

Australian Orthopaedic Association National Joint Replacement Registry

2023 SUPPLEMENTARY REPORT

Analysis of State and Territory Health Data



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AUSTRALIAN
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Australian
Orthopaedic
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National
Joint
Replacement
Registry

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Analysis of State and Territory Health Data

2023 Supplementary Report

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Australian Orthopaedic Association
National Joint Replacement Registry

**Analysis of State and Territory Health Data
2023 Supplementary Report**

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The Registry greatly appreciates the participation of all joint replacement patients throughout Australia. Their contribution allows ongoing improvements in arthroplasty outcomes to be achieved.

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Introduction

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.

Wrist replacement procedures for South Australia (SA) and Western Australia (WA) have also been combined due to small numbers.

This report provides information on joint replacement for the financial year 1 July 2021 to 30 June 2022. It also includes long term data from as early as 1994/95 which provides a national perspective on the changing rates of hip and knee replacement since that time.

Hip and Knee Replacement

Table G1 Number and Percentage of Hip and Knee Replacements in 2021/22 by State/Territory

Replacement Type	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Hip Replacement								
Primary Partial	1,844	1,575	1,405	605	651	155	145	6,380
	11.8%	12.5%	14.4%	10.6%	13.4%	7.7%	9.9%	12.3%
Primary Total	12,559	10,116	7,603	4,659	3,726	1,775	1,175	41,613
	80.7%	80.4%	77.7%	81.9%	76.9%	88.2%	79.8%	80.1%
Revision	1,160	898	771	422	470	82	152	3,955
	7.5%	7.1%	7.9%	7.4%	9.7%	4.1%	10.3%	7.6%
TOTAL	15,563	12,589	9,779	5,686	4,847	2,012	1,472	51,948
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Knee Replacement								
Patella/Trochlear	49	61	53	24	25	14	6	232
	0.2%	0.5%	0.4%	0.4%	0.4%	0.6%	0.3%	0.4%
Unicompartmental	551	753	754	569	194	181	93	3,095
	2.7%	6.3%	5.5%	8.4%	3.2%	7.2%	5.1%	4.9%
Primary Total	18,318	10,173	11,977	5,672	5,261	2,168	1,612	55,181
	90.8%	85.5%	87.4%	83.6%	86.4%	86.5%	88.0%	87.6%
Revision	1,259	910	926	521	609	143	121	4,489
	6.2%	7.6%	6.8%	7.7%	10.0%	5.7%	6.6%	7.1%
TOTAL	20,177	11,897	13,710	6,786	6,089	2,506	1,832	62,997
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
OVERALL TOTAL	35,740	24,486	23,489	12,472	10,936	4,518	3,304	114,945

Table G2 Number of Hip and Knee Replacements and Percentage Change between 2020/21 and 2021/22

Replacement Type	2020/21	2021/22	% Change
Hip Replacement			
Primary Partial	6267	6380	1.8
Primary Total	44550	41613	-6.6
Revision	4268	3955	-7.3
TOTAL	55085	51948	-5.7
Knee Replacement			
Patella/Trochlear	277	232	-16.2
Unicompartmental	3761	3095	-17.7
Primary Total	64901	55181	-15.0
Revision	5009	4489	-10.4
TOTAL	73948	62997	-14.8
OVERALL TOTAL	129033	114945	-10.9

Table G3 Number of Hip and Knee Replacements and Percentage Change between 2020/21 and 2021/22 by State/Territory

State/Territory	2020/21	2021/22	% Change
NSW	44774	35740	-20.2
VIC	25746	24486	-4.9
QLD	24921	23489	-5.7
WA	14957	12472	-16.6
SA	11461	10936	-4.6
TAS	4296	4518	5.2
ACT/NT	2878	3304	14.8
TOTAL	129033	114945	-10.9

Figure G1 Hip and Knee Replacement between 2020/21 and 2021/22 by State/Territory

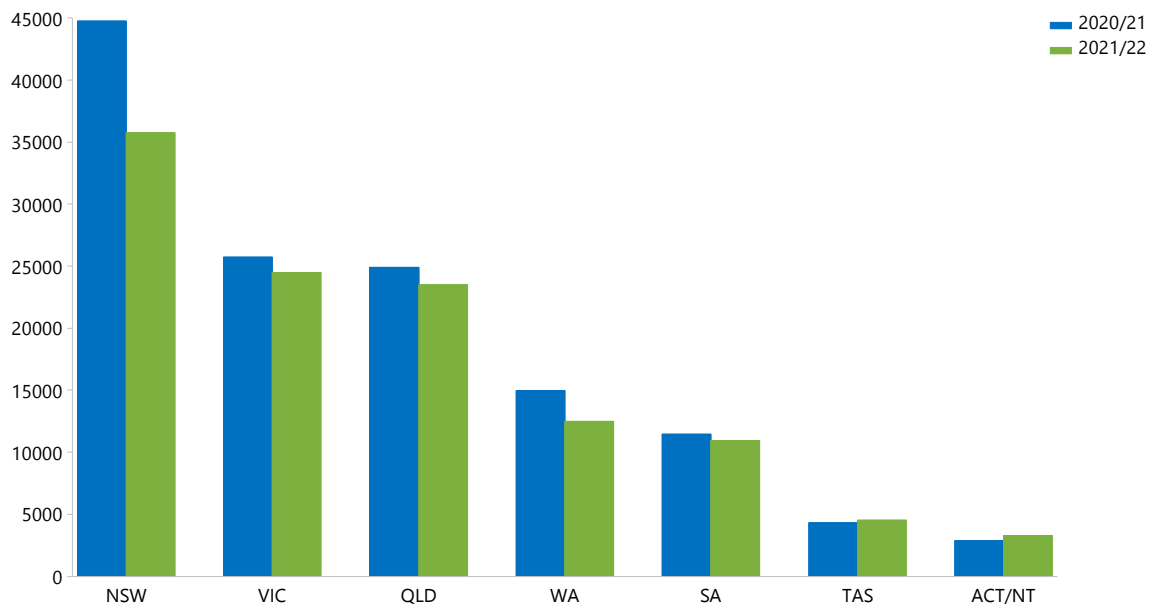


Table G4 Number of Hip and Knee Replacements and Percentage Change from Previous Year

