

OrthoAlign

precision · technology · simplified



About OrthAlign

OrthAlign® technology is designed to provide and record unparalleled control of critical surgical steps, to ensure consistent and positive patient outcomes and to address evolving health economics requirements.

Our next generation computer-assisted surgical tools provide surgeons with intraoperative control by providing real-time, accurate data that seamlessly integrates into their surgical workflow for Total Knee, Unicompartamental Knee, and Total Hip Arthroplasty procedures.

Our Mission

OrthAlign develops advanced technologies to deliver a healthier and more pain-free lifestyle to the millions of joint replacement patients around the world.

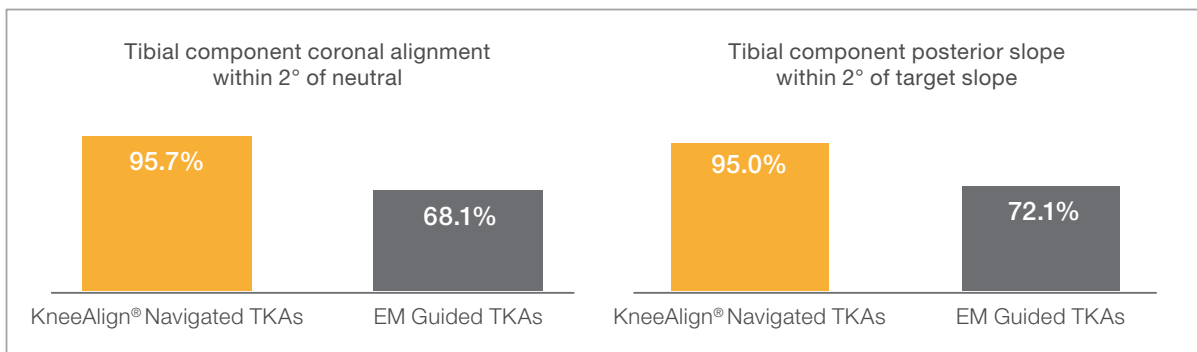
To drive this vision, we provide healthcare professionals with cutting-edge, user-friendly computer-assisted surgical tools that seamlessly and cost effectively deliver vital data, superior clinical results, and unparalleled control so that they can achieve the best possible surgical results for our patients.



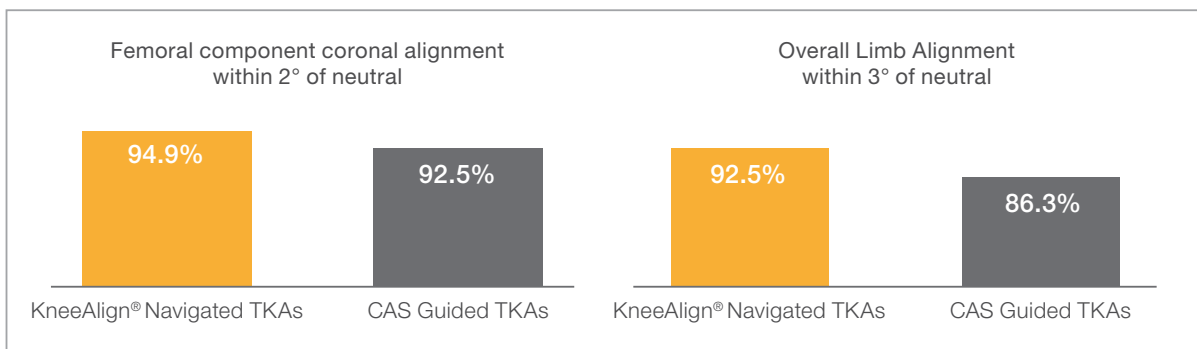
KneeAlign

KneeAlign® provides both tibial and femoral navigation for total knee arthroplasty in a simple, palm-sized, single-use device that is compatible with all implant systems.

Recent studies have shown OrthAlign® technology to improve alignment compared to traditional mechanical guides¹:



And to compare favorably to conventional CAS systems²:



¹Nam, et al, “Extramedullary Guides versus Portable, Accelerometer-Based Navigation for Tibial Alignment in Total Knee Arthroplasty: A Randomized Controlled Study”, The Journal of Arthroplasty, June 5, 2013.

²Nam, et al, “Accelerometer-Based, Portable Navigation vs Imageless, Large Console Computer-Assisted Navigation in Total Knee Arthroplasty”, The Journal of Arthroplasty, April 17, 2012.



UniAlign

UniAlign™ provides the proven tibial navigation performance of KneeAlign® along with instruments uniquely designed to address the challenges of unicompartmental knee arthroplasty.

Our comprehensive platform allows intraoperative decision making and seamless transition between UKA and TKA.



To define the knee center, the UniAlign Midline Probe features a 3D curve designed to go around the patellar ligament, below the femur, and posterior to the ACL insertion point.

