

# The ATTUNE® Knee System

Get back to doing what you love sooner.<sup>1,2</sup>



## Designed By Experts, Based On Science

- The ATTUNE® Knee was developed to provide better range of motion and prevent the unstable feeling some patients experience during everyday activities, such as bending and walking up and down stairs.
- Designed to work in harmony with your knee muscles and ligaments to increase stability and reduce pain, the ATTUNE Knee helps you get back to living your life and pursuing your passions sooner.<sup>1,2</sup>
- Backed by DePuy Synthes' largest-ever research and development program, the ATTUNE Knee has been provided for more than 500,000 patients worldwide since its first clinical use in 2011.<sup>3</sup>

## Surgeon Perspective



**William P. Barrett, M.D.** – ATTUNE Knee Surgeon Design Team; Renton, Washington

"The ATTUNE Knee System, with its enhanced stability and range of motion, allows my patients to get up and around more quickly. In my experience, my patients are able to get back to work, get back to their activities more quickly than they would in the past."



**Ryan M. Nunley, M.D.** – Clinical Investigator; St. Louis, Missouri

"After doing the first couple of cases, my patients seemed to get out of the hospital faster, have less pain, and a faster recovery. When they came back to their visit at about the one month period, they had better range of motion. I decided that the ATTUNE Knee was the knee that I wanted to use."

## Research Findings

One year results from two worldwide studies showed improved patient reported outcomes with the ATTUNE Knee compared to other leading knee systems.<sup>4</sup>



**Confidence in knee performance<sup>4</sup>**



**Patellofemoral outcomes<sup>5-8</sup>**



**Activities of daily living<sup>4</sup>**



**Quality of life<sup>4</sup>**

Knee replacement surgery is a common and successful procedure. The performance of the ATTUNE Knee is in line with other knee systems.<sup>9,10</sup>

## A Journey to Faster Recovery

In a clinical study, physical therapists noted that ATTUNE Knee patients had **significantly greater range of motion** than other knee replacement patients, both at two and six weeks post surgery.<sup>1</sup>

These physical therapists also noted that ATTUNE Knee patients required **significantly less time than other knee replacement patients to meet the necessary criteria to leave the hospital.**<sup>1</sup>

# How the ATTUNE Knee System Works

Every aspect of the ATTUNE Knee has been specially designed to work with the body for a full and natural range of motion, while optimizing stability.

The ATTUNE Knee is comprised of several innovative, patented technologies to give you confidence from your very first step.



## Smooth Motion and Stability: The Patented ATTUNE GRADIUS® Curve

This is designed to provide you with smooth motion and stability as you do everyday activities like walking or going up and down stairs.



## Anatomic Movement: The GLIDERIGHT® Articulatio

This innovation is designed to improve how your patella (knee cap) interacts with the rest of your knee to potentially provide a smooth feeling in motion.



## Patient Perspective



### Pam, Retail Store Manager

"My quality of life since the knee replacement has improved so much. It's been like night and day. Now that I've had my knee replaced, I don't even think about it when I wake up in the morning. I just get out of bed, make coffee, get the paper and don't have to worry about the pain."



### Bob, Handball Player

"My quality of life has changed back to where I was probably in my mid-thirties, early-forties. I was able to do things without pain. I was able to go on walks, able to cut the grass, all the things that you can do when you have two good knees."



### Lani, Veterinarian and Equine Therapist

"My physical therapist was kind enough to tell me that in his twenty-plus years of doing physical therapy, he had never seen anybody that had responded, and was recovering, as fast as I was."



### Roger, Cyclist and Fisherman

"I am going up and down ladders without a problem, I am fishing without a problem. I enjoy taking my granddaughter out on the boat. My quality of life has changed a lot. One mistake I made, a big mistake, is that I should have gotten it done many years ago."

## About DePuy Synthes - A History of Leading the Industry Through Innovation

DePuy Synthes provides one of the most comprehensive portfolios of orthopaedic solutions in the world with specialties including joint reconstruction, trauma, craniomaxillofacial, spinal surgery, and sports medicine. Founded in 1895, DePuy Synthes was the first commercial orthopaedics company in the United States. DePuy Synthes continues to advance the art and science of hip and knee replacements by helping orthopaedic surgeons improve mobility for millions of patients around the world.

### Important Safety Information

As with any medical treatment, individual results may vary. The performance of knee replacements depends on your age, weight, activity level, and other factors. There are potential risks, and recovery takes time. People with conditions limiting rehabilitation should not have this surgery. Only an orthopaedic surgeon can determine if knee replacement is right for you.

