

Australian Orthopaedic Association National Joint Replacement Registry

2023 SUPPLEMENTARY REPORT

Partial Knee Arthroplasty



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Australian Orthopaedic Association National Joint Replacement Registry

Primary Partial Knee Replacement

Supplementary Report 2023

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The AOANJRR is funded by the Australian Government Department of Health and Aged Care

Cite this report

Smith PN, Gill DR, McAuliffe MJ, McDougall C, Stoney JD, Vertullo CJ, Wall CJ, Corfield S, Cashman K, Cuthbert AR, Du P, Harries D, Holder C, Lorimer MF, Lewis PL. Primary Partial Knee Replacement: Supplementary Report in Hip, Knee & Shoulder Arthroplasty: 2023 Annual Report, Australian Orthopaedic Association National Joint Replacement Registry, AOA, Adelaide; 2023.
<https://doi.org/10.25310/QXVM4738>

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**Australian Orthopaedic Association
National Joint Replacement Registry**

Primary Partial Knee Arthroplasty

2023 Supplementary Report

Acknowledgements

The Registry continues to receive support and invaluable assistance from the Australian Government, state and territory health departments and orthopaedic companies.

The Registry acknowledges the cooperation and support provided by those undertaking the surgery and completing the data forms, in particular, all orthopaedic surgeons, registrars and nursing staff.

The Registry acknowledges the ongoing support of all hospitals, both public and private, that undertake arthroplasty surgery nationally. The support provided by each hospital through their nominated coordinator(s) is appreciated. A complete list of participating hospitals and coordinators is presented at the end of the Hip, Knee and Shoulder Arthroplasty Annual Report.

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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Primary Partial Knee Replacement

Introduction

This supplementary report provides a brief overview of partial knee replacement followed by detailed information on patella/trochlea partial knee replacement. Summary information on unicompartmental knee replacement is available in the 2023 AOANJRR Annual Report.

Primary knee replacement is an initial replacement procedure for the knee. Partial replacement involves replacement of a portion of the knee surface. This can vary from a small area, such as a partial resurfacing procedure, to replacement of an entire compartment of the knee, such as the patella/trochlea region.

CLASSES OF PARTIAL KNEE REPLACEMENT

The Registry subcategorises partial knee replacement into five classes. These are defined by the types of prostheses used.

Partial resurfacing involves the use of one or more button prostheses to replace part of the natural articulating surface on one or more sides of the joint, in one or more articular compartments of the knee.

Unispacer involves the use of a medial or lateral femorotibial compartment articular spacer.

Bicompartmental involves the replacement of the medial femoral and trochlear articular surface of the knee with a single femoral prosthesis, as well as the medial tibial articular surface with a unicompartmental tibial prosthesis. It may also include the use of a patellar prosthesis.

Patella/trochlea involves the use of a trochlear prosthesis to replace the femoral trochlear articular surface and, on most occasions, a patellar prosthesis.

Unicompartmental involves the replacement of the femoral and tibial articular surface of either the medial or lateral femorotibial compartment using unicompartmental femoral and tibial prostheses.

Detailed information on the demographics of each class of primary partial knee replacement is available in the supplementary report 'Demographics of Hip, Knee & Shoulder Arthroplasty' on the AOANJRR website:

<https://aoanjrr.sahmri.com/annual-reports-2023>

Detailed information on unicompartmental knee replacements can be found in the 'Hip, Knee & Shoulder Arthroplasty Annual Report' on the AOANJRR website:

<https://aoanjrr.sahmri.com/annual-reports-2023>

USE OF PARTIAL KNEE REPLACEMENT

Unicompartmental knee replacement remains the most common class of primary partial knee replacement, accounting for 92.7% of all partial knee replacement procedures. The second most common class is patella/trochlea replacement (6.7%). Within the remaining three classes (partial resurfacing, unispacer, and bicompartamental knee replacement), only small numbers of procedures have been reported (Table SPK1).

The unispacer procedure has not been used since 2005 and has the highest revision rate of any class of partial knee replacement. Bicompartamental knee replacement has not been used since 2012. Partial resurfacing procedures have not been used since 2018. These classes of partial knee replacement are not presented in detail in this report.

