RISE®-L FUSION SIMPLIFIED

Graft-to-Endplate Contact of RISE®-L Expandable Versus a Traditional Static Spacer

A Foam Block Vertebral Body Model and Cadaveric Segment Analysis

Objective:

To compare contact between the vertebral endplate and bone graft material packed within traditional static spacers versus RISE®-L expandable lateral interbody spacers.

Method:

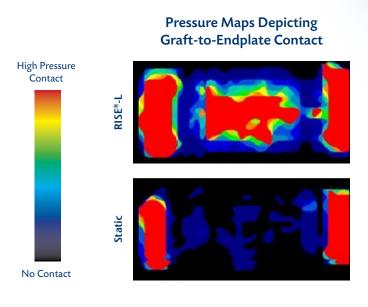
A standard lumbar single level bone model with concave endplates was used for testing. A static spacer was pre-packed with autogenous bone graft and placed in the model. RISE®-L was pre-packed at a minimized height, then expanded and backfilled with autogenous bone graft, and placed in the model. A physiological axial load was applied to each model. Contact pressure between graft material and simulated endplates was evaluated using a pressure sensor.

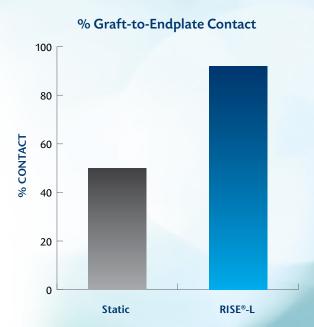
Contact area between graft material and endplates was visually assessed and compared in a single cadaveric motion segment using microCT scanning.



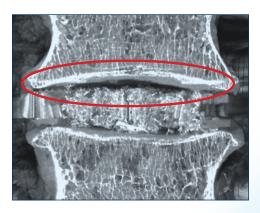


In situ graft delivery resulted in an 84% increase in bone graft-to-endplate contact with RISE®-L compared to a static spacer.





MicroCT showed that backfilling RISE®-L with autograft filled concavities that are typically seen when using a static spacer.



Static pre-packed spacer resulted in graft voids between implant and endplate.



RISE®-L allows bone graft to be delivered in situ to fill endplate concavities.

CONCLUSION: When compared to a traditional pre-packed static implant, RISE®-L allows for more bone graft-to-endplate contact to optimize fusion potential.

EXPERIENCE RISE®-L IN ACTION



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