

Australian Orthopaedic Association National Joint Replacement Registry

2022 Comparative Prostheses
Performance Supplementary Report



AOA
AUSTRALIAN
ORTHOPAEDIC
ASSOCIATION

Australian
Orthopaedic
Association
National
Joint
Replacement
Registry

Director: Professor Stephen Graves
E: admin@aoanjrr.org.au

Manager: Ms Kathy Hill
E: khill@aoanjrr.org.au

AOANJRR
SAHMRI,
North Terrace
ADELAIDE SA 5000
T: +61 8 8128 4280

The AOANJRR is funded by the Australian Government Department of Health

Suggested citation:

Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR). Comparative Prostheses Performance: Supplementary Report in Hip, Knee & Shoulder Arthroplasty: 2022 Annual Report, AOA, Adelaide; 2022: 1-19. [Accessed from: <https://aoanjrr.sahmri.com/annual-reports-2022/supplementary>]

The use and/or reproduction of AOANJRR data provided in this report requires adherence to the AOANJRR Publications and Authorship Policy available at: <https://aoanjrr.sahmri.com/aoanjrr-data-publication-and-authorship>

www.aoa.org.au

© Australian Orthopaedic Association National Joint Replacement Registry 2022

Australian Orthopaedic Association
National Joint Replacement Registry

2022 Comparative Prostheses Performance Supplementary Report

Acknowledgements

The Registry continues to receive support and invaluable assistance from the Commonwealth 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.

AOA Registry Clinical Director

Professor Stephen Graves

Deputy Clinical Directors

Professor Richard de Steiger

Mr Peter Lewis

Professor Ian Harris

Assistant Deputy Clinical Director

Mr James D Stoney

Clinical Advisors

Professor Richard Page

Mr Peter Stavrou

PROMs Advisor

Professor Ilana Ackerman

AOA Registry Committee

Neil Bergman

Annette Holian

Chris Morrey

Stephen Graves

Richard de Steiger

Peter Lewis

James Stoney

Bill Walter

Richard Page

Peter Stavrou

Rob Kuru

Peter McEwen

Paul Smith

Michael Schuetz

Joshua Petterwood

David Wysoki

Committee Chair

AOA President

AOA Vice President

Director

Deputy Director (Victoria)

Deputy Director (South Australia)

Assistant Deputy Director

Arthroplasty Society of Australia

Shoulder & Elbow Society

Foot & Ankle Society

Spine Society

Knee Society

Australian Capital Territory

Queensland

Tasmania

Western Australia

AOA NATIONAL JOINT REPLACEMENT REGISTRY

Registry Executive Manager

Kathy Hill

Clinical Studies Manager

Durga Bastiras

PROMs Manager

Pablo Flores Figuera

Publications Manager

Sophie Corfield

Administrative Coordinator

Rianne Thompson

Clinical Studies Team

Tania Alland

Libby Poole

Dianne Buranyi-Trevarton

Laura Busk

PROMs Team

Nea Ryan

David Metherell

Marta Jasinska

Data Linkage

Katherine Duszynski

(UNISA)

SOUTH AUSTRALIAN HEALTH AND MEDICAL RESEARCH INSTITUTE (SAHMRI)

Project Manager

Emma Heath

Data Managers

Janey Barrow

Robert Armitage

Primali De Silva

Statisticians

Michelle Lorimer

Alana Cuthbert

Carl Holder

Dylan Harries

Kara Cashman

Data Entry

Georgina Daynes

Kirsty Modystach

Anh Pham

Jacinta Greer

Anna Fergusson

Vivien Do

Jeremy Durward

Michael Crame

Andrew Loakim

Anita Wright

Courtney Cullen

Natalie Morrall

ICT

Andrew Brock

Christian Boyd

Jennifer Coleman

Nazia Dilnaz

Daina Ross

Vincent Talladira

Anu Bakshi

Peter Weston



Table of Contents

INTRODUCTION	6
Ten Year Outcomes	7
Hip Replacement.....	7
Knee Replacement	7
Fifteen Year Outcomes	13
Hip Replacement.....	13
Knee Replacement	13
Twenty Year Outcomes	18
Hip Replacement.....	18
Knee Replacement	18
LIST OF TABLES	20

Introduction

The purpose of this supplementary report is to ensure that the Registry provides updated 10, 15 and 20 year data on the comparative performance of all prostheses including those that are no longer used.

Analyses presented in the main report are now limited to prostheses that were still used in 2021. Surgeons at the Annual Report Workshop highlighted that there was ongoing interest in the comparative performance of all devices reported to the Registry and recommended its inclusion as a supplementary report.

This report presents comparative performance information on hip and knee prostheses used for the treatment of osteoarthritis for the three different time periods irrespective of their use in 2021. Those prostheses not used in 2021 are identified with an asterisk in each of the tables.

Only individual prosthesis combinations with >350 procedures are reported. To identify superiority and non-inferiority, the new benchmark standards described in the main report are used. These standards are based on the aggregate performance of devices in a class still being used in 2021.

A prosthesis combination is identified as having a superiority benchmark if the upper confidence interval is less than, or equal to, the benchmark standard. These devices are highlighted in green in the relevant tables.

A prosthesis combination is identified as having a non-inferiority benchmark if the upper confidence interval level is not more than 20% above the benchmark standard. These devices are highlighted in blue in the relevant tables.

Ten, Fifteen and Twenty Year Outcomes Comparative Performance

Ten Year Outcomes

HIP REPLACEMENT

There are 107 hip prosthesis combinations listed that have been used in >350 procedures and have data to at least 10 years. These listed combinations were used in 79.9% of all primary total conventional hip replacement procedures performed for osteoarthritis.

The 10 year cumulative percent revision ranges from 2.2% to 46.4%. The benchmark standard used to assess superiority and non-inferiority performance at 10 years is 4.4%. There are 14 (13.1%) hip prosthesis combinations that qualify for a superiority benchmark (highlighted in green). An additional 11 (23.4%) prosthesis combinations qualify for a non-inferiority benchmark (highlighted in blue) (1)a)i)Table CP1).

KNEE REPLACEMENT

There are 74 knee prosthesis combinations that have been used in >350 procedures and have data to at least 10 years. The listed combinations were used in 83.8% of all primary total knee replacement procedures performed for osteoarthritis.

The 10 year cumulative percent revision ranges from 2.8% to 13.3%. The benchmark used to assess superiority and non-inferiority at 10 years is 4.7%. There are 7 (9.5%) knee prosthesis combinations that qualify for a superiority benchmark (highlighted in green). An additional 19 (26.0%) prosthesis combinations qualify for a non-inferiority benchmark highlighted in blue (Table CP2).

Table CP1 Cumulative Percent Revision of Primary Total Conventional Hip Replacement Combinations with 10 Year Data (Primary Diagnosis OA)