Year	Hip Replacement		Knee Replacement		Total	
	N	% Change	N	% Change	N	% Change
1994/95	18,635	N/A	13,371	N/A	32,006	N/A
1995/96	19,132	2.7	14,542	8.8	33,674	5.2
1996/97	20,127	5.2	15,456	6.3	35,583	5.7
1997/98	21,379	6.2	17,317	12.0	38,696	8.7
1998/99	21,800	2.0	18,832	8.7	40,632	5.0
1999/00	22,717	4.2	19,936	5.9	42,653	5.0
2000/01	24,281	6.9	22,230	11.5	46,511	9.0
2001/02	26,689	9.9	26,089	17.4	52,778	13.5
2002/03	27,833	4.3	28,003	7.3	55,836	5.8
2003/04	29,165	4.8	29,899	6.8	59,064	5.8
2004/05	30,166	3.4	31,870	6.6	62,036	5.0
2005/06	30,440	0.9	33,737	5.9	64,177	3.5
2006/07	31,508	3.5	35,445	5.1	66,953	4.3
2007/08	32,744	3.9	38,052	7.4	70,796	5.7
2008/09	33,541	2.4	39,364	3.4	72,905	3.0
2009/10	35,580	6.1	41,967	6.6	77,547	6.4
2010/11	37,096	4.3	45,571	8.6	82,667	6.6
2011/12	37,964	2.3	47,882	5.1	85,846	3.8
2012/13	39,260	3.4	49,551	3.5	88,811	3.5
2013/14	41,926	6.8	53,368	7.7	95,294	7.3
2014/15	44,064	5.1	56,250	5.4	100,314	5.3
2015/16	46,061	4.5	58,463	3.9	104,524	4.2
2016/17	47,784	3.7	62,575	7.0	110,359	5.6
2017/18	49,100	2.8	64,877	3.7	113,977	3.3
2018/19	50,095	2.0	65,654	1.2	115,749	1.6
2019/20	48,063	-4.1	60,007	-8.6	108,070	-6.6
2020/21	55,085	14.6	73,948	23.2	129,033	19.4
2021/22	51,948	-5.7	62,997	-14.8	114,945	-10.9
*1994/95 to 2021/22		178.8		371.1		259.1

Note: N/A indicates not applicable

Bilaterals are counted as two replacements from 2000/01

* % change for entire period 1994/95 to 2021/22 is relative to 1994/95

Figure G2 Number of Hip and Knee Replacements from 1994/95 to 2021/22

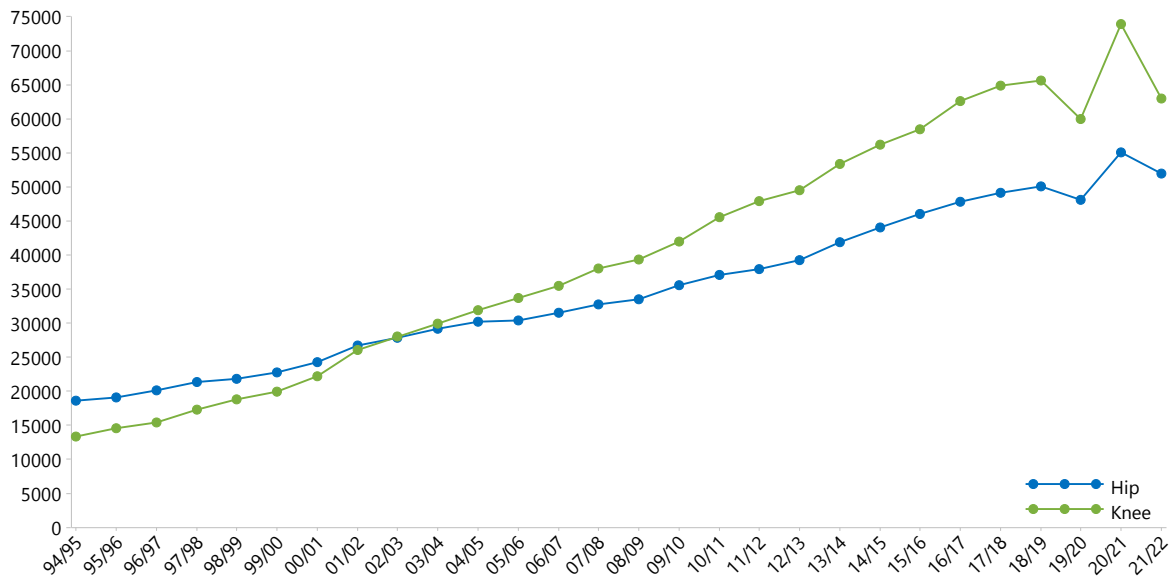


Table G5 Percentage Change between 1994/95 and 2021/22 for Hip and Knee Replacement by State/Territory

Replacement Type	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Hip Replacement								
Primary Partial	28.2	23.0	119.5	43.7	25.9	34.8	145.8	42.7
Primary Total	223.9	223.1	390.5	356.3	217.4	318.6	383.5	264.4
Revision	28.6	21.4	95.7	62.3	44.2	13.9	210.2	44.2
TOTAL	150.3	144.4	278.4	234.1	140.3	229.3	319.4	178.8
Knee Replacement								
Primary Total	298.9	300.8	453.5	401.1	357.5	632.4	920.3	358.7
Primary (all primaries)	312.0	332.9	490.8	453.4	376.5	698.3	982.9	386.4
Revision	149.3	232.1	295.7	280.3	351.1	853.3	195.1	234.8
TOTAL	295.9	323.1	471.7	434.8	373.9	705.8	820.6	371.1
OVERALL TOTAL	215.9	207.5	371.5	319.8	231.2	390.0	500.7	259.1

Note: Patella/trochlear and unicompartmental data are included in the 1994/95 year in the primary knee numbers. Separate ICD 10 codes for patella/trochlear and unicompartmental were introduced in 1999/00. The Registry believes that the numbers of patella/trochlear and unicompartmental joint replacement undertaken in 1994/95 would have been small. The above table shows percentage changes between 1994/95 primary knee (includes patella/trochlear and unicompartmental) and 2021/22. '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 in 2021/22 by State/Territory per 100,000

Replacement Type	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
<i>ABS Population June 2022</i>	<i>8238800</i>	<i>6704300</i>	<i>5378300</i>	<i>2825200</i>	<i>1834300</i>	<i>571600</i>	<i>711000</i>	<i>26268400</i>
Hip Replacement								
Primary Partial	22.4	23.5	26.1	21.4	35.5	27.1	20.4	24.3
Primary Total	152.4	150.9	141.4	164.9	203.1	310.5	165.3	158.4
Revision	14.1	13.4	14.3	14.9	25.6	14.3	21.4	15.1
TOTAL	188.9	187.8	181.8	201.3	264.2	352.0	207.0	197.8
Knee Replacement								
Patella/Trochlear	0.6	0.9	1.0	0.8	1.4	2.4	0.8	0.9
Unicompartmental	6.7	11.2	14.0	20.1	10.6	31.7	13.1	11.8
Primary Total	222.3	151.7	222.7	200.8	286.8	379.3	226.7	210.1
Revision	15.3	13.6	17.2	18.4	33.2	25.0	17.0	17.1
TOTAL	244.9	177.5	254.9	240.2	332.0	438.4	257.7	239.8
OVERALL TOTAL	433.8	365.2	436.7	441.5	596.2	790.4	464.7	437.6

