

THE BRITISH ASSOCIATION OF

UROLOGICAL SURGEONS Section of Female, Neurological & Urodynamic Urology

Analyses of procedures performed for Female Stress Urinary Incontinence between

January 1st and December 31st 2014

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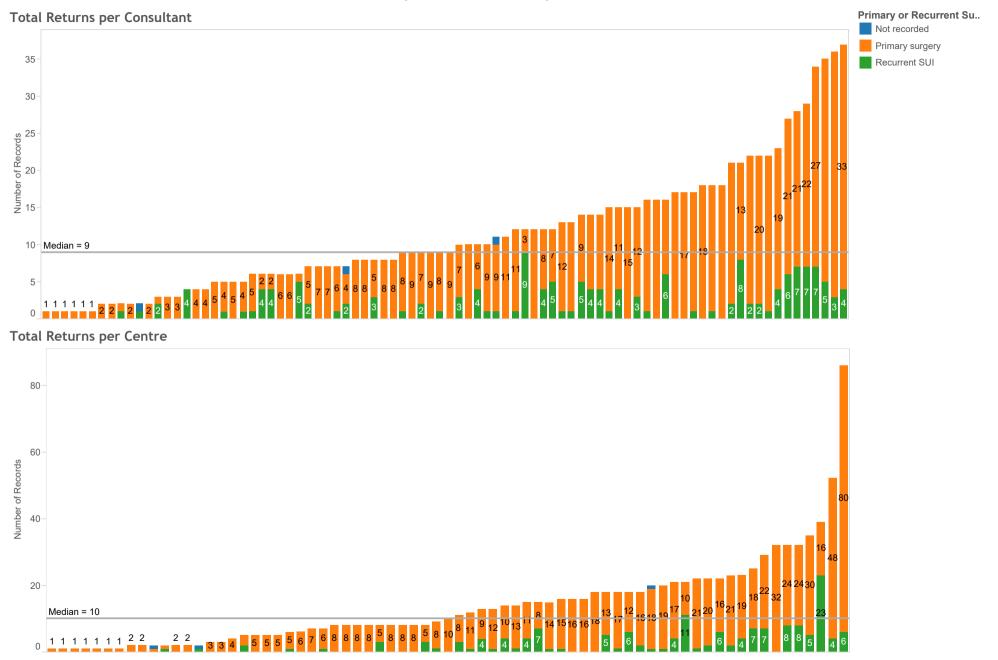
AUDIT RESULTS SUMMARY – Stress Urinary Incontinence dataset

All the data presented here are a summary of the data extracted from the web-based database on 31st March 2015 and relate to operations performed during the whole of 2014. 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 2014 to 31 December 2014.

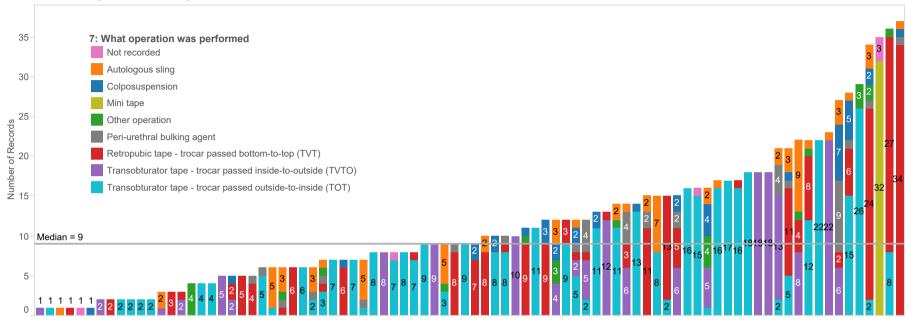
- 984 procedures were recorded from 87 consultants at 70 centres in the United Kingdom including 86 private patients from 25 consultants. 4 of the consultants returning data are not BAUS members.
- 90% of the operations (885) proceeded with no reported complications. There were 37 cases (4%) in which a perioperative complication was recorded. There were no deaths.
- Of the 558 patients who have follow-up recorded, 532 (95%) of these recorded whether or not there was a post operative complication. For 468 (88%) no post-operative complications occurred.
- Hospital Episode Statistics (HES) for 2014 indicate that there were 1,318 stress urinary incontinence (SUI) procedures undertaken by urologists in England of which the BAUS audit has captured data on 69%. Gynaecologists undertook 7,445 SUI procedures in England.
- Median number of cases per consultant: 9 (range 1 37)
- Median number of cases per centre: 10 (range 1 86)
- 84% (827) of the procedures were performed for primary SUI and 16% (154) were for recurrent SUI. All data were entered by hand and there was no bulk uploading of data from other systems.