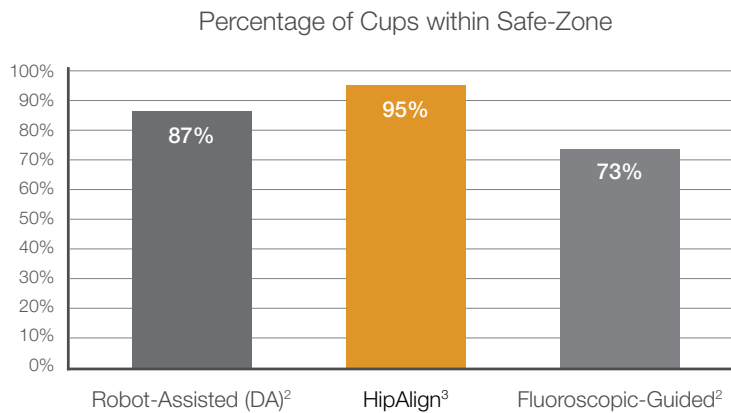
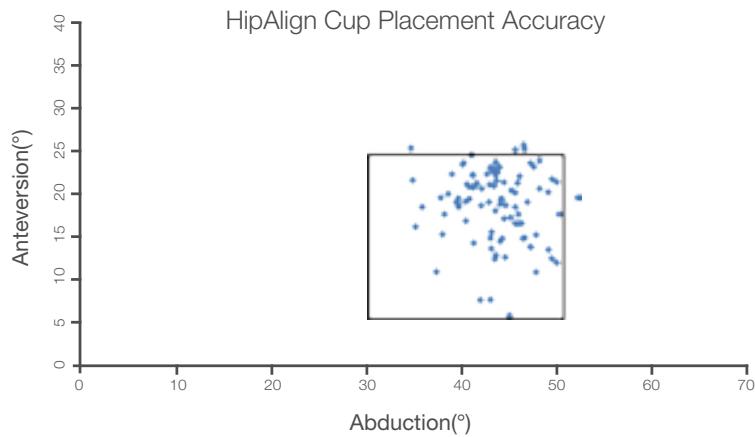


HipAlign

HipAlign[®] provides cup navigation and measures changes in leg length and offset for direct anterior approach total hip arthroplasty procedures. The technology intraoperatively displays angles that have been clinically proven to match 6 week post-ops. HipAlign is simple to use and can significantly reduce OR and fluoro time.

In clinical use, 95% of HipAlign-navigated cups were placed within the Lewinnek Safe Zone.^{1,3}

HipAlign has been validated to achieve accuracy of $\pm 3\text{mm}$ with at least 97% confidence for changes in leg length and femoral offset.⁴



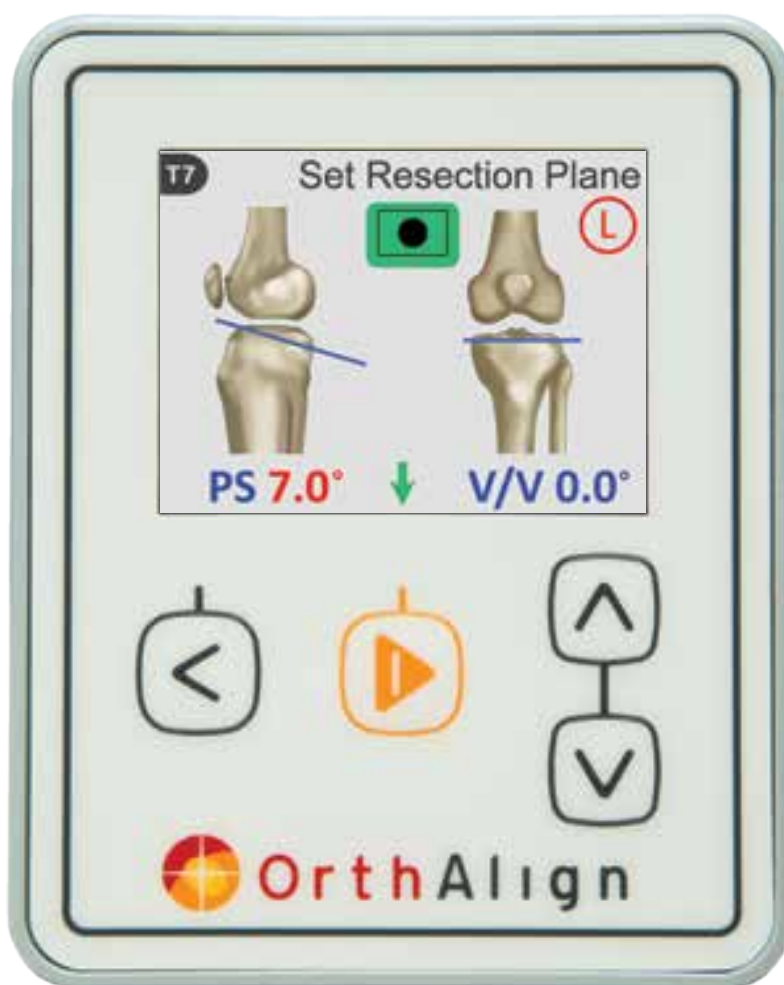
¹Lewinnek GE, Lewis JL, Tarr R, Compere CL, Zimmerman JR. Dislocations after total hip-replacement arthroplasties. J Bone Joint Surg Am. 1978; 60(2):217–220.