Note: The incidence for each year may differ slightly from previous years due to updating of the Australian population statistics. The Australian population includes Cocos (Keeling) Islands, Christmas Island and Jervis Bay Territory. The values of hip and knee replacement rates per 100,000 population may not equal total values due to rounding. The population statistics were obtained from the Australian Bureau of Statistics. <https://www.abs.gov.au/statistics/people/population/national-state-and-territory-population/latest-release>

Figure G3 Incidence of Hip and Knee Replacement in 2021/22 by State/Territory

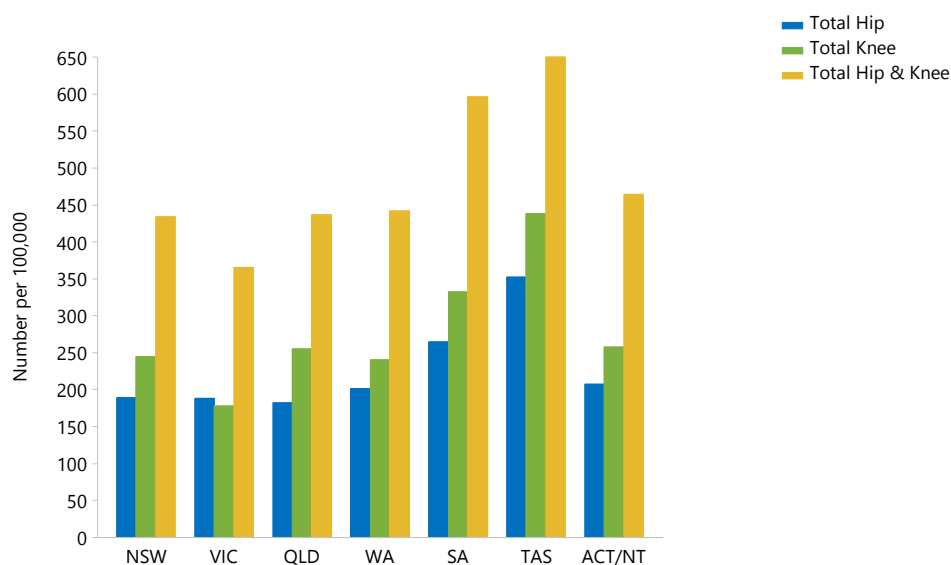


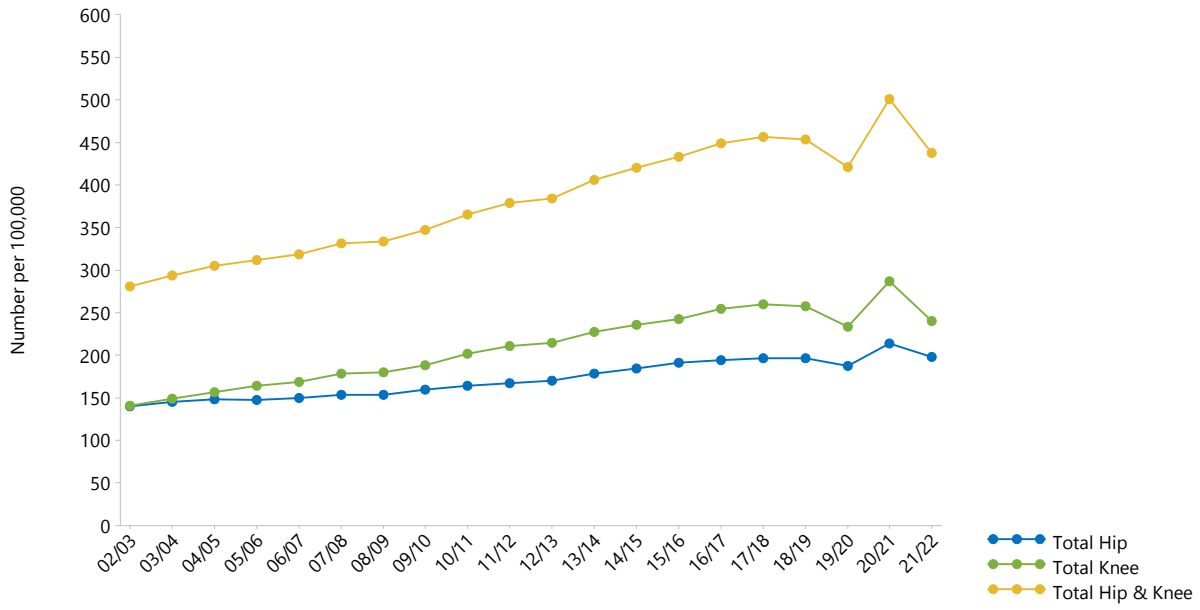
Table G7 Incidence of Hip and Knee Replacement per 100,000 between 2002/03 and 2021/22

Replacement Type	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
<i>ABS Population</i>	<i>19881500</i>	<i>20111300</i>	<i>20328600</i>	<i>20605500</i>	<i>21017200</i>	<i>21374000</i>	<i>21874900</i>	<i>22342400</i>	<i>22620600</i>
Hip Replacement									
Primary Partial	28.5	29.2	28.0	27.3	27.1	26.5	25.8	25.7	25.9
Primary Total	93.2	96.4	101.7	102.2	104.5	108.9	109.7	115.2	118.4
Revision	18.3	19.4	18.6	18.3	18.3	17.8	17.8	18.3	19.7
TOTAL	140.0	145.0	148.4	147.7	149.9	153.2	153.3	159.2	164.0
Knee Replacement									
Patella/Trochlear	1.5	1.5	2.2	2.5	2.1	2.0	2.0	2.0	2.0
Unicompartmental	17.9	17.5	16.0	16.7	15.6	14.4	13.2	12.8	10.3
Primary Total	108.3	115.0	125.1	131.3	137.2	147.2	151.7	159.8	173.2
Revision	13.1	14.6	13.5	13.2	13.8	14.4	13.1	13.2	15.9
TOTAL	140.8	148.7	156.8	163.7	168.6	178.0	180.0	187.8	201.5
OVERALL TOTAL	280.8	293.7	305.2	311.5	318.6	331.2	333.3	347.1	365.5

Replacement Type	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
<i>ABS Population</i>	<i>22683600</i>	<i>23130900</i>	<i>23490700</i>	<i>23877900</i>	<i>24127200</i>	<i>24598900</i>	<i>24992400</i>	<i>25522169</i>	<i>25689702</i>	<i>25766600</i>
Hip Replacement										
Primary Partial	23.7	24.7	25.3	25.8	26.2	25.3	24.4	23.6	23.8	24.3
Primary Total	122.3	125.7	134.3	139.9	146.0	151.5	155.1	155.4	147.3	172.9
Revision	21.4	19.3	18.9	18.8	18.7	17.4	17.0	17.2	16.0	16.6
TOTAL	167.4	169.7	178.5	184.5	190.9	194.3	196.5	196.3	187.1	213.8
Knee Replacement										
Patella/Trochlear	2.0	1.9	1.3	1.0	1.2	1.1	1.2	1.1	0.9	1.1
Unicompartmental	9.8	8.7	8.8	9.9	11.0	12.7	14.4	14.0	12.9	14.6
Primary Total	183.2	187.6	199.4	207.3	212.3	222.8	225.3	222.8	201.4	251.9
Revision	16.1	16.1	17.6	17.4	17.8	17.8	18.7	19.3	18.4	19.4
TOTAL	211.1	214.2	227.2	235.6	242.3	254.4	259.6	257.2	233.6	287.0
OVERALL TOTAL	378.4	383.9	405.7	420.1	433.2	448.6	456.0	453.5	420.7	500.8

