



AOA  
AUSTRALIAN  
ORTHOPAEDIC  
ASSOCIATION

*Analysis of  
State & Territory Health Data  
All Arthroplasty*



**SUPPLEMENTARY REPORT  
2008**

National Joint Replacement Registry

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# HIP AND KNEE REPLACEMENT

## 1994/95 – 2006/07

Data presented in this report are for both the public and private hospital sector and have been obtained from State and Territory Health Departments for specific ICD-10-AM codes relating to hip, knee, shoulder, elbow, wrist, ankle and spinal disc replacement. Data for each state are presented individually with the exception of data for the Australian Capital Territory (ACT) and Northern Territory (NT) which have been combined..

These data provide information on joint replacement for the financial year 1<sup>st</sup> July 2006 to 30<sup>th</sup> June 2007. It also includes long term data from as early as 1994/95 which provides a national perspective on the changing rates on hip and knee replacement since that time.

**Table G1: Number (%) of Hip & Knee Replacements Nationally 1/7/2006 – 30/6/2007**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Hip Replacement</b>								
Partial	1,732 (17.9)	1,404 (17.0)	1,067 (19.7)	570 (16.9)	646 (22.6)	171 (17.0)	110 (14.6)	5,700 (18.2)
Primary total	6,788 (70.3)	5,788 (70.0)	3,645 (67.2)	2,377 (70.6)	1,943 (68.0)	705 (69.9)	545 (72.4)	21,791 (69.6)
Revision	1,130 (11.7)	1,072 (13.0)	715 (13.2)	422 (12.5)	268 (9.4)	132 (13.1)	98 (13.0)	3,837 (12.2)
<b>Total Hips</b>	<b>9,650</b> (100.0)	<b>8,264</b> (100.0)	<b>5,427</b> (100.0)	<b>3,369</b> (100.0)	<b>2,857</b> (100.0)	<b>1,008</b> (100.0)	<b>753</b> (100.0)	<b>31,328</b> (100.0)
<b>Knee Replacement</b>								
Patellar/trochlear	238 (1.9)	94 (1.3)	40 (0.6)	17 (0.5)	35 (1.2)	3 (0.4)	4 (0.5)	431 (1.3)
Unicompartmental	1,397 (11.4)	792 (10.9)	332 (5.0)	140 (3.9)	462 (15.6)	63 (7.7)	90 (11.8)	3,276 (9.6)
Primary total	9,694 (79.2)	5,693 (78.5)	5,696 (85.7)	3,124 (88.1)	2,143 (72.4)	674 (82.8)	582 (76.1)	27,606 (80.7)
Revision	905 (7.4)	674 (9.3)	578 (8.7)	264 (7.4)	319 (10.8)	74 (9.1)	89 (11.6)	2,903 (8.5)
<b>Total Knees</b>	<b>12,234</b> (100.0)	<b>7,253</b> (100.0)	<b>6,646</b> (100.0)	<b>3,545</b> (100.0)	<b>2,959</b> (100.0)	<b>814</b> (100.0)	<b>765</b> (100.0)	<b>34,216</b> (100.0)
<b>Combined Total</b>	<b>21,884</b>	<b>15,517</b>	<b>12,073</b>	<b>6,914</b>	<b>5,816</b>	<b>1,822</b>	<b>1,518</b>	<b>65,544</b>

Note: In some tables entries may not sum to totals due to rounding

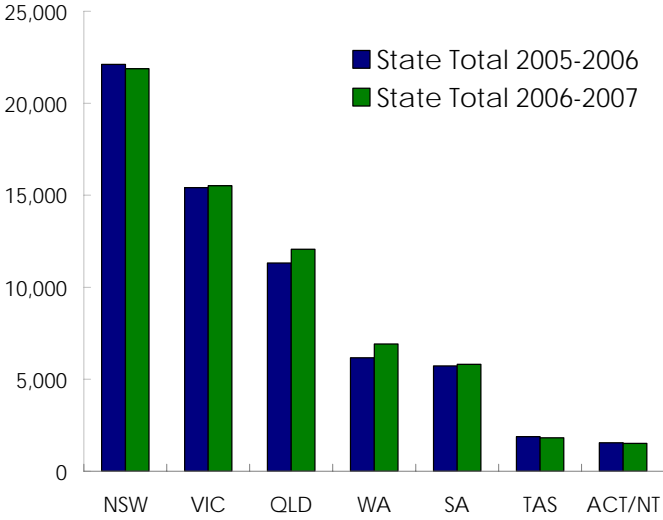
Table G2: Number and Percentage Change in Hip and Knee Replacement

Type of Joint Replacement	National Total			Percentage change relative to 2005-2006
	1/7/04-30/6/05	1/7/05-30/6/06	1/7/06-30/6/07	
<b>Hip replacement</b>				
Partial	5,692	5,619	5,700	1.4
Primary total	20,683	21,050	21,791	3.5
Revision	3,791	3,771	3,837	1.8
<b>Total</b>	<b>30,166</b>	<b>30,440</b>	<b>31,328</b>	<b>2.9</b>
<b>Knee replacement</b>				
Patellar/trochlear	439	508	431	-15.2
Unicompartmental	3,259	3,451	3,276	-5.1
Primary total	25,428	27,049	27,606	2.1
Revision	2,744	2,729	2,903	6.4
<b>Total</b>	<b>31,870</b>	<b>33,737</b>	<b>34,216</b>	<b>1.4</b>
<b>National Total</b>	<b>62,036</b>	<b>64,177</b>	<b>65,544</b>	<b>2.1</b>

Table G3: Number and Percentage Change for Combined Hip and Knee Replacement by State & Territory

States & Territories	State Total			Percentage change relative to 2005 - 2006
	1/7/04-30/6/05	1/7/05-30/6/06	1/7/06-30/6/07	
NSW	20,726	22,108	21,884	-1.0
VIC	14,938	15,419	15,517	0.6
QLD	11,237	11,322	12,073	6.6
WA	5,923	6,173	6,914	12.0
SA	5,859	5,721	5,816	1.7
TAS	1,756	1,883	1,822	-3.2
ACT/NT	1,597	1,551	1,518	-2.1
<b>National Total</b>	<b>62,036</b>	<b>64,177</b>	<b>65,544</b>	<b>2.1</b>

Figure G1: State and Territory Total Joint Replacement 1/7/2005 - 30/6/2006 and 1/7/2006 - 30/6/2007

