

THE BRITISH ASSOCIATION OF

UROLOGICAL SURGEONS Section of Female, Neurological & Urodynamic Urology

Analyses of procedures performed for Female Stress Urinary Incontinence between

January 1st 2016 and December 31st 2018

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Please contact Mrs Sarah Fowler (E-mail: sarahfowler99@gmail.com)

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 2019 and relate to operations performed between 1st January 2016 and 31st December 2018. 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.

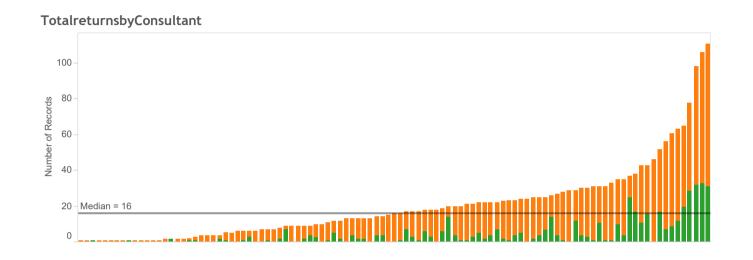
The data collection period was from 1 January 2016 to 31 December 2018.

- 2133 SUI procedures were recorded from 103 Consultants at 88 centres in the United Kingdom (1989 procedures for England only), including 112 private patients from 41 Consultants.
- Median number of cases per consultant: 16 (range 1 111)
- Median number of cases per centre: 17.5 (range 1 100)
- 90% of the operations (1,906 of 2,133) proceeded with no reported complications. There were 72 cases (3%) in which a perioperative complication was recorded.
- Of the 1,367 (64%) patients with follow-up recorded, 1,359 (99.5%) had a record of whether or not there was a post-operative complication. For 1249 (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 2016 to 2017 (inclusive) indicate that urologists undertook 3,587 stress urinary incontinence (SUI) procedures in England (1059 in 2016; 993 in 2017. We do not have the figures for 2018 but know that the number of procedures has markedly reduced due to the mesh review. We believe that the BAUS audit has continued to capture data on more than 70% of the total procedures performed during 2016, 2017 and 2018.

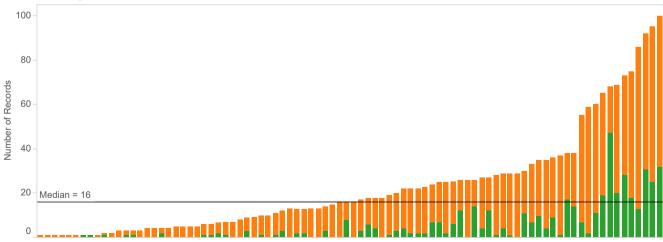
Surgery for Female Stress Urinary Incontinence performed between 01/01/2016 and 31/12/2018

