

Score (cementless)/Score (cementless) Total Knee Investigation

Note: This analysis compares the Score (cless)/Score (cless) femoral/tibial combination with all other total knee prostheses.

This combination has been identified as having a significantly higher rate of revision. For a detailed explanation of the process used by the Registry that results in identification of prostheses that have a higher than anticipated rate of revision please refer to the Prostheses with Higher than Anticipated Rates of Revision chapter of the most recent AOANJRR Annual Report, <https://aoanjrr.sahmri.com/annual-reports-2025>.

Note: Procedures using prostheses with no recorded use in 2024 are excluded from the comparator.

TABLE 1

Revision Rate of Primary Total Knee Replacement

The revision rate of the Score (cless)/Score (cless) total knee combination is compared to all other total knee prostheses.

Table 1: Revision Rates of Primary Total Knee Replacement

Component	N Revised	N Total	Obs. Years	Revisions/100 Obs. Yrs (95% CI)
Score (cless)/Score (cless)	267	3026	25072	1.06 (0.94, 1.20)
Other Total Knee	24440	718035	4510466	0.54 (0.54, 0.55)
TOTAL	24707	721061	4535539	0.54 (0.54, 0.55)

Note: Prostheses no longer used in 2024 are excluded from the comparator.

TABLE 2

Yearly Cumulative Percent Revision of Primary Total Knee Replacement

The yearly cumulative percent revision of the Score (class)/Score (class) total knee combination is compared to all other total knee prostheses.

Table 2: Yearly Cumulative Percent Revision (95% CI) of Primary Total Knee Replacement

CPR	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	6 Yrs	7 Yrs	8 Yrs
Score (class)/Score (class)	1.5 (1.1, 2.0)	3.4 (2.8, 4.1)	4.6 (3.9, 5.4)	5.6 (4.8, 6.5)	6.3 (5.5, 7.3)	7.1 (6.2, 8.2)	7.9 (6.9, 8.9)	8.1 (7.2, 9.3)
Other Total Knee	1.0 (1.0, 1.0)	1.8 (1.8, 1.8)	2.4 (2.4, 2.4)	2.8 (2.7, 2.8)	3.1 (3.1, 3.2)	3.5 (3.4, 3.5)	3.8 (3.7, 3.8)	4.1 (4.0, 4.1)

CPR	9 Yrs	10 Yrs	11 Yrs	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs
Score (class)/Score (class)	9.1 (8.1, 10.4)	10.1 (8.9, 11.4)	10.9 (9.6, 12.3)	11.3 (10.0, 12.8)	12.1 (10.6, 13.7)	12.3 (10.8, 14.0)	12.3 (10.8, 14.0)	12.3 (10.8, 14.0)
Other Total Knee	4.4 (4.3, 4.4)	4.7 (4.6, 4.8)	5.0 (4.9, 5.1)	5.3 (5.3, 5.4)	5.7 (5.6, 5.8)	6.0 (5.9, 6.1)	6.4 (6.3, 6.5)	6.8 (6.7, 6.9)

CPR	17 Yrs	18 Yrs	19 Yrs	20 Yrs	21 Yrs	22 Yrs	23 Yrs
Score (class)/Score (class)							
Other Total Knee	7.2 (7.1, 7.4)	7.6 (7.4, 7.7)	7.8 (7.6, 8.0)	8.1 (7.8, 8.3)	8.3 (8.1, 8.6)	8.5 (8.2, 8.8)	8.6 (8.3, 8.9)

Note: Prostheses no longer used in 2024 are excluded from the comparator.