Total procedures reported - 984 from 84 consultants at 70 centres including 86 private patients reported by 25 consultants 558 patients have follow-up recorded

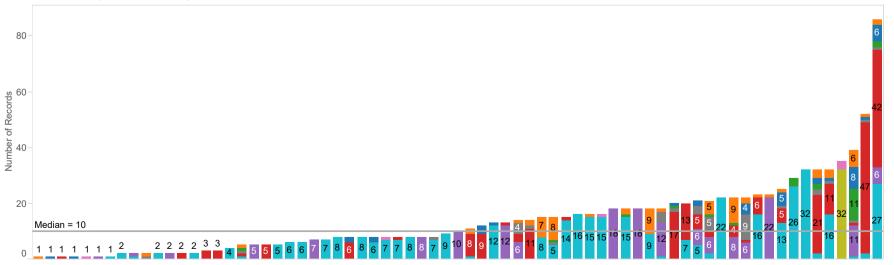


Total procedures reported - 984 from 84 consultants at 70 centres including 86 private patients reported by 25 consultants 558 patients have follow-up recorded

Total returns by Procedure by Consultant



Total Returns by Procedure by Centre



Peri-operative complications

20: Peri-operative complications (group)	N	% Total
None	885	89.9%
Bladder perforation	12	1.2%
Procedure abandoned	1	0.1%
Other	24	2.4%
Not recorded	62	6.3%
Grand Total	984	100.0%

Peri-operative Complications by Surgery

Primary or Recurrent Surgery

	Primary s	ary surgery Recurrent SUI Not recorded Grand Total			current SUI Not recorded		Total	
20: Peri-operative complications (group)	N	% Total	N	% Total	N	% Total	N	% Total
None	751	90.8%	132	85.7%	2	66.7%	885	89.9%
Bladder perforation	10	1.2%	2	1.3%			12	1.2%
Procedure abandoned			1	0.6%			1	0.1%
Not recorded	50	6.0%	11	7.1%	1	33.3%	62	6.3%
Other	16	1.9%	8	5.2%			24	2.4%
Grand Total	827	100.0%	154	100.0%	3	100.0%	984	100.0%

Other peri-operative complications

22: Specify Other peri-operative complication(s)	N	% Total
bleeding	1	4.2%
blood loss 500ml	1	4.2%
Brief episode of type 2 respiratory compromise - had	1	4.2%
Chest infection	1	4.2%
Haematoma	1	4.2%
Injury small bowel -repair at time of operation	1	4.2%
leg pain muscle injury	1	4.2%
Pelvic haematoma and return to theatre for evacuation	1	4.2%
Post op pneumonia requiring antibiotics	1	4.2%
right sided vaginal fornix perforation-sutured	1	4.2%
small bowel injury	1	4.2%
Small button-hole in vaginal skin right side.	1	4.2%
some blood loss	1	4.2%
tape required repositioning as 2nd needle passed sli	1	4.2%
TIA (Previous history of TIAs)	1	4.2%
Transient ileus of the bowel	1	4.2%
TWOC post op failed. Catheterised, TWOC successful	1	4.2%
Urinary retention	1	4.2%
Vaginal fornix breach - repositioned	1	4.2%
Vaginal perforation	1	4.2%
vaginal perforation repaired	1	4.2%
vaginal skin perforation - immediately closed with vic	1	4.2%
wound infection needing debridement 2 weeks post op	1	4.2%
Not recorded	1	4.2%
Grand Total	24	100.0%