Femoral Component	Acetabular Component	N Revised	N Total	Type of Revision				2 Yrs	5 Yrs	10 Yrs
				THR	Femoral	Acetabular	Other			
ABGII	ABGII (Shell/Insert)*	88	853	18	47	16	7	1.8 (1.1, 2.9)	2.7 (1.8, 4.1)	6.6 (5.1, 8.6)
ABGII	ABGII*	339	2772	54	166	80	39	2.5 (2.0, 3.1)	4.1 (3.5, 5.0)	6.9 (6.0, 7.9)
ABGII	Trident (Shell)*	261	2439	14	166	33	48	3.4 (2.8, 4.2)	5.0 (4.2, 5.9)	8.6 (7.5, 9.9)
AMiStem H	Versafitcup CC	91	3481	7	59	6	19	1.7 (1.3, 2.2)	3.1 (2.4, 3.9)	7.3 (4.3, 12.2)
Accolade I	Mitch TRH* ^{MoM}	90	357	41	15	24	10	3.7 (2.1, 6.2)	10.3 (7.5, 14.0)	18.8 (15.0, 23.4)
Accolade I	Trident (Shell)*	536	8573	63	208	105	160	2.4 (2.1, 2.7)	3.8 (3.4, 4.2)	5.7 (5.2, 6.2)
Accolade I	Trident/Tritanium (Shell)*	32	696	3	13	6	10	2.0 (1.2, 3.4)	2.9 (1.9, 4.5)	5.1 (3.6, 7.2)
Adapter	Bionik* ^{MoM}	97	376	21	9	23	44	5.1 (3.3, 7.9)	15.3 (12.0, 19.5)	25.1 (20.8, 30.0)
Alloclassic	Allofit	317	5161	34	139	53	91	1.8 (1.5, 2.2)	2.9 (2.4, 3.4)	5.0 (4.4, 5.7)
Alloclassic	Durom* ^{MoM}	102	547	27	14	47	14	3.4 (2.1, 5.3)	7.4 (5.5, 10.0)	16.3 (13.3, 19.9)
Alloclassic	Fitmore*	137	1709	15	69	16	37	4.2 (3.4, 5.3)	5.6 (4.6, 6.8)	7.4 (6.2, 8.8)
Alloclassic	Metasul*	23	371	4	2	11	6	2.2 (1.1, 4.3)	3.6 (2.1, 6.1)	5.2 (3.3, 8.1)
Alloclassic	Trabecular Metal (Shell)*	50	957	5	15	5	25	2.5 (1.7, 3.7)	4.0 (2.9, 5.5)	5.2 (3.9, 6.9)
Anthology	R3	229	7417	21	69	46	93	2.3 (2.0, 2.7)	2.7 (2.4, 3.2)	3.6 (3.2, 4.2)
Anthology	Reflection (Shell)*	41	909	4	15	14	8	2.3 (1.5, 3.5)	3.0 (2.1, 4.4)	4.7 (3.4, 6.3)
Apex	Fin II*	56	924	7	12	22	15	2.3 (1.5, 3.5)	3.4 (2.4, 4.8)	6.0 (4.5, 7.8)
Avenir	Continuum	59	1623	5	13	11	30	3.2 (2.4, 4.2)	3.6 (2.8, 4.7)	4.1 (3.1, 5.3)
Avenir	Trilogy*	11	553	1	5	0	5	1.1 (0.5, 2.4)	1.3 (0.6, 2.6)	2.2 (1.1, 4.1)
C-Stem	Duraloc*	93	894	13	26	14	40	2.8 (1.9, 4.2)	3.8 (2.7, 5.3)	6.9 (5.3, 8.9)
C-Stem	Elite Plus LPW*	24	367	11	4	9	0	1.1 (0.4, 3.0)	2.7 (1.4, 5.0)	5.3 (3.3, 8.6)
C-Stem AMT	PINNACLE	114	4521	9	49	11	45	1.5 (1.2, 1.9)	2.7 (2.2, 3.4)	4.4 (3.4, 5.7)
CLS	Allofit	62	817	6	34	14	8	2.5 (1.6, 3.8)	3.9 (2.7, 5.4)	6.1 (4.6, 8.1)
CLS	Fitmore	59	968	9	23	9	18	2.4 (1.6, 3.6)	3.9 (2.8, 5.4)	5.2 (3.8, 7.0)
CORAIL	ASR* ^{MoM}	1270	2654	229	42	938	61	5.1 (4.3, 6.0)	27.5 (25.8, 29.3)	46.4 (44.4, 48.4)
CORAIL	DeltaMotion*	30	1209	4	7	11	8	1.5 (0.9, 2.4)	1.9 (1.3, 2.9)	2.9 (2.0, 4.1)
CORAIL	Duraloc*	102	1267	18	43	16	25	1.6 (1.0, 2.5)	2.5 (1.8, 3.6)	5.2 (4.0, 6.6)
CORAIL	PINNACLE	1926	54201	172	719	297	738	2.1 (2.0, 2.2)	3.0 (2.9, 3.2)	4.8 (4.5, 5.0)
CORAIL	PINNACLE* ^{MoM}	120	880	18	41	20	41	2.9 (1.9, 4.2)	6.1 (4.7, 8.0)	12.2 (10.1, 14.7)
CORAIL	Trident (Shell)	22	437	4	6	3	9	3.9 (2.3, 6.5)	5.8 (3.6, 9.2)	8.6 (5.3, 13.8)
CPCS	R3	195	6300	21	56	38	80	2.3 (1.9, 2.7)	3.1 (2.6, 3.6)	4.5 (3.8, 5.3)
CPCS	Reflection (Cup)	77	811	26	3	35	13	1.4 (0.8, 2.5)	2.8 (1.8, 4.3)	8.3 (6.1, 11.1)
CPCS	Reflection (Shell)	109	2780	14	48	14	33	0.9 (0.6, 1.4)	1.7 (1.3, 2.3)	3.4 (2.7, 4.3)
CPT	Allofit	54	1645	9	22	5	18	1.1 (0.7, 1.7)	2.8 (2.0, 3.9)	5.1 (3.8, 6.9)
CPT	Continuum	133	2780	9	46	19	59	3.1 (2.5, 3.8)	4.2 (3.5, 5.0)	6.7 (5.4, 8.3)
CPT	Trabecular Metal (Shell)	95	2014	8	41	18	28	2.6 (2.0, 3.4)	4.0 (3.1, 5.0)	6.0 (4.8, 7.5)
CPT	Trilogy	374	7727	37	142	41	154	2.3 (1.9, 2.6)	3.4 (3.0, 3.9)	5.3 (4.8, 5.9)
CPT	ZCA	39	859	13	9	10	7	1.1 (0.6, 2.1)	2.4 (1.5, 3.7)	4.7 (3.3, 6.7)
Charnley	Charnley Ogee*	64	630	38	9	5	12	2.1 (1.2, 3.6)	5.1 (3.6, 7.2)	9.1 (6.9, 11.9)
Charnley	Charnley*	49	563	39	7	3	0	0.9 (0.4, 2.2)	2.2 (1.3, 3.9)	6.5 (4.6, 9.1)
Charnley	Vitalock*	42	370	8	20	3	11	2.7 (1.5, 5.0)	4.4 (2.7, 7.1)	7.9 (5.5, 11.4)
Citation	Trident (Shell)*	59	1035	3	17	16	23	1.9 (1.3, 3.0)	3.3 (2.4, 4.6)	4.4 (3.3, 5.9)
Citation	Vitalock*	48	508	4	8	18	18	1.0 (0.4, 2.4)	2.0 (1.1, 3.7)	5.2 (3.5, 7.7)
E2	C2*	19	684	1	1	3	14	1.8 (1.0, 3.1)	2.6 (1.6, 4.1)	3.8 (2.2, 6.5)
EVOK	C2*	32	769	2	5	16	9	3.0 (2.0, 4.5)	3.6 (2.5, 5.2)	5.5 (3.7, 8.1)
Elite Plus	Duraloc*	112	953	18	65	6	23	2.2 (1.5, 3.4)	5.1 (3.9, 6.8)	9.2 (7.4, 11.5)

Femoral Component	Acetabular Component	N Revised	N Total	Type of Revision						
				THR	Femoral	Acetabular	Other	2 Yrs	5 Yrs	10 Yrs
Epoch	Trilogy*	47	990	1	9	10	27	2.7 (1.9, 4.0)	3.6 (2.6, 4.9)	4.5 (3.3, 6.0)
Exeter	Contemporary*	39	428	10	7	14	8	2.9 (1.6, 5.0)	4.2 (2.6, 6.6)	6.0 (4.0, 8.9)
Exeter	Vitalock*	70	1076	13	13	25	19	2.0 (1.3, 3.0)	2.3 (1.5, 3.4)	4.6 (3.4, 6.1)
Exeter V40	ABGII*	38	976	8	12	11	7	0.8 (0.4, 1.6)	1.8 (1.1, 2.9)	3.4 (2.4, 4.9)
Exeter V40	Contemporary	292	4593	73	47	138	34	2.1 (1.8, 2.6)	3.2 (2.7, 3.8)	5.6 (4.9, 6.4)
Exeter V40	Exeter Contemporary	161	2933	53	33	53	22	1.9 (1.5, 2.5)	3.0 (2.5, 3.7)	4.7 (3.9, 5.6)
Exeter V40	Exeter X3 Rimfit	96	4031	23	28	24	21	1.7 (1.3, 2.2)	2.4 (2.0, 3.0)	3.0 (2.4, 3.7)
Exeter V40	Exeter*	117	1526	27	16	54	20	1.3 (0.8, 2.0)	2.9 (2.1, 3.9)	4.6 (3.6, 5.9)
Exeter V40	Mallory-Head*	42	1434	7	24	4	7	0.8 (0.4, 1.4)	1.1 (0.7, 1.8)	2.4 (1.6, 3.4)
Exeter V40	PINNACLE	49	1990	2	19	11	17	1.5 (1.0, 2.2)	1.8 (1.3, 2.5)	3.8 (2.7, 5.3)
Exeter V40	Trabecular Metal (Shell)	21	450	2	3	2	14	3.0 (1.7, 5.1)	4.1 (2.6, 6.5)	5.2 (3.4, 8.1)
Exeter V40	Trident (Shell)	1965	69401	269	623	254	819	1.5 (1.4, 1.6)	2.3 (2.2, 2.4)	3.6 (3.4, 3.8)
Exeter V40	Trident/Tritanium (Shell)	110	4383	10	22	23	55	1.7 (1.4, 2.2)	2.6 (2.2, 3.2)	3.7 (2.9, 4.8)
Exeter V40	Trilogy*	18	517	2	5	2	9	2.3 (1.3, 4.1)	2.5 (1.5, 4.3)	3.7 (2.3, 5.9)
Exeter V40	Vitalock*	92	1795	17	26	25	24	1.4 (1.0, 2.1)	2.3 (1.7, 3.1)	3.2 (2.5, 4.2)
F2L	SPH-Blind*	62	571	10	20	16	16	3.9 (2.6, 5.8)	6.1 (4.4, 8.4)	7.6 (5.7, 10.2)
H-Max	Delta-TT	64	1558	4	28	9	23	2.5 (1.8, 3.4)	3.9 (3.0, 5.1)	7.2 (4.5, 11.3)
M/L Taper	Allofit	26	719	1	13	3	9	1.7 (1.0, 2.9)	2.2 (1.3, 3.6)	4.8 (3.1, 7.6)
M/L Taper	Continuum	53	1482	6	17	7	23	2.8 (2.1, 3.8)	3.5 (2.7, 4.6)	4.1 (3.1, 5.5)
M/L Taper	Trabecular Metal (Shell)*	16	362	1	4	3	8	1.7 (0.8, 3.7)	2.0 (0.9, 4.1)	4.9 (2.9, 8.3)
M/L Taper Kinectiv	Continuum*	90	2085	4	25	14	47	2.8 (2.2, 3.6)	3.5 (2.8, 4.4)	4.9 (3.9, 6.1)
MS 30	Allofit*	66	1539	14	19	20	13	1.3 (0.8, 2.0)	2.1 (1.5, 3.0)	3.5 (2.7, 4.7)
MS 30	Fitmore	28	758	1	8	9	10	1.0 (0.5, 2.0)	2.1 (1.2, 3.5)	3.0 (1.9, 4.9)
MS 30	Low Profile Cup*	24	603	10	3	9	2	0.5 (0.2, 1.5)	1.3 (0.6, 2.7)	2.8 (1.6, 4.9)
Mallory-Head	Mallory-Head*	208	2908	19	14	71	104	2.1 (1.6, 2.7)	3.0 (2.4, 3.7)	4.7 (3.9, 5.6)
Meridian	Vitalock*	41	354	2	3	16	20	1.4 (0.6, 3.4)	3.5 (2.0, 6.1)	6.7 (4.4, 10.0)
Metafix	Trinity	244	12437	28	67	54	95	1.8 (1.6, 2.1)	2.5 (2.2, 2.9)	3.6 (2.7, 4.7)
Natural Hip	Fitmore*	41	882	2	7	12	20	0.9 (0.5, 1.8)	2.0 (1.3, 3.2)	4.2 (3.0, 5.9)
Omnifit	Secur-Fit*	87	716	9	22	22	34	3.7 (2.5, 5.3)	6.2 (4.6, 8.2)	9.9 (7.9, 12.5)
Omnifit	Trident (Shell)	162	3838	13	40	30	79	2.2 (1.8, 2.7)	3.0 (2.5, 3.6)	3.9 (3.3, 4.6)
Polarstem	R3	389	14557	25	126	52	186	2.3 (2.0, 2.5)	3.0 (2.7, 3.4)	4.2 (3.5, 5.1)
Quadra-C	Versafitcup CC	35	1646	6	10	9	10	1.7 (1.2, 2.5)	2.0 (1.4, 2.8)	4.7 (2.7, 8.0)
Quadra-H	Mpact	174	5378	17	78	21	58	2.4 (2.0, 2.9)	4.2 (3.6, 5.0)	6.9 (5.1, 9.4)
Quadra-H	Versafitcup CC	646	16273	64	297	135	150	2.1 (1.9, 2.3)	3.2 (2.9, 3.5)	5.6 (5.1, 6.1)
S-Rom	Duraloc Option*	27	523	4	9	5	9	2.1 (1.2, 3.8)	3.3 (2.1, 5.2)	4.6 (3.1, 6.8)
S-Rom	PINNACLE	148	2549	15	83	14	36	2.9 (2.3, 3.6)	4.5 (3.7, 5.4)	5.8 (4.9, 6.8)
SL-Plus	EP-Fit Plus	124	2124	5	55	23	41	1.9 (1.4, 2.6)	3.4 (2.7, 4.3)	5.4 (4.5, 6.5)
SL-Plus	R3	96	1665	4	27	23	42	3.3 (2.5, 4.3)	4.4 (3.5, 5.5)	6.3 (5.1, 7.7)
Secur-Fit	Trident (Shell)	461	9690	28	201	83	149	2.4 (2.1, 2.8)	3.6 (3.2, 4.0)	4.7 (4.3, 5.2)
Secur-Fit Plus	Trident (Shell)	223	5847	16	59	56	92	1.6 (1.3, 1.9)	2.3 (1.9, 2.7)	3.3 (2.9, 3.9)
Spectron EF	BHR* ^{MoM}	72	430	14	0	49	9	2.6 (1.4, 4.6)	6.0 (4.1, 8.8)	15.8 (12.5, 19.9)
Spectron EF	R3	85	2070	13	13	17	42	2.3 (1.8, 3.1)	3.8 (3.0, 4.8)	5.1 (4.1, 6.4)
Spectron EF	Reflection (Cup)	123	1404	47	12	55	9	1.3 (0.8, 2.0)	2.9 (2.1, 4.0)	7.2 (5.8, 8.9)
Spectron EF	Reflection (Shell)*	313	4646	69	105	48	91	1.5 (1.2, 1.9)	2.7 (2.3, 3.2)	5.3 (4.6, 6.1)
Stability	Duraloc*	55	374	2	10	18	25	1.3 (0.6, 3.2)	2.2 (1.1, 4.3)	8.9 (6.3, 12.5)
Summit	ASR* ^{MoM}	487	1041	16	6	439	26	3.0 (2.1, 4.2)	20.1 (17.7, 22.7)	44.5 (41.5, 47.7)