Note: The incidence for each year may differ slightly from previous years due to updates from the Australian population statistics. The Australian population includes Cocos (Keeling) Islands, Christmas Island and Jervis Bay Territory. The population statistics were obtained from the Australian Bureau of Statistics. <https://www.abs.gov.au/statistics/people/population/national-state-and-territory-population/latest-release>

Figure G4 Incidence of Hip and Knee Replacement per 100,000 between 1999/00 and 2021/22



REVISION HIP AND KNEE REPLACEMENT

Figure G5 Percentage of Revision Hip Replacement of all Hip Replacements in 2021/22 by State/Territory

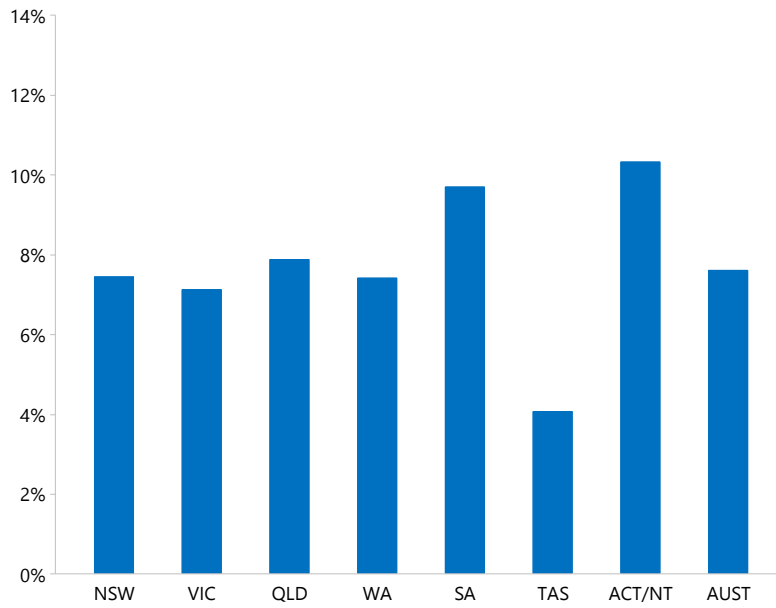
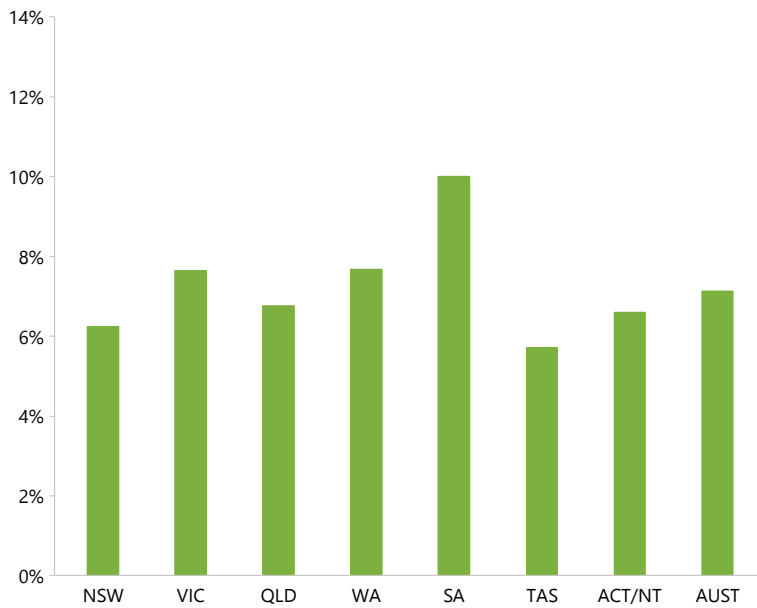


Figure G6 Percentage of Revision Knee Replacement of all Knee Replacements in 2021/22 by State/Territory



HIP AND KNEE REPLACEMENT BY PUBLIC AND PRIVATE SECTOR

Table G8 Hip Replacement in 2021/22 by Public and Private Sector and State/Territory

Hip Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Primary Partial	109	234	263	78	115	16	1	816
Primary Total	8,754	7,534	5,903	3,434	2,878	1,287	815	30,605
Revision	566	533	405	204	288	37	42	2,075
TOTAL PRIVATE	9,429	8,301	6,571	3,716	3,281	1,340	858	33,496
Public								
Primary Partial	1,735	1,341	1,142	527	536	139	144	5,564
Primary Total	3,805	2,582	1,700	1,225	848	488	360	11,008
Revision	594	365	366	218	182	45	110	1,880
TOTAL PUBLIC	6,134	4,288	3,208	1,970	1,566	672	614	18,452

Note: As private hospital data is unavailable, an estimate has been applied based on AOANJRR data in ACT from 2016-2021 and WA from 2020-21

Table G9 Knee Replacement in 2021/22 by Public and Private Sector and State/Territory

Knee Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Patella/Trochlear	43	57	50	23	21	14	5	213
Unicompartmental	456	715	698	487	168	164	62	2,750
Primary Total	13,473	7,938	9,874	4,642	4,279	1,616	1,140	42,962
Revision	836	712	662	365	473	106	64	3,218
TOTAL PRIVATE	14,808	9,422	11,284	5,517	4,941	1,900	1,271	49,143
Public								
Patella/Trochlear	6	4	3	1	4	0	1	19
Unicompartmental	95	38	56	82	26	17	31	345
Primary Total	4,845	2,235	2,103	1,030	982	552	472	12,219
Revision	423	198	264	156	136	37	57	1,271
TOTAL PUBLIC	5,369	2,475	2,426	1,269	1,148	606	561	13,854

Note: As private hospital data is unavailable, an estimate has been applied based on AOANJRR data in ACT from 2016-2021 and WA from 2020-21

Table G10 Percentage Change from Previous Year for Hip and Knee Replacement by Public and Private Sector

