



ATTUNE® CR Knee & ATTUNE PS Knee NJR Implant Summary Report February 2019



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

97.2%

Implant Survivorship at five years.¹

The **independent analysis** of 23,321 ATTUNE Knee implantations in the NJR Implant Summary Report,¹ showed that the cumulative revision rate (CRR) for the ATTUNE Knee is 2.8% (95% CI: 2.1, 3.5%) at five years (97.2% implant survivorship at five years), which is in line with the overall class of total knee replacement of 2.2% (2.2, 2.2%) CRR at five years.¹

The 6 year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 83 patients.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 February 14, 2019, pages 1-18. Licensed for use until February 14, 2020. 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	23321	-	-
1	17166	0.4% (0.3% - 0.5%)	0.4% (0.4% - 0.4%)
2	9934	1.1% (0.9% - 1.2%)	1.0% (1.0% - 1.0%)
3	4408	1.5% (1.3% - 1.8%)	1.5% (1.5% - 1.6%)
4	1739	2.0% (1.7% - 2.4%)	1.9% (1.9% - 1.9%)
5	407	2.8% (2.1% - 3.5%)	2.2% (2.2% - 2.2%)
6	83	2.8% (2.1% - 4.4%)	2.5% (2.4% - 2.5%)

The **independent analysis** of 23,321 ATTUNE Knee implantations in the NJR Implant Summary Report,¹ showed that the cumulative revision rate (CRR) for the ATTUNE Knee is 2.8% (95% CI: 2.1, 3.5%) at five years (97.2% implant survivorship at five years), which is in line with the overall class of total knee replacement of 2.2% (2.2, 2.2%) CRR at five years.¹

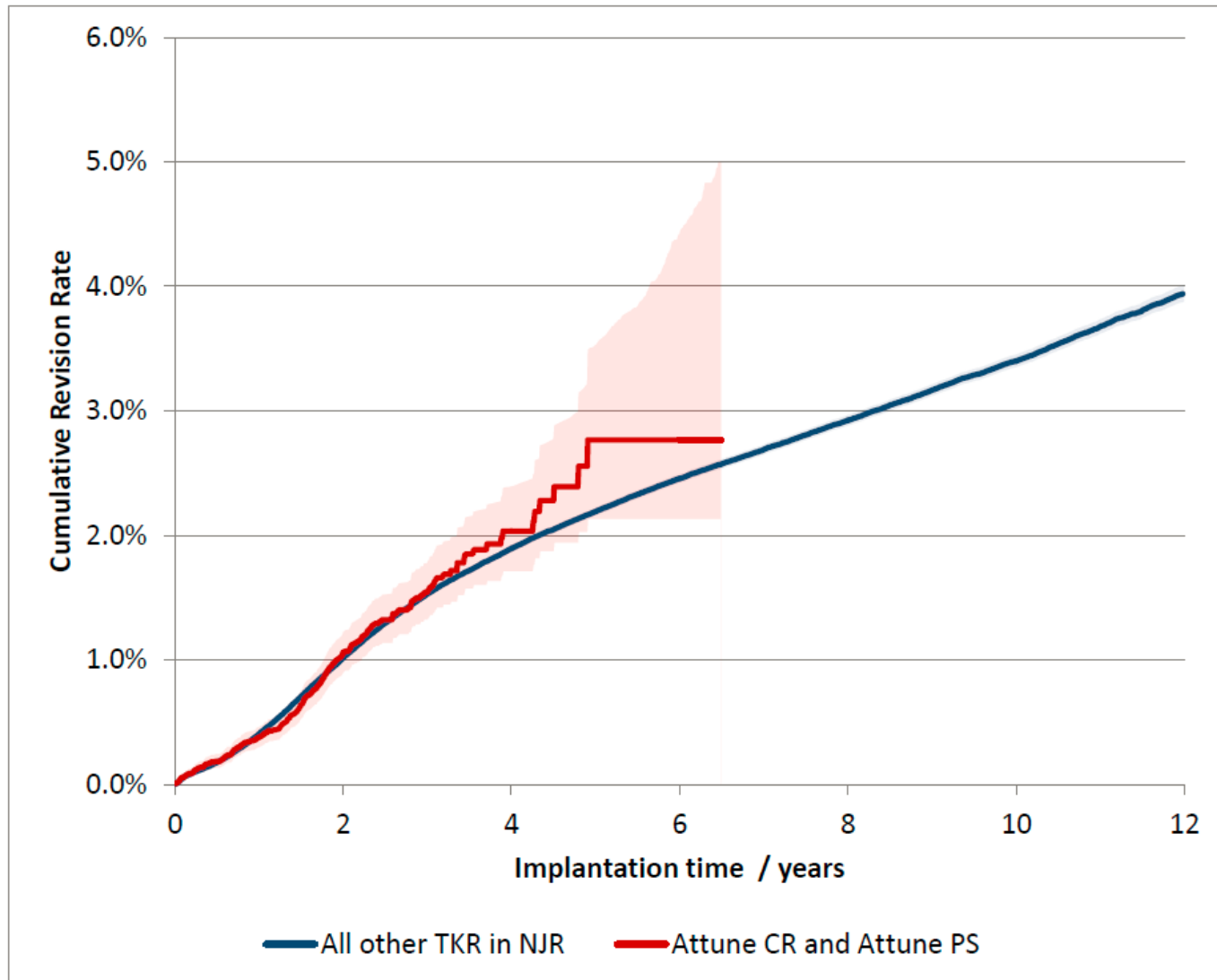
The 6 year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 83 patients.¹

