

CLINICAL STUDY SUMMARY

Transforaminal Lumbar Interbody Fusion With Expandable Cages: Radiological and Clinical Results of Banana-Shaped and Straight Implants

Prof. Dr. med. Tjark Tassemeier¹; PD Dr. med. Marcel Haversath¹; Univ.-Prof. Dr. med. Marcus Jäger¹

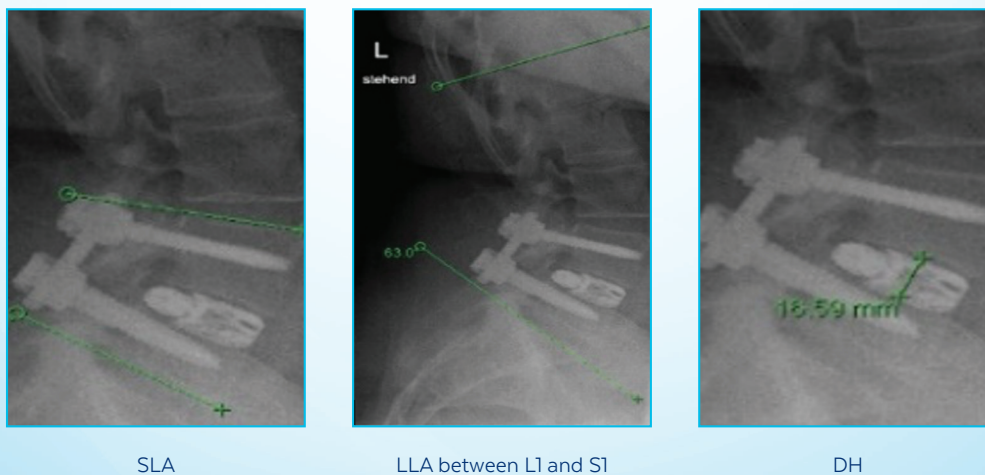
¹University of Duisburg-Essen, D-45247 Essen, Germany

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OBJECTIVE: The goal of this study was to compare clinical and radiological results after implantation with the ALTERA® Articulating Expandable TLIF Spacer and RISE® Expandable TLIF Spacer.

METHOD: A retrospective review was performed of 61 patients who underwent TLIF surgery with the ALTERA® Articulating Expandable TLIF Spacer or RISE® Expandable TLIF Spacer. Primary outcomes of change in disc height (DH), segmental lordosis angle (SLA), and lumbar lordotic angle (LLA) were evaluated.

Radiological findings after implantation with ALTERA® Articulating Expandable TLIF Spacer



SLA

LLA between L1 and S1

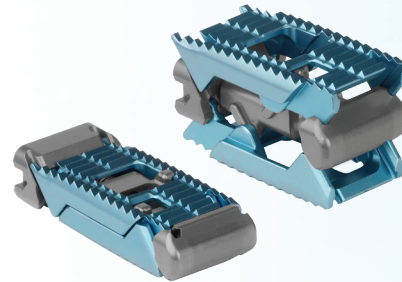
DH

RESULTS

PARAMETERS	ALTERA® Articulating Expandable TLIF Spacer	RISE® Expandable TLIF Spacer
Increase in Disc Height	4.8 ± 2.5mm to 10.4 ± 2.4mm	6.2 ± 2.5mm to 9.6 ± 1.7mm
Segmental Lordosis Angle Correction	19.6 ± 8.9° to 25.9 ± 9.2°	18.5 ± 7.7° to 22.9 ± 8.6°
Lumbar Lordotic Angle Correction	40.7 ± 15.9° to 44.4 ± 13.7°	38.0 ± 9.0° to 44.1 ± 9.1°



ALTERA®
Articulating Expandable TLIF Spacer



RISE®
Expandable TLIF Spacer

CONCLUSION: In this study, the ALTERA® Articulating Expandable TLIF Spacer and RISE® Expandable TLIF Spacer showed similar improvements in segmental and global lordosis. The ALTERA® Articulating Expandable TLIF Spacer showed higher potency restoring the intervertebral disc height compared to the RISE® Expandable TLIF Spacer.



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