2133 SUI procedures returned from 103 Consultants at 88 centres including 112 private patients from 41 Consultants.

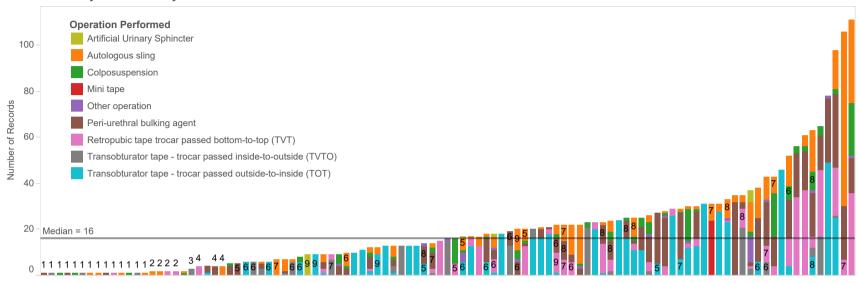




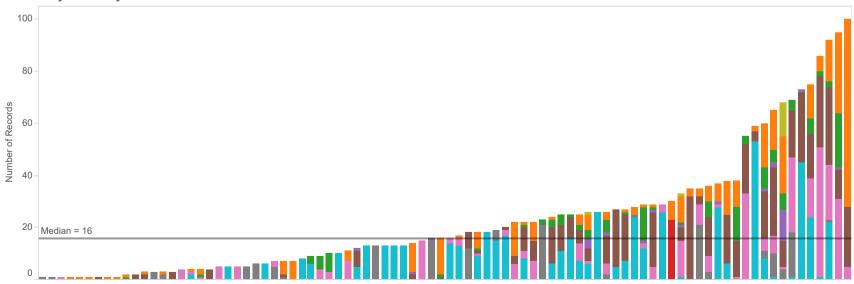
${\bf Total return sper Centre}$



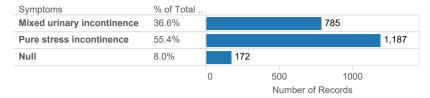
TotalreturnsbyConsultantbyProcedure



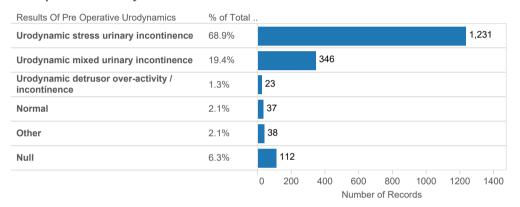
ReturnsbyCentrebyProcedure



Symptoms



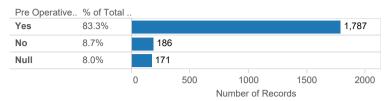
Pre-operative Urodynamics Results



Age at Operation

		Median		
Kind Of Surgery	N	Age	Min. Age	Max. Age
Primary	1,664	51	14	94
Recurrent SUI	467	57	14	89
Grand Total	2,131	52	14	94

Pre-operative Urodynamics

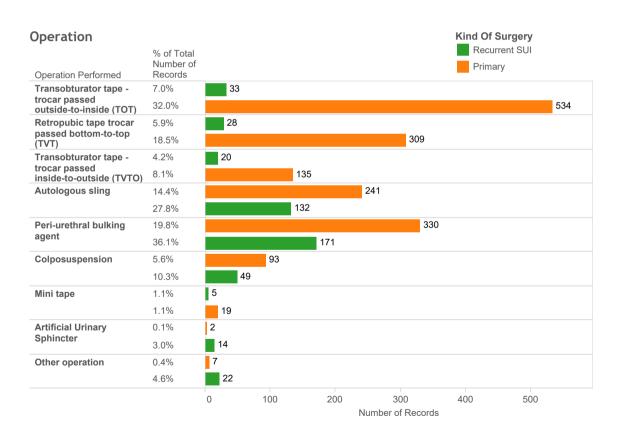


NeuropathicBladder

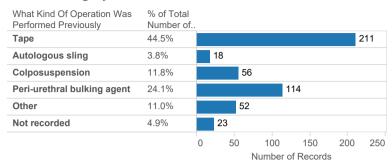
Neuropathicbladder	N	% of Total
Neuropathic bladder	61	2.8%
No	2,083	97.2%
Grand Total	2,144	100.0%

SurgeryType

		Dateofoperation								
	20	2016 2017		2017		2017		18	Grand	l Total
Kind Of Surgery	N	% of Total	N	% of Total	N	% of Total	N	% of Total		
Primary	690	78.9%	632	78.9%	348	74.4%	1,670	77.9%		
Recurrent SUI	185	21.1%	169	21.1%	120	25.6%	474	22.1%		
Grand Total	875	100.0%	801	100.0%	468	100.0%	2,144	100.0%		



PreviousSurgery



OtherOperation

Other Operation	N	% of Total
Autologous transobturator sling	1	3.4%
TVT excision	1	3.4%
AUS	3	10.3%
Bladder neck AUS (whole device singl	1	3.4%
Bladder neck AUS cuff	1	3.4%
Durasphere injection to Mitrofanoff	1	3.4%
Excision of eroded TVT (TVT performe	1	3.4%
Excision TVT mesh, colposuspension	1	3.4%
Insertion bladder neck AUS cuff	1	3.4%
Insertion of AUS parts	1	3.4%
Replacement of AUS	1	3.4%
Not recorded / Other	16	55.2%
Grand Total	29	100.0%

Peri-operative complications by surgery

Kind Of Surgery

	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
Peri Operative Complications	N	% of Total	N	N % of Total		% of Total
None	1,507	90.2%	407	85.9%	1,914	89.3%
Bladder perforation	25	1.5%	12	2.5%	37	1.7%
Procedure abandoned			1	0.2%	1	0.0%
Urethral perforation	2	0.1%	3	0.6%	5	0.2%
Bladder perforation, Urethral	1	0.1%			1	0.0%
Urethral perforation, Procedu	1	0.1%			1	0.0%
Other	23	1.4%	6	1.3%	29	1.4%
Not recorded	111	6.6%	45	9.5%	156	7.3%
Grand Total	1,670	100.0%	474	100.0%	2,144	100.0%

