



ATTUNE® CR Knee & ATTUNE PS Knee NJR Implant Summary Report August 2020



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This presentation demonstrates four-year results for the ATTUNE® Knee System in the National Joint Registry for England, Wales, Northern Ireland, and Isle of Man (NJR) Implant Summary Reports for ATTUNE® Cruciate Retaining (CR) Knee and ATTUNE Posterior Stabilized (PS) Knee. This presentation will be updated when new information becomes available.

Positive Early Registry Results

The National Joint Registry for England, Wales, Northern Ireland, and Isle of Man (NJR) publishes an annual report including one, three and five-year outcome data; however, additional implant survivorship data is now also available more frequently to manufacturers who subscribe to the NJR's Implant Summary Report service. The below is from the most recent NJR Implant Summary Report obtained by DePuy Synthes:¹

NJR

97.5%

Implant Survivorship at six years.¹

The **independent analysis** of 31,406 ATTUNE Knee Implantations in the NJR Implant Summary Report,¹ showed that the cumulative revision rate (CRR) for the ATTUNE Knee is 2.5% (95% CI: 2.2, 3.1%) at six years (97.2% implant survivorship at six years), which is in line with the overall class of total knee replacement of 2.5% (2.4, 2.5%) CRR at six years.¹

The 7-year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 132 knees.¹

1. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man. Implant Summary Report for DePuy ATTUNE CR and ATTUNE PS. NJR Database extract May 09, 2020, pages 1-26. Licensed for use until May 20, 2021. Available at www.ATTUNEevidence.com (US) and www.provingthepromise.com (EMEA).

NJR Disclaimer: The data used for this analysis was obtained from the National Joint Registry ("NJR"). The Healthcare Quality Improvement Partnership ("HQIP"), the NJR and/or its contractor, Northgate Public Services (UK) Limited ("NPS") take no responsibility for the accuracy, currency, reliability and correctness of any data used or referred to in this report, nor for the accuracy, currency, reliability and correctness of links or references to other information sources and disclaims all warranties in relation to such data, links and references to the maximum extent permitted by legislation.

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Positive Early Registry Results

ATTUNE CR and ATTUNE PS; Revision and Survivorship Cumulative Revision Rate (CRR)
Endpoint: All Revisions

Period /years	At Risk	Attune CR and Attune PS	All other TKR in NJR
0	31406	-	-
1	25042	0.4% (0.3% - 0.5%)	0.4% (0.4% - 0.4%)
2	18550	1.1% (0.9% - 1.2%)	1.0% (1.0% - 1.0%)
3	11507	1.6% (1.4% - 1.8%)	1.5% (1.5% - 1.6%)
4	5344	2.0% (1.8% - 2.2%)	1.9% (1.9% - 1.9%)
5	2096	2.4% (2.1% - 2.8%)	2.2% (2.2% - 2.2%)
6	601	2.5% (2.2% - 3.1%)	2.5% (2.4% - 2.5%)
7	132	2.5% (2.2% - 3.8%)	2.7% (2.7% - 2.7%)

The **independent analysis** of 31,406 ATTUNE Knee Implantations in the NJR Implant Summary Report,¹ showed that the cumulative revision rate (CRR) for the ATTUNE Knee is 2.5% (95% CI: 2.2, 3.1%) at six years (97.5% implant survivorship at six years), which is in line with the overall class of total knee replacement of 2.5% (2.4, 2.5%) CRR at six years.¹

Cumulative revision rate with 95% confidence intervals. Rate is only reported for times where more than 40 patients implanted remain at risk

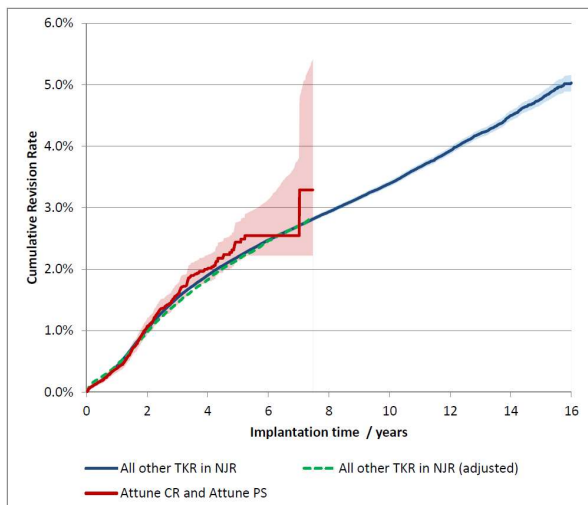
¹ National Joint Registry for England, Wales, Northern Ireland and the Isle of Man. Implant Summary Report for DePuy ATTUNE CR and ATTUNE PS. NJR Database extract May 09, 2020, pages 1-26. Licensed for use until May 20, 2021. Available at www.ATTUNEvidence.com (US) and www.provingthepromise.com (EMEA).

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Positive Early Registry Results

ATTUNE CR and ATTUNE PS; Revision and Survivorship CRR
 Endpoint: All reasons for revision



The 6 and 7 year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 601 and 132 knees respectively.¹

Cox Proportional Hazards model for revision risk ratio of ATTUNE CR and ATTUNE PS / All other TKR in NJR

Adjustment	Hazard Ratio (95% CI)	p- value
Unadjusted.	1.05 (0.95 - 1.16)	0.379
Adjusted for age, gender, year cohort and indications.	1.08 (0.97 - 1.19)	0.157

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Statisticians at the NJR conducted these analyses. The Cox proportional hazards model is used to account for differences in age, gender, year cohort, and indications between the patients implanted with the ATTUNE Knee and the patients implanted with any other total knee replacement (TKR) in the NJR.

Positive Early Registry Results

ATTUNE CR and ATTUNE PS; Reasons for Revision

Reasons for revision of primary procedures in which the ATTUNE Knee was used

Reason for Revision	Revised †	Expected Revisions ‡	p value
Infection	101	120.00	0.08
Progressive Arthritis Remaining	51	36.23	0.019
Aseptic Loosening Femur	8	14.23	0.109
Aseptic Loosening Tibia	63	43.40	0.005
Aseptic Loosening Patella	13	8.45	0.118
Unexplained Pain	48	39.15	0.171
Stiffness	46	36.43	0.112
Malalignment	19	29.61	0.051
Instability	54	60.80	0.438
Dislocation / Subluxation	9	9.87	1
Periprosthetic Fracture	11	12.83	0.778
Wear of Polyethylene Component	5	4.10	0.614
Lysis - Tibia	4	8.67	0.124
Lysis - Femur	0	4.27	0.026
Component Dissociation	1	2.08	0.728
Implant Fracture	1	2.13	0.729
Other / Not recorded	31	24.27	0.182
Total Revised	393	366.68	0.172

† multiple reasons may be listed for one revision procedure

‡ Based on All TKR in NJR, adjusted for agegroup, gender, indications and implantation year

Reasons for every revision in the NJR Implant Summary Report produced on May 9th, 2020, are recorded in the chart to the left.

† multiple reasons may be listed for one revision procedure

* Based on All TKR in NJR, adjusted for age group, gender, and indications

Significantly better, $p < 0.001$



Significantly better, $p < 0.05$



Significantly worse, $p < 0.05$



Significantly worse, $p < 0.001$



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