Year	Public		Private		Total	
	N	%	N	%	N	%
1999/00	19,193	N/A	23,460	N/A	42,653	N/A
2000/01	19,256	0.3	27,255	16.2	46,511	9.0
2001/02	20,852	8.3	31,926	17.1	52,778	13.5
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	26,079	0.2	40,874	7.1	66,953	4.3
2007/08	26,880	3.1	43,916	7.4	70,796	5.7
2008/09	27,417	2.0	45,488	3.6	72,905	3.0
2009/10	28,990	5.7	48,557	6.7	77,547	6.4
2010/11	30,052	3.7	52,615	8.4	82,667	6.6
2011/12	30,119	0.2	55,727	5.9	85,846	3.8
2012/13	31,066	3.1	57,745	3.6	88,811	3.5
2013/14	33,957	9.3	61,337	6.2	95,294	7.3
2014/15	34,784	2.4	65,530	6.8	100,314	5.3
2015/16	36,048	3.6	68,476	4.5	104,524	4.2
2016/17	38,360	6.4	71,999	5.1	110,359	5.6
2017/18	39,415	2.8	74,562	3.6	113,977	3.3
2018/19	40,075	1.7	75,674	1.5	115,749	1.6
2019/20	34,783	-13.2	73,287	-3.2	108,070	-6.6
2020/21	40,417	16.2	88,616	20.9	129,033	19.4
2021/22	32,306	-20.1	82,639	-6.7	114,945	-10.9

Note: As private hospital data is unavailable, an estimate has been applied based on AOANJRR data in ACT from 2016-2021 and WA from 2020-21

Figure G7 Number of Hip and Knee Replacements in 2021/22 by State/Territory and Public/Private Sector

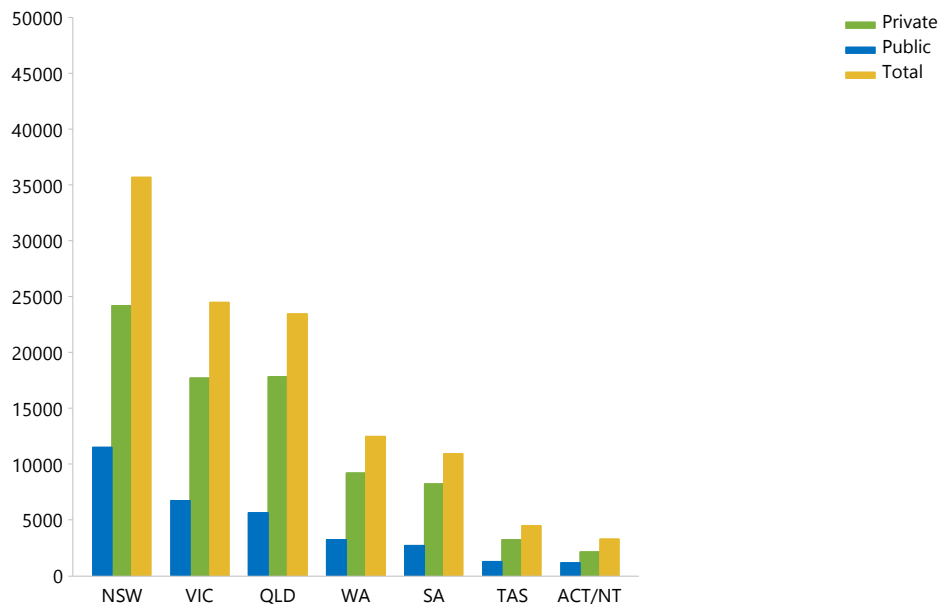


Table G11 Percentage Change from Previous Year for Hip Replacement by Public and Private Sector

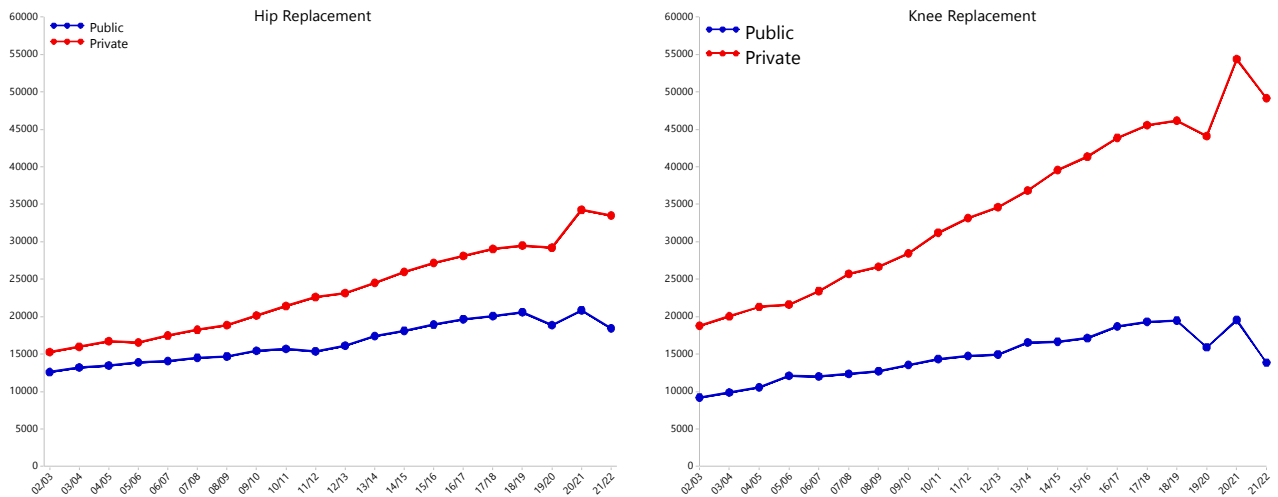
Year	Public		Private		Total	
	N	%	N	%	N	%
1999/00	11,493	N/A	11,224	N/A	22,717	N/A
2000/01	11,543	0.4	12,738	13.5	24,281	6.9
2001/02	12,179	5.5	14,510	13.9	26,689	9.9
2002/03	12,577	3.3	15,256	5.1	27,833	4.3
2003/04	13,193	4.9	15,972	4.7	29,165	4.8
2004/05	13,451	2.0	16,715	4.7	30,166	3.4
2005/06	13,909	3.4	16,531	-1.1	30,440	0.9
2006/07	14,051	1.0	17,457	5.6	31,508	3.5
2007/08	14,520	3.3	18,224	4.4	32,744	3.9
2008/09	14,693	1.2	18,848	3.4	33,541	2.4
2009/10	15,452	5.2	20,128	6.8	35,580	6.1
2010/11	15,701	1.6	21,395	6.3	37,096	4.3
2011/12	15,373	-2.1	22,591	5.6	37,964	2.3
2012/13	16,108	4.8	23,152	2.5	39,260	3.4
2013/14	17,418	8.1	24,508	5.9	41,926	6.8
2014/15	18,112	4.0	25,952	5.9	44,064	5.1
2015/16	18,922	4.5	27,139	4.6	46,061	4.5
2016/17	19,668	3.9	28,116	3.6	47,784	3.7
2017/18	20,090	2.1	29,010	3.2	49,100	2.8
2018/19	20,593	2.5	29,502	1.7	50,095	2.0
2019/20	18,877	-8.3	29,186	-1.1	48,063	-4.1
2020/21	20,849	10.4	34,236	17.3	55,085	14.6
2021/22	18,452	-11.5	33,496	-2.2	51,948	-5.7

