

Aspen®



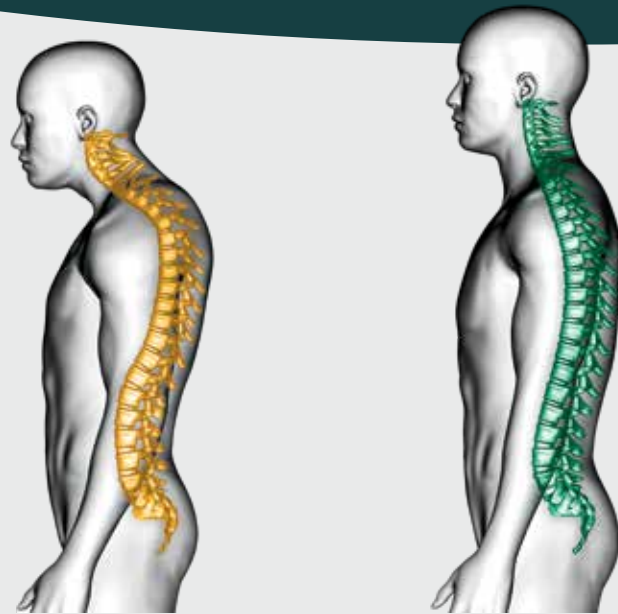
Align PJK Orthosis

One procedure. **One brace.**
A new standard in PJK mitigation.



SCAN the code
for more information

Align to a New Standard of Care



Potential patient outcome without brace. Post-surgical development of PJK.

Potential patient outcome with brace. No PJK, appropriate spinal alignment.

Proximal Junctional Kyphosis

(PJK) is the leading complication of adult spinal deformity surgery, occurring in approximately up to 30 percent of patients. This complication can result in pain, neurological complications, and functional impairment, and can require additional revision surgeries. The absence of a singular solution for surgeons to mitigate the incidence of PJK necessitates a multifaceted strategy.

Align PJK Orthosis

Developed with leading spine surgeons, the Align PJK Orthosis is a prefabricated TLSO that provides optimal flexion control and circumferential stabilization to reduce readmittance rates, create an optimal environment for healing, and improve patient outcomes.

Three-point pressure system

Contact with key points at the chest, waist, and posterior panels ensures control of flexion.

Customized fit

Helps restore symmetrical spinal loads and improves biomechanics to help patients move safely after surgery.

Circumferential compression

Pulley system provides mechanical advantage to the patient for ease of tightening post-operatively for a comfortable fit.

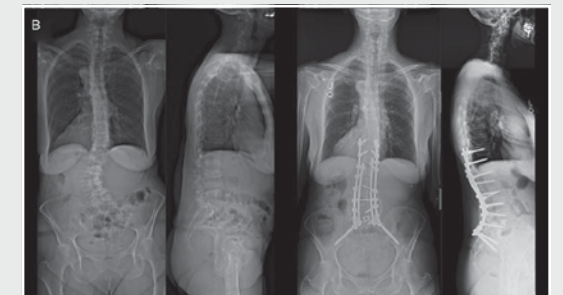


Bracing has proven clinical efficacy in reducing risk and mitigating incidences of PJK after spinal deformity procedures.¹

Bracing post-surgically made a patient 3x less likely to develop PJK.

The data demonstrate that patients who underwent hyperextension bracing for 6 weeks after corrective surgery for adult spinal deformity had a statistically significant smaller change in proximal junctional angle at 1 year post-operatively. Additionally, patients who were braced had a lower incidence of proximal junctional kyphosis at 1 year post-operatively.

Post-Operative Hyperextension Bracing Has the Potential to Reduce Proximal Junctional Kyphosis: A Propensity Matched Analysis of Braced versus Non-braced Cohorts



The Align PJK Orthosis provides better motion restriction than a Jewett-style Hyperextension TLSO.²

Our data suggests that the new Align PJK Orthosis provides better sagittal motion restriction than a Jewett-style Hyperextension TLSO in the sitting and standing positions. The data also suggests that the new Align PJK Orthosis provides equal sagittal motion restriction compared to a Jewett-style Hyperextension TLSO when moving from sitting to standing.

Comparative Evaluation of Spinal Orthoses in Flexion Motion: A comparison of the Sierra™ Hyperextension TLSO and the Align Orthosis



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When used post-operatively, the Align Orthosis is a non-invasive addition to existing PJK mitigation strategies, so we truly have a multifactorial approach to prevention.



Han Jo Kim, MD
Spine Surgeon,
Hospital for Special Surgery



ALIGN PJK BRACES & ACCESSORIES

Align Orthosis — XS **997040**

Align Orthosis — Standard **997050**

Align Orthosis Replacement Pads **997045**

1. Shahi, P., Merrill, R. K., Pajak, A., Samuel, J. T., Akosman, I., Clohisy, J. C., Du, J., Zhang, B., Elysee, J., Kim, D. N., Jordan, Y., Knopp, R. L., Lovecchio, F. C., & Kim, H. J. (2024). Post-operative hyperextension bracing has the potential to reduce proximal junctional kyphosis: A propensity matched analysis of braced versus non-braced cohorts. *Global Spine Journal*. <https://doi.org/10.1177/21925682241260278>
2. Aspen Medical Products. (2024). Comparative evaluation of spinal orthoses in flexion motion: A comparison of the Sierra Hyperextension TLSO and the Align Orthosis (Technical Report).