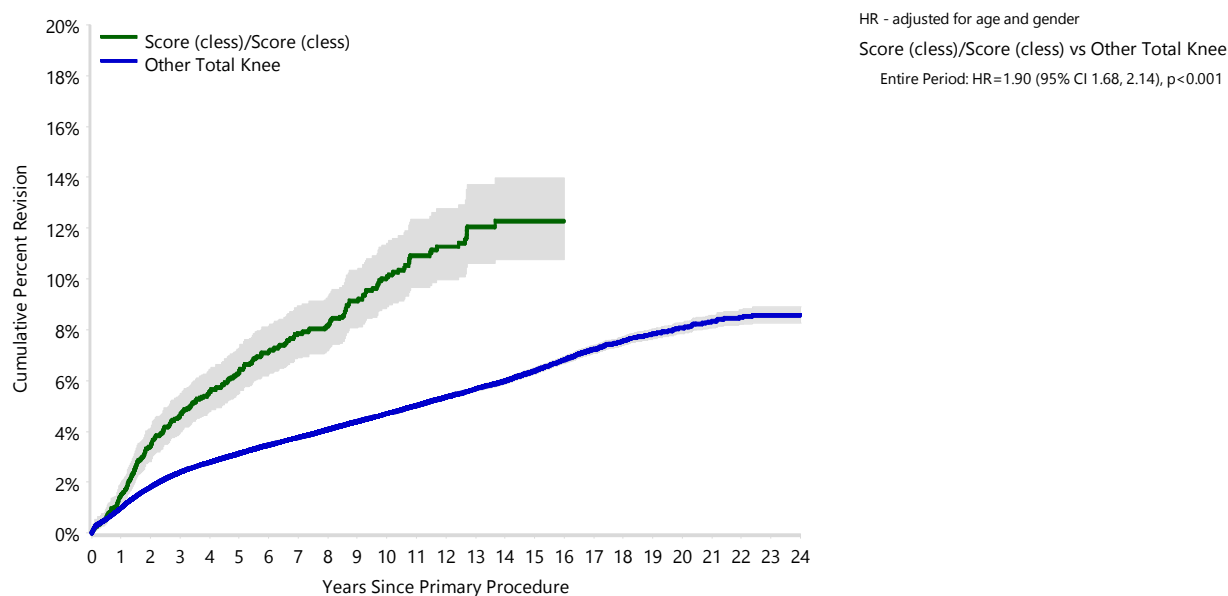
FIGURE 1

Yearly Cumulative Percent Revision of Primary Total Knee Replacement

The yearly cumulative percent revision of the Score (class)/Score (class) total knee combination is compared to all other total knee prostheses. In addition, hazard ratios are reported.

Hazard ratios are reported for specific time periods during which the hazard ratio is constant. This is done to enable more specific and valid comparisons of the risk of revision over time. The pattern of variation in risk has important implications with respect to the underlying reasons for any difference.

Figure 1: Cumulative Percent Revision of Primary Total Knee Replacement



Number at Risk	0 Yr	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	6 Yrs	7 Yrs	8 Yrs	9 Yrs	10 Yrs	11 Yrs
Score (class)/Score (class)	3026	2969	2883	2819	2424	2131	1942	1714	1539	1357	1106	882
Other Total Knee	718035	637759	559152	495373	432901	378083	324333	274766	229938	189817	153476	122986

Number at Risk	12 Yrs	13 Yrs	14 Yrs	15 Yrs	16 Yrs	17 Yrs	18 Yrs	19 Yrs	20 Yrs	21 Yrs	22 Yrs	23 Yrs
Score (class)/Score (class)	666	501	357	227	89	3	0	0	0	0	0	0
Other Total Knee	97322	74720	56192	41281	29914	21220	14967	10421	6807	4051	2359	1090

Note: Prostheses no longer used in 2024 are excluded from the comparator.

TABLE 3**Primary Diagnosis for Revised Primary Total Knee Replacement**

This table identifies the diagnosis of the primary procedure which was subsequently revised. This information is provided as there is a variation on outcome depending on the primary diagnosis. It is therefore important when considering the reasons for a higher than anticipated rate of revision that there is identification of the primary diagnosis. This information should be compared to the primary diagnosis for the revisions of all other total knee prostheses.

Table 3: Primary Diagnosis for Revised Primary Total Knee Replacement

Primary Diagnosis	Score (class)/Score (class)		Other Total Knee	
	Number	Percent	Number	Percent
Osteoarthritis	265	99.3	23625	96.7
Rheumatoid Arthritis	2	0.7	299	1.2
Tumour			192	0.8
Other Inflammatory Arthritis			158	0.6
Osteonecrosis			90	0.4
Fracture			50	0.2
Other			25	0.1
Chondrocalcinosis			1	0.0
TOTAL	267	100.0	24440	100.0

Note: Prostheses no longer used in 2024 are excluded from the comparator.