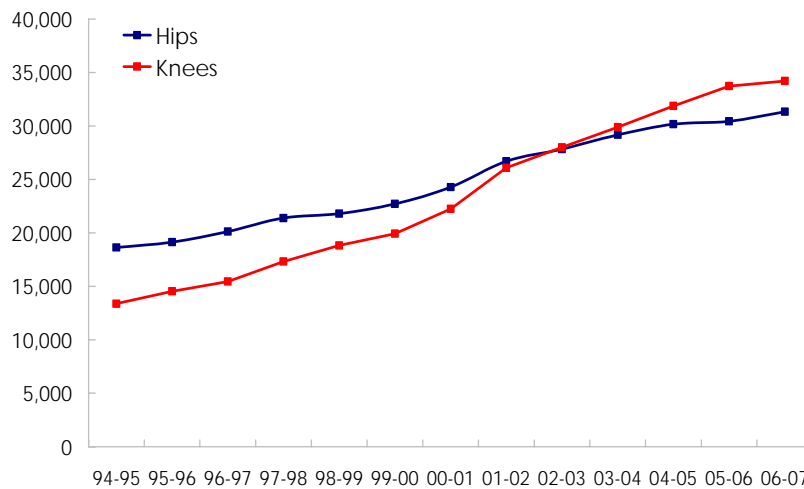


**Table G4: Number of Hip and Knee Replacements with Percentage Change from previous year**

Year	Hip Replacement		Knee Replacement		Total	
	N	% Change	N	% Change	N	% Change
1994-1995	18,635	N/A	13,371	N/A	32,006	N/A
1995-1996	19,132	2.7	14,542	8.8	33,674	5.2
1996-1997	20,127	5.2	15,456	6.3	35,583	5.7
1997-1998	21,379	6.2	17,317	12.0	38,696	8.7
1998-1999	21,800	2.0	18,832	8.7	40,632	5.0
1999-2000	22,717	4.2	19,936	5.9	42,653	5.0
2000-2001	24,285	6.9	22,252	11.6	46,537	9.1
2001-2002	26,689	9.9	26,089	17.2	52,778	13.4
2002-2003	27,833	4.3	28,003	7.3	55,836	5.8
2003-2004	29,165	4.8	29,899	6.8	59,064	5.8
2004-2005	30,166	3.4	31,870	6.6	62,036	5.0
2005-2006	30,440	0.9	33,737	5.9	64,177	3.5
2006-2007	31,328	2.9	34,216	1.4	65,544	2.1
<b>*1994/95-2006/07</b>		<b>68.1</b>		<b>155.9</b>		<b>104.8</b>

Note: N/A indicates not applicable  
 Bilaterals are counted as two replacements from 2000-01  
 \* % change for entire period 1994-1995 to 2006-2007 is relative to 1994-1995

**Figure G2: Number of Hip and Knee Replacements from 1994/95 – 2006/07**



**Table G5: Percentage Change between 1994/95 - 2006/07 for Hip and Knee Replacement by State and Territory**

Type of Joint Replacement	NSW %	VIC %	QLD %	WA %	SA %	TAS %	ACT/NT %	AUST %
<b>Hip replacement</b>								
Primary Partial	20.4	9.6	66.7	35.4	25.0	48.7	86.4	27.8
Primary Total	75.0	84.9	135.2	132.8	65.5	66.3	124.3	90.8
Revision	25.3	44.9	81.5	62.3	-17.8	83.3	100.0	39.4
<b>All Hip Replacement</b>	<b>55.2</b>	<b>60.4</b>	<b>110.0</b>	<b>97.9</b>	<b>41.6</b>	<b>65.0</b>	<b>114.5</b>	<b>68.1</b>
<b>Knee replacement</b>								
Primary Total	111.1	124.3	163.2	176.0	86.3	127.7	268.4	129.5
Primary (all primaries)	146.7	159.2	180.4	189.8	129.6	150.0	327.8	160.3
Revision	79.2	146.0	147.0	92.7	136.3	393.3	117.1	116.5
<b>All Knee Replacement</b>	<b>140.0</b>	<b>157.9</b>	<b>177.1</b>	<b>179.4</b>	<b>130.3</b>	<b>161.7</b>	<b>284.4</b>	<b>155.9</b>
<b>Total Combined</b>	<b>93.4</b>	<b>94.8</b>	<b>142.3</b>	<b>132.7</b>	<b>76.1</b>	<b>97.6</b>	<b>176.0</b>	<b>104.8</b>

Note: Patella/trochlear and Unicompartmental data are included in the 1994 - 1995 year in the primary knee numbers. Separate ICD 10 codes for Patella/trochlear and Unicompartmental were introduced in 1999-2000

For this analysis the 1994 -1995 primary knee numbers includes Patella/trochlear and Unicompartmental. The Registry believes that the numbers of Patella/trochlear and Unicompartmental joint replacement undertaken in 1994 -1995 would have been small.

The above table shows percentage changes between 1994 -1995 primary knee (includes Patella/trochlear and Unicompartmental) and 2006 to 2007 Primary Total (excludes Patella/trochlear and Unicompartmental) and Primary ((all primaries) includes Patella/trochlear and Unicompartmental)

## Incidence of Hip and Knee Replacement

**Table G6: Incidence of Hip and Knee Replacement by State and Territory per 100,000 population for 2006/07**

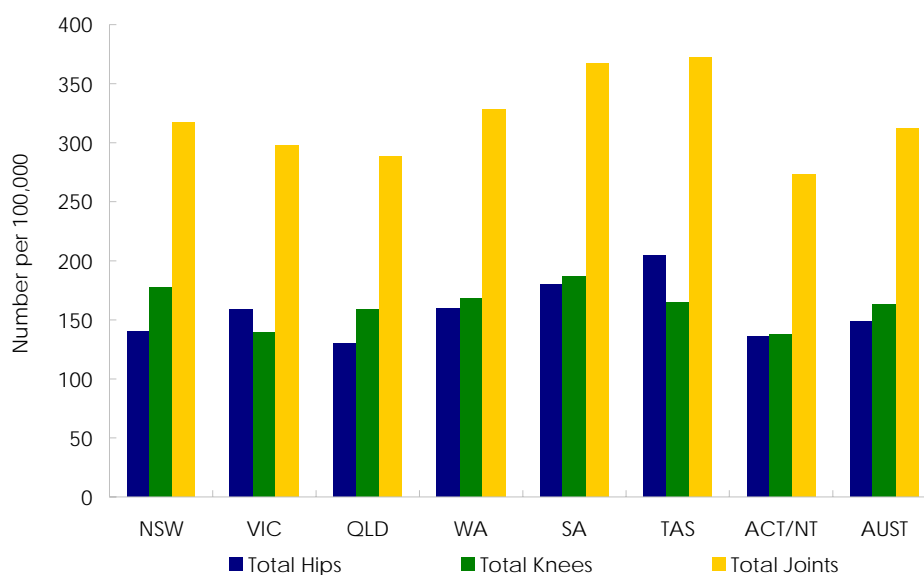
Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
	<i>ABS Population Statistics June 2007</i>							
	6889100	5205200	4182100	2105800	1584500	493300	554900	21017200
<b>Hip replacement</b>								
Primary Partial	25.1	27.0	25.5	27.1	40.8	34.7	19.8	27.1
Primary Total	98.5	111.2	87.2	112.9	122.6	142.9	98.2	103.7
Revision	16.4	20.6	17.1	20.0	16.9	26.8	17.7	18.3
<b>All Hip Replacement</b>	<b>140.1</b>	<b>158.8</b>	<b>129.8</b>	<b>160.0</b>	<b>180.3</b>	<b>204.3</b>	<b>135.7</b>	<b>149.1</b>
<b>Knee replacement</b>								
Patellar/trochlear	3.5	1.8	1.0	0.8	2.2	0.6	0.7	2.1
Unicompartmental	20.3	15.2	7.9	6.6	29.2	12.8	16.2	15.6
Primary total	140.7	109.4	136.2	148.4	135.2	136.6	104.9	131.3
Revision	13.1	12.9	13.8	12.5	20.1	15.0	16.0	13.8
<b>All Knee Replacement</b>	<b>177.6</b>	<b>139.3</b>	<b>158.9</b>	<b>168.3</b>	<b>186.7</b>	<b>165.0</b>	<b>137.9</b>	<b>162.8</b>
<b>Total Combined</b>	<b>317.7</b>	<b>298.1</b>	<b>288.7</b>	<b>328.3</b>	<b>367.1</b>	<b>372.7</b>	<b>273.6</b>	<b>311.9</b>

