

## BRITISH ASSOCIATION OF ORAL AND MAXILLOFACIAL SURGEONS



### British Association of TMJ Surgeons (B.A.T.S.)

#### National Case Registration of Temporomandibular Joint Replacement

Revalidation Report based on baseline data as of 18th November 2012: 337 cases

The total replacement of the temporomandibular joint (TMJ) registration project was set up at the request of BAOMS Council in 2010. The surgeons performing this operation formed the B.A.T.S group and from this came the agreement on a minimal dataset for patients having TMJ replacement. Data points are baseline (pre-op), 6 weeks, 1 year and then annually up to 10 years. The data includes process, objective and patient derived elements. Data entry is via SNAP and commenced in the summer of 2011. All new patients will be entered as will retrospective data from 1994. The intention is to produce an annual output each December suitable for revalidation which in future will summarise both baseline and follow-up data. The focus at the moment is on baseline data. At present there are 12 consultants nominated to submit data of which 8 have done so. There have been some difficulties entering data by a few surgeons so that full participation in the project is an on-going process.

Report lead on behalf of the BATS group: Professor Simon N Rogers

Data Analysis: Professor Derek Lowe (Medical Statistician)

Table 1: Study data by consultant

	Consultant										Total
	A	B	C	D	E	F	G	H	I	Others	
Baseline	91	84	85	46	13	9	5	1	-	3	337
6 weeks	-	-	-	40	15	5	-	2	-	-	62
1 year	87	44	-	28	-	4	2	5	26	2	198
2 years	-	28	-	6	-	3	2	2	18	-	59

## BASELINE DATA: Tables 2-13

Table 2: Baseline data as at 13 January 2012

		Consultant									
		A	B	C	D	E	F	G	H	Others	Total
YEAR	1994	-	3	22	-	-	-	-	-	-	25
	1995	-	-	24	-	-	-	-	-	-	24
	1996	-	2	13	-	-	-	-	-	-	15
	1997	-	3	13	-	-	-	-	-	-	16
	1998	-	2	13	-	-	1	-	-	-	16
	1999	-	4	-	-	-	-	-	-	-	4
	2000	-	2	-	-	-	-	-	-	-	2
	2001	-	2	-	1	-	-	-	-	-	3
	2002	-	3	-	-	-	-	-	-	-	3
	2003	-	5	-	-	-	-	-	-	-	5
	2004	4	4	-	-	-	-	-	-	1	9
	2005	5	8	-	2	-	-	1	-	-	16
	2006	6	10	-	3	1	-	-	-	-	20
	2007	6	8	-	3	2	-	-	-	-	19
	2008	12	3	-	10	3	2	-	-	-	30
	2009	13	7	-	11	3	2	1	-	-	37
	2010	22	9	-	8	4	4	-	-	1	48
2011	12	6	-	4	-	-	1	-	-	23	
2012	11	2	-	4	-	-	2	1	1	21	
NK		-	1	-	-	-	-	-	-	-	1
Total		91	84	85	46	13	9	5	1	3	337

Table 3: Age and sex

All Baseline data	
Mean (SD) Age	43 (13), n=336
Median (IQR) Age	44 (35-51), n=336
Females	83% (279)
Males	17% (58)

Table 4: Case location

All Baseline data	
Local hospital catchment	33% (110)
Other hospital within your region	22% (74)
Other UK hospital outside your region	42% (142)
Other country	2% (7)
Not Known	1% (4)

Table 5: Written information on the procedure and any possible complications has been given to the patient (or carer/guardian if patient incapacitated)

All Baseline data	
Yes	80% (269)
No	0.6% (2)
Not Known	20% (66)

Table 6: Diagnosis

All Baseline data	
Ankylosis	17% (58)
Rheumatoid Arthritis	7% (24)
Seronegative Arthritis	15% (49)
Osteoarthritis	46% (155)
Septic Arthritis	0.3% (1)
Traumatic	8% (28)
Congenital/craniofacial	0.6% (2)
Orthognathic condylar resorption	0.9% (3)
Oncology	0.3% (1)
Previous failed surgery	20% (69)
Revision prosthesis	10% (35)
Other*	5% (17)

\*Others comprised: Internal derangement (4), arthrogyposis (3), chronic bruxist, closed lock, de-generative changes, Ehlers Danlos, failed DO plate, fibromyalgia, mandibular osteolysis, progressive condylar resorption, TMJD 4, torn meniscus

Table 7: Side having TMJ replacement

All Baseline data	
Left	28% (94)
Right	27% (90)
Bilateral (same day)	41% (138)
Bilateral (different day)	4% (15)*

\*Median 15, IQR 8-36, range 3-60 months apart.

Table 8: During the past week did you experience difficulty with chewing?

All Baseline data	
Data Recorded	50% (170)
If recorded: During the past week did you experience difficulty with chewing?	
Always	69% (118)
Often	23% (39)
Sometimes	8% (13)
Never	0% (0)

Table 9: During the past week did you have pain when you chew?

All Baseline data	
Data Recorded	46% (156)
If recorded: During the past week did you have pain when you chew?	
Always	72% (113)
Often	17% (27)
Sometimes	10% (15)
Never	0.6% (1)

Table 10: Number of previous open procedures\*

All Baseline data	
1 or more	42% (143)
None	45% (152)
Not Known	12% (42)

\*Left-sided and Right-sided combined totals

Table 11: Joint replacement system

	Unilateral (184)	Bilateral (n=153)	
		Both sides	1 side only
Custom prosthesis	49% (90)	43% (66)	2% (3)
Stock prosthesis	33% (60)	17% (26)	2% (3)
Concepts	51% (94)	54% (83)	2% (3)
Biomet	0.5% (1)	4% (6)	3% (4)
Christensen	47% (86)	36% (55)	2% (3)
Co-Cr joint	38% (70)	32% (49)	3% (5)
Titanium joint	11% (20)	10% (15)	3% (4)

Table 12: Facial nerve weakness (intra-procedural and procedure related)

All Baseline data	
Unilateral Left (N=94)	24% (20/84)
Unilateral Right (N=90)	18% (13/73)
Bilateral Left (N=153)	13% (19/144)
Bilateral Right (N=153)	14% (21/145)

Table 13: Length of stay

All Baseline data	
≤ 3 days	63% (213)
>3 days	26% (87)
NK	11% (37)
Mean LOS	3.1 days
Median LOS	3 days