TABLE 4

Reasons for Revision

This is reported in two ways: a percentage of primary procedures revised and as a percentage of all revision procedures.

% Primaries Revised: This shows the proportional contribution of each revision diagnosis as a percentage of the total number of primary procedures. This percentage can be used to approximate the risk of being revised for that diagnosis. Differing percentages between groups, with the same distribution of follow up time, may identify problems of concern.

% Revisions: The number of revisions for each diagnosis is expressed as a percentage of the total number of revisions. This shows the distribution of reasons for revision within a group but cannot be used as a comparison between groups.

Table 4: Primary Total Knee Replacement - Reason for Revision (Follow-up Limited to 17.2 Years)

Revision Diagnosis	Score (class)/Score (class)			Other Total Knee		
	Number	% Primaries Revised	% Revisions	Number	% Primaries Revised	% Revisions
Infection	57	1.9	21.3	7018	1.0	28.9
Loosening	54	1.8	20.2	5162	0.7	21.2
Instability	12	0.4	4.5	2518	0.4	10.4
Patella Erosion	32	1.1	12.0	1769	0.2	7.3
Pain	22	0.7	8.2	1731	0.2	7.1
Patellofemoral Pain	26	0.9	9.7	1451	0.2	6.0
Arthrofibrosis	10	0.3	3.7	1037	0.1	4.3
Fracture	22	0.7	8.2	979	0.1	4.0
Malalignment	8	0.3	3.0	480	0.1	2.0
Wear Tibial Insert	2	0.1	0.7	315	0.0	1.3
Lysis	6	0.2	2.2	254	0.0	1.0
Incorrect Sizing	1	0.0	0.4	209	0.0	0.9
Implant Breakage Tibial Insert				203	0.0	0.8
Patella Maltracking	2	0.1	0.7	173	0.0	0.7
Bearing Dislocation	4	0.1	1.5	137	0.0	0.6
Implant Breakage Patella	1	0.0	0.4	130	0.0	0.5
Metal Related Pathology	2	0.1	0.7	99	0.0	0.4
Prosthesis Dislocation				70	0.0	0.3
Synovitis	1	0.0	0.4	58	0.0	0.2
Osteonecrosis				46	0.0	0.2
Implant Breakage Femoral				43	0.0	0.2
Wear Patella	1	0.0	0.4	42	0.0	0.2
Implant Breakage Tibial	1	0.0	0.4	33	0.0	0.1
Tumour				30	0.0	0.1
Heterotopic Bone				14	0.0	0.1
Progression Of Disease				8	0.0	0.0
Wear Tibial				6	0.0	0.0
Incorrect Side				1	0.0	0.0
Patella Dislocation				1	0.0	0.0
Wear Femoral				1	0.0	0.0
Other	3	0.1	1.1	292	0.0	1.2
N Revision	267	8.8	100.0	24310	3.4	100.0
N Primary	3026			718035		

Note: This table is restricted to revisions within 17.2 years for all groups to allow a time-matched comparison of revisions.

Note: Prostheses no longer used in 2024 are excluded from the comparator.

FIGURE 2**Cumulative Incidence Revision Diagnosis of Primary Total Knee Replacement**

This figure details the cumulative incidence of the most common reasons for revision. The five most common reasons for revision are included as long as each of these reasons account for more than 10 procedures or at least 5% of all revisions for the Score (class)/Score (class) total knee combination. A comparative graph is provided of the cumulative incidence for the same reasons for revisions for all other total knee prostheses.

