

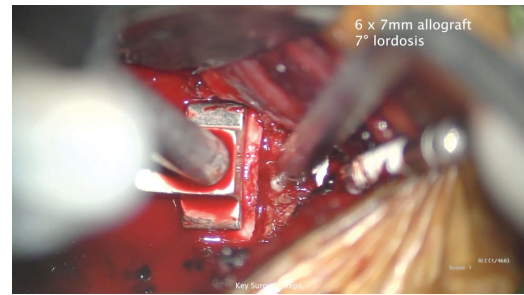
Front-Back Cervical Deformity Correction by Anterior Cervical Discectomy and Fusion With Posterior Instrumentation: 2-Dimensional Operative Video

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Front-back procedures for cervical deformity permit the correction of cervical kyphosis in the setting of unfused facets. Here, we highlight the operative treatment of a 65-yr-old female entailing a 4-level anterior cervical discectomy and fusion (ACDF) at C3-C4, C4-C5, C5-C6, and C6-C7 with hyperlordotic interbody implants, supplemented by a posterior C2-T2 instrumented fusion. The patient initially presented with symptoms of treatment-refractory neck pain while neurologically intact on examination. Her imaging demonstrated significant cervical kyphosis measuring 46° as the Cobb angle between C2 and C7 without neural compression. The patient consented to the procedure and publication of their

image. After 2 d of traction, the operation proceeded with the patient initially in a supine position with dissection medial to the sternocleidomastoid muscle down to the vertebral bodies. Discectomies were performed at each level followed by installation of the interbody implants. After closure of this access wound, the patient was turned to a prone position for the posterior element of the operation. The posterior bony elements were exposed and a C2-T2 instrumented fusion performed. Postoperative imaging demonstrated improvement of her sagittal cervical curvature and the patient described improvement in her neck pain.

KEY WORDS: Cervical deformity, Anterior cervical discectomy and fusion, Front-back, Cervical kyphosis, Spine surgery

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Medtronic, NuVasive, and SI Bone; receives royalties from Medtronic, NuVasive, and Zimmer Biomet; is a patent holder with Medtronic, NuVasive, and Zimmer Biomet; is a stockholder with NuVasive; and is Past-President of the American Association of Neurological Surgeons (AANS), President-Elect of the Scoliosis Research Society (SRS), and Board of Directors Member of the Cervical Spine Research Society (CSRS). Dr Than is a consultant for Bioventus and has Honoraria for LifeNet Health and DJO.