BMI

BMI	N	% Total
Underweight	4	0.4%
Normal	114	11.6%
Overweight	206	20.9%
Obese	208	21.1%
Not recorded	452	45.9%
Grand Total	984	100.0%

Age at Operation

Primary or Recurrent Surgery	N	Median	Minimum	Maximum
Primary surgery	818	53	22	92
Recurrent SUI	153	58	29	89
Not recorded	3	71	54	71
Grand Total	974	54	22	92

Patient reported Severity of Incontinence

14: Patient reported severity of incontinence pre-op	N	% Total
0 - 1 pad per day	92	9.3%
2 - 3 pads per day	331	33.6%
4 - 5 pads per day	208	21.1%
> 5 pads per day	119	12.1%
Not recorded	234	23.8%
Grand Total	984	100.0%

Co-morbidities - catheter dependent &/or neuropathic bladder

45: Charlson co-morbidity (check all that apply)	N	% Total
Catheter dependent prior to surgery	6	30.0%
Neuropathic bladder	10	50.0%
Neuropathic bladder; Catheter dependent prior to surgery	4	20.0%
Grand Total	20	100.0%

Surgery type

Primary or Recurrent Surge	N	% Total
Primary surgery	827	84.0%
Recurrent SUI	154	15.7%
Not recorded	3	0.3%
Grand Total	984	100.0%

Previous surgery

2: What operation was performed previously	3: If Yes, to Tape above - please speci	N	% Total
Таре	TOT	16	10.4%
	TVT	14	9.1%
	TVT-O	5	3.2%
	Advance	1	0.6%
	Aris	3	1.9%
	Ethicon	1	0.6%
	SPARC	1	0.6%
	Ethicon TVT	1	0.6%
	tvt and tvt-o	1	0.6%
	N/A	28	18.2%
Colposuspension	N/A	32	20.8%
Peri-urethral bulking agent	N/A	17	11.0%
Autologous sling	N/A	7	4.5%
Other	N/A	25	16.2%
Not known	N/A	2	1.3%
Grand Total		154	100.0%

Pre-operative Urodynamics

10: Pre-operative urodynamics performed?	N	% Total
Yes	905	92.0%
No	42	4.3%
Not recorded	37	3.8%
Grand Total	984	100.0%

Pre-operative Urodynamics Results

10: Pre-operative urodynamics performed?	11: Results of pre-operative urodynamics	N	% Total
Yes	Yes Urodynamic stress urinary incontinence Urodynamic mixed urinary incontinence		72.8%
			17.3%
	Urodynamic detrusor overactivity/incontinence	5	0.6%
Normal		13	1.4%
	Other		2.9%
	Not recorded	45	5.0%
Grand Total		905	100.0%

What Surgery was performed this time

Primary or Recurrent Surgery

	Primary s	urgery	Recurrent SUI		Not recorded		Grand Total	
7: What operation was performed	N	% Total	N	% Total	N	% Total	N	% Total
Retropubic tape - trocar passed bottom-to-top (TVT)	212	25.6%	18	11.7%			230	23.4%
Transobturator tape - trocar passed outside-to-inside (TOT)	351	42.4%	27	17.5%	1	33.3%	379	38.5%
Transobturator tape - trocar passed inside-to-outside (TVTO)	154	18.6%	11	7.1%			165	16.8%
Mini tape	27	3.3%	5	3.2%			32	3.3%
Colposuspension	25	3.0%	14	9.1%	1	33.3%	40	4.1%
Peri-urethral bulking agent	17	2.1%	20	13.0%	1	33.3%	38	3.9%
Autologous sling	31	3.7%	39	25.3%			70	7.1%
Other operation	5	0.6%	19	12.3%			24	2.4%
Not recorded	5	0.6%	1	0.6%			6	0.6%
Grand Total	827	100.0%	154	100.0%	3	100.0%	984	100.0%