Table SPK1 Partial Knee Replacement by Class

Partial Knee Class	Number	Percent
Partial Resurfacing	246	0.3
Unispacer	40	0.1
Bicompartamental	165	0.2
Patella/Trochlea	5119	6.7
Unicompartmental	70925	92.7
TOTAL	76495	100.0

Detailed information on unispacer, bicompartamental and partial resurfacing knee replacement is available in the supplementary report 'Prosthesis Types with No and Minimal Use' on the AOANJRR website: <https://aoanjrr.sahmri.com/annual-reports-2023>

Osteoarthritis is the principal diagnosis for the five classes of partial knee replacement (99.1%). There is considerable variation in the outcome of primary partial knee replacement depending on the class (Table SPK2).

Table SPK2 Cumulative Percent Revision of Primary Partial Knee Replacement by Class

Partial Knee Class	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs
Partial Resurfacing	112	246	6.1 (3.7, 9.9)	17.1 (13.0, 22.5)	25.8 (20.8, 31.8)	38.8 (32.8, 45.4)		
Unispacer	36	40	42.5 (29.0, 59.2)	67.5 (53.0, 81.2)	67.5 (53.0, 81.2)	77.5 (63.7, 88.8)	82.5 (69.4, 92.3)	
Bicompartamental	32	165	6.1 (3.3, 11.0)	11.7 (7.6, 17.7)	14.2 (9.7, 20.6)	16.2 (11.3, 22.9)		
Patella/Trochlea	1141	5119	2.0 (1.7, 2.5)	7.8 (7.1, 8.6)	12.9 (12.0, 14.0)	26.3 (24.7, 27.9)	40.7 (38.4, 43.1)	51.6 (47.9, 55.4)
Unicompartmental	9757	70925	2.1 (2.0, 2.2)	5.1 (5.0, 5.3)	7.3 (7.1, 7.5)	13.5 (13.2, 13.9)	21.0 (20.6, 21.4)	28.9 (28.2, 29.6)
TOTAL	11078	76495						

PATELLA/TROCHLEA

DEMOGRAPHICS

There have been 5,119 patella/trochlea knee replacements reported to the Registry. This is an additional 292 procedures compared to the previous report.

The principal diagnosis for patella/trochlea procedures is osteoarthritis (98.9%). This procedure is most frequently undertaken in females (76.6%) (Figure SPK1). The mean age of patients is 58.5 years (Table SPK3 and Figure SPK2).

Figure SPK1 Primary Patella/Trochlea Knee Replacement by Gender

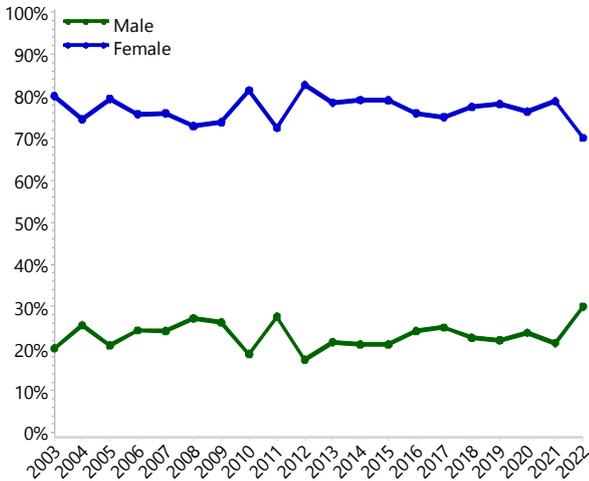
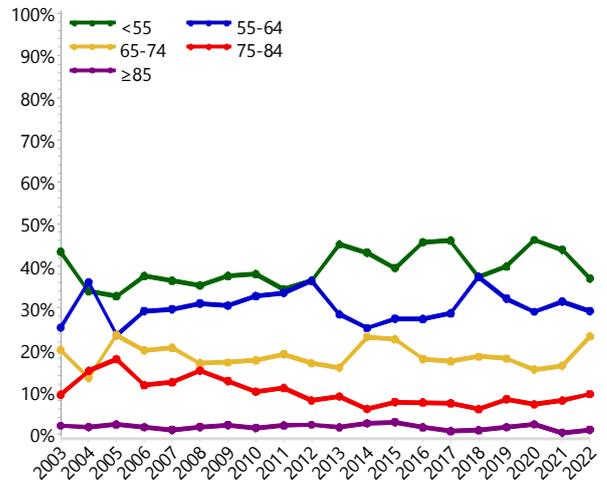


Figure SPK2 Primary Patella/Trochlea Knee Replacement by Age



In 2022, the 4 most common resurfacing trochlear prostheses are the Restoris MCK, Gender Solutions, Journey, and Avon. In 2022, the Restoris MCK is the most frequently used prosthesis in this class (Table SPK4).