Femoral Component	Acetabular Component	N Revised	N Total	Type of Revision						
				THR	Femoral	Acetabular	Other	2 Yrs	5 Yrs	10 Yrs
Summit	PINNACLE	163	5398	11	35	24	93	1.8 (1.5, 2.2)	2.3 (1.9, 2.7)	3.4 (2.9, 4.0)
Summit	PINNACLE* ^{MoM}	82	730	8	6	16	52	1.7 (0.9, 2.9)	3.5 (2.4, 5.1)	8.9 (7.0, 11.3)
Synergy	BHR* ^{MoM}	112	698	7	9	65	31	2.7 (1.8, 4.2)	4.8 (3.4, 6.7)	12.4 (10.1, 15.1)
Synergy	R3	149	4922	4	43	33	69	2.1 (1.7, 2.5)	2.6 (2.2, 3.1)	3.4 (2.9, 4.0)
Synergy	Reflection (Shell)	396	7512	35	86	132	143	2.0 (1.7, 2.3)	2.6 (2.3, 3.0)	3.9 (3.5, 4.4)
Synergy	Trident (Shell)*	17	438	0	4	6	7	1.2 (0.5, 2.7)	1.9 (0.9, 3.7)	3.8 (2.3, 6.3)
Taperloc	Exceed*	66	2191	6	20	24	16	1.9 (1.4, 2.6)	2.4 (1.9, 3.2)	3.5 (2.7, 4.6)
Taperloc	M2a* ^{MoM}	67	471	14	2	45	6	2.6 (1.5, 4.5)	6.9 (4.9, 9.6)	12.2 (9.5, 15.6)
Taperloc	Mallory-Head*	97	1903	10	19	31	37	2.3 (1.7, 3.0)	3.1 (2.4, 4.0)	5.0 (3.9, 6.3)
Taperloc	Recap* ^{MoM}	51	456	13	7	24	7	2.4 (1.4, 4.4)	5.6 (3.8, 8.2)	9.8 (7.3, 13.0)
Taperloc	Regenerex*	15	530	2	4	3	6	1.9 (1.0, 3.5)	2.3 (1.3, 4.0)	3.4 (2.0, 5.7)
Trabecular Metal	Allofit*	21	435	2	5	4	10	3.0 (1.8, 5.1)	4.4 (2.9, 6.9)	5.0 (3.3, 7.6)
Trabecular Metal	Continuum*	44	645	2	16	8	18	5.7 (4.2, 7.8)	6.5 (4.9, 8.7)	6.9 (5.2, 9.2)
Tri-Lock	DeltaMotion*	17	755	2	4	8	3	0.9 (0.4, 1.9)	1.5 (0.8, 2.6)	2.4 (1.5, 3.9)
Tri-Lock	PINNACLE	25	1014	0	10	6	9	1.7 (1.0, 2.7)	2.4 (1.6, 3.7)	2.8 (1.9, 4.3)
VerSys	Trilogy*	253	4432	18	88	44	103	3.0 (2.6, 3.6)	3.9 (3.4, 4.5)	5.2 (4.6, 5.9)
TOTAL		17284	368443	2207	5155	4575	5347			

Note: Only prostheses with >350 procedures have been listed

* denotes prosthesis combinations that have not had any reported use in primary total hip procedures in 2021

^{MoM} refers to metal/metal prosthesis combinations used with head sizes >32mm



Table CP2 Cumulative Percent Revision of Primary Total Knee Replacement Combinations with 10 Year Data (Primary Diagnosis OA)

