Early Experience with dualPortal Endoscopic Spine Surgery

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Disclosures

Consultant: Atec, SI BONE, Amplify, SeaSpine, LifeSpine, Medtronic

Dist in course

Fellowship/research: Atec, Medtronic, Amplify, Globus

Residency training

- Orthopaedic surgery residency:
- Loved arthroscopy/ techniques

- Loved ortho sports recovery and outcomes

- Loved visualization



Fellowship training

Orthopaedic trauma fellowship:

TRACEMEN

- Pelvic and acetabular surgery

- Modern techniques allow MIS advantage of soft tissue and achieve of stabilization



Fellowship training

Combined spine ortho/neuro fellowship - Mostly open posterior fellowship - Significant revision, deformity and trauma volume - No tubes



Early practice

Revision, deformity, trauma, tumor.....

Jan Health

But then I saw the light



Early practice- dual portal

Senior partner

ACT HOURS

Mentorship

Indications

Pre/post conferences

Self-assessment

Early practice- dual portal

Lab practice:

- Technical skills (except control of bleeding...)
- Indications:
 - Microdiscectomy (35)
 - Laminotomy/foraminotomy (30)
 - Interlaminar decompression (30)
 - Multilevel decompression (15)
 - Fusion (1)





Patient experience















The SPINE

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Systematic Review/Meta-Analysis

What is the learning curve for endoscopic spine surgery? A comprehensive systematic review

Justin P. Chan, MD^a, Thomas Olson, MD^b, Beshoy Gabriel, BS^a, Sohaib Hashmi, MD^a, Hao-Hua Wu, MD^a, Hansen Bow, MD^c, Yu-Po Lee, MD^a, Nitin Bhatia, MD^a, Michael Oh, MD^c, Don Y Park, MD^a,*

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 Overall median number of cases to reach the learning curve threshold was significantly less in uniportal vs biportal studies (20 vs. 37.5, p=.0463).

• Operative time for biportal discectomies decreased by a significantly greater amount vs uniportal. (44.5% vs. 21.4%, p=.0332).

Early practice takeaways

Buy in/ commitment : surgeon, patient, staff, hospital, industry partners

Mentorship

Indications

Pre/post conferences

Self-assessment: technical progression, patient outcomes

Thank You



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