The outcomes of patella/trochlear prosthesis combinations with more than 20 procedures are presented in Table SPK5.

Table SPK3 Age and Gender of Primary Patella/Trochlea Knee Replacement

Gender	Number	Percent	Minimum	Maximum	Median	Mean	Std Dev
Male	1196	23.4%	24	95	60	60.9	12.9
Female	3923	76.6%	22	95	57	57.7	11.8
TOTAL	5119	100.0%	22	95	58	58.5	12.1

Table SPK4 Most Used Resurfacing Trochlea Prostheses in Primary Patella/Trochlea Knee Replacement

2003		2019		2020		2021		2022	
N	Model	N	Model	N	Model	N	Model	N	Model
56	LCS	140	Gender Solutions	168	Gender Solutions	159	Gender Solutions	126	Restoris MCK
43	Avon	90	Restoris MCK	77	Restoris MCK	93	Restoris MCK	115	Gender Solutions
29	Lubinus	47	Journey	40	Journey	39	Journey	41	Journey
13	Themis	20	RBK	10	RBK	7	Avon	2	Avon
8	MOD III	4	Avon	4	Avon	3	RBK		
1	RBK								
10 Most Used									
150	(6) 100.0%	301	(5) 100.0%	299	(5) 100.0%	301	(5) 100.0%	284	(4) 100.0%

Table SPK5 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Prosthesis Combination

Resurfacing Trochlear	Patella	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Avon	Avon	101	395	1.0 (0.4, 2.7)	6.7 (4.6, 9.7)	12.1 (9.2, 15.8)	22.9 (18.7, 27.8)	31.2 (25.8, 37.4)	
	Kinemax Plus*	119	307	2.0 (0.9, 4.3)	4.9 (3.0, 8.0)	11.9 (8.7, 16.1)	23.9 (19.4, 29.2)	36.1 (30.7, 42.3)	47.3 (40.8, 54.4)
	Triathlon	7	99	0.0 (0.0, 0.0)	2.1 (0.5, 8.1)	4.3 (1.6, 11.1)	12.6 (5.3, 28.3)		
Gender Solutions	Natural Knee Flex*	10	36	0.0 (0.0, 0.0)	14.1 (6.1, 30.6)	14.1 (6.1, 30.6)	24.0 (12.7, 42.6)		
	Nexgen	181	1478	1.3 (0.9, 2.1)	6.3 (5.1, 7.7)	9.7 (8.1, 11.6)	21.9 (18.7, 25.5)		
	Persona	4	121	2.1 (0.5, 8.0)					
Journey	Genesis II	137	697	2.1 (1.3, 3.5)	7.7 (5.9, 10.1)	12.2 (9.8, 15.2)	24.9 (20.9, 29.4)	35.5 (29.8, 41.8)	
LCS	LCS*	212	395	3.5 (2.1, 5.9)	11.7 (8.9, 15.3)	20.9 (17.2, 25.3)	40.6 (35.8, 45.8)	51.7 (46.6, 57.1)	
Lubinus	Duracon*	29	77	2.6 (0.7, 10.0)	9.2 (4.5, 18.4)	16.0 (9.4, 26.4)	25.3 (16.6, 37.2)	38.6 (27.6, 52.1)	45.2 (33.3, 59.2)
	Lubinus*	22	39	5.1 (1.3, 19.0)	18.1 (9.1, 34.3)	20.9 (11.0, 37.6)	35.0 (22.0, 52.7)	58.2 (42.1, 75.2)	62.4 (45.8, 79.0)
MOD III	MOD III*	27	62	4.8 (1.6, 14.3)	14.5 (7.8, 26.0)	17.8 (10.3, 29.8)	26.6 (17.2, 39.7)	37.4 (26.4, 51.2)	44.5 (32.3, 58.8)
RBK	RBK*	151	549	2.9 (1.8, 4.7)	9.2 (7.0, 11.9)	14.8 (12.0, 18.1)	27.2 (23.3, 31.6)	36.4 (31.2, 42.2)	
Restoris MCK	Duracon*	4	21	4.8 (0.7, 29.3)	14.6 (4.9, 38.7)				
	Restoris MCK	28	438	1.1 (0.4, 2.9)	6.3 (4.0, 9.7)	10.8 (7.4, 15.7)			
	Triathlon	3	111	1.9 (0.5, 7.4)					
Sigma HP	PFC Sigma*	45	117	4.3 (1.8, 10.0)	14.7 (9.4, 22.6)	20.9 (14.5, 29.6)			
Themis	Themis*	16	38	2.6 (0.4, 17.2)	2.6 (0.4, 17.2)	8.0 (2.6, 22.7)	18.8 (9.4, 35.4)	39.5 (25.5, 57.6)	42.7 (28.2, 60.8)
Vanguard	Series A*	12	41	4.9 (1.2, 18.1)	17.1 (8.5, 32.5)	24.4 (13.9, 40.6)	29.4 (17.9, 46.0)		
Other (30)		33	98	3.2 (1.0, 9.6)	12.2 (6.9, 21.0)	16.0 (9.8, 25.5)	34.9 (24.9, 47.4)	48.0 (35.9, 61.8)	
TOTAL		1141	5119						