Note: The total Australian population includes Cocos (Keeling) Islands, Christmas Island and Jervis Bay Territory.

The values of the total hip and knee replacement rates per 100,000 population may not equal the sum of the figures due to rounding.

The population figures were obtained from the Australian Bureau of Statistics.  
 3101.0 - Australian Demographic Statistics, Jun 2007  
 Released at 11:30 AM (CANBERRA TIME) 04/12/2007  
 June Quarter Key figures, Preliminary Data  
[www.abs.gov.au/Ausstats/abs@.nfs](http://www.abs.gov.au/Ausstats/abs@.nfs)

**Figure G3 Incidence of Hip and Knee Replacement by State and Territory 2006/07**



**Table G7: Incidence of Hip and Knee Replacement per 100,000 population 1997/98 – 2006/07**

Type of Joint Replacement	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07
	<i>ABS Population Statistics as at June 2007</i>									
	<i>18711300</i>	<i>18925900</i>	<i>19153400</i>	<i>19413200</i>	<i>19641000</i>	<i>19881500</i>	<i>20111300</i>	<i>20328600</i>	<i>20605500</i>	<i>21017200</i>
<b>Hip replacement</b>										
Primary Partial	26.4	26.8	27.6	28.2	28.5	28.5	29.2	28.0	27.3	27.1
Primary Total	72.4	73.2	74.1	79.2	88.5	93.2	96.4	101.7	102.2	103.7
Revision	15.5	15.2	16.9	17.7	18.9	18.3	19.4	18.6	18.3	18.3
<b>All Hip Replacement</b>	<b>114.3</b>	<b>115.2</b>	<b>118.6</b>	<b>125.1</b>	<b>135.9</b>	<b>140.0</b>	<b>145.0</b>	<b>148.4</b>	<b>147.7</b>	<b>149.1</b>
<b>Knee replacement</b>										
Patellar/trochlear	N/A	N/A	0.9	1.1	1.3	1.5	1.5	2.2	2.5	2.1
Unicompartmental	N/A	N/A	11.3	14.4	16.5	17.9	17.5	16.0	16.7	15.6
Primary total	83.4	90.3	81.4	88.2	103.3	108.3	116.7	125.1	131.3	131.3
Revision	9.2	9.2	10.4	10.9	11.7	13.1	13.0	13.5	13.2	13.8
<b>All Knee Replacement</b>	<b>92.5</b>	<b>99.5</b>	<b>104.1</b>	<b>114.6</b>	<b>132.8</b>	<b>140.8</b>	<b>148.7</b>	<b>156.8</b>	<b>163.7</b>	<b>162.8</b>
<b>Total Combined</b>	<b>206.8</b>	<b>214.7</b>	<b>222.7</b>	<b>239.7</b>	<b>268.7</b>	<b>280.8</b>	<b>293.7</b>	<b>305.2</b>	<b>311.5</b>	<b>311.9</b>

Note: The incidence for each year may differ slightly from previous years due to updating of the Australian population figures.

The total Australian population includes Cocos (Keeling) Islands, Christmas Island and Jervis Bay Territory.  
 The population figures were obtained from the Australian Bureau of Statistics.  
 3101.0 - Australian Demographic Statistics, June 2007  
 Released at 11:30 AM (CANBERRA TIME) 04/12/2007  
 June Quarter Key figures, Preliminary Data  
[www.abs.gov.au/Ausstats/abs@.nfs](http://www.abs.gov.au/Ausstats/abs@.nfs)

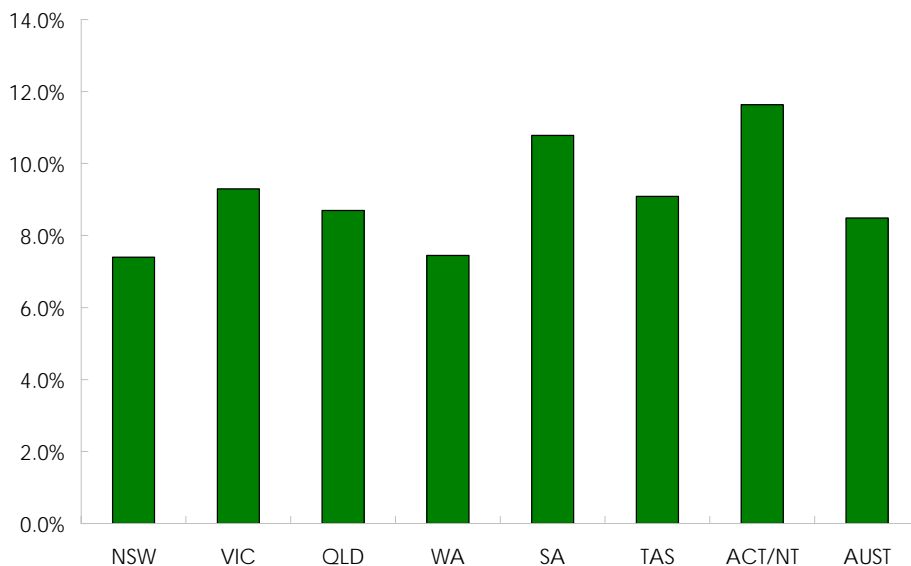
## Revision Hip and Knee Replacement

Figure G4: Percentage of Revision Hip Replacement 2006/07



Note: Figure 4 represents, within each state and territory, the percentage of revision hip replacement of all 2006-2007 hip replacements. It is not possible to provide a breakdown by type (partial, primary or revision) of revision hip replacement.