Patient able to void post-operatively

26: Was patient able to void post-operatively after ta	28: What management was offered for urinary retention	N	% Total
Yes	No catheter	192	19.5%
	Intermittent self-catheteris	36	3.7%
	Indwelling urethral catheter	5	0.5%
	Tape pull down	17	1.7%
	Suprapubic catheter	4	0.4%
	Other	1	0.1%
	Not recorded / applicable	502	51.0%
	Total	757	76.9%
No	No catheter	7	0.7%
	Intermittent self-catheteris	37	3.8%
	Indwelling urethral catheter	32	3.3%
	Tape pull down	3	0.3%
	Suprapubic catheter	5	0.5%
	Tape division / excision	2	0.2%
	Other	2	0.2%
	Not recorded / applicable	13	1.3%
	Total	101	10.3%
Not recorded	No catheter	10	1.0%
	Intermittent self-catheteris	5	0.5%
	Indwelling urethral catheter	3	0.3%
	Tape pull down	1	0.1%
	Suprapubic catheter	5	0.5%
	Other	1	0.1%
	Not recorded / applicable	101	10.3%
	Total	126	12.8%
Grand Total		984	100.0%

Did patient leave theatre with catheter in situ

24: Did Patient leave theatre with a catheter in situ?	25:When was TWC performed?	N	% Total
Yes	< 6 hours post-op	83	8.4%
	6 - 24 hours post-op	244	24.8%
	> 24 hours post-op	110	11.2%
	Not recorded / N/A	35	3.6%
No	Not recorded / N/A	473	48.1%
Not recorded	> 24 hours post-op	1	0.1%
	Not recorded / N/A	38	3.9%
Grand Total		984	100.0%

Median Length of Stay

N	Median LOS	Minimum LOS	Maximum LOS
827	1	0	23
154	1	0	14
3			
984	1	0	23
	827 154 3	N LOS 827 1 154 1 3	N LOS LOS 827 1 0 154 1 0 3

Unintended CISC

30: Did the patient start unintended CISC?	N	% Total
Yes	16	2.9%
No	316	56.6%
Not recorded	226	40.5%
Grand Total	558	100.0%

Length of Stay

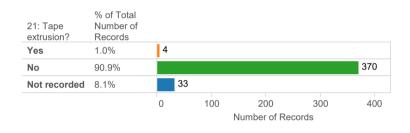
33: Length of stay	N	% Total
0	286	29.1%
1	217	22.1%
2	48	4.9%
3	13	1.3%
4	14	1.4%
5	3	0.3%
6	7	0.7%
7	3	0.3%
8	1	0.1%
9	3	0.3%
10	2	0.2%
11	1	0.1%
14	1	0.1%
23	1	0.1%
Null	384	39.0%
Grand Total	984	100.0%

Follow-up

UTI

14: Patient reported complications - UTI	15: Antibiotics given?	N	% Total
Yes	Yes	41	7.3%
	No	2	0.4%
No	Not recorded	496	88.9%
	No	1	0.2%
Not recorded	Not recorded	18	3.2%
Grand Total		558	100.0%

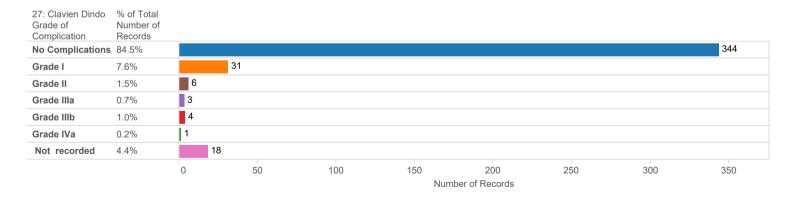
Tape Extrusion



Overactive bladder

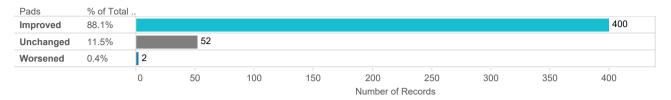
Overactive bladder symptoms - New / de novo urgency?	Overactive bladder symptoms - Was pre-existing urgency improved	N	% Total
Yes	Better	5	0.9%
	No change	38	6.8%
	Worse	21	3.8%
	Not recorded	22	3.9%
	Total	86	15.4%
No	Better	62	11.1%
	No change	179	32.1%
	Worse	29	5.2%
	Not recorded	171	30.6%
	Total	441	79.0%
Not recorded	Better	2	0.4%
	No change	7	1.3%
	Not recorded	22	3.9%
	Total	31	5.6%
Grand Total		558	100.0%