²Domb BG, Redmond JM, Louis SS, Alden KJ, Daley RJ, LaReau JM, Petrakos AE, Gui C, Suarez-Ahedo C. Accuracy of Component Positioning in 1980 Total Hip Arthroplasties: A Comparative Analysis by Surgical Technique and Mode of Guidance. J Arthroplasty. 2015 Dec;30(12):2208-18.

³Data from clinical use on file at OrthAlign

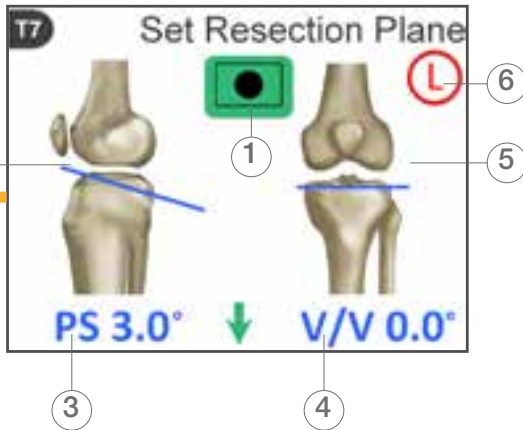
⁴Data from testing on file at OrthAlign

OrthAlign[®] Technology



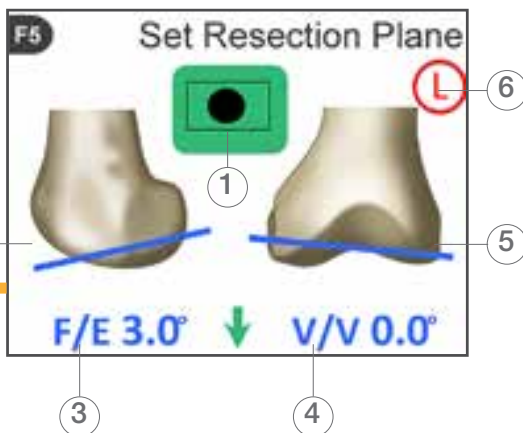
TKA
UKA

THA



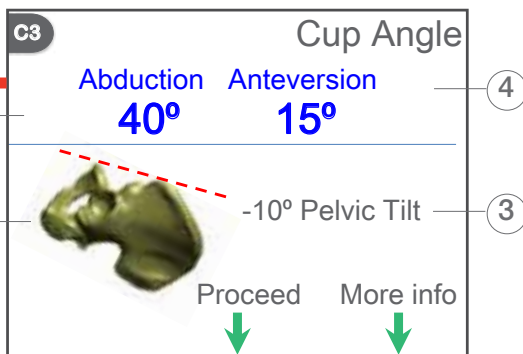
Tibia

1. Knee Stability Indicator
2. Posterior Slope Graphical Indicator
3. Posterior Slope Angle
4. Varus/Valgus Angle
5. Varus/Valgus Graphical Indicator
6. Selected Tibia (L/R)



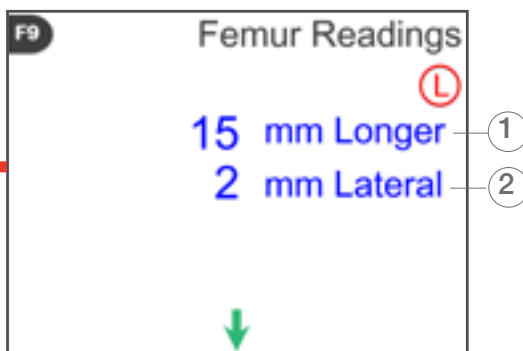
Femur

1. Knee Stability Indicator
2. Flexion/Extension Graphical Indicator
3. Flexion/Extension Angle
4. Varus/Valgus Angle
5. Varus/Valgus Graphical Indicator
6. Selected Femur (L/R)



Cup Placement

1. Abduction Angle
2. Pelvic Tilt Indication
3. Pelvic Tilt Angle
4. Anteversion Angle



Leg Length & Femoral Offset

1. Change in Leg Length
2. Change in Offset

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