

# **ESCADA**

European Study of coflex and Decompression Alone

## Prospective, Randomized, Controlled, Multicenter Study

Schmidt et al. Journal of Neurosurgery: Spine. EPub ahead of Print, January 26, 2018.



 Sven Schmidt, MD, Joerg Franke, MD, Michael Rauschmann, MD, Dieter Adelt, MD, Matteo Mario Bonsanto, MD, and Steffen Sola, MD

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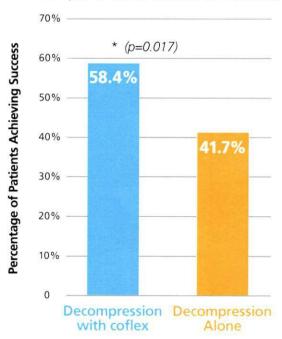
Study Purpose: To compare Decompression Alone (DA) to decompression with coflex Interlaminar Stabilization

Study Design: 225 patients, 7 sites, 1:1 randomization, evaluations at pre-op, 3 months, 12 months, 24 months; 91% follow up at 2 years

### **Study Conclusions:**

- coflex is statistically superior compared to decompression alone for Composite Clinical Success\* (p=0.017)
- Interlaminar Stabilization with coflex increases walking distance, decreases compensatory pain management, and maintains foraminal height; thereby extending the durability and sustainability of a decompression procedure out to 2 years

#### Composite Clinical Success at 24 Months



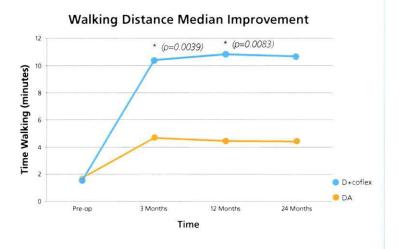
#### Additional Key Study Results at 24 Months:

- coflex had 2.4x more improvement in walking distance measurements compared to DA (p=0.062)
- DA had a 1.75x higher risk for secondary intervention compared to coflex (p=0.055)
- DA experienced 228% more subsequent epidural steroid injections compared to coflex (p=0.010)
- DA had a sooner time to epidural steroid injections compared to coflex (p=0.0065)
- coflex maintained foraminal height and posterior disc height better than DA (p<0.001)</li>

<sup>^</sup>European Study of Coflex and Decompression Alone. Prospective, Randomized, Controlled, Multicenter Study With Two-year Follow-up to Compare the Performance of Decompression With and Without Interlaminar Stabilization; Sven Schmidt, MD, Joerg Franke, MD, Michael Rauschmann, MD, Dieter Adelt, MD, Matteo Mario Bonsanto, MD, and Steffen Sola, MD. Journal of Neurosurgery: Spine. EPub ahead of Print, Jan 26, 2018

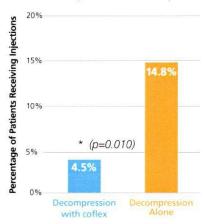
<sup>\*</sup>Composite Clinical Success (CCS): Overall trial success was based on a composite endpoint; a combined outcome measure in which all four components must be met: 1) ODI success with improvement > 15 points; 2) survivorship with no secondary surgical interventions or lumbar injections; 3) neurological maintenance or improvement without worsening, and 4) no device- or procedure-related severe adverse events

Decompression Alone patients are 1.75x more likely to require secondary intervention (reoperation and/or epidural steroid injection) compared to coflex patients

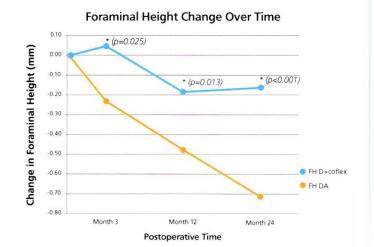


coflex patients improved their walking distance more than 5 times as much compared to before they were treated. Decompression Alone patients only improved 2 times as much.

#### **Overall Epidural Steroid Injections**



There were 2.28 times more epidural steroid injections in the Decompression Alone group compared to the coflex group.



#### Posterior Disc Height Change Over Time