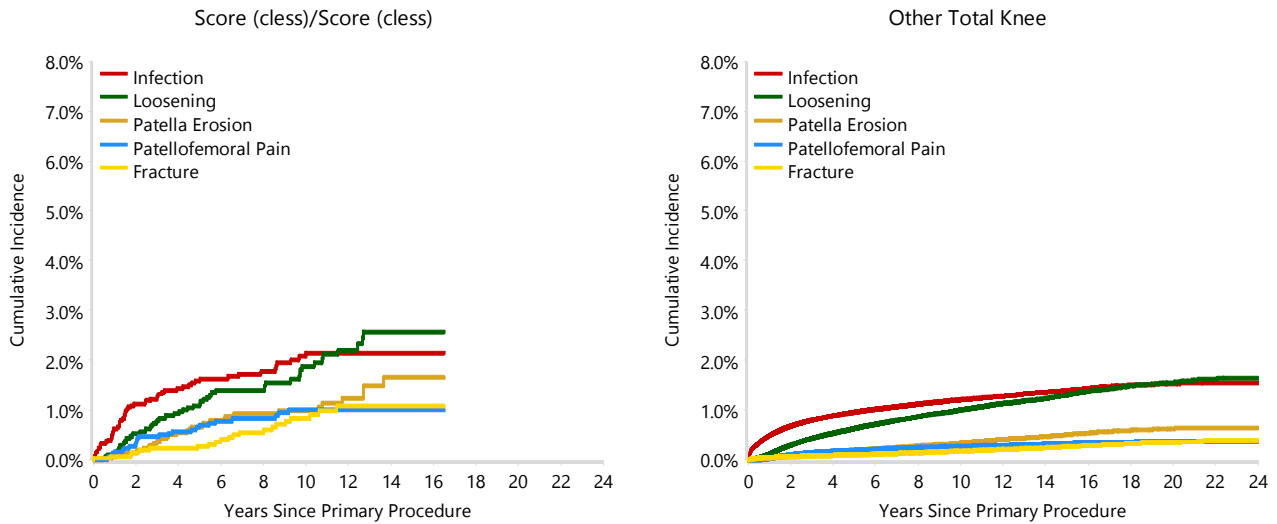
Figure 2: Cumulative Incidence Revision Diagnosis for Primary Total Knee Replacement

TABLE 5

Type of Revision Performed for Primary Total Knee Replacement

This analysis identifies the components used in the revision of the Score (class)/Score (class) total knee combination and compares it to the components used in the revision of all other total knee prostheses.

The reason this analysis is undertaken is to identify whether there is one or more components which are being replaced that differ from the components replaced for revisions of all other total knee prostheses i.e. is there a difference in the type of revision undertaken for the Score (class)/Score (class) total knee combination compared to all other total knee prostheses.

Table 5: Primary Total Knee Replacement - Type of Revision (Follow-up Limited to 17.2 Years)

Type of Revision	Score (class)/Score (class)		Other Total Knee	
	Number	Percent	Number	Percent
TKR (Tibial/Femoral)	82	30.7	5768	23.7
Tibial Component	11	4.1	1788	7.4
Femoral Component	14	5.2	1169	4.8
Cement Spacer	19	7.1	1061	4.4
Removal of Prostheses			124	0.5
Total Femoral			22	0.1
Reinsertion of Components			7	0.0
N Major	126	47.2	9939	40.9
Insert Only	42	15.7	7608	31.3
Patella Only	82	30.7	4069	16.7
Insert/Patella	17	6.4	2622	10.8
Minor Components			63	0.3
Cement Only			9	0.0
N Minor	141	52.8	14371	59.1
TOTAL	267	100.0	24310	100.0

Note: This table is restricted to revisions within 17.2 years for all groups to allow a time-matched comparison of revisions.

Note: Prostheses no longer used in 2024 are excluded from the comparator.

TABLE 6**Revision Rates of Score (class)/Score (class) Primary Total Knee Replacement by Fixation**

This analysis is provided as some prostheses have more than one fixation option. Additionally there are prostheses where an alternative to the recommended approach to fixation was used e.g. a cementless prosthesis that has been cemented or vice-versa.

Table 6: Revised Number of Score (class)/Score (class) Primary Total Knee Replacement by Fixation

Fixation	N Revised	N Total
Cemented	1	3
Cementless	264	2987
Hybrid (Tibial Cemented)	1	30
Hybrid (Tibial Cementless)	1	6
TOTAL	267	3026

TABLE 7**Revision Rates of Score (class)/Score (class) Primary Total Knee Replacement by Bearing Surface**

This analysis is provided as some prostheses are combined with a variety of bearing surfaces. All bearing surfaces used with this combination are listed.

