

 *ySpine*[®] S2AI
PERSONALIZED SACROPELVIC FIXATION

UNIQUE ANATOMIES PATIENT-MATCHED SOLUTIONS



Brochure

Joint

Spine

Sports Med

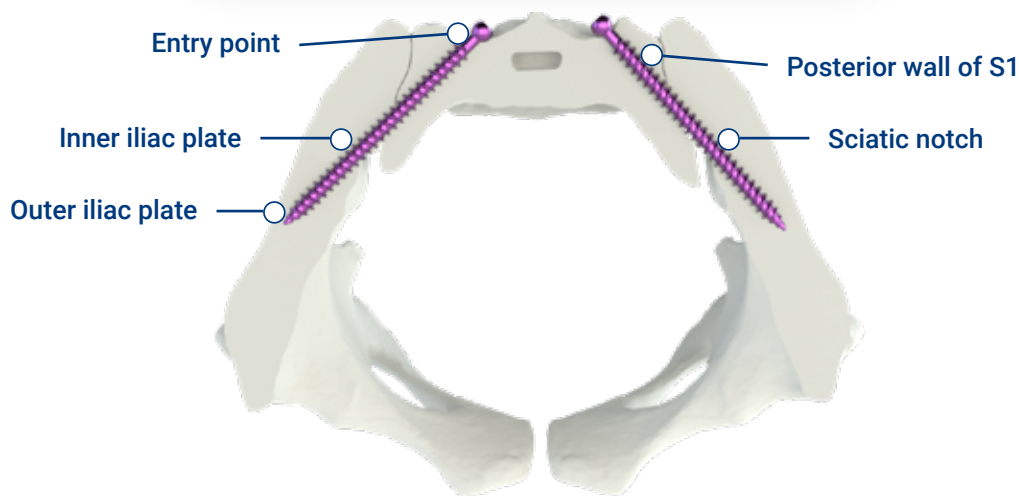
S2-ALAR/ALAR-ILIAC

S2-ALAR-ILIAC TECHNIQUE

The distal fixation in thoracolumbar deformity surgery can be challenging for spine surgeons. When isolated S1-pedicle screws are utilized as the sole distal fixation in long thoracolumbar posterior constructs, there is a **high rate of failure**, due to loosening, breakage, and pseudarthrosis^[2]. Unfortunately, with **iliac screw fixation** the entry point at the posterior superior iliac spine requires **considerable soft tissue dissection** and may potentially increase the likelihood of **wound complications**.^[3]

S2-alar-iliac (S2AI) screw fixation technique was developed recently to provide **increased fixation** with a **lower profile** screw and rod construct^[1]. This technique may provide advantages such as **decreased rates of reoperation**, surgical site **infection**, **wound dehiscence** and **symptomatic screw prominence** as compared to traditional iliac screw fixation.^[3]

5 CORTICAL BONE POINT FIXATION



Prominent conventional **Iliac screws** may lead to **irritation** and **pain** with **high revision rate**.^[2,5]

MYSPINE IS DIFFERENT!

MySpine guided **S2-Alar-Iliac** trajectory may allow for a **small incision** and **less lateral retraction**, and the medial entry point allows for a **quick rod connection**, thus eliminating the need for additional connectors.^[5]

PATIENT-MATCHED SOLUTIONS

MYSPINE S2AI VALUE PROPOSITION

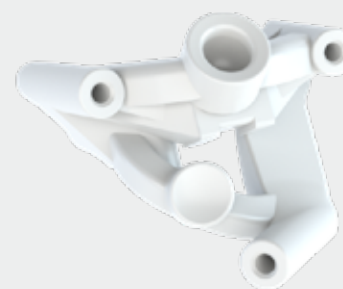
MySpine is a **personalized surgical platform** that is **cost effective, efficient and intuitive**. MySpine provides pre-op planning; single-use, patient-specific drill guides; intra-operative surgical plan and navigation all designed by a dedicated engineer.

MySpine S2AI
Pre-Op Plan



MySpine S2AI
3D Planning

The **MySpine S2AI** patient-specific drill guide might help **facilitating complex thoracolumbar fixation** with **minimal radiation exposure and high accuracy**.^[3,4] The MySpine S2AI patient-specific drill guide is accompanied with the M.U.S.T. Pedicle Screw system with is available in 8.0mm, 9.0mm, and 10.0mm screw with a unique **low-profile** screw head design.



- **HIGH ACCURACY**
- **LOW X-RAY RADIATION DOSE**
- **LOW PROFILE**

THE MYSPINE JOURNEY



1. IMAGE ACQUISITION

Low Dose CT scan to deliver 3D reconstructed vertebrae



2. 3D PRE-OP PLAN MANAGEMENT

The surgeon defines optimal implant parameters



3. 3D PRINTING

Patient matched Jigs are sent to the hospital



4. PROCTORED SURGERY

An experienced surgeon will support your first cases

REFERENCES

- [1] Sponseller P. et al., "Low Profile Pelvic Fixation With the Sacral Alar Iliac Technique in the Pediatric Population Improves Results at Two-Year Minimum Follow-up", *Spine*, September 15, 2010
 [2] Emami A. et al., "Outcome and Complications of Long Fusions to the Sacrum in Adult Spine Deformity: Luque-Galveston, Combined Iliac and Sacral Screws, and Sacral Fixation", *Spine*, April 1, 2002
 [3] Ai-Min Wu, et al. "The technique of S2-alar-iliac screw fixation: a literature review". <http://amj.amegroups.com/article/view/4197/4924>
 [4] Matsukawa K. et al., "Cortical pedicle screw trajectory technique using 3D printed patient-specific-guide, M.O.R.E. Journal, September 2018
 [5] Krieg S. et al., "Revision by S2-alar-iliac instrumentation reduces caudal screw loosening while improving sacroiliac joint pain—a group comparison", *Neurosurgical Review*, September 2020 study

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