Note: Only combinations with >20 procedures have been listed

* denotes prosthesis combination with no reported use in patella/trochlea knee replacement in 2022

OUTCOME FOR OSTEOARTHRITIS

The Registry has recorded 1,125 revisions of primary patella/trochlea knee replacement for osteoarthritis.

The most common reason for revision is progression of disease (56.2%), followed by loosening (14.1%) and pain (10.3%) (Table SPK6 and Figure SPK3).

The main type of revision of a primary patella/trochlea knee replacement is to a total knee replacement (87.1%) (Table SPK7).

The cumulative percent revision of primary patella/trochlea knee replacement undertaken for osteoarthritis is 13.0% at 5 years and 48.8% at 18 years (Table SPK8 and Figure SPK4).

Age and gender are risk factors for revision (Table SPK11 and Figure SPK7). Patients aged <65 years have a higher rate of revision than patients aged ≥65 years (Table SPK9 and Figure SPK5). Males have a higher rate of revision than females (Table SPK10 and Figure SPK6).

Table SPK6 Primary Patella/Trochlea Knee Replacement by Reason for Revision (Primary Diagnosis OA)

Reason for Revision	Number	Percent
Progression Of Disease	632	56.2
Loosening	159	14.1
Pain	116	10.3
Implant Breakage Patella	39	3.5
Wear Patella	35	3.1
Infection	31	2.8
Malalignment	19	1.7
Lysis	16	1.4
Wear Tibial Insert	5	0.4
Arthrofibrosis	2	0.2
Wear Femoral	1	0.1
Implant Breakage Femoral	1	0.1
Other	69	6.1
TOTAL	1125	100.0

Table SPK7 Primary Patella/Trochlea Knee Replacement by Type of Revision (Primary Diagnosis OA)

Type of Revision	Number	Percent
TKR (Tibial/Femoral)	980	87.1
Patella Only	86	7.6
Patella/Trochlear Resurfacing	28	2.5
UKR (Uni Tibial/Uni Femoral)	16	1.4
Removal of Prostheses	6	0.5
Cement Spacer	6	0.5
Femoral Component	3	0.3
TOTAL	1125	100.0

Figure SPK3 Cumulative Incidence Revision Diagnosis of Primary Patella/Trochlea Knee Replacement (Primary Diagnosis OA)

