

CLINICAL STUDY SUMMARY

Transforaminal Lumbar Interbody Fusion with Expandable Interbody Device Provides Indirect Decompression through Significant Disc Height Restoration

Jonathon B Gentry, Son Le, Jessica R Riggleman, Samantha L Greeley, Leigh Ahrendtsen and Charles Ledonio. Journal of Spine 8(4):440, 2019.

OBJECTIVE: The objective of this study was to quantify the radiographic outcomes of patients who underwent open transforaminal lumbar interbody fusion (O-TLIF) using a RISE[®] TLIF expandable lumbar interbody spacer.

METHOD: A single site, retrospective, institutional review board-exempt chart review was conducted on 68 consecutive patients who underwent O-TLIF at 1-2 contiguous level(s) using RISE[®] TLIF expandable lumbar interbody spacers. Radiographic outcomes were collected and compared at preoperative and postoperative timepoints up to 12 months.

RISE[®] TLIF Expandable Lumbar Interbody Spacer





Preoperative



Lateral Radiographs

Immediate postop one-level O-TLIF using RISE[®] at L4-5



GlobusMedical.com/expandabletechnology

Radiographic outcomes demonstrated the following improvements from preop to 12 months postop:





Mean Anterior Disc Height

- The average disc height increased 49% postoperatively, and was maintained without significant loss over 12 months.
- A pelvic incidence minus lumbar lordosis (PI-LL) of greater than 10° has been shown to be a predictor of severe disability^{*}. In this study, mean PI-LL was 8.1° at 12 months (P=0.035).
- There were no reported implant-related complications or subsidence at 12 months.

CONCLUSION: In the studied patient population, O-TLIF using RISE[®] TLIF expandable lumbar interbody spacer restored anterior and posterior disc height, and neuroforaminal height providing evidence of indirect decompression. Segmental and lumbar lordosis was maintained at 12 months.

* Schwab et al. Spine (Phila Pa 1976) 38: E803-E812



Scan the QR code to download the article or visit globusmedical.com/rise-gentry study

Talk to your Globus Medical sales representative to learn more about our complete line of expandable devices.