Femoral Component	Tibial Component	N Revised	N Total	Type of Revision				2 Yrs	5 Yrs	10 Yrs
				TKR	Femoral	Tibial	Other			
ACS	ACS Mobile	83	1847	32	8	4	39	3.1 (2.3, 4.0)	4.9 (3.9, 6.2)	6.2 (4.9, 7.8)
AGC	AGC*	324	5028	144	5	26	149	1.7 (1.4, 2.1)	3.2 (2.8, 3.8)	5.0 (4.4, 5.6)
Active Knee	Active Knee	825	10289	239	29	42	515	2.5 (2.2, 2.8)	4.7 (4.3, 5.2)	8.2 (7.6, 8.8)
Advance	Advance	65	987	25	4	8	28	3.9 (2.9, 5.4)	6.0 (4.6, 7.7)	7.7 (6.0, 9.8)
Advance	Advance II	115	1622	46	3	13	53	3.6 (2.8, 4.6)	5.1 (4.1, 6.3)	6.8 (5.6, 8.2)
BalanSys	BalanSys	105	4214	28	6	7	64	1.4 (1.1, 1.8)	2.3 (1.9, 2.9)	3.8 (3.0, 4.8)
Buechel-Pappas	Buechel-Pappas*	53	467	18	2	2	31	4.3 (2.8, 6.6)	8.1 (5.9, 11.0)	10.7 (8.2, 14.0)
Columbus	Columbus	165	5183	38	8	9	110	2.2 (1.8, 2.7)	4.4 (3.6, 5.3)	7.3 (6.0, 8.8)
Duracon	Duracon*	1307	19828	359	31	68	849	2.1 (1.9, 2.3)	3.5 (3.2, 3.7)	5.2 (4.9, 5.5)
E.Motion	E.Motion	66	991	18	9	4	35	4.4 (3.3, 5.9)	6.6 (5.2, 8.4)	7.3 (5.8, 9.2)
GMK Primary	GMK Primary	105	2959	32	2	15	56	2.6 (2.1, 3.3)	3.8 (3.1, 4.7)	4.8 (4.0, 5.9)
Genesis II CR	Genesis II	1154	25271	241	71	56	786	2.0 (1.8, 2.2)	3.5 (3.3, 3.7)	5.0 (4.7, 5.3)
Genesis II CR	Profix Mobile*	134	1209	57	9	8	60	2.7 (1.9, 3.8)	5.4 (4.2, 6.8)	8.8 (7.2, 10.6)
Genesis II Oxinium CR (ctd)	Genesis II	553	10026	104	28	25	396	1.9 (1.6, 2.2)	3.5 (3.1, 3.9)	6.0 (5.5, 6.6)
Genesis II Oxinium PS (ctd)	Genesis II	1306	21367	182	33	168	923	2.8 (2.6, 3.0)	5.0 (4.7, 5.3)	7.3 (6.9, 7.7)
Genesis II PS	Genesis II	901	20378	161	32	58	650	2.1 (1.9, 2.3)	3.7 (3.4, 4.0)	5.1 (4.8, 5.5)
Journey Oxinium	Journey*	360	2975	62	5	30	263	3.4 (2.8, 4.1)	6.5 (5.7, 7.5)	11.1 (10.0, 12.4)
Kinemax Plus	Kinemax Plus*	133	1815	77	3	5	48	1.8 (1.3, 2.6)	3.2 (2.4, 4.1)	4.6 (3.7, 5.8)
LCS CR	LCS	624	8335	255	24	90	255	2.5 (2.1, 2.8)	4.4 (4.0, 4.9)	6.4 (5.9, 7.0)
LCS CR	MBT	1393	32926	475	65	156	697	1.9 (1.8, 2.1)	3.5 (3.3, 3.7)	4.9 (4.6, 5.2)
LCS CR	MBT Duofix	850	15247	247	35	43	525	2.7 (2.4, 2.9)	4.1 (3.8, 4.4)	5.3 (5.0, 5.7)
LCS Duofix	MBT Duofix*	514	3606	360	27	8	119	3.7 (3.2, 4.4)	10.2 (9.2, 11.2)	13.3 (12.3, 14.5)
LCS Duofix	MBT*	136	1169	94	9	2	31	3.3 (2.4, 4.5)	8.1 (6.7, 9.9)	11.9 (10.1, 13.9)
LCS PS	MBT*	44	481	11	5	1	27	4.6 (3.1, 7.0)	6.6 (4.7, 9.3)	9.9 (7.4, 13.1)
Legion CR	Genesis II	228	7532	43	17	9	159	2.2 (1.9, 2.6)	3.7 (3.3, 4.3)	5.2 (4.4, 6.3)
Legion Oxinium CR	Genesis II	220	8804	53	17	5	145	1.7 (1.5, 2.1)	3.5 (3.1, 4.1)	4.5 (3.8, 5.2)
Legion Oxinium PS	Genesis II	644	16070	92	19	55	478	2.2 (2.0, 2.5)	4.1 (3.8, 4.4)	5.8 (5.3, 6.3)
Legion PS	Genesis II	186	5791	47	4	7	128	1.9 (1.6, 2.3)	3.1 (2.7, 3.7)	4.3 (3.7, 5.1)
MBK (Zimmer)	Nexgen*	37	448	21	1	1	14	2.3 (1.2, 4.1)	4.1 (2.6, 6.5)	6.2 (4.2, 8.9)
MRK	MRK	27	742	7	1	0	19	1.9 (1.1, 3.3)	2.8 (1.8, 4.4)	4.4 (2.9, 6.6)
Maxim	Maxim*	140	1819	45	11	6	78	2.1 (1.5, 2.8)	3.4 (2.6, 4.3)	5.2 (4.3, 6.4)
Maxim	Vanguard*	94	628	43	6	6	39	3.1 (2.0, 4.8)	5.6 (4.0, 7.7)	8.3 (6.3, 10.9)
Natural Knee Flex	Natural Knee II	161	6185	45	8	8	100	1.5 (1.2, 1.9)	2.4 (2.0, 2.8)	3.3 (2.8, 3.9)
Natural Knee II	Natural Knee II*	446	6443	202	10	60	174	1.6 (1.4, 2.0)	2.8 (2.4, 3.2)	5.0 (4.5, 5.6)
Nexgen CR	Nexgen	437	11566	140	22	32	243	1.2 (1.1, 1.5)	2.2 (1.9, 2.5)	3.1 (2.8, 3.5)
Nexgen CR	Nexgen TM CR	55	867	19	4	11	21	2.5 (1.6, 3.7)	5.5 (4.1, 7.3)	6.5 (4.9, 8.5)
Nexgen CR Flex	Nexgen	1543	60035	373	110	130	930	1.4 (1.3, 1.5)	2.3 (2.2, 2.4)	3.1 (3.0, 3.3)
Nexgen CR Flex	Nexgen TM CR	343	12235	112	23	29	179	1.2 (1.1, 1.5)	2.2 (2.0, 2.5)	3.2 (2.8, 3.6)
Nexgen LCKK	Nexgen	50	953	8	3	1	38	3.1 (2.2, 4.5)	4.9 (3.6, 6.6)	6.2 (4.6, 8.5)
Nexgen LPS	Nexgen	372	7021	98	21	33	220	1.9 (1.6, 2.3)	3.3 (2.9, 3.7)	4.9 (4.4, 5.5)
Nexgen LPS	Nexgen TM LPS	34	1476	11	3	6	14	1.0 (0.6, 1.6)	2.2 (1.5, 3.1)	2.8 (1.9, 4.0)
Nexgen LPS Flex	Nexgen	1624	37580	453	69	243	859	1.8 (1.6, 1.9)	3.1 (3.0, 3.3)	5.0 (4.8, 5.3)
Nexgen LPS Flex	Nexgen TM LPS	71	1576	34	4	6	27	2.0 (1.4, 2.8)	3.5 (2.7, 4.5)	4.5 (3.6, 5.8)
Nexgen RH	Nexgen	31	593	3	5	3	20	2.9 (1.8, 4.7)	5.1 (3.4, 7.6)	8.8 (6.0, 12.9)
Optetrak-CR	Optetrak*	55	504	23	3	4	25	3.2 (2.0, 5.2)	6.1 (4.3, 8.7)	9.8 (7.4, 13.0)
Optetrak-PS	Optetrak RBK*	92	1112	26	3	3	60	2.8 (2.0, 3.9)	5.9 (4.6, 7.4)	8.4 (6.7, 10.4)
Optetrak-PS	Optetrak*	290	2363	134	6	27	123	3.4 (2.8, 4.2)	6.3 (5.4, 7.3)	11.7 (10.4, 13.1)

Femoral Component	Tibial Component	N Revised	N Total	Type of Revision						
				TKR	Femoral	Tibial	Other	2 Yrs	5 Yrs	10 Yrs
PFC Sigma CR	MBT	331	6273	67	35	45	184	2.6 (2.3, 3.1)	3.9 (3.5, 4.4)	5.1 (4.5, 5.7)
PFC Sigma CR	MBT Duofix*	166	3314	27	18	6	115	2.4 (1.9, 3.0)	3.5 (2.9, 4.2)	4.9 (4.1, 5.7)
PFC Sigma CR	PFC Sigma	883	24874	226	55	66	536	1.5 (1.3, 1.7)	2.5 (2.3, 2.7)	3.5 (3.3, 3.8)
PFC Sigma PS	MBT	357	6332	122	16	24	195	2.2 (1.9, 2.6)	3.9 (3.5, 4.4)	5.4 (4.8, 6.0)
PFC Sigma PS	MBT Duofix*	177	2212	39	4	6	128	3.5 (2.8, 4.3)	5.9 (5.0, 7.0)	8.1 (7.0, 9.4)
PFC Sigma PS	PFC Sigma	378	8040	130	12	28	208	2.0 (1.7, 2.3)	3.3 (2.9, 3.7)	4.7 (4.2, 5.3)
Profix	Profix Mobile*	111	986	40	6	5	60	5.1 (3.9, 6.7)	8.2 (6.6, 10.1)	9.9 (8.1, 12.0)
Profix	Profix*	307	5370	73	13	18	203	2.3 (1.9, 2.8)	3.8 (3.3, 4.3)	5.4 (4.8, 6.1)
Profix Oxinium (ctd)	Profix*	109	1049	24	5	14	66	4.1 (3.1, 5.5)	7.0 (5.6, 8.7)	8.9 (7.3, 10.8)
RBK	RBK	561	11000	215	15	43	288	2.3 (2.0, 2.6)	3.9 (3.6, 4.3)	5.3 (4.9, 5.8)
Rocc	Rocc*	45	575	17	1	2	25	3.3 (2.1, 5.2)	5.2 (3.6, 7.3)	6.8 (5.0, 9.3)
Rotaglide Plus	Rotaglide Plus*	81	616	37	1	5	38	3.3 (2.2, 5.1)	5.8 (4.1, 8.0)	11.2 (8.8, 14.2)
Score	Score	362	5712	145	20	11	186	3.2 (2.8, 3.8)	6.2 (5.5, 6.9)	9.7 (8.6, 10.9)
Scorpio CR	Scorpio+*	203	2448	45	10	34	114	2.1 (1.6, 2.7)	4.3 (3.6, 5.2)	7.1 (6.2, 8.3)
Scorpio CR	Series 7000*	640	11561	163	27	47	403	1.8 (1.6, 2.1)	3.3 (3.0, 3.6)	5.2 (4.7, 5.6)
Scorpio NRG CR	Series 7000*	212	5070	54	15	13	130	2.1 (1.7, 2.5)	3.2 (2.7, 3.7)	4.5 (3.9, 5.2)
Scorpio NRG PS	Series 7000*	184	3931	37	8	19	120	2.0 (1.6, 2.5)	3.7 (3.1, 4.3)	4.6 (3.9, 5.3)
Scorpio PS	Scorpio*	36	524	10	0	11	15	2.1 (1.2, 3.8)	4.5 (3.0, 6.7)	6.1 (4.3, 8.6)
Scorpio PS	Scorpio+*	157	2036	44	14	10	89	2.7 (2.1, 3.5)	5.1 (4.2, 6.2)	6.7 (5.7, 8.0)
Scorpio PS	Series 7000*	364	4696	124	9	70	161	2.6 (2.1, 3.1)	4.7 (4.1, 5.3)	6.8 (6.1, 7.6)
Trekking	Trekking	62	1246	26	7	3	26	3.0 (2.2, 4.1)	4.7 (3.6, 6.1)	6.3 (4.8, 8.3)
Triathlon CR	Triathlon	2911	125118	533	117	136	2125	1.5 (1.4, 1.6)	2.5 (2.4, 2.6)	3.7 (3.6, 3.9)
Triathlon PS	Triathlon	588	13531	110	30	74	374	2.4 (2.1, 2.6)	3.9 (3.5, 4.2)	5.5 (5.1, 6.0)
Vanguard CR	Regenerex	88	1708	23	5	10	50	2.7 (2.0, 3.5)	4.0 (3.2, 5.1)	6.6 (5.2, 8.2)
Vanguard CR	Vanguard	1013	27014	231	38	71	673	1.7 (1.6, 1.9)	3.0 (2.8, 3.2)	4.9 (4.6, 5.3)
Vanguard PS	Regenerex*	38	462	15	2	4	17	5.0 (3.3, 7.4)	7.4 (5.4, 10.2)	9.0 (6.5, 12.5)
Vanguard PS	Vanguard	322	5216	80	7	58	177	3.4 (3.0, 4.0)	5.2 (4.6, 5.9)	7.3 (6.5, 8.2)
TOTAL		29181	671477	7994	1313	2366	17508			