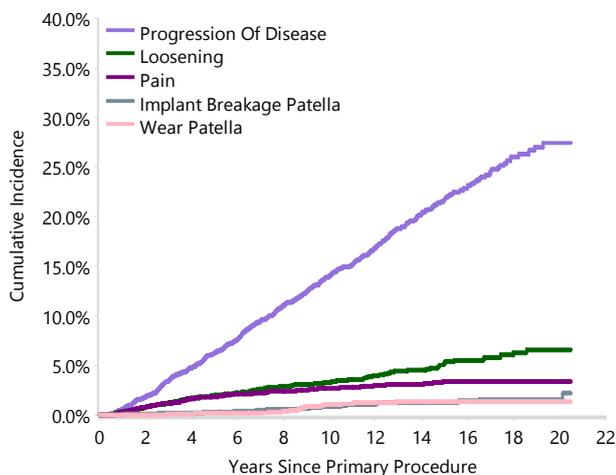
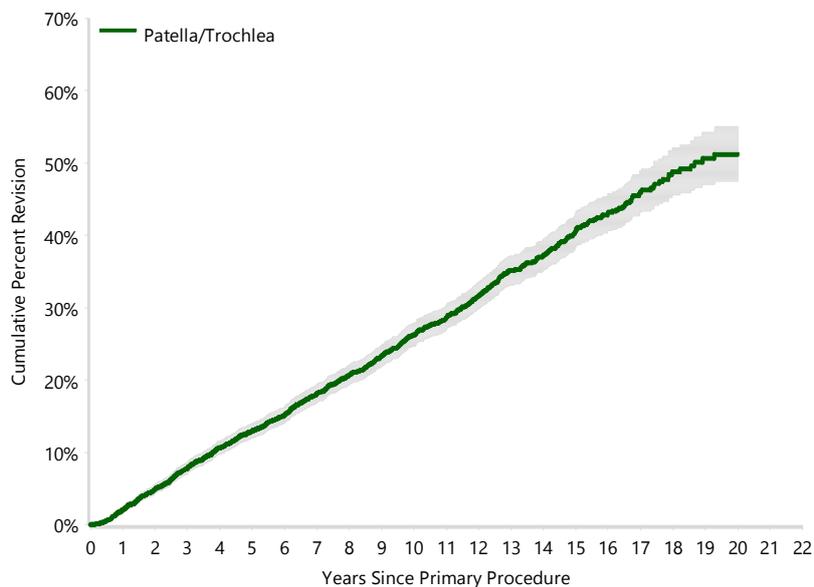


Table SPK8 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement (Primary Diagnosis OA)

Knee Type	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Patella/Trochlea	1125	5062	2.1 (1.7, 2.5)	7.8 (7.1, 8.6)	13.0 (12.0, 14.0)	26.2 (24.7, 27.8)	37.3 (35.2, 39.5)	48.8 (45.6, 52.1)
TOTAL	1125	5062						

Figure SPK4 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement (Primary Diagnosis OA)

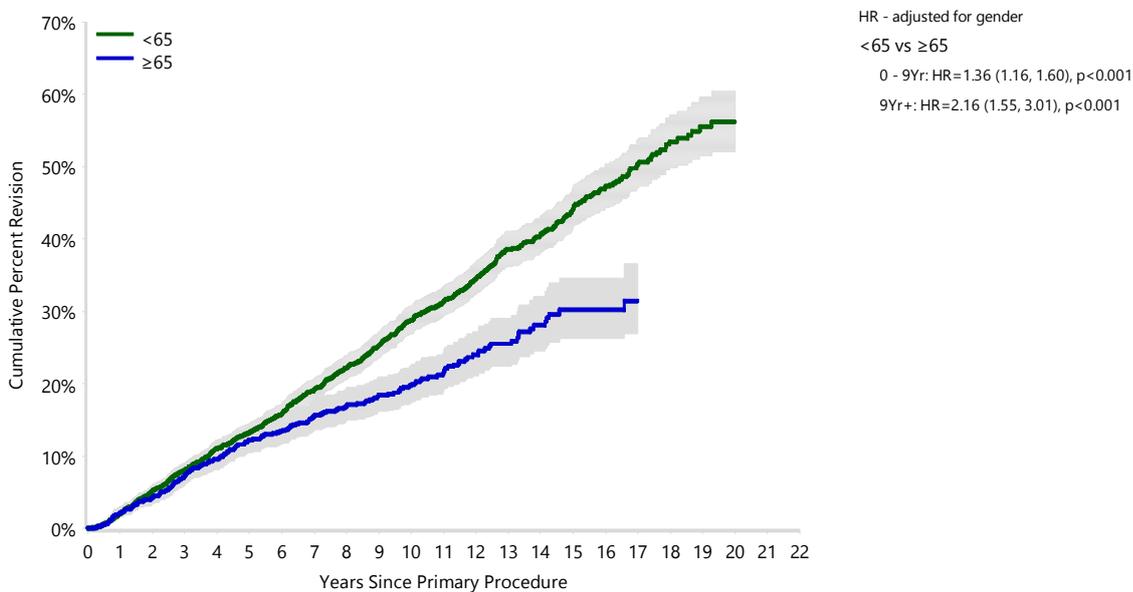


Number at Risk	0 Yr	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Patella/Trochlea	5062	4670	3797	2984	1414	577	152