Clavien Dindo Grade of Complications

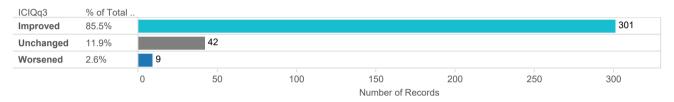


Patient Reported Outcome Measures

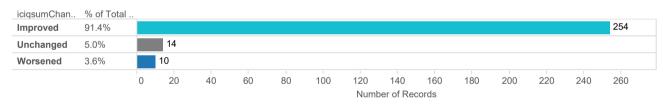
Patient reported outcomes of Continence at Follow up



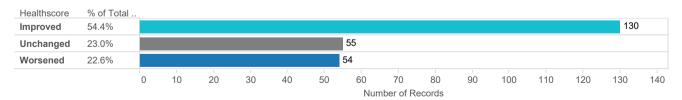
ICIQ3 Change



ICIQ SumScore Change



Thermometer Health Score



Participating Hospital Centres 2014

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

Addenbrooke's Hospital

Barking, Havering and Redbridge University

Hospitals NHS Trust Bedford Hospital

Belfast City Hospital

Blackpool Victoria Hospital Borders General Hospital

Bradford Teaching Hospitals

Castle Hill Hospital

City Hospitals Sunderland NHS Foundation Trust

Doncaster & Bassetlaw Hospitals NHS Trust

East Lancashire Hospitals NHS Trust

East Sussex Hospitals NHS Trust

Epsom and St Helier University Hospitals

Freeman Hospital
Frimley Park Hospital

Gartnavel General Hospital Guy's & Thomas's Hospital Harrogate District Hospital

Heatherwood & Wexham Park NHS Trust

Huddersfield Royal Infirmary

James Cook University Hospital

Kingston Hospital

Leicester General Hospital

Leighton Hospital Lister Hospital

Manchester Royal Infirmary Medway Maritime Hospital Norfolk & Norwich Hospital

North Bristol NHSTrust (Southmead)

Northern General Hospital

Northwick Park Hospital; Central Middlesex

Hospital

Nottingham City Hospital

Peterborough and Stamford Hospitals NHS

Foundation Trust
Pinderfields Hospital

Portsmouth Hospitals NHS Trust
Princess Alexandra Hospital, Harlow
Princess Of Wales Hospital, Bridgend
Queen Elizabeth Hospital, B'ham

Queen's Hospital Burton

Rotherham NHS Foundation Trust

Royal Berkshire NHS Foundation Trust

Royal Bolton Hospital NHS Foundation Trust

Royal Devon And Exeter Hospital

Royal Free London NHS Foundation Trust

Royal Hallamshire Hospital

Royal National Orthopaedic Hospital, Stanmore

Royal Preston Hospital

Royal Sussex County Hospital

Royal West Sussex NHS Trust, St Richard's

Hospital

Salford RoyalNHS Foundation Trust

Salisbury District Hospital

Sandwell District General Hospital

Southend University Hospital NHS Trust

Southern General Hospital

St James's University Hospital
Stepping Hill Hospital

Stirling Royal Infirmary / Forth Valley Royal

Taunton And Somerset Hospital

The Ipswich Hospital

The Royal Oldham Hospital

University College Hospital London

Walsgrave Hospital

West Herts Hospitals NHS Trust

Western General Hospital, Edinburgh

Weston Area Health NHS Trust

Whiston Hospital
Withington Hospital
Worthing Hospital

Wrightington, Wigan and Leigh NHS Foundation

Trust

York District Hospital