Note: Only prostheses with >350 procedures have been listed

* Denotes prosthesis combinations that have not had any reported use in primary total knee procedures in 2021

Fifteen Year Outcomes

HIP REPLACEMENT

There are 71 hip prosthesis combinations listed that have been used in >350 procedures and have data to at least 15 years. These listed prosthesis combinations were used in 55.5% of all primary total conventional hip replacement procedures performed for osteoarthritis.

The 15 year cumulative percent revision ranges from 4.0% to 53.4%. The benchmark standard used to assess superiority and non-inferiority performance at 15 years is 6.3%. There are 7 (9.9%) hip prosthesis combinations that qualify for a superiority benchmark (highlighted in green). An additional 8 (21.1%) prosthesis combinations qualify for a non-inferiority benchmark (highlighted in blue) (Table CP3).

KNEE REPLACEMENT

There are 55 knee prosthesis combinations that have been used in >350 procedures and have data to at least 15 years. The listed prosthesis combinations were used in 74.9% of all primary total knee replacement procedures performed for osteoarthritis.

The 15 year cumulative percent revision ranges from 3.4% to 17.4%. The benchmark used to assess superiority and non-inferiority at 15 years is 6.4%. There are 6 (10.9%) knee prosthesis combinations that qualify for a superiority benchmark (highlighted in green). An additional 11 (30.9%) prosthesis combinations qualify for a non-inferiority benchmark (highlighted in blue) (Table CP4).

Table CP3 Cumulative Percent Revision of Primary Total Conventional Hip Replacement Combinations with 15 Year Data (Primary Diagnosis OA)

Femoral Component	Acetabular Component	N Revised	N Total	Type of Revision			5 Yrs	10 Yrs	15 Yrs	
				THR	Femoral	Acetabular				Other
ABGII	ABGII (Shell/Insert)*	88	853	18	47	16	7	2.7 (1.8, 4.1)	6.6 (5.1, 8.6)	10.6 (8.5, 13.2)
ABGII	ABGII*	339	2772	54	166	80	39	4.1 (3.5, 5.0)	6.9 (6.0, 7.9)	12.0 (10.7, 13.5)
ABGII	Trident (Shell)*	261	2439	14	166	33	48	5.0 (4.2, 5.9)	8.6 (7.5, 9.9)	13.4 (11.8, 15.1)
Accolade I	Trident (Shell)*	536	8573	63	208	105	160	3.8 (3.4, 4.2)	5.7 (5.2, 6.2)	7.2 (6.6, 7.9)
Adapter	Bionik* ^{MoM}	97	376	21	9	23	44	15.3 (12.0, 19.5)	25.1 (20.8, 30.0)	29.5 (24.8, 34.9)
Alloclassic	Allofit	317	5161	34	139	53	91	2.9 (2.4, 3.4)	5.0 (4.4, 5.7)	8.1 (7.2, 9.1)
Alloclassic	Durom* ^{MoM}	102	547	27	14	47	14	7.4 (5.5, 10.0)	16.3 (13.3, 19.9)	21.6 (18.1, 25.8)
Alloclassic	Fitmore*	137	1709	15	69	16	37	5.6 (4.6, 6.8)	7.4 (6.2, 8.8)	9.3 (7.8, 11.0)
Alloclassic	Metasul*	23	371	4	2	11	6	3.6 (2.1, 6.1)	5.2 (3.3, 8.1)	6.6 (4.4, 9.8)
Alloclassic	Trabecular Metal (Shell)*	50	957	5	15	5	25	4.0 (2.9, 5.5)	5.2 (3.9, 6.9)	6.3 (4.7, 8.3)
Anthology	Reflection (Shell)*	41	909	4	15	14	8	3.0 (2.1, 4.4)	4.7 (3.4, 6.3)	5.2 (3.8, 7.0)
Apex	Fin II*	56	924	7	12	22	15	3.4 (2.4, 4.8)	6.0 (4.5, 7.8)	7.8 (5.9, 10.3)
C-Stem	Duraloc*	93	894	13	26	14	40	3.8 (2.7, 5.3)	6.9 (5.3, 8.9)	12.0 (9.7, 14.8)
C-Stem	Elite Plus LPW*	24	367	11	4	9	0	2.7 (1.4, 5.0)	5.3 (3.3, 8.6)	8.6 (5.6, 12.9)
CLS	Allofit	62	817	6	34	14	8	3.9 (2.7, 5.4)	6.1 (4.6, 8.1)	8.5 (6.5, 11.0)
CLS	Fitmore	59	968	9	23	9	18	3.9 (2.8, 5.4)	5.2 (3.8, 7.0)	8.8 (6.6, 11.6)
CORAIL	ASR* ^{MoM}	1270	2654	229	42	938	61	27.5 (25.8, 29.3)	46.4 (44.4, 48.4)	53.4 (51.3, 55.6)
CORAIL	Duraloc*	102	1267	18	43	16	25	2.5 (1.8, 3.6)	5.2 (4.0, 6.6)	10.1 (8.2, 12.5)
CORAIL	PINNACLE	1926	54201	172	719	297	738	3.0 (2.9, 3.2)	4.8 (4.5, 5.0)	7.9 (7.0, 8.8)
CORAIL	PINNACLE* ^{MoM}	120	880	18	41	20	41	6.1 (4.7, 8.0)	12.2 (10.1, 14.7)	16.2 (13.5, 19.4)
CPCS	Reflection (Cup)	77	811	26	3	35	13	2.8 (1.8, 4.3)	8.3 (6.1, 11.1)	19.1 (15.2, 24.0)
CPCS	Reflection (Shell)	109	2780	14	48	14	33	1.7 (1.3, 2.3)	3.4 (2.7, 4.3)	6.5 (5.2, 8.1)
CPT	Allofit	54	1645	9	22	5	18	2.8 (2.0, 3.9)	5.1 (3.8, 6.9)	8.0 (5.2, 12.4)
CPT	Trabecular Metal (Shell)	95	2014	8	41	18	28	4.0 (3.1, 5.0)	6.0 (4.8, 7.5)	9.5 (7.1, 12.7)
CPT	Trilogy	374	7727	37	142	41	154	3.4 (3.0, 3.9)	5.3 (4.8, 5.9)	6.8 (6.1, 7.7)
CPT	ZCA	39	859	13	9	10	7	2.4 (1.5, 3.7)	4.7 (3.3, 6.7)	6.4 (4.4, 9.2)
Charnley	Charnley Ogee*	64	630	38	9	5	12	5.1 (3.6, 7.2)	9.1 (6.9, 11.9)	13.4 (10.4, 17.0)
Charnley	Charnley*	49	563	39	7	3	0	2.2 (1.3, 3.9)	6.5 (4.6, 9.1)	10.7 (8.0, 14.2)
Charnley	Vitalock*	42	370	8	20	3	11	4.4 (2.7, 7.1)	7.9 (5.5, 11.4)	11.5 (8.4, 15.7)
Citation	Trident (Shell)*	59	1035	3	17	16	23	3.3 (2.4, 4.6)	4.4 (3.3, 5.9)	6.1 (4.7, 7.9)
Citation	Vitalock*	48	508	4	8	18	18	2.0 (1.1, 3.7)	5.2 (3.5, 7.7)	9.1 (6.7, 12.4)
Elite Plus	Duraloc*	112	953	18	65	6	23	5.1 (3.9, 6.8)	9.2 (7.4, 11.5)	14.9 (12.3, 18.0)
Epoch	Trilogy*	47	990	1	9	10	27	3.6 (2.6, 4.9)	4.5 (3.3, 6.0)	5.0 (3.8, 6.7)
Exeter	Contemporary*	39	428	10	7	14	8	4.2 (2.6, 6.6)	6.0 (4.0, 8.9)	12.6 (9.0, 17.3)
Exeter	Vitalock*	70	1076	13	13	25	19	2.3 (1.5, 3.4)	4.6 (3.4, 6.1)	6.8 (5.3, 8.7)
Exeter V40	ABGII*	38	976	8	12	11	7	1.8 (1.1, 2.9)	3.4 (2.4, 4.9)	4.5 (3.2, 6.2)
Exeter V40	Contemporary	292	4593	73	47	138	34	3.2 (2.7, 3.8)	5.6 (4.9, 6.4)	9.0 (7.9, 10.2)
Exeter V40	Exeter Contemporary	161	2933	53	33	53	22	3.0 (2.5, 3.7)	4.7 (3.9, 5.6)	7.9 (6.6, 9.4)
Exeter V40	Exeter*	117	1526	27	16	54	20	2.9 (2.1, 3.9)	4.6 (3.6, 5.9)	9.7 (7.9, 11.8)
Exeter V40	Mallory-Head*	42	1434	7	24	4	7	1.1 (0.7, 1.8)	2.4 (1.6, 3.4)	4.3 (3.0, 6.1)
Exeter V40	Trident (Shell)	1965	69401	269	623	254	819	2.3 (2.2, 2.4)	3.6 (3.4, 3.8)	5.3 (5.0, 5.6)
Exeter V40	Trilogy*	18	517	2	5	2	9	2.5 (1.5, 4.3)	3.7 (2.3, 5.9)	4.0 (2.5, 6.4)
Exeter V40	Vitalock*	92	1795	17	26	25	24	2.3 (1.7, 3.1)	3.2 (2.5, 4.2)	5.0 (4.0, 6.3)