Table SPK9 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Age (Primary Diagnosis OA)

Age	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
<65	883	3558	2.0 (1.6, 2.6)	8.1 (7.2, 9.0)	13.3 (12.1, 14.5)	28.8 (26.9, 30.8)	40.7 (38.2, 43.3)	53.5 (49.9, 57.2)
≥65	242	1504	2.1 (1.5, 3.0)	7.2 (5.9, 8.7)	12.2 (10.5, 14.2)	19.7 (17.3, 22.4)	28.1 (24.5, 32.1)	
TOTAL	1125	5062						

Figure SPK5 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Age (Primary Diagnosis OA)

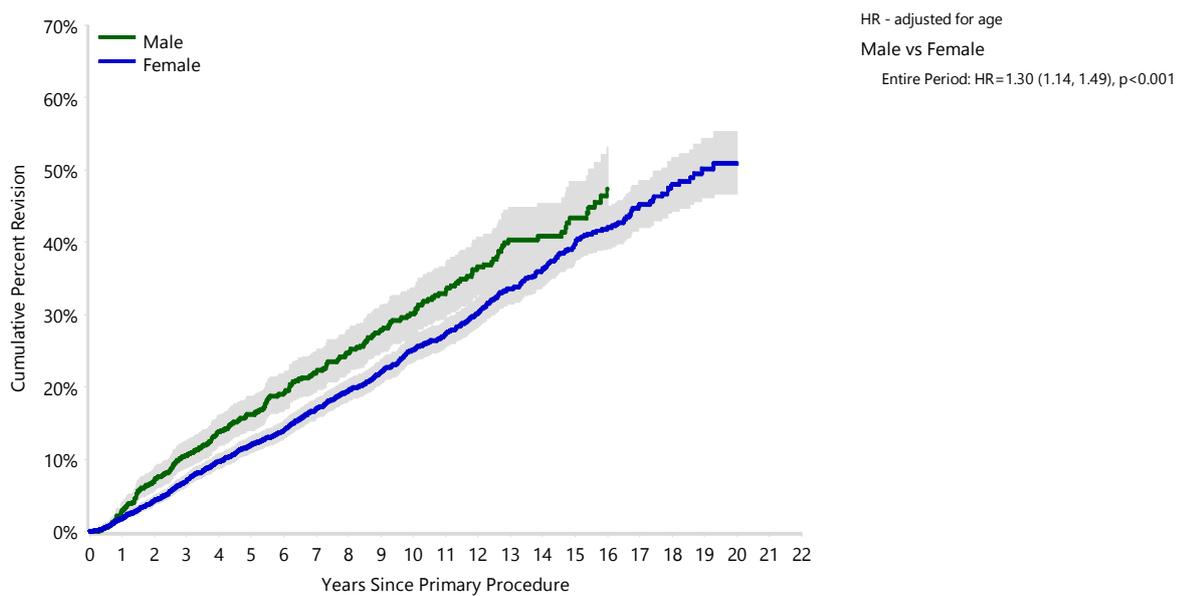


Number at Risk	0 Yr	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
<65	3558	3301	2679	2105	1005	431	124
≥65	1504	1369	1118	879	409	146	28

Table SPK10 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Gender (Primary Diagnosis OA)

Gender	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Male	290	1186	3.0 (2.1, 4.1)	10.5 (8.8, 12.5)	16.2 (14.0, 18.7)	30.1 (26.8, 33.7)	40.8 (36.5, 45.4)	
Female	835	3876	1.8 (1.4, 2.3)	7.0 (6.2, 7.9)	12.0 (10.9, 13.2)	25.1 (23.4, 26.9)	36.3 (33.9, 38.8)	47.9 (44.4, 51.7)
TOTAL	1125	5062						