Figure G5: Percentage of Revision Knee Replacement 2006/07



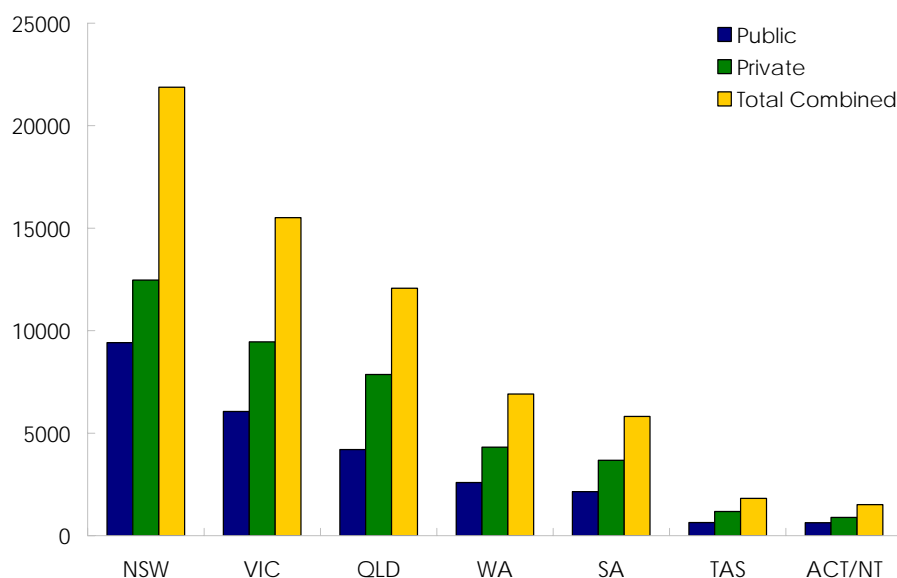
Note: Figure 5 represents, within each state and territory, the percentage of revision knee replacement of all 2006-2007 knee replacements. It is not possible to provide a breakdown by type (unicompartmental, primary total or revision) of revision knee replacement.

## HIP AND KNEE REPLACEMENT BY PUBLIC AND PRIVATE SECTOR

**Table G8: Percentage Change from previous year for Hip and Knee Replacement by Public and Private Sector**

Year	Public		Private		Combined Total	
	N	%	N	%	N	%
1997/98	18,777	N/A	19,919	N/A	38,696	N/A
1998/99	19,195	2.2	21,437	7.6	40,632	5.0
1999/00	19,193	0.0	23,460	9.4	42,653	5.0
2000/01	19,290	0.5	27,247	16.1	46,537	9.1
2001/02	20,851	8.7	31,937	17.2	52,788	13.4
2002/03	21,797	4.5	34,039	6.6	55,836	5.8
2003/04	23,070	5.8	35,994	5.7	59,064	5.8
2004/05	24,022	4.1	38,014	5.6	62,036	5.0
2005/06	26,015	8.3	38,162	0.4	64,177	3.5
2006/07	25,696	-1.2	39,848	4.4	65,544	2.1

**Figure G6: Number of Hip and Knee Replacements by Public and Private Sector 1/7/2006 - 30/6/2007**



**Table G9: Percentage Change from previous year for Hip Replacement by Public and Private Sector**

Year	Public		Private		Total Combined	
	N	%	N	%	N	%
1997/98	11,417	N/A	9,962	N/A	21,379	N/A
1998/99	11,455	0.3%	10,345	3.8%	21,800	2.0%
1999/00	11,493	0.3%	11,224	8.5%	22,717	4.2%
2000/01	11,547	0.5%	12,738	13.5%	24,285	6.9%
2001/02	12,179	5.5%	14,510	13.9%	26,689	9.9%
2002/03	12,577	3.3%	15,256	5.1%	27,833	4.3%
2003/04	13,193	4.9%	15,972	4.7%	29,165	4.8%
2004/05	13,451	2.0%	16,715	4.7%	30,166	3.4%
2005/06	13,909	3.4%	16,531	-1.1%	30,440	0.9%
2006/07	13,972	0.5%	17,356	5.0%	31,328	2.9%

**Figure G7: Number of Hip Replacements by Public and Private Sector 1997/98 - 2006/07**

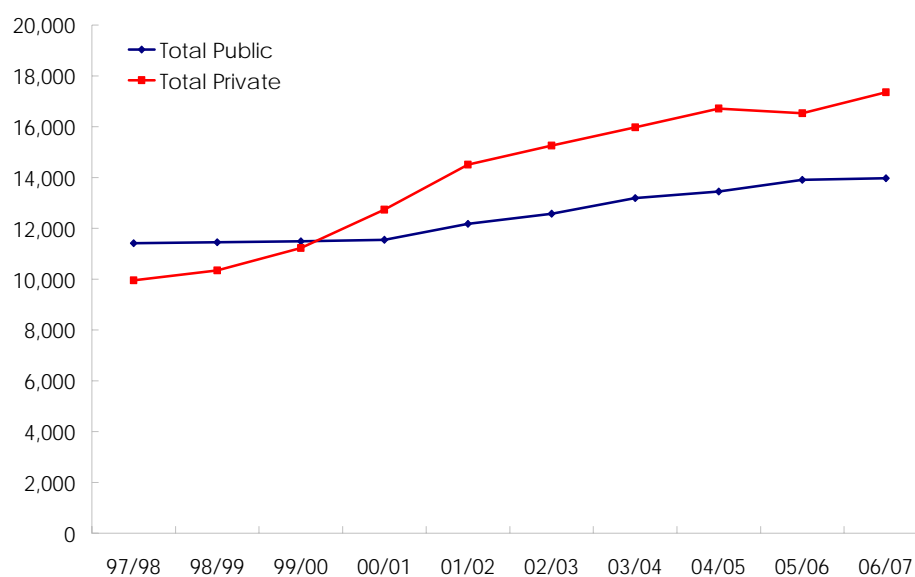
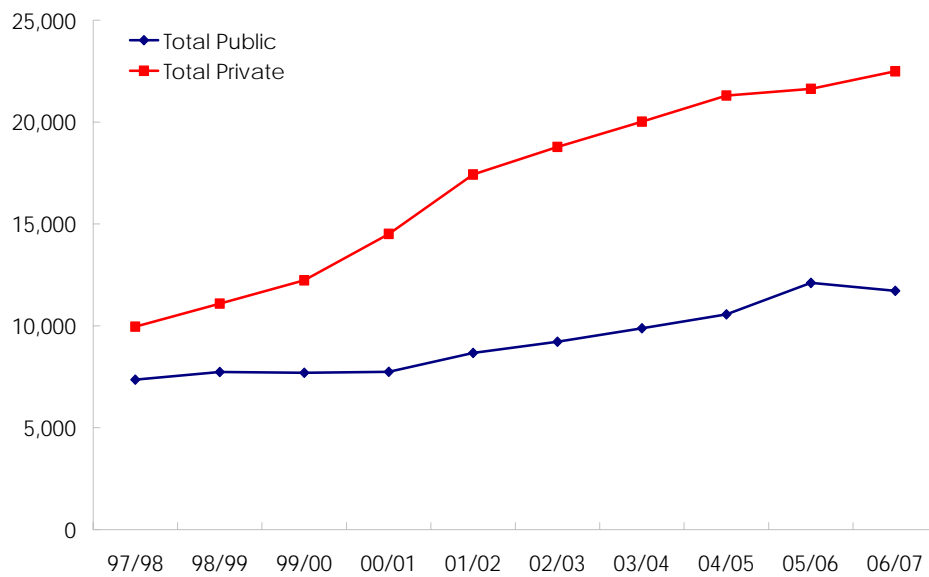