Note: As private hospital data is unavailable, an estimate has been applied based on AOANJRR data in ACT from 2016-2021 and WA from 2020-21

Table G12 Percentage Change from Previous Year for Knee Replacement by Public and Private Sector

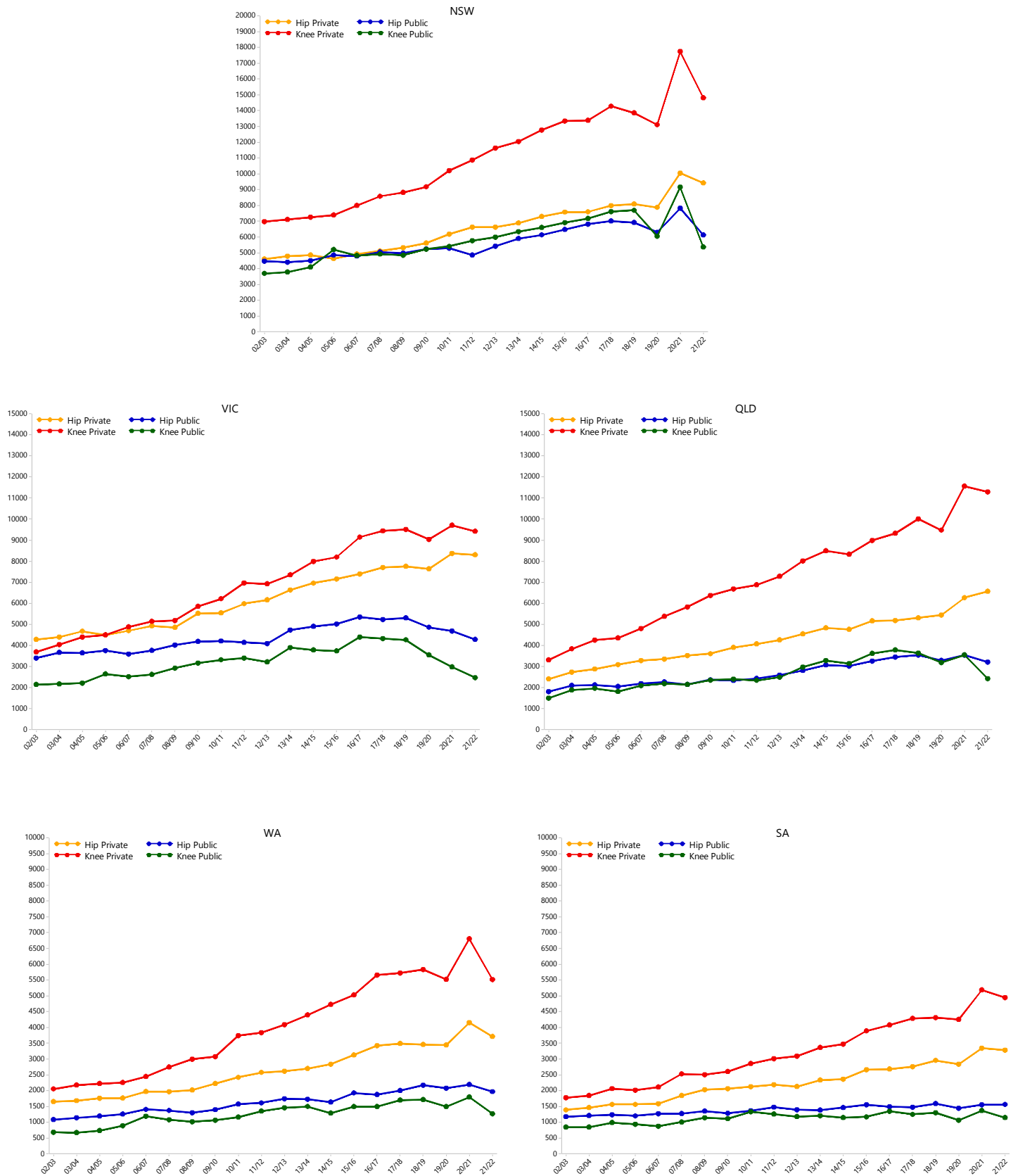
Year	Public		Private		Total	
	N	%	N	%	N	%
1999/00	7,700	N/A	12,236	N/A	19,936	N/A
2000/01	7,713	0.2	14,517	18.6	22,230	11.5
2001/02	8,673	12.4	17,416	20.0	26,089	17.4
2002/03	9,220	6.3	18,783	7.8	28,003	7.3
2003/04	9,877	7.1	20,022	6.6	29,899	6.8
2004/05	10,571	7.0	21,299	6.4	31,870	6.6
2005/06	12,106	14.5	21,631	1.6	33,737	5.9
2006/07	12,028	-0.6	23,417	8.3	35,445	5.1
2007/08	12,360	2.8	25,692	9.7	38,052	7.4
2008/09	12,724	2.9	26,640	3.7	39,364	3.4
2009/10	13,538	6.4	28,429	6.7	41,967	6.6
2010/11	14,351	6.0	31,220	9.8	45,571	8.6
2011/12	14,746	2.8	33,136	6.1	47,882	5.1
2012/13	14,958	1.4	34,593	4.4	49,551	3.5
2013/14	16,539	10.6	36,829	6.5	53,368	7.7
2014/15	16,672	0.8	39,578	7.5	56,250	5.4
2015/16	17,126	2.7	41,337	4.4	58,463	3.9
2016/17	18,692	9.1	43,883	6.2	62,575	7.0
2017/18	19,325	3.4	45,552	3.8	64,877	3.7
2018/19	19,482	0.8	46,172	1.4	65,654	1.2
2019/20	15,906	-18.4	44,101	-4.5	60,007	-8.6
2020/21	19,568	23.0	54,380	23.3	73,948	23.2
2021/22	13,854	-29.2	49,143	-9.6	62,997	-14.8