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 February 14, 2019, pages 1-18. Licensed for use until February 14, 2020. Available at www.ATTUNEvidence.com (US) and www.provingthepromise.com (EMEA).

Positive Early Registry Results

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



The 6 year estimated cumulative rate of revision for the ATTUNE Knee is currently based on a sample size of 83 patients.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	1.03 (0.90 - 1.18)	0.657
Adjusted for age, gender, year cohort and indications.	1.07 (0.93 - 1.22)	0.359

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 February 14, 2019, pages 1-18. Licensed for use until February 14, 2020. Available at www.ATTUNEevidence.com (US) and www.provingthepromise.com (EMEA).

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	71	69.64	0.856
Progressive Arthritis Remaining	26	13.26	0.001
Aseptic Loosening Femur	5	12.34	0.031
Aseptic Loosening Tibia	34	29.49	0.404
Aseptic Loosening Patella	7	7.26	1
Unexplained Pain	19	35.33	0.004
Stiffness	18	22.08	0.453
Malalignment	8	18.86	0.008
Instability	31	35.77	0.501
Dislocation / Subluxation	3	7.78	0.101
Periprosthetic Fracture	10	6.76	0.24
Wear of Polyethylene Component	3	3.68	1
Lysis - Tibia	3	6.33	0.231
Lysis - Femur	0	3.77	0.038
Component Dissociation	0	1.90	0.272
Implant Fracture	0	0.95	1
Other / Not recorded	15	18.15	0.554
Total Revised	221	228.56	0.642

Reasons for every revision in the NJR Implant Summary Report produced on February 14th, 2019, 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