Table G10: Percentage Change from previous year for Knee Replacement by Public and Private Sector

Year	Public		Private		Total Combined	
	N	%	N	%	N	%
1997/98	7,360	N/A	9,957	N/A	17,317	N/A
1998/99	7,740	5.2%	11,092	11.4%	18,832	8.7%
1999/00	7,700	-0.5%	12,236	10.3%	19,936	5.9%
2000/01	7,743	0.6%	14,509	18.6%	22,252	11.6%
2001/02	8,672	12.0%	17,427	20.1%	26,099	17.3%
2002/03	9,220	6.3%	18,783	7.8%	28,003	7.3%
2003/04	9,877	7.1%	20,022	6.6%	29,899	6.8%
2004/05	10,571	7.0%	21,299	6.4%	31,870	6.6%
2005/06	12,106	14.5%	21,631	1.6%	33,737	5.9%
2006/07	11,724	-3.2%	22,492	4.0%	34,216	1.4%

Figure G8: Number of Knee Replacements by Public and Private Sector 1997/98 - 2006/07



## Public and Private Sector by State and Territory

Figure G9: New South Wales

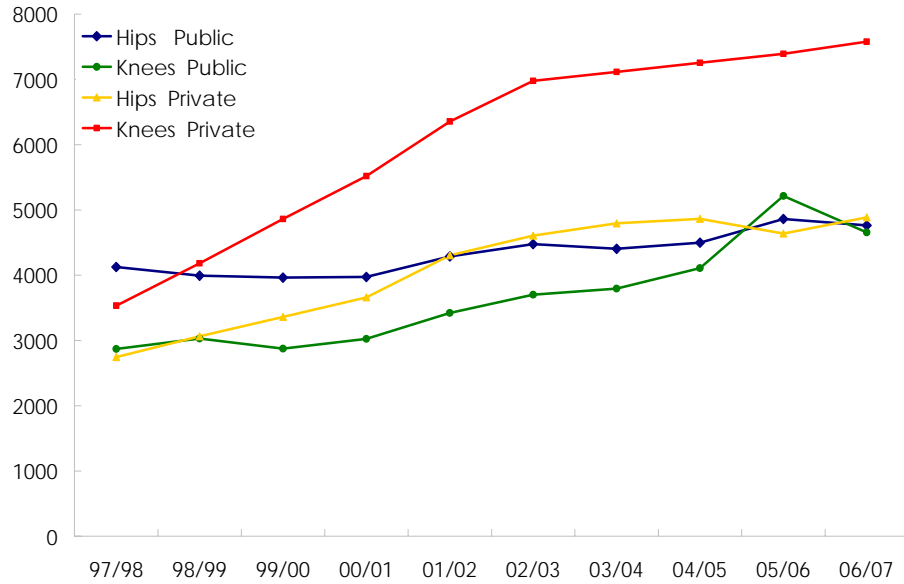


Figure G10: Victoria

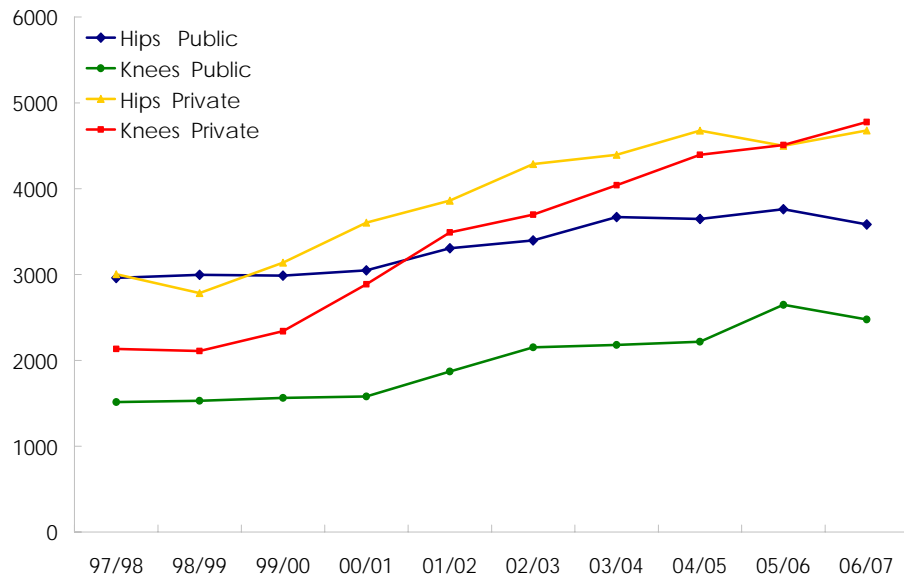


Figure G11: Queensland

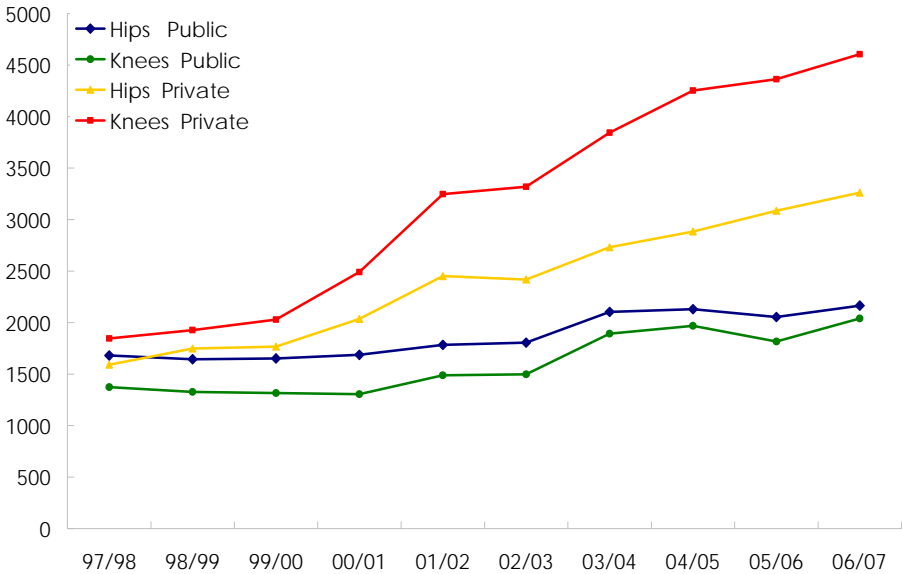


Figure G12: Western Australia

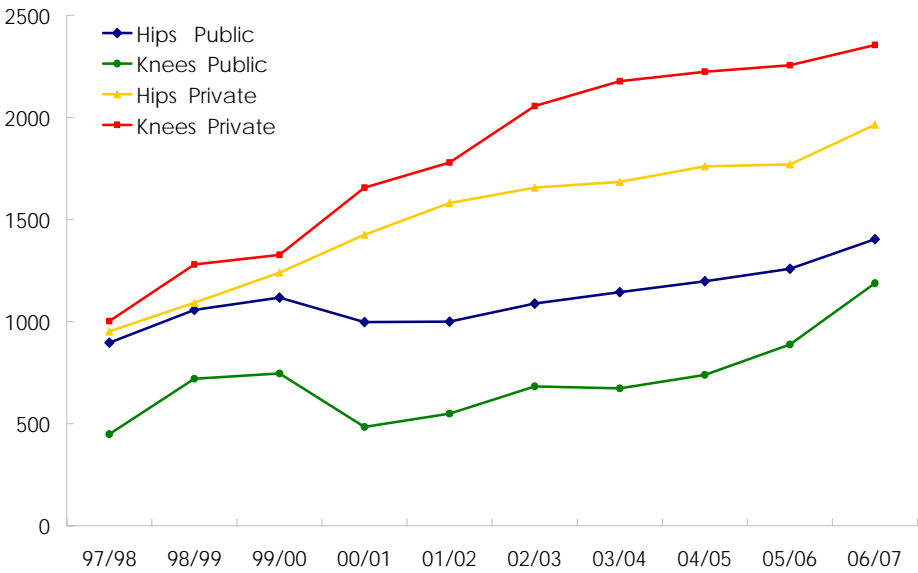


Figure G13: South Australia

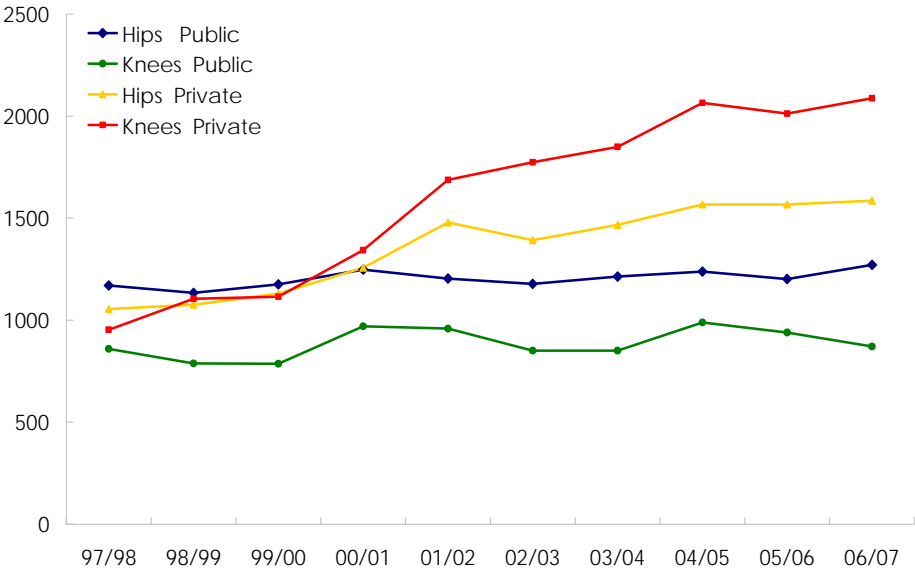


Figure G14: Tasmania

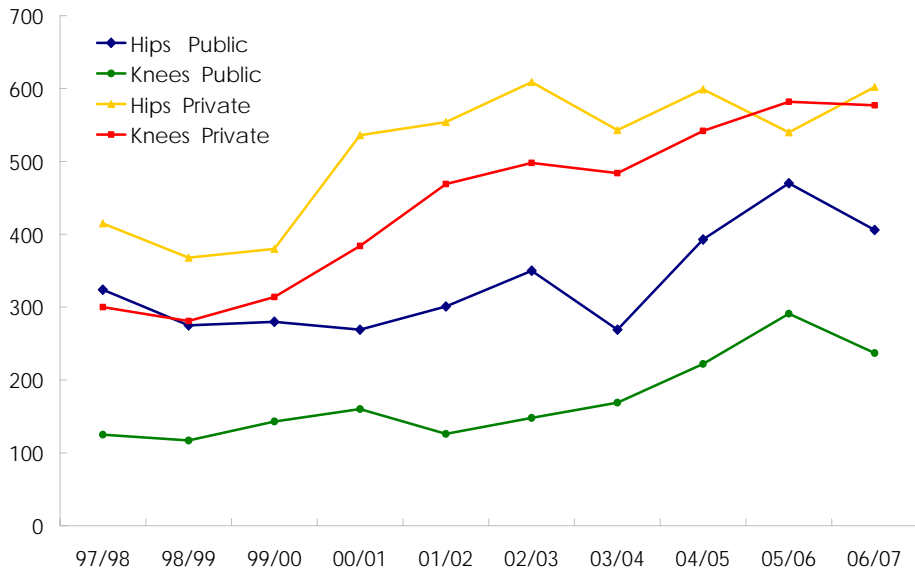
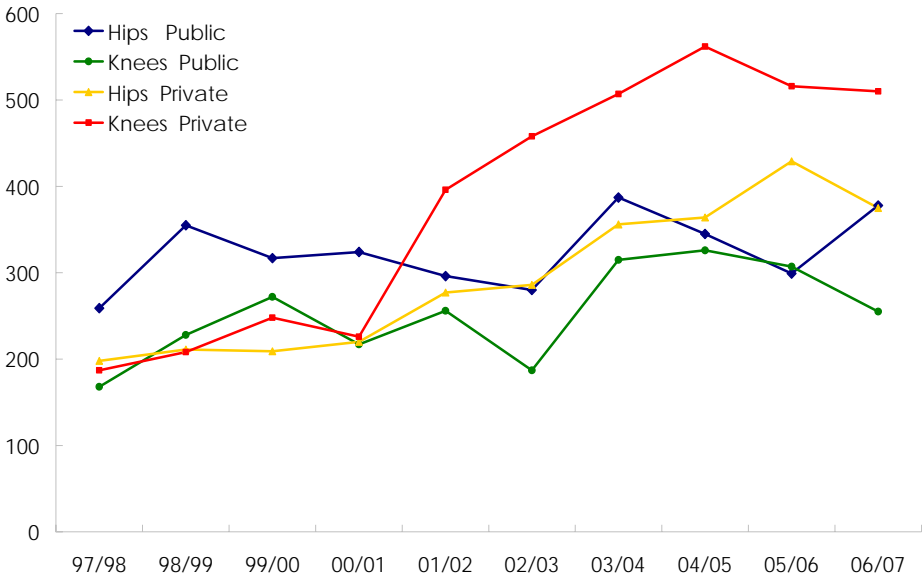