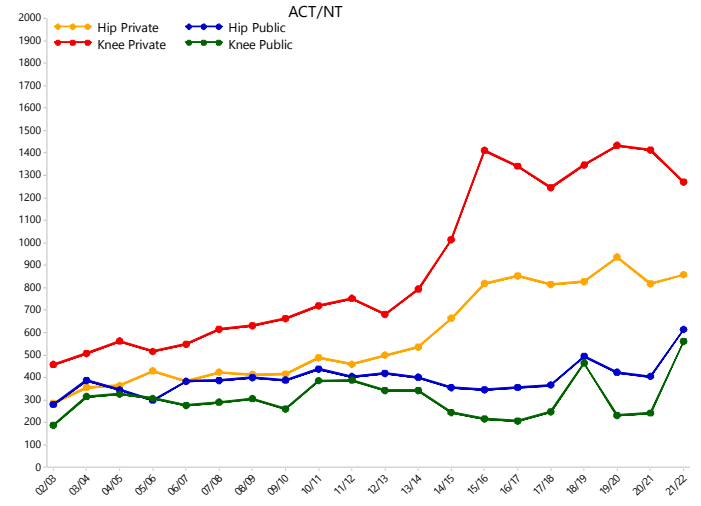
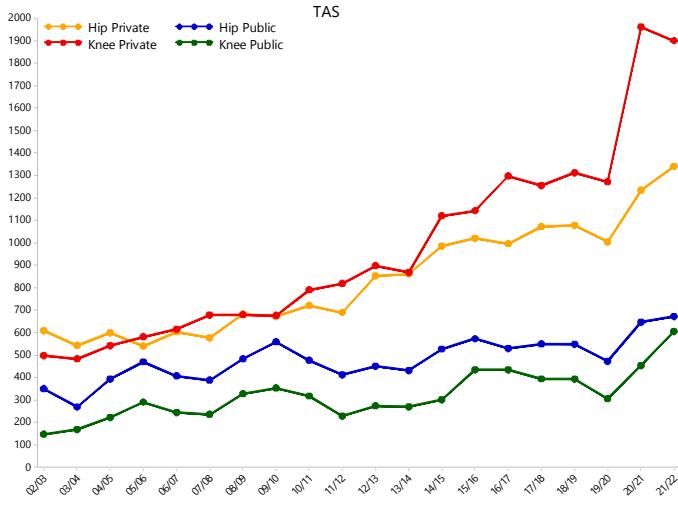
Figure G8 Number of Hip and Knee Replacements by Public and Private Sector and Year



PUBLIC AND PRIVATE SECTOR BY STATE/TERRITORY

Figure G9 Hip and Knee Replacement by Hospital Sector and State/Territory





Shoulder Replacement 2021/22

Table G13 Number and Percentage of Shoulder Replacements in 2021/22 by State/Territory

Shoulder Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Primary Partial	76	37	55	10	17	4	4	203
	2.9%	2.3%	2.7%	0.9%	2.3%	1.6%	1.9%	2.4%
Primary Total	2,301	1,416	1,767	980	666	240	174	7,544
	89.0%	87.8%	88.1%	90.0%	88.4%	94.1%	84.5%	88.7%
Revision	209	159	183	99	70	11	28	759
	8.1%	9.9%	9.1%	9.1%	9.3%	4.3%	13.6%	8.9%
TOTAL	2,586	1,612	2,005	1,089	753	255	206	8,506
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table G14 Incidence of Shoulder Replacement in 2021/22 by State/Territory per 100,000

Shoulder Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
<i>ABS Population June 2022</i>	<i>8238800</i>	<i>6704300</i>	<i>5378300</i>	<i>2825200</i>	<i>1834300</i>	<i>571600</i>	<i>711000</i>	<i>26268400</i>
Shoulder Replacement								
Primary Partial	0.9	0.6	1.0	0.4	0.9	0.7	0.6	0.8
Primary Total	27.9	21.1	32.9	34.7	36.3	42.0	24.5	28.7
Revision	2.5	2.4	3.4	3.5	3.8	1.9	3.9	2.9
TOTAL	31.4	24.0	37.3	38.5	41.1	44.6	29.0	32.4

Table G15 Shoulder Replacement in 2021/22 by Public and Private Sector and State/Territory

Shoulder Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Primary Partial	49	21	34	4	9	2	1	120
Primary Total	1,716	1,134	1,473	772	548	171	124	5,938
Revision	120	118	116	64	45	6	10	479
TOTAL PRIVATE	1,885	1,273	1,623	840	602	179	135	6,537
Public								
Primary Partial	27	16	21	6	8	2	3	83
Primary Total	585	282	294	208	118	69	50	1,606
Revision	89	41	67	35	25	5	18	280
TOTAL PUBLIC	701	339	382	249	151	76	71	1,969

Table G16 Number of Shoulder Replacements and Percentage Change between 2020/21 and 2021/22

Shoulder Replacement	2020/21	2021/22	% Change
Primary Partial	238	203	-14.7
Primary Total	8,228	7,544	-8.3
Revision	796	759	-4.6
TOTAL	9,262	8,506	-8.2

Elbow Replacement 2021/22

Table G17 Number and Percentage of Elbow Replacements in 2021/22 by State/Territory

Elbow Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Primary Partial	124	124	87	37	0	14	14	400
	56.1%	62.6%	54.0%	58.7%	0.0%	66.7%	70.0%	55.9%
Primary Total	62	47	54	17	23	4	3	210
	28.1%	23.7%	33.5%	27.0%	71.9%	19.0%	15.0%	29.3%
Revision	35	27	20	9	9	3	3	106
	15.8%	13.6%	12.4%	14.3%	28.1%	14.3%	15.0%	14.8%
TOTAL	221	198	161	63	32	21	20	716
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table G18 Incidence of Elbow Replacement in 2021/22 by State/Territory per 100,000

Elbow Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
<i>ABS Population June 2022</i>	<i>8238800</i>	<i>6704300</i>	<i>5378300</i>	<i>2825200</i>	<i>1834300</i>	<i>571600</i>	<i>711000</i>	<i>26268400</i>
Elbow Replacement								
Primary Partial	1.5	1.8	1.6	1.3	0.0	2.4	2.0	1.5
Primary Total	0.8	0.7	1.0	0.6	1.3	0.7	0.4	0.8
Revision	0.4	0.4	0.4	0.3	0.5	0.5	0.4	0.4
TOTAL	2.7	3.0	3.0	2.2	1.7	3.7	2.8	2.7

Table G19 Elbow Replacement in 2021/22 by Public and Private Sector and State/Territory

Elbow Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Primary Partial	48	53	38	14	0	2	1	156
Primary Total	24	20	25	8	15	0	1	93
Revision	20	17	16	4	6	0	3	66
TOTAL PRIVATE	92	90	79	26	21	2	5	315
Public								
Primary Partial	76	71	49	23	0	12	13	244
Primary Total	38	27	29	9	8	4	2	117
Revision	15	10	4	5	3	3	0	40
TOTAL PUBLIC	129	108	82	37	11	19	15	401

Table G20 Number of Elbow Replacements and Percentage Change between 2020/21 and 2021/22

Elbow Replacement	2020/21	2021/22	% Change
Primary Partial	421	400	-5.0
Primary Total	217	210	-3.2
Revision	76	106	39.5
TOTAL	714	716	0.3

Wrist Replacement 2021/22

Table G21 Number and Percentage of Wrist Replacement in 2021/22 by State/Territory

Wrist Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Primary Partial	0	3	1	0	1	0	3	8
	0.0%	6.4%	3.1%	0.0%	12.5%	0.0%	30.0%	5.1%
Primary Total	42	33	22	2	3	0	6	108
	75.0%	70.2%	68.8%	100.0%	37.5%	0.0%	60.0%	69.2%
Revision	14	11	9	0	4	1	1	40
	25.0%	23.4%	28.1%	0.0%	50.0%	100.0%	10.0%	25.6%
TOTAL	56	47	32	2	8	1	10	156
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table G22 Incidence of Wrist Replacement in 2021/22 by State/Territory per 100,000

