of Records Number of Re		

Persistent Pain after Surgery

Persistent Pain After Surgery	of	% of Total Number of Recor
Yes	21	2.5%
No	803	94.9%
Null	22	2.6%
Grand Total	846	100.0%

Patient catheter dependent since surgery

Kind Of Surgery

	Tana or oargory						
	Prin	nary	Recurr	ent SUI	Grand Total		
Is The Patient Catheter Dependent		% of Total Number	Number of Recor	% of Total Nu		% of Total Number	
Yes	41	4.5%	23	9.8%	64	5.5%	
No	623	67.7%	135	57.7%	758	65.7%	
Null	256	27.8%	76	32.5%	332	28.8%	
Grand Total	920	100.0%	234	100.0%	1,154	100.0%	

Bladder Urgency -new symptoms

Over Active Bladder Symptoms New De Novo Urgency	of	% of Total Number of Recor
Yes	157	13.6%
No	957	82.9%
Null	40	3.5%
Grand Total	1,154	100.0%

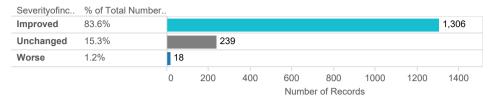
Bladder Urgency - existing sysmptoms

Over Active Bladder Symptoms Pre Existing Urgency Change	of	% of Total Number of Recor
Better	249	21.6%
No change	409	35.4%
Worse	46	4.0%
Null	450	39.0%
Grand Total	1,154	100.0%

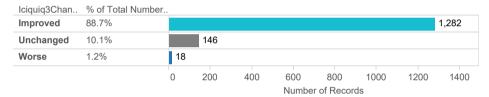
Tape extrusion

Location Of Extrusion	of	% of Total Number of Recor
Vaginal	5	0.6%
Total	5	0.6%
Null	823	99.4%
Total	823	99.4%
	828	100.0%
	Extrusion Vaginal Total Null	Location Of Extrusion of Records Vaginal 5 Total 5 Null 823 Total 823

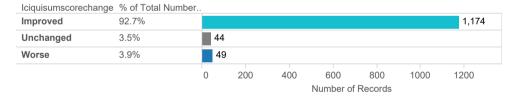
Severity of Incontinence change



ICIQ-UIQ3 change



ICIQ-UI Sum score change





Participating Hospital Centres 2015, 2016 and 2017

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

Bedford Hospital

BMI Goring Hall Hospital

Borders General Hospital, Melrose

Bradford Royal Infirmary Burnley General Hospital Castle Hill Hospital, Hull

Charing Cross Hospital, London

Chase Farm Hospital

Chorley & South Ribble Hospital

City Hospital Birmingham

Darlington Memorial Hospital

Diana, Princess of Wales Hospital, Grimsby

Doncaster Royal Infirmary

Eastbourne District General Hospital

Epsom General Hospital, Surrey

Fairfield Independent Hospital, St Helens

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 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 Pilgrim Hospital, Boston

Pinderfields General Hospital, Wakefield Princess Alexandra Hospital, Harlow 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 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

Southport & Ormskirk Hospitals

St James's University Hospital, Leeds

St Richard's Hospital, Chichester

Stepping Hill Hospital, Stockport

Sunderland Royal Hospital

The New Victoria Hospital

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

Worthing Hospital

Wrexham Maelor Hospital

Wycombe Hospital, High Wycombe

York Hospital