Figure G15: Australian Capital Territory/Northern Territory



## SHOULDER REPLACEMENT 2006/07

**Table G11: Number (%) of Shoulder Joint Replacements Nationally 1/7/2006 – 30/6/2007**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Shoulder Replacement</b>								
Partial	306 (36.1)	206 (32.4)	152 (27.1)	128 (44.0)	51 (25.2)	29 (60.4)	30 (51.7)	902 (34.1)
Primary Total	457 (54.0)	359 (56.4)	351 (62.7)	122 (41.9)	120 (59.4)	19 (39.6)	23 (39.7)	1,451 (54.9)
Revision/Removal	84 (9.9)	71 (11.2)	57 (10.2)	41 (14.1)	31 (15.3)	0 (0.0)	5 (8.6)	289 (10.9)
<b>All Shoulder Replacements</b>	<b>847</b> (100.0)	<b>636</b> (100.0)	<b>560</b> (100.0)	<b>291</b> (100.0)	<b>202</b> (100.0)	<b>48</b> (100.0)	<b>58</b> (100.0)	<b>2642</b> (100.0)

**Table G12: Incidence of Shoulder Replacement by State and Territory per 100,000 for 2006/07**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
	<i>ABS Population Statistics June 2007</i>							
	6889100	5205200	4182100	2105800	1584500	493300	554900	21017200
<b>Shoulder Replacement</b>								
Partial	4.4	4.0	3.6	6.1	3.2	5.9	5.4	4.3
Primary Total	6.6	6.9	8.4	5.8	7.6	3.9	4.1	6.9
Revision/Removal	1.2	1.4	1.4	1.9	2.0	0.0	0.9	1.4
<b>All Shoulder Replacements</b>	<b>12.3</b>	<b>12.2</b>	<b>13.4</b>	<b>13.8</b>	<b>12.7</b>	<b>9.7</b>	<b>10.5</b>	<b>12.6</b>

**Table G13: Number of Shoulder Replacements in the Public Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Shoulder Replacement</b>								
Partial	189	133	57	47	16	14	14	470
Primary Total	163	70	75	27	30	4	5	374
Revision/Removal	29	22	17	5	9	0	1	83
<b>All Shoulder Replacements</b>	<b>381</b>	<b>225</b>	<b>149</b>	<b>79</b>	<b>55</b>	<b>18</b>	<b>20</b>	<b>927</b>

**Table G14: Number of Shoulder Replacements in the Private Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Shoulder Replacement</b>								
Partial	117	73	95	81	35	15	16	432
Primary Total	294	289	276	95	90	15	18	1,077
Revision/Removal	55	49	40	36	22	0	4	206
<b>All Shoulder Replacements</b>	<b>466</b>	<b>411</b>	<b>411</b>	<b>212</b>	<b>147</b>	<b>30</b>	<b>38</b>	<b>1,715</b>

## ELBOW REPLACEMENT 2006/07

**Table G15: Number (%) of Elbow Joint Replacements Nationally 1/7/2006 – 30/6/2007**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Elbow Replacement</b>								
Partial	58 (43.9)	51 (46.4)	50 (61.7)	13 (44.8)	23 (57.5)	5 (100.0)	8 (80.0)	208 (51.1)
Primary Total	53 (40.2)	47 (42.7)	24 (29.6)	9 (31.0)	9 (22.5)	0 (0.0)	2 (20.0)	144 (35.4)
Revision/Removal	21 (15.9)	12 (10.9)	7 (8.6)	7 (24.1)	8 (20.0)	0 (0.0)	0 (0.0)	55 (13.5)
<b>All Elbow Replacement</b>	<b>132</b> (100.0)	<b>110</b> (100.0)	<b>81</b> (100.0)	<b>29</b> (100.0)	<b>40</b> (100.0)	<b>5</b> (100.0)	<b>10</b> (100.0)	<b>407</b> (100.0)

**Table G16: Incidence of Elbow Replacement by State and Territory per 100,000 for 2006/07**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
	<i>ABS Population Statistics June 2007</i>							
	6889100	5205200	4182100	2105800	1584500	493300	554900	21017200
<b>Elbow Replacement</b>								
Partial	0.8	1.0	1.2	0.6	1.5	1.0	1.4	1.0
Primary Total	0.8	0.9	0.6	0.4	0.6	0.0	0.4	0.7
Revision/Removal	0.3	0.2	0.2	0.3	0.5	0.0	0.0	0.3
<b>All Elbow Replacements</b>	<b>0.8</b>	<b>2.1</b>	<b>1.9</b>	<b>1.4</b>	<b>2.5</b>	<b>1.0</b>	<b>1.8</b>	<b>1.9</b>

**Table G17: Number of Elbow Replacements in the Public Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Elbow Replacement</b>								
Partial	43	35	20	6	13	4	7	128
Primary Total	29	20	2	5	6	0	2	64
Revision/Removal	8	5	4	3	7	0	0	27
<b>All Elbow Replacements</b>	<b>80</b>	<b>60</b>	<b>26</b>	<b>14</b>	<b>26</b>	<b>4</b>	<b>9</b>	<b>219</b>

**Table G18: Number of Elbow Replacements in the Private Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Elbow Replacement</b>								
Partial	15	16	30	7	10	1	1	80
Primary Total	24	27	22	4	3	0	0	80
Revision/Removal	13	7	3	4	1	0	0	28
<b>All Elbow Replacements</b>	<b>52</b>	<b>50</b>	<b>55</b>	<b>15</b>	<b>14</b>	<b>1</b>	<b>1</b>	<b>188</b>

## WRIST REPLACEMENT 2006/07

**Table G19: Number (%) of Wrist Joint Replacements Nationally 1/7/2006 – 30/6/2007**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Wrist Replacement</b>								
Partial	0 (0.0)	0 (0.0)	1 (16.7)	1 (25.0)	0 (0.0)	0 (0.0)	0 (0.0)	2 (5.5)
Primary Total	12 (92.3)	6 (85.7)	3 (50.0)	2 (50.0)	5 (83.3)	0 (0.0)	0 (0.0)	28 (77.8)
Revision/Removal	1 (7.7)	1 (14.3)	2 (33.3)	1 (25.0)	1 (16.7)	0 (0.0)	0 (0.0)	6 (16.7)
<b>All Wrist Replacement</b>	<b>13</b> (100.0)	<b>7</b> (100.0)	<b>6</b> (100.0)	<b>4</b> (100.0)	<b>6</b> (100.0)	<b>0</b> (100.0)	<b>0</b> (100.0)	<b>36</b> (100.0)