Figure SPK6 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Gender (Primary Diagnosis OA)

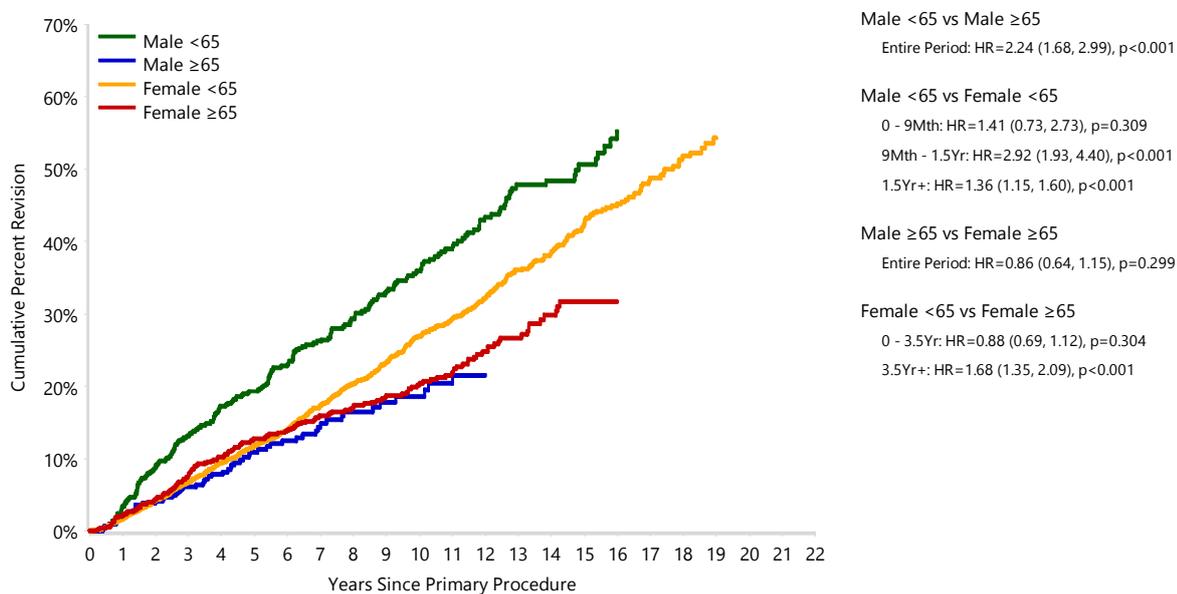


Number at Risk	0 Yr	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Male	1186	1063	844	658	289	118	24
Female	3876	3607	2953	2326	1125	459	128

Table SPK11 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Gender and Age (Primary Diagnosis OA)

Gender	Age	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Male		290	1186	3.0 (2.1, 4.1)	10.5 (8.8, 12.5)	16.2 (14.0, 18.7)	30.1 (26.8, 33.7)	40.8 (36.5, 45.4)	
	<65	232	741	3.4 (2.3, 5.1)	13.1 (10.7, 15.9)	19.3 (16.4, 22.7)	35.9 (31.7, 40.5)	48.4 (43.2, 53.9)	
	≥65	58	445	2.1 (1.1, 4.1)	6.1 (4.1, 8.9)	10.9 (8.0, 14.6)	18.6 (14.3, 24.1)		
Female		835	3876	1.8 (1.4, 2.3)	7.0 (6.2, 7.9)	12.0 (10.9, 13.2)	25.1 (23.4, 26.9)	36.3 (33.9, 38.8)	47.9 (44.4, 51.7)
	<65	651	2817	1.7 (1.3, 2.2)	6.8 (5.9, 7.8)	11.7 (10.5, 13.1)	26.9 (24.8, 29.1)	38.6 (35.8, 41.6)	51.8 (47.7, 56.0)
	≥65	184	1059	2.1 (1.4, 3.2)	7.6 (6.1, 9.5)	12.8 (10.7, 15.2)	20.2 (17.3, 23.4)	29.8 (25.6, 34.5)	
TOTAL		1125	5062						

Figure SPK7 Cumulative Percent Revision of Primary Patella/Trochlea Knee Replacement by Gender and Age (Primary Diagnosis OA)



Number at Risk		0 Yr	1 Yr	3 Yrs	5 Yrs	10 Yrs	14 Yrs	18 Yrs
Male	<65	741	662	515	415	194	88	20
	≥65	445	401	329	243	95	30	4
Female	<65	2817	2639	2164	1690	811	343	104
	≥65	1059	968	789	636	314	116	24

PATELLA/TROCHLEAR COMPARED TO TOTAL KNEE REPLACEMENT

An analysis of primary patella/trochlea knee replacement compared to primary total knee replacement for osteoarthritis was undertaken.

