



ATTUNE® CR Knee & ATTUNE PS Knee NJR Implant Summary Report August 2018



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

98.1%

Implant Survivorship at four years.¹

The **independent analysis** of 19,818 ATTUNE Knee implantations in the NJR Implant Summary Report,¹ showed that the cumulative revision rate (CRR) for the ATTUNE Knee is 1.9% (95% CI: 1.6, 2.4%) at four years (98.1% implant survivorship at four years), which is in line with the overall class of total knee replacement of 1.9% CRR at four years.¹ The 5 and 6 year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 193 and 42 patients respectively.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 July 30, 2018, pages 1-15. Licensed for use until December 11, 2018. Available at www.ATTUNEevidence.com (US) and www.provingthepromise.com (EMEA).

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 TKR in NJR
0	19818	-	-
1	13377	0.4% (0.3% - 0.5%)	0.4% (0.4% - 0.4%)
2	6617	1.1% (0.9% - 1.2%)	1.0% (1.0% - 1.0%)
3	2668	1.5% (1.2% - 1.8%)	1.5% (1.5% - 1.6%)
4	874	1.9% (1.6% - 2.4%)	1.9% (1.9% - 1.9%)
5	193	2.6% (1.7% - 3.7%)	2.2% (2.2% - 2.2%)
6	42	2.6% (1.7% - 4.9%)	2.4% (2.4% - 2.5%)

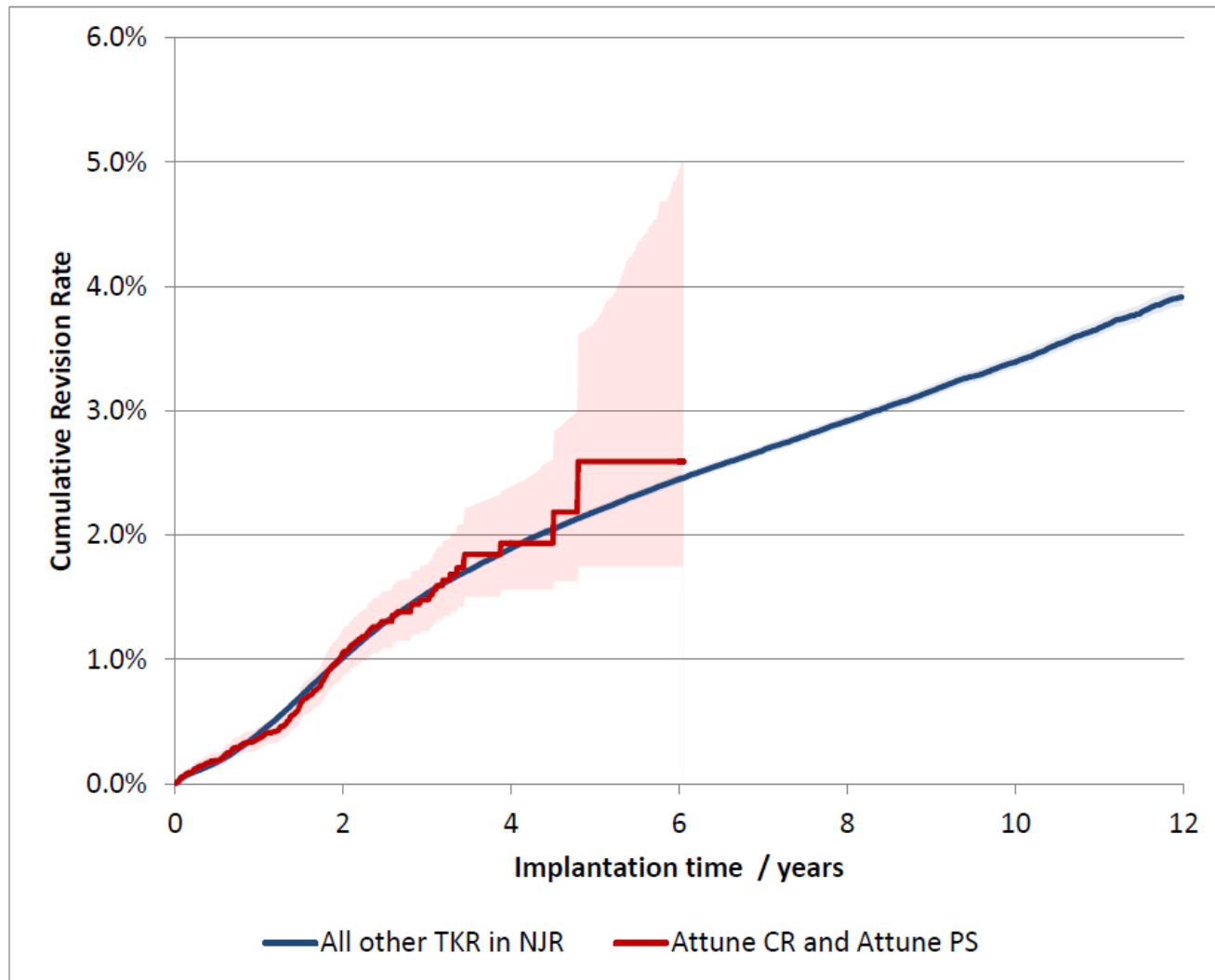
The **independent analysis** of 19,818 ATTUNE Knee implantations in the NJR Implant Summary Report,¹ showed that the cumulative revision rate (CRR) for the ATTUNE Knee is 1.9% (95% CI: 1.6, 2.4%) at four years (98.1% implant survivorship at four years), which is in line with the overall class of total knee replacement of 1.9% CRR at four years.¹

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

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Positive Early Registry Results

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



The 5 and 6 year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 193 and 42 patients 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	0.99 (0.85 - 1.16)	0.912
Adjusted for age, gender, year cohort and indications.	1.01 (0.86 - 1.19)	0.900

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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	58	53.24	0.491
Progressive Arthritis Remaining	19	8.61	0.002
Aseptic Loosening Femur	2	8.99	0.011
Aseptic Loosening Tibia	18	21.15	0.585
Aseptic Loosening Patella	5	5.30	1
Pain	10	26.16	<0.001
Stiffness	12	16.39	0.321
Malalignment	7	13.90	0.077
Instability	24	26.46	0.769
Dislocation / Subluxation	1	6.12	0.038
Periprosthetic Fracture	7	5.18	0.373
Wear of Polyethylene Component	2	2.70	1
Lysis - Tibia	2	4.47	0.341
Lysis - Femur	0	2.69	0.123
Component Dissociation	0	1.43	0.411
Implant Fracture	0	0.69	1
Other / Not recorded	10	13.32	0.489
Total Revised	157	169.87	0.336

Reasons for every revision in the NJR Implant Summary Report produced on August 11th, 2018, are recorded in the chart to the left. Note, while not statistically significant the report concludes cumulatively that, there are fewer revisions for the ATTUNE Knee System than the number of revisions expected, based on the class of TKR, at this short term follow-up.

† 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



THANK YOU

