

SAIPH Knee System® - latest results

We are delighted to report that the cohort of SAIPH® Knees in Australia is rapidly growing. As well as the on-going clinical studies for these patients as part of the MatOrtho® safe launch strategy, the registry data is strengthening.

Australian Orthopaedic Association National Joint Replacement Registry

The Australian Orthopaedic Association (AOA) National Joint Replacement Registry (NJRR) published its annual report this autumn (October) in advance of the AOA Annual Scientific Meeting. The NJRR publishes performance of all devices in use in terms of the likelihood of a revision within certain timeframes after an operation.

For the first time, the registry has reported on device types by stability – with the medial ball-and-socket concept shown as its own group. For the unique philosophy that Finsbury, now MatOrtho® introduced to the world to finally be recognised as a class of its own is a huge step forward!

There are 64 different TKR device brands and over 300,000 total knee replacements recorded to the registry this year. SAIPH® accounts for over 1,300 of the 300,000 procedures reported on and a reportable cohort of these patients received their SAIPH® more than 3 years ago.

When compared to all other ball and socket knees, SAIPH® is reported as having the lowest cumulative revision rate with 1.6% at 3 years post operation¹. This is also among the best revision rate for all devices and categories.



SAIPH® Knee System

Table KT18 Cumulative Percent Revision of Primary Total Knee Replacement with Medial Pivot by Insert (Primary Diagnosis OA)

Insert Component	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	16 Yrs
Advance I	5	15	6.7 (1.0, 38.7)	13.3 (3.5, 43.6)	13.3 (3.5, 43.6)	35.0 (16.3, 64.9)	35.0 (16.3, 64.9)	35.0 (16.3, 64.9)
Advance II	103	1610	1.9 (1.3, 2.7)	4.3 (3.4, 5.5)	5.3 (4.3, 6.5)	7.5 (6.2, 9.2)	8.6 (6.8, 10.8)	
Evolution	31	3087	0.7 (0.4, 1.2)	2.2 (1.5, 3.4)				
GMK Sphere Primary	50	3361	1.2 (0.9, 1.8)	2.7 (2.0, 3.7)				
SAIPH	11	1317	0.6 (0.2, 1.2)	1.6 (0.8, 3.1)				
TOTAL	200	9390						

Image from the NJRR¹.

The same group however includes devices that have adopted the principal aspects of this philosophy but have maintained some compromises seen in other knees. It also omits the Medial Rotation Knee™ (MRK™) - we have asked that this is corrected. Furthermore, one such device has been identified as having a higher than anticipated rate of revision – for reasons other than its use of the ball-and-socket philosophy.

Without inclusion of the poor performing device, the data shows that the medially stabilised category has the lowest rate of revision of all categories for the available time point: an average cumulative revision rate of 2.4% three years post operation¹.

Table KT19 Cumulative Percent Revision of Primary Total Knee Replacement by Stability (Primary Diagnosis OA, Excluding Advance)

Stability	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs	16 Yrs
Minimally Stabilised	13511	379445	0.9 (0.9, 1.0)	2.6 (2.5, 2.6)	3.4 (3.3, 3.5)	5.0 (4.9, 5.1)	7.1 (6.9, 7.3)	7.7 (7.4, 8.1)
Posterior Stabilised	5786	142780	1.2 (1.2, 1.3)	3.1 (3.0, 3.2)	4.1 (4.0, 4.2)	6.1 (5.9, 6.3)	8.1 (7.6, 8.6)	8.4 (7.8, 9.1)
Medial Pivot	92	7765	0.9 (0.7, 1.2)	2.4 (1.9, 3.0)				
Fully Stabilised	83	1777	2.3 (1.7, 3.2)	4.4 (3.5, 5.6)	5.8 (4.6, 7.3)	7.8 (6.0, 10.2)		
Hinged	41	634	2.5 (1.5, 4.1)	5.4 (3.7, 7.8)	7.1 (5.0, 10.0)			
TOTAL	19513	532401						

Image from the NJRR¹. Note that the category is referred to as 'Medial Pivot'. We have highlighted that this is a brand name (and associated with a device that has not performed as well); the registry have agreed to rename this 'Medially Stabilised'.

The SAIPH® Knee is demonstrating that, with the right design and operative technique, the medial ball-and-socket concept shows great promise in terms of survivorship. This matches the global experience of the MRK™.

The exciting story continues with how well the surviving patients are performing: more news to follow!

References

1. AOA NJRR Annual Report 2017. <https://aoanjrr.sahmri.com> [accessed: 01/11/2017]