ROSA® Knee System

ACCURACY AND REPRODUCIBILITY VERSUS CONVENTIONAL INSTRUMENTATION

100% of cases within 3°
of the targeted HKA.

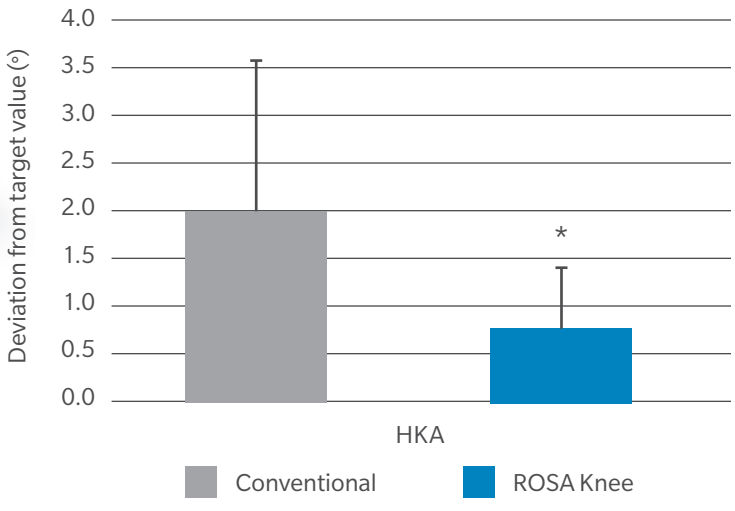
In a recent cadaveric study[1], the ROSA Knee System was found to produce more accurate and more reproducible final limb alignment (HKA: Hip-Knee-Ankle angle) and results demonstrated a higher level of accuracy and less alignment outliers in bone resections compared to a conventional procedure (sample size of 20/14 for conventional/ ROSA Knee cases).

Final Limb Alignment (HKA)

ROSA Knee cases resulted in significantly more accurate and more reproducible HKA than conventional instrumentation.

- Significantly more accurate final limb alignment for ROSA Knee cases: 0.8° ± 0.6° (mean ± standard deviation).
- Less outliers for ROSA Knee cases:
  - 100% of cases within 3° of the targeted neutral alignment.
  - 93% of cases within 2° of the targeted neutral alignment.

Significantly Better Accuracy of Final Limb Alignment (HKA) for ROSA Knee Cases



*p<0.05

In both groups, the accuracy was determined as the average difference (absolute values) between the intra-operative validation values and target values .

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Bone Resections

ROSA Knee cases resulted in significantly more accurate and more reproducible bone resections than conventional instrumentation.

MORE ACCURATE
and **MORE REPRODUCIBLE BONE RESECTIONS** than conventional instrumentation.

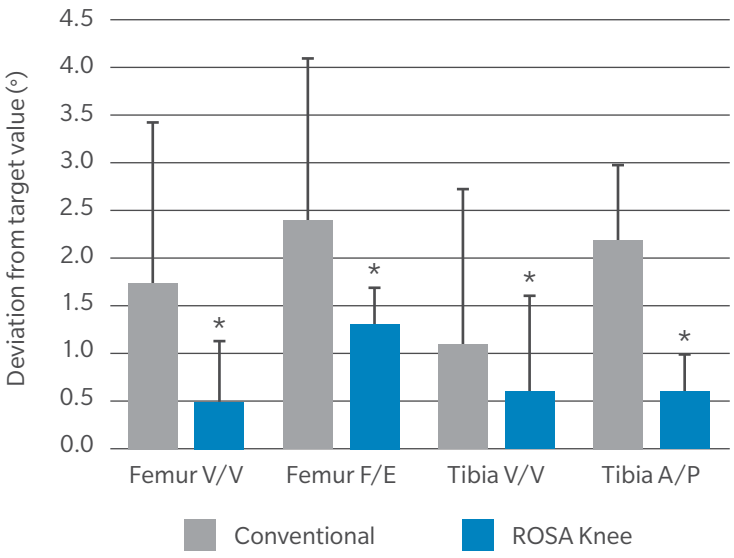
Bone Resection Angles

- More accurate bone resection angles for ROSA Knee cases: accuracy below 0.6° ± 0.4° for all resections (except Femur F/E).
- Fewer outliers for ROSA Knee cases for all bone resection angles.

Bone Resection Levels

- More accurate bone resection levels for ROSA Knee cases: accuracy below 0.7 mm ± 0.7 mm for all resections.
- Fewer outliers for ROSA Knee cases for all bone resection levels (except Distal Femoral).

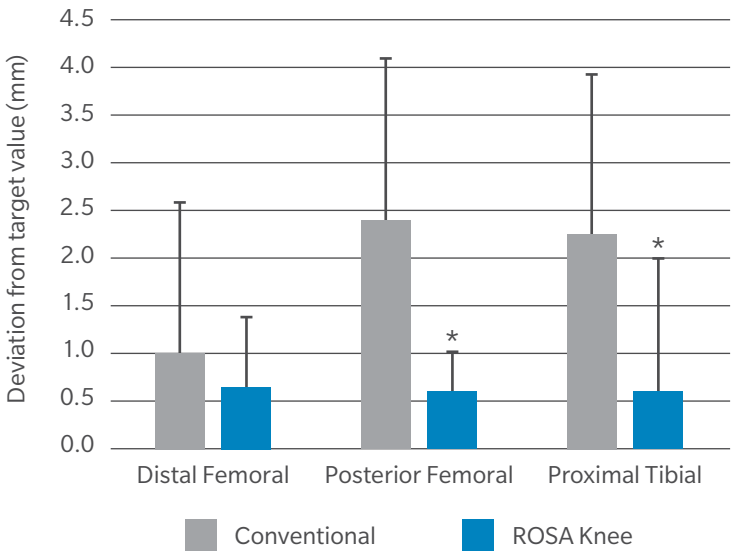
Significantly Better Accuracy of All Bone Resection Angles for ROSA Knee Cases



*p<0.05

In both groups, the accuracy was determined as the average difference (absolute values) between the intra-operative validation values and target values .

Significantly Better Accuracy of Bone Resection Levels for ROSA Knee Cases (except Distal Femoral)



*p<0.05

In both groups, the accuracy was determined as the average difference (absolute values) between the intra-operative caliper measurement values and target values.

References

1. Seidenstein A, Birmingham M, Foran J, Ogden S. Better accuracy and reproducibility of a new robotically-assisted system for total knee arthroplasty compared to conventional instrumentation: a cadaveric study. Knee Surg Sports Traumatol Arthrosc. 2020 May 24. doi: 10.1007/s00167-020-06038-w. Epub ahead of print. PMID: 32448945.

Cadaveric studies are not necessarily indicative of clinical performance. Study was funded by Zimmer Biomet and utilized at least three Zimmer Biomet implant systems.

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