1. Clatworthy, M. (2015). An Early Outcome Study of the ATTUNE® Knee System vs. the SIGMA® CR150 Knee System. DePuy Synthes Companies White Paper. DSUS/JRC/0814/0418 (1). In an IRB approved early outcomes study, physiotherapists collected data on 40 patients implanted with ATTUNE® Knees and 40 patients with SIGMA® CR150 knees. The results demonstrated that patients implanted with the ATTUNE Knee had statistically significant improvements in some early outcomes, other outcomes demonstrated a trend favoring the ATTUNE Knee, and some outcomes were equivalent. 2. Etter K, Lerner J, Kalsekar J, de Moor C, Yoo A, Swank M. Comparative Analysis of Hospital Length of Stay and Discharge Status of Two Contemporary Primary Total Knee Systems. J Knee Surg. 2017; 1(212): 1-10. DOI https://doi.org/10.1055/s-0037-1604442. Premier Perspective™ Database analysis including 38 hospitals, representing 1,178 primary, unilateral TKAs with the ATTUNE Knee and 5,707 primary, unilateral TKAs with Triathlon™. 3. DePuy Synthes Sales Data. October 2017. 4. Hamilton W.G., Brenkel, I., Clatworthy, M., Dwyer, K., Himden, S., Lesko, J., Kantor, S.: Early Outcomes with a New Primary TKA System vs. Contemporary TKA: Interim Results of Two Worldwide, Multi-Center Prospective Studies. AAOS, San Diego, California, March 14-18, 2017 Poster #106. Other implants tested: SIGMA Knee (DePuy), NexGen® (Zimmer), Triathlon® (Stryker). 5. Toomey, S.D., Daccach, J., Shah, J., Himden, S., Lesko, J., Hamilton W.G.: Comparative Incidence of Patellofemoral Complications Between Two Total Knee Arthroplasty Systems in a Multi-Center, Prospective Clinical Study. J Arthroplasty. 2017; 32:S187-S192. Implants tested: P.F.C. SIGMA (DePuy). 6. Indelli P.F., Pipino G., Johnson P., Grace, A.A., Maruccci M.: Posterior-stabilized total knee arthroplasty: a matched pair analysis of a classic and its evolutionary design. Arthroplasty Today 2016;2:193-8. Implants tested: P.F.C. SIGMA and ATTUNE Knee. 7. Martin J.R., Jennings J.M., Watters T.S., Levy D.L., McNabb D.C., Dennis D.A.: Femoral Implant Design Modification Decreases the Incidence of Patellar Crepitus in Total Knee Arthroplasty. J Arthroplasty. 2017 Apr;32(4):1310-1313. Implants tested: P.F.C. SIGMA and ATTUNE Knee. 8. Ranawat C.S., White P.B., West S., Ranawat A.S.: Clinical and Radiographic Results of Attune and PFC Sigma Knee Designs at 2-Year Follow-Up: A Prospective Matched-Pair Analysis. J Arthroplasty 2017;32:431-6. Implants tested: P.F.C. SIGMA and ATTUNE Knee. 9. Australian Orthopaedic Association National Joint Replacement Registry Annual Report. (2017). Tables KT7, KT22, KT 23. Full summary of all data is available from: https://aoanrr.sahmri.com/annual-reports-2017. See table. 10. National Joint Registry for England, Wales, Northern Ireland and the Isle of Man, 14th Annual Report. (2017). Table 3.29. Full summary of all data is available from: www.njrreports.org.uk.

Extracted from Table KT7 Cumulative Percent Revision of Primary Total Knee Replacement with Cemented Fixation

Femoral Component	Tibial Component	N Revised	N Total	1 Yr	3 Yrs	5 Yrs	10 Yrs	15 Yrs
ATTUNE CR	ATTUNE	49	5,691	0.6 (0.4, 0.9)	2.1 (1.4, 3.1)			
ATTUNE PS	ATTUNE	18	2,693	0.4 (0.2, 0.8)	1.1 (0.6, 1.9)			
Table KT22 Cemented Fixation Class data, Minimally stabilized		4,712	157,680	0.8 (0.8, 0.9)	2.2 (2.1, 2.3)	2.9 (2.9, 3.0)	4.5 (4.3, 4.6)	6.5 (6.2, 6.9)
Table KT23 Cemented Fixation Class data, Posterior stabilized		4,774	124,375	1.1 (1.1, 1.2)	2.9 (2.8, 3.0)	3.9 (3.8, 4.1)	5.9 (5.8, 6.1)	7.8 (7.3, 8.3)



Visit [www.ATTUNEknee.com](http://www.ATTUNEknee.com) for more patient stories and information.

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