**Table G20: Incidence of Wrist Replacement by State and Territory per 100,000 for 2006/07**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
	<i>ABS Population Statistics June 2007</i>							
	6889100	5205200	4182100	2105800	1584500	493300	554900	21017200
<b>Wrist Replacement</b>								
Partial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Primary Total	0.2	0.1	0.1	0.1	0.3	0.0	0.0	0.1
Revision/Removal	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
<b>All Wrist Replacements</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>

**Table G21: Number of Wrist Replacements in the Public Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Wrist Replacement</b>								
Partial	0	0	1	1	0	0	0	2
Primary Total	3	2	0	0	3	0	0	8
Revision/Removal	0	0	0	0	1	0	0	1
<b>All Wrist Replacements</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>11</b>

**Table G22: Number of Wrist Replacements in the Private Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Wrist Replacement</b>								
Partial	0	0	0	0	0	0	0	0
Primary Total	9	4	3	2	2	0	0	20
Revision/Removal	1	1	2	1	0	0	0	5
<b>All Wrist Replacements</b>	<b>10</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>25</b>

## ANKLE REPLACEMENT 2006/07

Table G23: Number (%) of Ankle Joint Replacements Nationally 1/7/2006 – 30/6/2007

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Ankle Replacement</b>								
Primary Total	44 (100.0)	87 (100.0)	9 (100.0)	36 (100.0)	8 (100.0)	4 (100.0)	10 (100.0)	198 (100.0)
<b>Primary Total Ankle</b>	<b>44</b>	<b>87</b>	<b>9</b>	<b>36</b>	<b>8</b>	<b>4</b>	<b>10</b>	<b>198</b>

Table G24: Incidence of Ankle Replacement by State and Territory per 100,000 for 2006/07

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
	<i>ABS Population Statistics June 2007</i>							
	6889100	5205200	4182100	2105800	1584500	493300	554900	21017200
<b>Ankle Replacement</b>								
Primary Total	0.6	1.7	0.2	1.7	0.5	0.8	1.8	0.9
<b>Primary Total Ankle</b>	<b>0.6</b>	<b>1.7</b>	<b>0.2</b>	<b>1.7</b>	<b>0.5</b>	<b>0.8</b>	<b>1.8</b>	<b>0.9</b>

Table G25: Number of Ankle Replacements in the Public Sector by State and Territory

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Ankle Replacement</b>								
Primary Total	7	18	1	8	3	0	2	39
<b>Primary Total Ankle</b>	<b>7</b>	<b>18</b>	<b>1</b>	<b>8</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>39</b>

Table G26: Number of Ankle Replacements in the Private Sector by State and Territory

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Ankle Replacement</b>								
Primary Total	37	69	8	28	5	4	8	159
<b>Primary Total Ankle</b>	<b>37</b>	<b>69</b>	<b>8</b>	<b>28</b>	<b>5</b>	<b>4</b>	<b>8</b>	<b>159</b>

Note: There are no ICD-10-AM codes assigned to Partial and Revision Ankle Replacement, therefore only data on Primary Total Ankle Replacement are available for presentation in this report.

## SPINAL DISC REPLACEMENT 2006/07

**Table G27: Number (%) of Spinal Disc Replacements Nationally 1/7/2006 – 30/6/2007**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Spinal Disc Replacement</b>								
Insertion of Disc (1 Level)	125 (71.8)	35 (79.5)	138 (69.7)	69 (83.1)	9 (90.0)	13 (72.2)	2 (66.7)	391 (73.8)
Insertion of Disc (> 2 Levels)	26 (14.9)	6 (13.6)	38 (19.2)	11 (13.3)	0 (0.0)	3 (16.7)	1 (33.3)	85 (16.0)
Revision of Disc (1 Level)	19 (10.9)	2 (4.5)	15 (7.6)	3 (3.6)	1 (10.0)	2 (11.1)	0 (0.0)	42 (7.9)
Revision of Disc (> 2 Levels)	4 (2.3)	1 (2.3)	7 (3.5)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	12 (2.3)
<b>All Spinal Disc Replacement</b>	<b>174</b> (100.0)	<b>44</b> (100.0)	<b>198</b> (100.0)	<b>83</b> (100.0)	<b>10</b> (100.0)	<b>18</b> (100.0)	<b>3</b> (100.0)	<b>530</b> (100.0)

**Table G28: Incidence of Spinal Disc Replacement by State and Territory per 100,000 for 2006/07**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
	<i>ABS Population Statistics June 2007</i>							
	6889100	5205200	4182100	2105800	1584500	493300	554900	21017200
<b>Spinal Disc Replacement</b>								
Insertion of Disc (1 Level)	1.8	0.7	3.3	3.3	0.6	2.6	0.4	1.9
Insertion of Disc (> 2 Levels)	0.4	0.1	0.9	0.5	0.0	0.6	0.2	0.4
Revision of Disc (1 Level)	0.3	0.0	0.4	0.1	0.1	0.4	0.0	0.2
Revision of Disc (> 2 Levels)	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.1
<b>All Spinal Disc Replacements</b>	<b>2.5</b>	<b>0.8</b>	<b>4.7</b>	<b>3.9</b>	<b>0.6</b>	<b>3.6</b>	<b>0.5</b>	<b>2.5</b>

**Table G29: Number of Spinal Disc Replacements in the Public Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Spinal Disc Replacement</b>								
Insertion of Disc (1 Level)	19	5	10	2	3	1	2	42
Insertion of Disc (> 2 Levels)	0	0	1	0	0	0	1	2
Revision of Disc (1 Level)	3	1	0	0	0	0	0	4
Revision of Disc (> 2 Levels)	1	0	1	0	0	0	0	2
<b>All Spinal Disc Replacements</b>	<b>23</b>	<b>6</b>	<b>12</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>50</b>

**Table G30: Number of Spinal Disc Replacements in the Private Sector by State and Territory**

Type of Joint Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	NAT
<b>Spinal Disc Replacement</b>								
Insertion of Disc (1 Level)	106	30	128	67	6	12	0	349
Insertion of Disc (> 2 Levels)	26	6	37	11	0	3	0	83
Revision of Disc (1 Level)	16	1	15	3	1	2	0	38
Revision of Disc (> 2 Levels)	3	1	6	0	0	0	0	10
<b>All Spinal Disc Replacements</b>	<b>151</b>	<b>38</b>	<b>186</b>	<b>81</b>	<b>7</b>	<b>17</b>	<b>0</b>	<b>480</b>