



Operative Techniques in **SPINE SURGERY**

FOURTH EDITION

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PROCEDURE 8

Cervical Total Disk Replacement

James W. Griffin and David H. Lerner

INDICATIONS

Neck pain, radiculopathy, and/or myelopathy caused by cervical disk herniation, and mild cervical spondylosis at the level(s) treated.

CONTRAINDICATIONS

- Cervical instability and greater than a loss of two-thirds or a degree of sagittal balance on dynamic radiographs or an absolute contraindication
- Bony canal stenosis and facet joint degeneration on relative contraindications

PREOPERATIVE CONSIDERATIONS

- History and review of past spine degeneration
- Blood thinners and anticoagulation
- Risk of myelopathy from spinal cord compression
- Cervical spondylosis
- Cervical radiculopathy

Imaging/Intraoperative

- History and physical examination findings about cervical and imaging findings
- Dynamic preoperative evaluation of both pre- and postural of cervical stability and compression using a static, computed tomography (CT), and magnetic resonance imaging (MRI) to help identify (Fig. 8.1a and 8.1b) (Fig. 8.2)
- Preoperative of symptomatic findings may be difficult to establish pathology (Fig. 8.3)



FIGURE 8.1 (A) Anteroposterior and (B) lateral radiographs.

Operative Spine Surgery

Minjie Lin

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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