Femoral Component	Acetabular Component	N Revised	N Total	Type of Revision				5 Yrs	10 Yrs	15 Yrs
				THR	Femoral	Acetabular	Other			
F2L	SPH-Blind*	62	571	10	20	16	16	6.1 (4.4, 8.4)	7.6 (5.7, 10.2)	11.5 (8.9, 14.6)
MS 30	Allofit*	66	1539	14	19	20	13	2.1 (1.5, 3.0)	3.5 (2.7, 4.7)	6.5 (4.9, 8.6)
MS 30	Fitmore	28	758	1	8	9	10	2.1 (1.2, 3.5)	3.0 (1.9, 4.9)	7.1 (4.6, 10.7)
MS 30	Low Profile Cup*	24	603	10	3	9	2	1.3 (0.6, 2.7)	2.8 (1.6, 4.9)	5.1 (3.1, 8.4)
Mallory-Head	Mallory-Head*	208	2908	19	14	71	104	3.0 (2.4, 3.7)	4.7 (3.9, 5.6)	8.5 (7.4, 9.9)
Meridian	Vitalock*	41	354	2	3	16	20	3.5 (2.0, 6.1)	6.7 (4.4, 10.0)	11.3 (8.3, 15.5)
Natural Hip	Fitmore*	41	882	2	7	12	20	2.0 (1.3, 3.2)	4.2 (3.0, 5.9)	4.9 (3.5, 6.7)
Omnifit	Secur-Fit*	87	716	9	22	22	34	6.2 (4.6, 8.2)	9.9 (7.9, 12.5)	13.1 (10.6, 16.1)
Omnifit	Trident (Shell)	162	3838	13	40	30	79	3.0 (2.5, 3.6)	3.9 (3.3, 4.6)	5.1 (4.3, 6.0)
S-Rom	Duraloc Option*	27	523	4	9	5	9	3.3 (2.1, 5.2)	4.6 (3.1, 6.8)	5.0 (3.4, 7.3)
S-Rom	PINNACLE	148	2549	15	83	14	36	4.5 (3.7, 5.4)	5.8 (4.9, 6.8)	7.3 (6.1, 8.7)
SL-Plus	EP-Fit Plus	124	2124	5	55	23	41	3.4 (2.7, 4.3)	5.4 (4.5, 6.5)	6.7 (5.6, 7.9)
Secur-Fit	Trident (Shell)	461	9690	28	201	83	149	3.6 (3.2, 4.0)	4.7 (4.3, 5.2)	6.1 (5.5, 6.8)
Secur-Fit Plus	Trident (Shell)	223	5847	16	59	56	92	2.3 (1.9, 2.7)	3.3 (2.9, 3.9)	4.5 (3.9, 5.2)
Spectron EF	BHR* ^{MoM}	72	430	14	0	49	9	6.0 (4.1, 8.8)	15.8 (12.5, 19.9)	21.3 (16.7, 27.0)
Spectron EF	Reflection (Cup)	123	1404	47	12	55	9	2.9 (2.1, 4.0)	7.2 (5.8, 8.9)	13.5 (11.2, 16.2)
Spectron EF	Reflection (Shell)*	313	4646	69	105	48	91	2.7 (2.3, 3.2)	5.3 (4.6, 6.1)	9.1 (8.1, 10.2)
Stability	Duraloc*	55	374	2	10	18	25	2.2 (1.1, 4.3)	8.9 (6.3, 12.5)	15.9 (12.1, 20.6)
Summit	ASR* ^{MoM}	487	1041	16	6	439	26	20.1 (17.7, 22.7)	44.5 (41.5, 47.7)	50.7 (47.5, 54.0)
Summit	PINNACLE	163	5398	11	35	24	93	2.3 (1.9, 2.7)	3.4 (2.9, 4.0)	5.3 (4.2, 6.6)
Summit	PINNACLE* ^{MoM}	82	730	8	6	16	52	3.5 (2.4, 5.1)	8.9 (7.0, 11.3)	11.6 (9.3, 14.4)
Synergy	BHR* ^{MoM}	112	698	7	9	65	31	4.8 (3.4, 6.7)	12.4 (10.1, 15.1)	17.9 (14.9, 21.3)
Synergy	Reflection (Shell)	396	7512	35	86	132	143	2.6 (2.3, 3.0)	3.9 (3.5, 4.4)	5.7 (5.1, 6.3)
Synergy	Trident (Shell)*	17	438	0	4	6	7	1.9 (0.9, 3.7)	3.8 (2.3, 6.3)	5.5 (3.1, 9.5)
Taperloc	M2a* ^{MoM}	67	471	14	2	45	6	6.9 (4.9, 9.6)	12.2 (9.5, 15.6)	15.3 (12.2, 19.1)
Taperloc	Mallory-Head*	97	1903	10	19	31	37	3.1 (2.4, 4.0)	5.0 (3.9, 6.3)	7.3 (5.7, 9.4)
Taperloc	Recap* ^{MoM}	51	456	13	7	24	7	5.6 (3.8, 8.2)	9.8 (7.3, 13.0)	12.1 (9.3, 15.7)
VerSys	Trilogy*	253	4432	18	88	44	103	3.9 (3.4, 4.5)	5.2 (4.6, 5.9)	6.1 (5.4, 6.9)
TOTAL		13696	256038	1851	3932	3888	4025			

Note: Only prostheses with >350 procedures have been listed

* denotes prosthesis combinations with no reported use in primary total conventional hip procedures in 2021

^{MoM} refers to metal/metal prosthesis combinations used with head sizes >32mm

Table CP4 Cumulative Percent Revision of Primary Total Knee Replacement Combinations with 15 Year Data (Primary Diagnosis OA)