Table 7: Revised Number of Score (class)/Score (class) Primary Total Knee Replacement by Bearing Surface

Bearing Surface	N Revised	N Total
Non XLPE	267	3026
TOTAL	267	3026

TABLE 8**Revision Rates of Score (class)/Score (class) Primary Total Knee Replacement by Bearing Mobility**

This analysis is provided as some prostheses are combined with a variety of bearing mobilities. All bearing mobilities used with this combination are listed.

Table 8: Revised Number of Score (class)/Score (class) Primary Total Knee Replacement by Bearing Mobility

Bearing Mobility	N Revised	N Total
Rotating	267	3026
TOTAL	267	3026

TABLE 9**Revision Rates of Score (class)/Score (class) Primary Total Knee Replacement by Stability**

This analysis is provided as some prostheses are combined with a variety of stabilities. All stabilities used with this combination are listed.

Table 9: Revised Number of Score (class)/Score (class) Primary Total Knee Replacement by Stability

Stability	N Revised	N Total
Minimally Stabilised	267	3026
TOTAL	267	3026

TABLE 10

Revision Rates of Primary Total Knee Replacement by State

This enables a state by state variation to be identified for the Score (cless)/Score (cless) total knee combination and provides the comparative data for each of the states for all other total knee prostheses.

The purpose of this analysis is to determine if the higher than anticipated rate of revision has widespread distribution between states. If there is widespread distribution then the reason for the higher than anticipated rate of revision is unlikely to be surgeon specific. If the prosthesis has been used in only a small number of states it is not possible to distinguish if the higher than anticipated rate of revision is related to the prosthesis, surgeon, technique or patient.

Table 10: Revised Number of Primary Total Knee Replacement by State

Component	State	N Revised	N Total
Score (cless)/Score (cless)	NSW	67	989
	VIC	0	2
	QLD	10	98
	WA	76	1244
	SA	114	693
Other Total Knee	NSW	6767	235315
	VIC	5457	148733
	QLD	5307	152460
	WA	3183	83914
	SA	2772	65851
	TAS	390	13242
	ACT/NT	564	18520
TOTAL		24707	721061

Note: Prostheses no longer used in 2024 are excluded from the comparator.

TABLE 11**Number of Revisions of Score (class)/Score (class) Primary Total Knee Replacement by Year of Implant**

This analysis details the number of prostheses reported each year to the Registry for the Score (class)/Score (class) total knee combination. It also provides the subsequent number of revisions of the primaries reported in that year.

Primary procedures performed in later years have had less follow up time therefore the number revised is expected to be less than the number revised in earlier years. For example, a primary procedure performed in 2024 has a maximum of one year to be revised, whereas a primary procedure performed in 2022 has a maximum of three years to be revised.

Table 11: Number of Revisions of Score (class)/Score (class) Primary Total Knee Replacement by Year of Implant

Year of Implant	Number Revised	Total Number
2005	0	1
2007	2	11
2008	23	135
2009	26	212
2010	20	187
2011	31	204
2012	26	195
2013	23	239
2014	31	273
2015	19	263
2016	20	170
2017	11	160
2018	11	214
2019	6	151
2020	8	252
2021	10	354
2022	0	5
TOTAL	267	3026

TABLE 12

Revision Rates of Score (class)/Score (class) Primary Total Knee Replacement by Catalogue Number Range

Many prostheses have a number of catalogue ranges. The catalogue range is specific to particular design features; more than one catalogue range usually indicates a minor difference in design in a particular Score (class)/Score (class) prosthesis.

This analysis has been undertaken to determine if the revision rate varies according to the catalogue number range.

Model	Catalogue Range	Catalogue Description	Cement	Material	Coating
Femoral					
Score	10200101-10200117	COCR MIN STAB. HA PEGGED STIPPLED SURFACE FEMORAL COMPONENT	NO	METAL	HA COATED
Tibial					
Score	10200401-10200407	COCR HA STIPPLED SURFACE TIBIAL BASEPLATE	NO		HA COATED

Table 12: Revised Number of Score (class)/Score (class) Primary Total Knee Replacement by Catalogue Number Range

Femoral Range	Tibial Range	N Revised	N Total
10200101-10200117	10200401-10200407	267	3026
TOTAL		267	3026