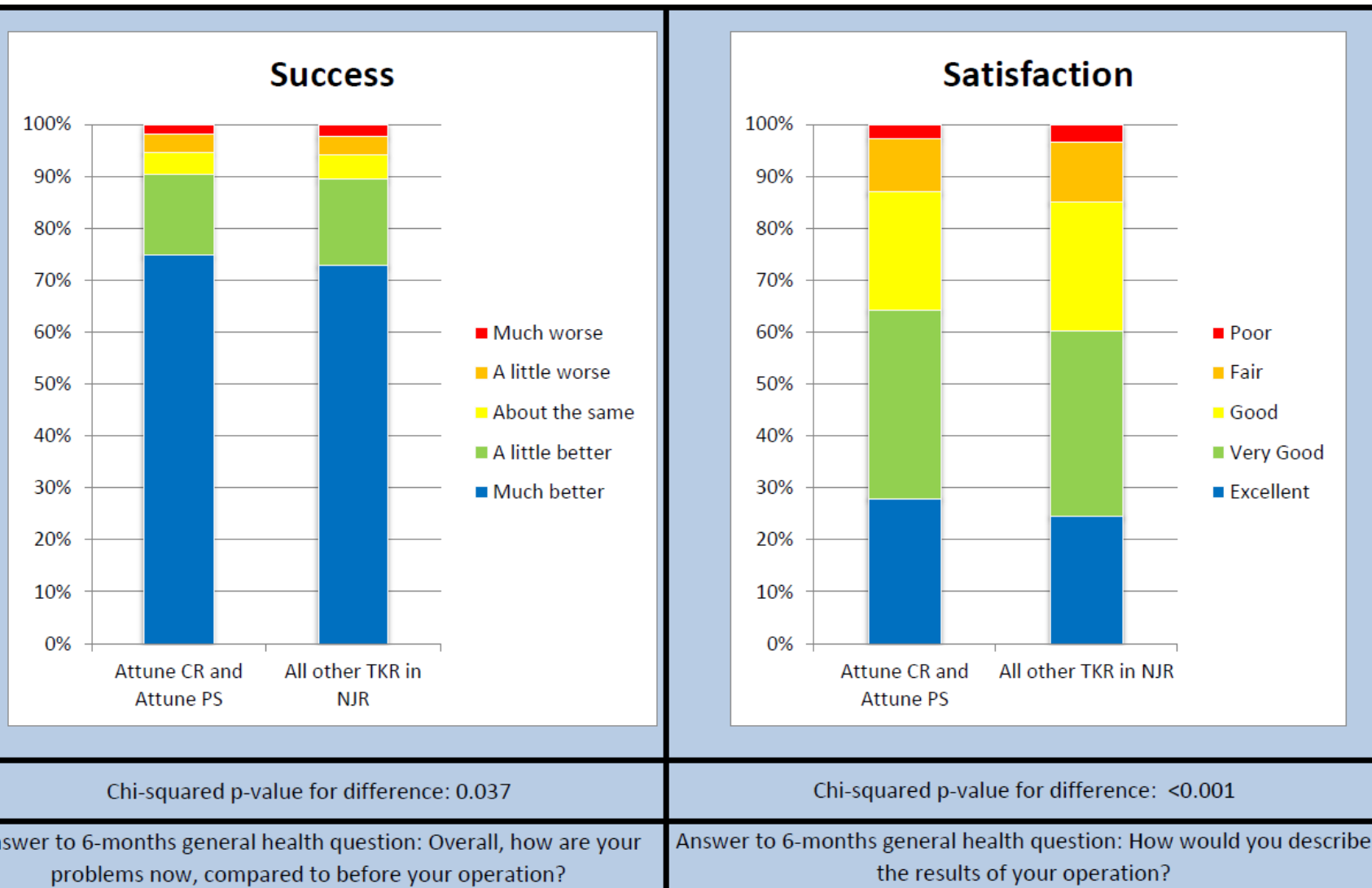
* Based on All TKR in NJR, adjusted for age group, gender, and indications

Significantly better, p<0.001
 Significantly better, p<0.05
 Significantly worse, p<0.05
 Significantly worse, p<0.001



Positive Early Registry Results

ATTUNE CR and ATTUNE PS; Patient Reported Outcomes
PROMs Analysis: Responses are not case mix adjusted



Patient reported success and satisfaction favors the ATTUNE Knee compared to all other TKA in NJR ($p < 0.05$)¹

Comprising PROMs data up to and including December 31, 2016.



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 February 14, 2019, pages 1-18. Licensed for use until February 14, 2020. Available at www.ATTUNEevidence.com (US) and www.provingthepromise.com (EMEA).

THANK YOU



Stability in Motion™