**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 | | | | | | |  |  | Total |
| A | B | C | D | E | F | G | H | Others |
| 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) |
| Congential/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), arthrogryposis (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

|  |  |  |  |
| --- | --- | --- | --- |
|  | Bilateral (n=153) | | |
|  | Unilateral  (184) | 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 |