Wrist Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
<i>ABS Population June 2022</i>	<i>8238800</i>	<i>6704300</i>	<i>5378300</i>	<i>2825200</i>	<i>1834300</i>	<i>571600</i>	<i>711000</i>	<i>26268400</i>
Wrist Replacement								
Primary Partial	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.0
Primary Total	0.5	0.5	0.4	0.1	0.2	0.0	0.8	0.4
Revision	0.2	0.2	0.2	0.0	0.2	0.2	0.1	0.2
TOTAL	0.7	0.7	0.6	0.1	0.4	0.2	1.4	0.6

Table G23 Wrist Replacement in 2021/22 by Public and Private Sector and State/Territory

Wrist Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Primary Partial	0	3	1	0	1	0	3	8
Primary Total	34	32	20	0	3	0	4	93
Revision	11	11	3	0	3	0	0	28
TOTAL PRIVATE	45	46	24	0	7	0	7	129
Public								
Primary Total	8	1	2	2	0	0	2	15
Revision	3	0	6	0	1	1	1	12
TOTAL PUBLIC	11	1	8	2	1	1	3	27

Table G24 Number of Wrist Replacements and Percentage Change between 2020/21 and 2021/22

Wrist Replacement	2020/21	2021/22	% Change
Primary Partial	11	8	-27.3
Primary Total	100	108	8.0
Revision	28	40	42.9
TOTAL	139	156	12.2

Ankle Replacement 2021/22

Table G25 Number and Percentage of Ankle Replacements in 2021/22 by State/Territory

Ankle Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Primary Total	205	104	52	49	20	39	4	473
	86.5%	85.2%	91.2%	84.5%	74.1%	92.9%	100.0%	86.5%
Revision	32	18	5	9	7	3	0	74
	13.5%	14.8%	8.8%	15.5%	25.9%	7.1%	0.0%	13.5%
TOTAL	237	122	57	58	27	42	4	547
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table G26 Incidence of Ankle Replacement in 2021/22 by State/Territory per 100,000

Ankle Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
<i>ABS Population June 2022</i>	<i>8238800</i>	<i>6704300</i>	<i>5378300</i>	<i>2825200</i>	<i>1834300</i>	<i>571600</i>	<i>711000</i>	<i>26268400</i>
Ankle Replacement								
Primary Total	2.5	1.6	1.0	1.7	1.1	6.8	0.6	1.8
Revision	0.4	0.3	0.1	0.3	0.4	0.5	0.0	0.3
TOTAL	2.9	1.8	1.1	2.1	1.5	7.3	0.6	2.1

Table G27 Ankle Replacement in 2021/22 by Public and Private Sector and State/Territory

Ankle Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Primary Total	175	98	51	42	18	35	2	421
Revision	25	17	4	8	4	2	0	60
TOTAL PRIVATE	200	115	55	50	22	37	2	481
Public								
Primary Total	30	6	1	7	2	4	2	52
Revision	7	1	1	1	3	1	0	14
TOTAL PUBLIC	37	7	2	8	5	5	2	66

Table G28 Number of Ankle Replacements and Percentage Change between 2020/21 and 2021/22

Ankle Replacement	2020/21	2021/22	% Change
Primary Total	471	473	0.4
Revision	82	74	-9.8
TOTAL	553	547	-1.1

Spinal Disc Replacement 2021/22

Table G29 Number and Percentage of Spinal Disc Replacement in 2021/22 by State/Territory

Spinal Disc Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Insertion of Disc (1 Level)	292	285	304	93	0	90	23	1,087
	81.6%	74.2%	88.1%	74.4%	0.0%	77.6%	60.5%	79.6%
Insertion of Disc (> 2 Levels)	41	57	24	31	0	25	14	192
	11.5%	14.8%	7.0%	24.8%	0.0%	21.6%	36.8%	14.1%
Revision of Disc (1 Level)	24	39	13	0	0	1	1	78
	6.7%	10.2%	3.8%	0.0%	0.0%	0.9%	2.6%	5.7%
Revision of Disc (> 2 Levels)	1	3	4	1	0	0	0	9
	0.3%	0.8%	1.2%	0.8%	0.0%	0.0%	0.0%	0.7%
TOTAL	358	384	345	125	0	116	38	1,366
	100.0%	100.0%	100.0%	100.0%	0.0%	100.0%	100.0%	100.0%

Table G30 Incidence of Spinal Disc Replacement in 2020/21 by State/Territory per 100,000

Spinal Disc Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
<i>ABS Population June 2022</i>	<i>8238800</i>	<i>6704300</i>	<i>5378300</i>	<i>2825200</i>	<i>1834300</i>	<i>571600</i>	<i>711000</i>	<i>26268400</i>
Spinal Disc Replacement								
Insertion of Disc (1 Level)	3.5	4.3	5.7	3.3	0.0	15.7	3.2	4.1
Insertion of Disc (> 2 Levels)	0.5	0.9	0.4	1.1	0.0	4.4	2.0	0.7
Revision of Disc (1 Level)	0.3	0.6	0.2	0.0	0.0	0.2	0.1	0.3
Revision of Disc (> 2 Levels)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
TOTAL	4.3	5.7	6.4	4.4	0.0	20.3	5.3	5.2

Table G31 Spinal Disc Replacement in 2021/22 by Public and Private Sector and State/Territory

Spinal Disc Replacement	NSW	VIC	QLD	WA	SA	TAS	ACT/NT	AUST
Private								
Insertion of Disc (1 Level)	260	280	282	88	0	84	23	1,017
Insertion of Disc (> 2 Levels)	40	56	22	29	0	24	14	185
Revision of Disc (1 Level)	21	39	12	0	0	1	0	73
Revision of Disc (> 2 Levels)	1	3	3	0	0	0	0	7
TOTAL PRIVATE	322	378	319	117	0	109	37	1,282
Public								
Insertion of Disc (1 Level)	32	5	22	5	0	6	0	70
Insertion of Disc (> 2 Levels)	1	1	2	2	0	1	0	7
Revision of Disc (1 Level)	3	0	1	0	0	0	1	5
Revision of Disc (> 2 Levels)	0	0	1	1	0	0	0	2
TOTAL PUBLIC	36	6	26	8	0	7	1	84

Table G32 Number of Spinal Disc Replacements and Percentage Change between 2020/21 and 2021/22

Spinal Disc Replacement	2020/21	2021/22	% Change
Insertion of Disc (1 Level)	1,276	1,087	-14.8
Insertion of Disc (> 2 Levels)	120	192	60.0
Revision of Disc (1 Level)	105	78	-25.7
Revision of Disc (> 2 Levels)	10	9	-10.0
TOTAL	1,511	1,366	-9.6

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