

PubMed

Display Settings: Abstract



[Ann Surg Innov Res.](#) 2013 Sep 16;7(1):12. doi: 10.1186/1750-1164-7-12.

## Minimally invasive sacroiliac joint fusion: one-year outcomes in 18 patients.

[Cummings J Jr](#), [Capobianco RA](#).

### Author information

#### Abstract

**BACKGROUND:** Sacroiliac joint (SI) pain is an often-overlooked cause of low back pain due, in part, to lack of specific findings on radiographs and symptoms mimicking other back-related disorders. We report our experience with minimally invasive (MIS) SI joint arthrodesis using a series of triangular, titanium plasma spray (TPS) coated implants in patients refractory to conservative care.

**METHODS:** We report outcomes from 18 patients with 12 months of postoperative follow-up. Demographics, complications, and clinical outcomes using visual analog scale (VAS) for pain, Oswestry Disability Index (ODI) for back function and SF-12 for quality of life were collected preoperatively and at 3, 6 and 12 months post-operatively.

**RESULTS:** Mean age was 64 years and 67% of patients were female. There were no intraoperative complications and one explant at three months for malposition. All patient-reported outcomes showed both clinically and statistically significant improvement at 12 months ( $p < 0.001$  for each of the following): VAS improved by 6.6 points, ODI scores improved by -37.5 points. One year SF-12 physical and mental component (PCS, MCS) scores approximated population normal scores for both physical and mental functioning. Patient satisfaction with outcomes was high at 95%; 89% said would have the same surgery again.

**CONCLUSIONS:** MIS SI joint fusion using a series of triangular porous TPS coated titanium implants is a safe and effective procedure for patients with SI joint disorders who have failed conservative care.

PMID: 24040944 [PubMed] PMCID: PMC3852345 [Free PMC Article](#)

**Images from this publication.** [See all images \(2\)](#) [Free text](#)



**LinkOut - more resources**

---

**PubMed Commons**

[PubMed Commons home](#)

0 comments