Femoral Component	Tibial Component	N Revised	N Total	Type of Revision				5 Yrs	10 Yrs	15 Yrs
				TKR	Femoral	Tibial	Other			
AGC	AGC*	324	5028	144	5	26	149	3.2 (2.8, 3.8)	5.0 (4.4, 5.6)	7.7 (6.9, 8.7)
Active Knee	Active Knee	825	10289	239	29	42	515	4.7 (4.3, 5.2)	8.2 (7.6, 8.8)	11.8 (11.0, 12.8)
Advance	Advance	65	987	25	4	8	28	6.0 (4.6, 7.7)	7.7 (6.0, 9.8)	7.7 (6.0, 9.8)
Advance	Advance II	115	1622	46	3	13	53	5.1 (4.1, 6.3)	6.8 (5.6, 8.2)	7.6 (6.3, 9.2)
BalanSys	BalanSys	105	4214	28	6	7	64	2.3 (1.9, 2.9)	3.8 (3.0, 4.8)	5.3 (3.5, 8.1)
Columbus	Columbus	165	5183	38	8	9	110	4.4 (3.6, 5.3)	7.3 (6.0, 8.8)	9.5 (7.3, 12.4)
Duracon	Duracon*	1307	19828	359	31	68	849	3.5 (3.2, 3.7)	5.2 (4.9, 5.5)	7.3 (6.9, 7.7)
Genesis II CR	Genesis II	1154	25271	241	71	56	786	3.5 (3.3, 3.7)	5.0 (4.7, 5.3)	6.2 (5.8, 6.6)
Genesis II CR	Profix Mobile*	134	1209	57	9	8	60	5.4 (4.2, 6.8)	8.8 (7.2, 10.6)	12.5 (10.5, 14.8)
Genesis II Oxinium CR (ctd)	Genesis II	553	10026	104	28	25	396	3.5 (3.1, 3.9)	6.0 (5.5, 6.6)	8.6 (7.8, 9.4)
Genesis II Oxinium PS (ctd)	Genesis II	1306	21367	182	33	168	923	5.0 (4.7, 5.3)	7.3 (6.9, 7.7)	9.7 (9.0, 10.4)
Genesis II PS	Genesis II	901	20378	161	32	58	650	3.7 (3.4, 4.0)	5.1 (4.8, 5.5)	6.5 (5.9, 7.0)
Journey Oxinium	Journey*	360	2975	62	5	30	263	6.5 (5.7, 7.5)	11.1 (10.0, 12.4)	17.4 (14.7, 20.6)
Kinemax Plus	Kinemax Plus*	133	1815	77	3	5	48	3.2 (2.4, 4.1)	4.6 (3.7, 5.8)	8.0 (6.7, 9.5)
LCS CR	LCS	624	8335	255	24	90	255	4.4 (4.0, 4.9)	6.4 (5.9, 7.0)	8.1 (7.5, 8.8)
LCS CR	MBT	1393	32926	475	65	156	697	3.5 (3.3, 3.7)	4.9 (4.6, 5.2)	6.1 (5.7, 6.5)
LCS CR	MBT Duofix	850	15247	247	35	43	525	4.1 (3.8, 4.4)	5.3 (5.0, 5.7)	7.3 (6.7, 7.8)
LCS Duofix	MBT Duofix*	514	3606	360	27	8	119	10.2 (9.2, 11.2)	13.3 (12.3, 14.5)	15.7 (14.4, 17.0)
LCS Duofix	MBT*	136	1169	94	9	2	31	8.1 (6.7, 9.9)	11.9 (10.1, 13.9)	12.8 (10.9, 15.0)
MBK (Zimmer)	Nexgen*	37	448	21	1	1	14	4.1 (2.6, 6.5)	6.2 (4.2, 8.9)	8.1 (5.8, 11.4)
Maxim	Maxim*	140	1819	45	11	6	78	3.4 (2.6, 4.3)	5.2 (4.3, 6.4)	9.1 (7.7, 10.8)
Maxim	Vanguard*	94	628	43	6	6	39	5.6 (4.0, 7.7)	8.3 (6.3, 10.9)	14.8 (11.9, 18.3)
Natural Knee II	Natural Knee II*	446	6443	202	10	60	174	2.8 (2.4, 3.2)	5.0 (4.5, 5.6)	8.9 (8.1, 9.8)
Nexgen CR	Nexgen	437	11566	140	22	32	243	2.2 (1.9, 2.5)	3.1 (2.8, 3.5)	4.5 (4.1, 5.0)
Nexgen CR	Nexgen TM CR	55	867	19	4	11	21	5.5 (4.1, 7.3)	6.5 (4.9, 8.5)	7.7 (5.8, 10.1)
Nexgen CR Flex	Nexgen	1543	60035	373	110	130	930	2.3 (2.2, 2.4)	3.1 (3.0, 3.3)	4.0 (3.7, 4.3)
Nexgen CR Flex	Nexgen TM CR	343	12235	112	23	29	179	2.2 (2.0, 2.5)	3.2 (2.8, 3.6)	4.6 (3.9, 5.3)
Nexgen LPS	Nexgen	372	7021	98	21	33	220	3.3 (2.9, 3.7)	4.9 (4.4, 5.5)	6.5 (5.8, 7.2)
Nexgen LPS	Nexgen TM LPS	34	1476	11	3	6	14	2.2 (1.5, 3.1)	2.8 (1.9, 4.0)	3.4 (2.3, 4.9)
Nexgen LPS Flex	Nexgen	1624	37580	453	69	243	859	3.1 (3.0, 3.3)	5.0 (4.8, 5.3)	6.8 (6.4, 7.2)
Nexgen LPS Flex	Nexgen TM LPS	71	1576	34	4	6	27	3.5 (2.7, 4.5)	4.5 (3.6, 5.8)	6.9 (4.7, 10.1)
Optetrak-CR	Optetrak*	55	504	23	3	4	25	6.1 (4.3, 8.7)	9.8 (7.4, 13.0)	14.1 (10.7, 18.5)
Optetrak-PS	Optetrak RBK*	92	1112	26	3	3	60	5.9 (4.6, 7.4)	8.4 (6.7, 10.4)	12.2 (9.5, 15.5)
Optetrak-PS	Optetrak*	290	2363	134	6	27	123	6.3 (5.4, 7.3)	11.7 (10.4, 13.1)	14.6 (13.1, 16.4)
PFC Sigma CR	MBT	331	6273	67	35	45	184	3.9 (3.5, 4.4)	5.1 (4.5, 5.7)	6.5 (5.8, 7.4)
PFC Sigma CR	MBT Duofix*	166	3314	27	18	6	115	3.5 (2.9, 4.2)	4.9 (4.1, 5.7)	7.2 (6.0, 8.7)
PFC Sigma CR	PFC Sigma	883	24874	226	55	66	536	2.5 (2.3, 2.7)	3.5 (3.3, 3.8)	5.2 (4.8, 5.6)
PFC Sigma PS	MBT	357	6332	122	16	24	195	3.9 (3.5, 4.4)	5.4 (4.8, 6.0)	7.2 (6.4, 8.2)
PFC Sigma PS	MBT Duofix*	177	2212	39	4	6	128	5.9 (5.0, 7.0)	8.1 (7.0, 9.4)	10.2 (8.7, 11.9)

Femoral Component	Tibial Component	N Revised	N Total	Type of Revision				5 Yrs	10 Yrs	15 Yrs
				TKR	Femoral	Tibial	Other			
PFC Sigma PS	PFC Sigma	378	8040	130	12	28	208	3.3 (2.9, 3.7)	4.7 (4.2, 5.3)	6.5 (5.7, 7.2)
Prefix	Prefix Mobile*	111	986	40	6	5	60	8.2 (6.6, 10.1)	9.9 (8.1, 12.0)	12.0 (10.0, 14.4)
Prefix	Prefix*	307	5370	73	13	18	203	3.8 (3.3, 4.3)	5.4 (4.8, 6.1)	6.3 (5.6, 7.0)
Prefix Oxinium (ctd)	Prefix*	109	1049	24	5	14	66	7.0 (5.6, 8.7)	8.9 (7.3, 10.8)	10.7 (8.9, 12.9)
RBK	RBK	561	11000	215	15	43	288	3.9 (3.6, 4.3)	5.3 (4.9, 5.8)	6.7 (6.1, 7.4)
Rocc	Rocc*	45	575	17	1	2	25	5.2 (3.6, 7.3)	6.8 (5.0, 9.3)	8.4 (6.2, 11.2)
Rotaglide Plus	Rotaglide Plus*	81	616	37	1	5	38	5.8 (4.1, 8.0)	11.2 (8.8, 14.2)	15.2 (12.3, 18.8)
Scorpio CR	Scorpio+*	203	2448	45	10	34	114	4.3 (3.6, 5.2)	7.1 (6.2, 8.3)	9.0 (7.8, 10.3)
Scorpio CR	Series 7000*	640	11561	163	27	47	403	3.3 (3.0, 3.6)	5.2 (4.7, 5.6)	7.0 (6.4, 7.5)
Scorpio PS	Scorpio*	36	524	10	0	11	15	4.5 (3.0, 6.7)	6.1 (4.3, 8.6)	7.3 (5.2, 10.3)
Scorpio PS	Scorpio+*	157	2036	44	14	10	89	5.1 (4.2, 6.2)	6.7 (5.7, 8.0)	8.4 (7.2, 9.8)
Scorpio PS	Series 7000*	364	4696	124	9	70	161	4.7 (4.1, 5.3)	6.8 (6.1, 7.6)	9.2 (8.2, 10.2)
Triathlon CR	Triathlon	2911	125118	533	117	136	2125	2.5 (2.4, 2.6)	3.7 (3.6, 3.9)	5.1 (4.6, 5.5)
Triathlon PS	Triathlon	588	13531	110	30	74	374	3.9 (3.5, 4.2)	5.5 (5.1, 6.0)	7.2 (6.3, 8.2)
Vanguard CR	Vanguard	1013	27014	231	38	71	673	3.0 (2.8, 3.2)	4.9 (4.6, 5.3)	7.4 (6.3, 8.7)
Vanguard PS	Vanguard	322	5216	80	7	58	177	5.2 (4.6, 5.9)	7.3 (6.5, 8.2)	7.7 (6.9, 8.7)
TOTAL		26337	599933	7285	1156	2192	15704			

Note: Only prostheses with >350 procedures have been listed

* denotes prosthesis combinations that have not had any reported use in primary total knee procedures in 2021

Twenty Year Outcomes

The Registry has information on 27 hip and 18 knee prosthesis combinations that have been used in >350 procedures for osteoarthritis and have a follow-up of at least 20 years.

HIP REPLACEMENT

The listed prosthesis combinations have been used in 29.9 % of all primary total conventional hip replacement procedures performed for osteoarthritis. The 20 year cumulative percent revision ranges from 5.4% to 19.2% (Table CP5).

KNEE REPLACEMENT

The listed prosthesis combinations were used in 23.1% of all primary total knee replacement procedures performed for osteoarthritis. The 20 year cumulative percent revision ranges from 6.0% to 15.5% (Table CP6).