Unintended CISC started

Kind Of Surgery

	Primary		Recurr	ent SUI	Grand Total	
Did The Patient Start Unintended Cisc	N	% of Total	N	% of Total	N	% of Total
Yes	15	0.9%	3	0.6%	18	0.8%
No	236	14.1%	74	15.6%	310	14.5%
Not recorded	1,419	85.0%	397	83.8%	1,816	84.7%
Grand Total	1,670	100.0%	474	100.0%	2,144	100.0%

Length of Stay

Kind Of Surgery	N	Median LengthofStay	Min. LengthofStay	Max. LengthofStay
Primary	1,414	0	0	20
Recurrent SUI	374	1	0	63
Grand Total	1,788	0	0	63

Patients with Follow up

Fuid (group) 2	N	% of Total
FU	1,370	63.9%
No FU	774	36.1%
Grand Total	2,144	100.0%

Clavien Dindo Grade of Complications

Kind C	f Surgery
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	Primary		Recurrent SUI		Grand Total	
Clavien Dindo Grade Of Complication	N	% of Total	N	% of Total	N	% of Total
No complications	1,004	92.5%	248	87.0%	1,252	91.4%
Grade I	52	4.8%	21	7.4%	73	5.3%
Grade II	8	0.7%	7	2.5%	15	1.1%
Grade IIIa	2	0.2%			2	0.1%
Grade IIIb	12	1.1%	6	2.1%	18	1.3%
Grade IVa	2	0.2%			2	0.1%
Not recorded	5	0.5%	3	1.1%	8	0.6%
Grand Total	1,085	100.0%	285	100.0%	1,370	100.0%

Patient reported Urinary tract infection

Patient Report	N	% of Total
Yes	34	7.4%
No	416	90.2%
Not recorded	11	2.4%
Grand Total	461	100.0%

Persistent Pain after Surgery

Persistent P	N	% of Total
Yes	7	2.1%
No	321	96.7%
Not recorded	4	1.2%
Grand Total	332	100.0%

Patient catheter dependent since surgery

Kind Of Surgery

	Kind Of Surgery					
	Primary		Recurrent SUI		Grand Total	
Is The Patient Catheter Dependent	N	% of Total	N	% of Total	N	% of Total
Yes	21	5.9%	10	9.6%	31	6.7%
No	328	91.9%	91	87.5%	419	90.9%
Not recorded	8	2.2%	3	2.9%	11	2.4%
Grand Total	357	100.0%	104	100.0%	461	100.0%

Bladder Urgency -new symptoms

Over Active Bladder Symptoms New	N	% of Total
Yes	57	12.4%
No	392	85.0%
Not recorded	12	2.6%
Grand Total	461	100.0%

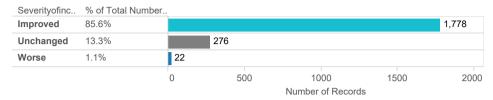
Bladder Urgency - existing sysmptoms

Over Active Bladder Symptoms P	N	% of Total
Better	96	20.8%
No change	190	41.2%
Worse	8	1.7%
Not recorded	167	36.2%
Grand Total	461	100.0%

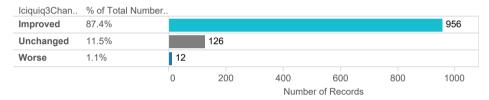
Tape extrusion

	Tape Extrusi	Location Of	N	% of Total
Yes	Yes	Vaginal	1	0.3%
		Total	1	0.3%
	No	Not applicable	326	99.7%
		Total	326	99.7%
Grand Total			327	100.0%

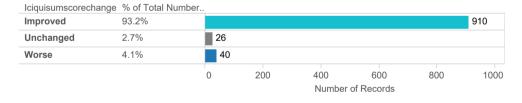
Severity of Incontinence change



ICIQ-UIQ3 change



ICIQ-UI Sum score change





Participating Hospital Centres 2016, 2017 and 2018

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

Chase Farm Hospital

City Hospital Birmingham

Darlington Memorial Hospital

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

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

Queen Alexandra Hospital, Portsmouth

Queen Elizabeth Hospital, Birmingham

Queen Elizabeth University Hospital

Queen's Hospital, Burton-on-Trent

Raigmore Hospital, Inverness

Rotherham Hospital

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

Southport & Ormskirk Hospitals

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

University Hospital of Wales, Cardiff

University Hospital, Ayr

Walsgrave Hospital, Coventry

Watford General Hospital

Western General Hospital, Edinburgh

Wexham Park Hospital, Slough

Whipps Cross University Hospital, London

Worthing Hospital
Wrexham Maelor Hospital
Wycombe Hospital, High Wycombe
York Hospital