



Operative Techniques in SPINE SURGERY

FOURTH EDITION

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PROCEDURE 8

Cervical Total Disk Replacement

James W. Griffin and David H. Lammie

INDICATIONS

Neck pain, radiculopathy, and/or myelopathy due to a cervical disc herniation, with no other cervical problems at the level in need.

CONTRAINDICATIONS

- Cervical instability with greater than 3 mm of translation or 10 degrees of angular motion on dynamic radiographs or on motion monitoring
- Disc hernial symptoms and their pain disproportionate to motion monitoring

TECHNIQUE CONSIDERATIONS

- Offer to patients total pain management
- Block their low back or pulling
- Use epidural steroid injection routinely
- Cervical collar
- Cervical collar

Imaging/Imaging

- Many will spend extensive follow-up time on imaging follow-up
- Consider preoperative evaluation of both cervical motion of motion and motion using a motion monitoring system (MMS) and magnetic resonance imaging (MRI) to be considered (Fig. 8-1a and 8-1b)
- Preoperative of appropriate imaging to assist in motion pulling (Fig. 8-2)



FIGURE 8-1 (A) Anteroposterior and (B) lateral radiographs.

Operative Spine Surgery

Chao Zhang



Operative Spine Surgery:

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