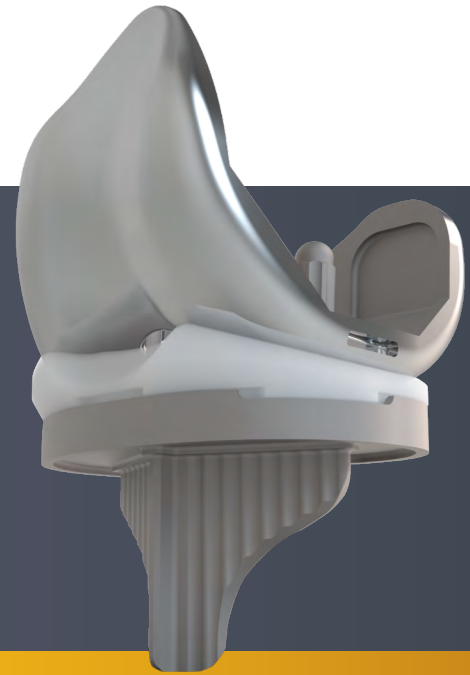


Trust in **Triathlon®**

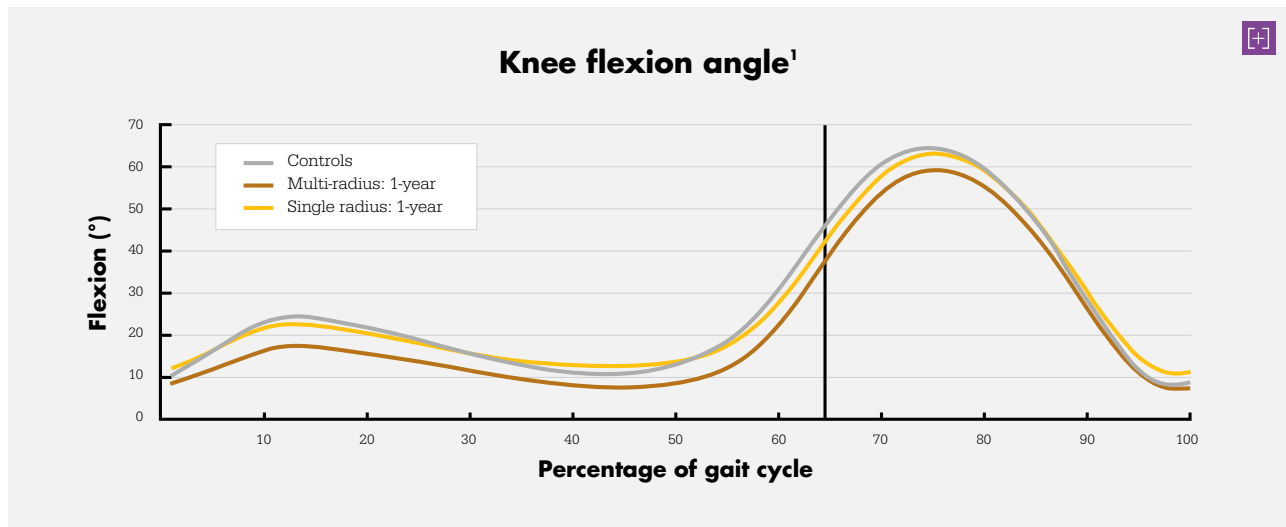


Stability. Satisfaction. Survivorship.

Triathlon's unique single radius design has provided patients **stability** throughout their functional range of motion.¹ Patients have reported high **satisfaction** and improved outcomes.² With published **survivorship** out to fifteen years,^{2,3} it is clear why Triathlon is the most commonly implanted total knee brand in multiple major joint replacement registries around the world.³⁻⁵

Stability throughout functional ROM

Triathlon's single radius is designed to maintain collateral ligament tension throughout the functional range of motion and has been shown to result in gait patterns that more closely mimic an age-matched healthy knee compared to a multi-radius design.¹



Comparison of significant differences ($P < 0.05$) in descriptive statistics for gait cycle parameters pre-operatively and at 1-year after surgery¹