Table CP5 Cumulative Percent Revision of Primary Total Conventional Hip Replacement Combinations with 20 Year Data (Primary Diagnosis OA)

Femoral Component	Acetabular Component	N Revised	N Total	Type of Revision			10 Yrs	15 Yrs	20 Yrs	
				THR	Femoral	Acetabular				Other
ABGII	ABGII*	339	2772	54	166	80	39	6.9 (6.0, 7.9)	12.0 (10.7, 13.5)	17.8 (15.9, 20.0)
Alloclassic	Allofit	317	5161	34	139	53	91	5.0 (4.4, 5.7)	8.1 (7.2, 9.1)	10.8 (9.2, 12.7)
Alloclassic	Fitmore*	137	1709	15	69	16	37	7.4 (6.2, 8.8)	9.3 (7.8, 11.0)	11.6 (8.9, 14.9)
CLS	Fitmore	59	968	9	23	9	18	5.2 (3.8, 7.0)	8.8 (6.6, 11.6)	12.5 (9.0, 17.1)
CPT	Trilogy	374	7727	37	142	41	154	5.3 (4.8, 5.9)	6.8 (6.1, 7.7)	7.8 (6.6, 9.1)
CPT	ZCA	39	859	13	9	10	7	4.7 (3.3, 6.7)	6.4 (4.4, 9.2)	9.6 (6.4, 14.4)
Charnley	Vitalock*	42	370	8	20	3	11	7.9 (5.5, 11.4)	11.5 (8.4, 15.7)	15.0 (11.1, 20.1)
Citation	Vitalock*	48	508	4	8	18	18	5.2 (3.5, 7.7)	9.1 (6.7, 12.4)	13.5 (10.2, 17.9)
Elite Plus	Duraloc*	112	953	18	65	6	23	9.2 (7.4, 11.5)	14.9 (12.3, 18.0)	19.2 (15.6, 23.4)
Exeter	Contemporary*	39	428	10	7	14	8	6.0 (4.0, 8.9)	12.6 (9.0, 17.3)	15.2 (10.9, 21.0)
Exeter	Vitalock*	70	1076	13	13	25	19	4.6 (3.4, 6.1)	6.8 (5.3, 8.7)	8.9 (7.0, 11.3)
Exeter V40	ABGII*	38	976	8	12	11	7	3.4 (2.4, 4.9)	4.5 (3.2, 6.2)	5.4 (3.7, 7.7)
Exeter V40	Exeter*	117	1526	27	16	54	20	4.6 (3.6, 5.9)	9.7 (7.9, 11.8)	16.4 (12.9, 20.7)
Exeter V40	Trident (Shell)	1965	69401	269	623	254	819	3.6 (3.4, 3.8)	5.3 (5.0, 5.6)	6.7 (6.0, 7.5)
F2L	SPH-Blind*	62	571	10	20	16	16	7.6 (5.7, 10.2)	11.5 (8.9, 14.6)	13.0 (10.2, 16.6)
Mallory-Head	Mallory-Head*	208	2908	19	14	71	104	4.7 (3.9, 5.6)	8.5 (7.4, 9.9)	13.7 (11.4, 16.5)
Meridian	Vitalock*	41	354	2	3	16	20	6.7 (4.4, 10.0)	11.3 (8.3, 15.5)	15.4 (11.1, 21.2)
Natural Hip	Fitmore*	41	882	2	7	12	20	4.2 (3.0, 5.9)	4.9 (3.5, 6.7)	5.9 (4.3, 8.0)
Omnifit	Secur-Fit*	87	716	9	22	22	34	9.9 (7.9, 12.5)	13.1 (10.6, 16.1)	15.3 (12.5, 18.8)
Omnifit	Trident (Shell)	162	3838	13	40	30	79	3.9 (3.3, 4.6)	5.1 (4.3, 6.0)	6.5 (5.4, 7.9)
S-Rom	Duraloc Option*	27	523	4	9	5	9	4.6 (3.1, 6.8)	5.0 (3.4, 7.3)	5.8 (3.9, 8.5)
Secur-Fit	Trident (Shell)	461	9690	28	201	83	149	4.7 (4.3, 5.2)	6.1 (5.5, 6.8)	7.4 (6.4, 8.5)
Secur-Fit Plus	Trident (Shell)	223	5847	16	59	56	92	3.3 (2.9, 3.9)	4.5 (3.9, 5.2)	5.4 (4.7, 6.3)
Spectron EF	Reflection (Cup)	123	1404	47	12	55	9	7.2 (5.8, 8.9)	13.5 (11.2, 16.2)	17.8 (14.0, 22.5)
Spectron EF	Reflection (Shell)*	313	4646	69	105	48	91	5.3 (4.6, 6.1)	9.1 (8.1, 10.2)	12.6 (10.8, 14.7)
Synergy	Reflection (Shell)	396	7512	35	86	132	143	3.9 (3.5, 4.4)	5.7 (5.1, 6.3)	8.6 (7.5, 9.9)
VerSys	Trilogy*	253	4432	18	88	44	103	5.2 (4.6, 5.9)	6.1 (5.4, 6.9)	7.2 (6.2, 8.3)
TOTAL		6093	137757	791	1978	1184	2140			

Note: Only prostheses with >350 procedures have been listed

* denotes prosthesis combinations with no reported use in primary total conventional knee procedures in 2021

Table CP6 Cumulative Percent Revision of Primary Total Knee Replacement Combinations with 20 Year Data (Primary Diagnosis OA)

Femoral Component	Tibial Component	N Revised	N Total	Type of Revision			10 Yrs	15 Yrs	20 Yrs	
				TKR	Femoral	Tibial				Other
AGC	AGC*	324	5028	144	5	26	149	5.0 (4.4, 5.6)	7.7 (6.9, 8.7)	10.4 (9.1, 11.9)
Duracon	Duracon*	1307	19828	359	31	68	849	5.2 (4.9, 5.5)	7.3 (6.9, 7.7)	9.2 (8.6, 9.8)
Genesis II CR	Genesis II	1154	25271	241	71	56	786	5.0 (4.7, 5.3)	6.2 (5.8, 6.6)	7.4 (6.7, 8.1)
Genesis II CR	Profix Mobile*	134	1209	57	9	8	60	8.8 (7.2, 10.6)	12.5 (10.5, 14.8)	15.5 (12.9, 18.6)
Genesis II Oxinium CR (ctd)	Genesis II	553	10026	104	28	25	396	6.0 (5.5, 6.6)	8.6 (7.8, 9.4)	10.5 (9.2, 11.9)
Genesis II PS	Genesis II	901	20378	161	32	58	650	5.1 (4.8, 5.5)	6.5 (5.9, 7.0)	7.0 (6.4, 7.6)
Kinemax Plus	Kinemax Plus*	133	1815	77	3	5	48	4.6 (3.7, 5.8)	8.0 (6.7, 9.5)	10.0 (8.4, 11.9)
LCS CR	LCS	624	8335	255	24	90	255	6.4 (5.9, 7.0)	8.1 (7.5, 8.8)	9.3 (8.6, 10.1)
LCS CR	MBT Duofix	850	15247	247	35	43	525	5.3 (5.0, 5.7)	7.3 (6.7, 7.8)	9.5 (8.3, 10.9)
MBK (Zimmer)	Nexgen*	37	448	21	1	1	14	6.2 (4.2, 8.9)	8.1 (5.8, 11.4)	10.6 (7.6, 14.6)
Natural Knee II	Natural Knee II*	446	6443	202	10	60	174	5.0 (4.5, 5.6)	8.9 (8.1, 9.8)	12.0 (10.4, 13.9)
Nexgen CR	Nexgen	437	11566	140	22	32	243	3.1 (2.8, 3.5)	4.5 (4.1, 5.0)	6.0 (5.3, 6.7)
Nexgen LPS	Nexgen	372	7021	98	21	33	220	4.9 (4.4, 5.5)	6.5 (5.8, 7.2)	8.5 (7.3, 9.9)
PFC Sigma CR	MBT	331	6273	67	35	45	184	5.1 (4.5, 5.7)	6.5 (5.8, 7.4)	8.4 (6.8, 10.3)
PFC Sigma CR	PFC Sigma	883	24874	226	55	66	536	3.5 (3.3, 3.8)	5.2 (4.8, 5.6)	6.7 (5.9, 7.6)
Profix	Profix*	307	5370	73	13	18	203	5.4 (4.8, 6.1)	6.3 (5.6, 7.0)	7.3 (6.3, 8.3)
Scorpio CR	Series 7000*	640	11561	163	27	47	403	5.2 (4.7, 5.6)	7.0 (6.4, 7.5)	7.8 (7.1, 8.5)
Scorpio PS	Series 7000*	364	4696	124	9	70	161	6.8 (6.1, 7.6)	9.2 (8.2, 10.2)	11.8 (9.8, 14.3)
TOTAL		9797	185389	2759	431	751	5856			

Note: * denotes prosthesis combinations with no reported use in primary total conventional hip procedures in 2021

List of Tables

Table CP1	CPR of Primary Total Conventional Hip Replacement Combinations with 10 Year Data (Primary Diagnosis OA)	8
Table CP2	CPR of Primary Total Knee Replacement Combinations with 10 Year Data (Primary Diagnosis OA)	11
Table CP3	CPR of Primary Total Conventional Hip Replacement Combinations with 15 Year Data (Primary Diagnosis OA) ..	14
Table CP4	CPR of Primary Total Knee Replacement Combinations with 15 Year Data (Primary Diagnosis OA)	16
Table CP5	CPR of Primary Total Conventional Hip Replacement Combinations with 20 Year Data (Primary Diagnosis OA) ..	18
Table CP6	CPR of Primary Total Knee Replacement Combinations with 20 Year Data (Primary Diagnosis OA)	19