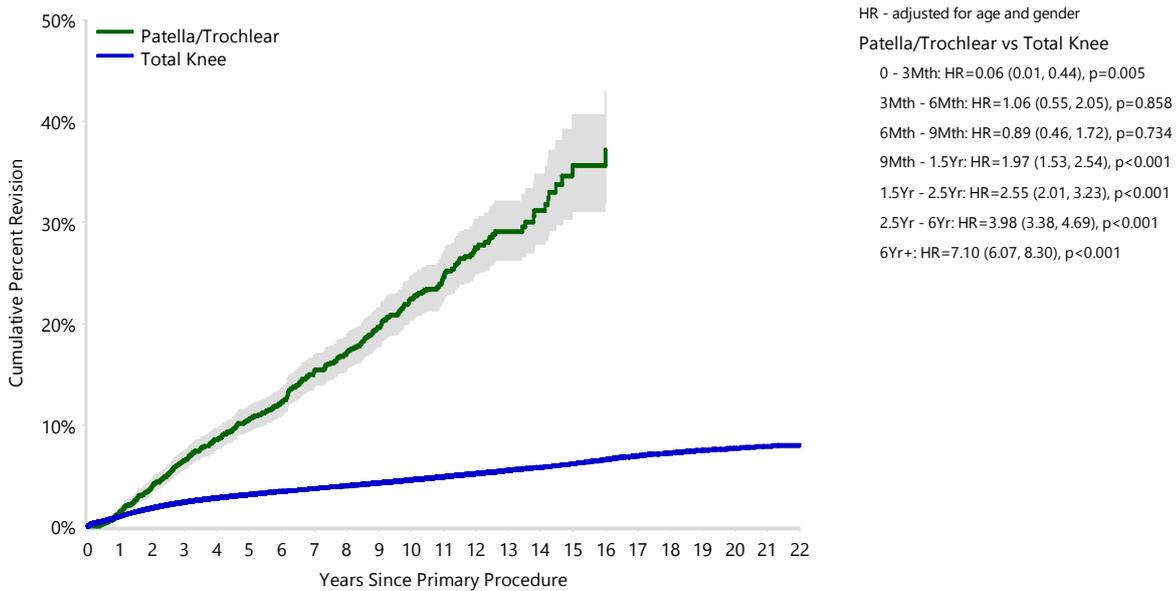
Patella/trochlea knee replacement has a lower rate of revision for the first 3 months compared to total

knee replacement. From 3 to 9 months there is no difference, but from 9 months onwards, patella/trochlea knee replacement has a higher rate of revision compared to primary total knee replacement (Table SPK12 and Figure SPK8).

Table SPK12 Cumulative Percent Revision of Primary Knee Replacement by Knee Class (Primary Diagnosis OA)

Knee Class	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs
Patella/Trochlear	463	3326	1.4 (1.1, 1.9)	6.5 (5.7, 7.5)	10.6 (9.4, 11.8)	22.4 (20.4, 24.7)	35.6 (31.0, 40.6)	
Total Knee	26004	741847	1.0 (0.9, 1.0)	2.4 (2.4, 2.4)	3.1 (3.1, 3.2)	4.6 (4.5, 4.7)	6.2 (6.1, 6.3)	7.7 (7.5, 7.9)
TOTAL	26467	745173						

Figure SPK8 Cumulative Percent Revision of Primary Knee Replacement by Knee Class (Primary Diagnosis OA)



Number at Risk	0 Yr	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	20 Yrs
Patella/Trochlear	3326	2990	2273	1648	590	63	2
Total Knee	741847	675256	544838	421804	176167	46509	5258

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The AOANJRR is funded by the Australian Government Department of Health and Aged Care