Parameter		Preoperative		1-Year post-operative		
		SR	MR	SR	MR	Control
Knee Flexion	Stance max	39.459 ± 6.621	39.659 ± 7.701	42.326 ± 4.559 ^a	37.262 ± 6.062^a	44.911 ± 4.722
	Stance min	15.196 ± 8.58	10.906 ± 7.175	10.552 ± 4.451 ^a	5.652 ± 6.266^a	10.153 ± 4.820
	Swing max	60.072 ± 7.502	56.431 ± 8.236	63.366 ± 4.558	59.641 ± 6.125	66.124 ± 3.912
	at Toe-off	42.318 ± 6.408	42.66 ± 7.764	45.680 ± 4.536 ^a	40.842 ± 5.960^a	48.198 ± 4.802
	Total ROM	46.085 ± 7.037	47.112 ± 6.215	52.981 ± 4.017	52.947 ± 6.336	57.059 ± 4.940
Knee Power (W/kg-m)	Generation stance	0.168 ± 0.078	0.147 ± 0.054	0.319 ± 0.128	0.240 ± 0.147	0.411 ± 0.279
	Absorption stance	-0.468 ± 0.256	-0.331 ± 0.147	-0.590 ± 0.167 ^a	-0.352 ± 0.198^a	-0.730 ± 0.294
Knee Forces (N)	Stance min (lateral)	-0.028 ± 0.013	-0.031 ± 0.022	-0.043 ± 0.014 ^a	-0.028 ± 0.016^a	-0.051 ± 0.015
	Stance max (anterior)	0.352 ± 0.065	0.314 ± 0.056	0.368 ± 0.042 ^a	0.280 ± 0.088^a	0.375 ± 0.072
Knee Moments (N/Kg) ^b	Stance max (extension)	0.352 ± 0.162	0.268 ± 0.097	0.362 ± 0.101	0.259 ± 0.123	0.434 ± 0.139
	Stance min (abduction)	-0.042 ± 0.041	-0.033 ± 0.023	-0.040 ± 0.018	-0.026 ± 0.024	-0.046 ± 0.020
Temporal Spatial	Stride length (cm)	102.392 ± 11.160	101.195 ± 11.506	111.66 ± 9.842	108.224 ± 12.278	118.410 ± 11.952
	Double support time (sec)	15.047 ± 1.973	15.31 ± 1.699	14.285 ± 1.634	14.642 ± 1.738	13.175 ± 1.600

Bold = statistically different from controls. ^a Statistical difference between surgical groups. ^b Reported as internal moments

High patient **satisfaction** rates

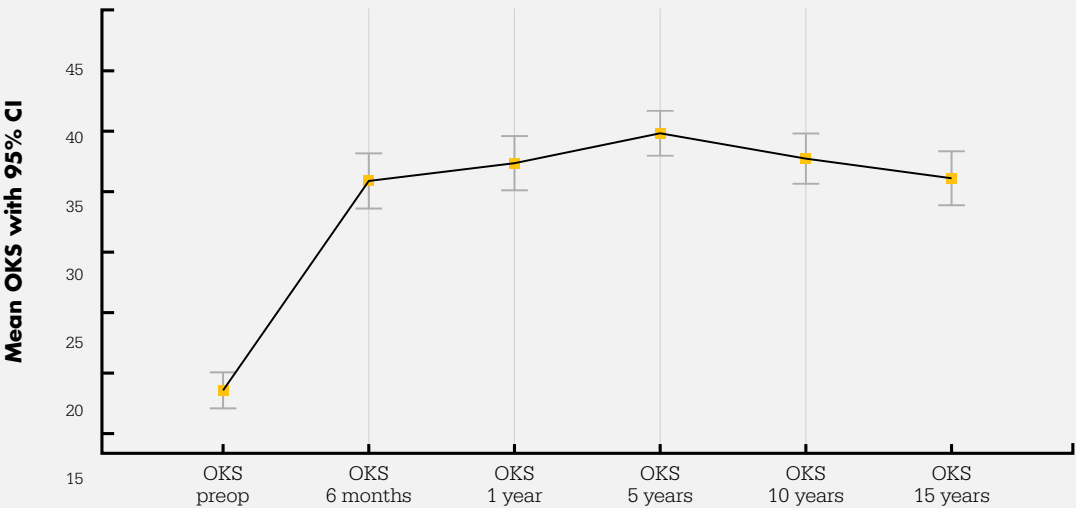
In a prospective longitudinal study, patients reported high satisfaction rates at multiple post-op intervals including 94% satisfaction at fifteen years.² Patients also experienced significant improvements in patient-reported outcome measures (PROMs) compared to pre-op baselines.²

Patient satisfaction with their knee arthroplasty²

Time period	PROMs responders, n	Very satisfied / satisfied, n(%)
1 year	286	252 (88.3)
5 years	291	256 (88.0)
10 years	233	206 (88.4)
15 years	119	112 (94.1)

PROMS, patient-reported outcome measures

Mean Oxford Knee Score at each timepoint from preoperative to 15 years²



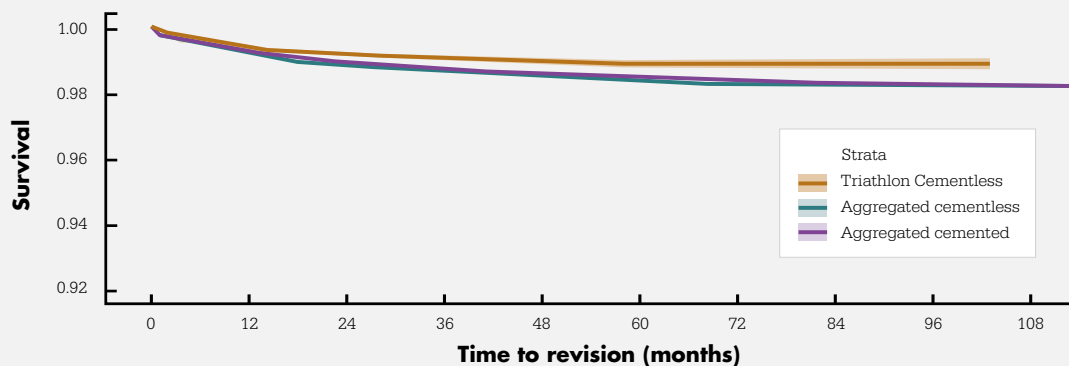
Excellent long-term survivorship

Triathlon has demonstrated excellent long-term survivorship, with the National Joint Registry citing 96.5% survivorship at fifteen years for cemented CR constructs.³ We are also seeing impressive mid-term results with Triathlon Cementless. The American Joint Replacement Registry reported 98.9% survivorship at five years, with Triathlon Cementless having the lowest revision rate among all knees implanted at the same institutions within the same time period.⁶

NJR Kaplan-Meier estimates of cumulative revision (95% CI)³

Brand	N	Time since primary				
		1 year	3 years	5 years	10 years	15 years
Triathlon Cemented CR	146,612	0.44 (0.40–0.47)	1.30 (1.24–1.36)	1.82 (1.74–1.90)	2.70 (2.57–2.83)	3.52 (3.24–3.83)

Kaplan-Meier survivorship of Triathlon Cementless, aggregate cemented, and aggregate cementless cohorts at 60-month follow-up⁶



References

1. Larsen et al. Quantitative, Comparative Assessment of Gait Between Single-Radius and Multi-Radius Total Knee Arthroplasty Designs, *J Arthroplasty* (2015).
2. Scott CEH, Snowden GT, Cawley W, et al. Fifteen-year prospective longitudinal cohort study of outcomes following single radius total knee arthroplasty. *Bone Jt Open*. 2023;4(10):808-816. Published 2023 Oct 24. doi:10.1302/2633-1462.410.BJO-2023-0086.R1
3. The National Joint Registry; 20th Annual Report. [https://www.ncbi.nlm.nih.gov/books/NBK601075/\(2023\)](https://www.ncbi.nlm.nih.gov/books/NBK601075/(2023)).
4. American Joint Replacement Registry; Annual Report. <https://connect.registryapps.net/2023-ajrr-annual-report> (2023).
5. Australian Orthopaedic Association National Joint Replacement Registry; Annual Report. <https://aoanjrr.sahmri.com/en-US/annual-reports-2023>.
6. Nam, D., Bhowmik-Stoker, M., Mahoney, O. M., Dunbar, M. J. & Barrack, R. L. Mid-Term Performance of the First Mass-Produced Three-Dimensional Printed Cementless Tibia in the United States as Reported in the American Joint Replacement Registry. *J. Arthroplast.* 38, 85–89 (2023).

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

The information presented is intended to demonstrate the breadth of Stryker's product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any of Stryker's products. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your sales representative if you have questions about the availability of products in your area.

Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: Stryker, Triathlon. All other trademarks are trademarks of their respective owners or holders.

JR-TRIA-FACT-1121953

Copyright © 2024