

Cervical Artificial Disc Replacement
Research Summary
Updated February 27, 2008

Study #	Pub. Year	Author	Study Title	Publication
1	2007	Nabhan	The ProDisc-C Prosthesis	Spine
2	2005	Pickett	Kinematic Analysis of the Cervical Spine Following Implantation of an Artificial Cervical Disc	Spine
3	2002	Wigfield	The New Frenchay artificial Cervical Joint	Spine
4	2006	Mehren	Heterotopic Ossification in Total Cervical Artificial Disc Replacement	Spine
5	2007	Sekhon	MRI Clarity of Bryan, ProDisc-C, Prestige LP, and PCM Cervical Arthroplasty Devices	Spine
6	2004	Pimenta	Clinical experience with the new artificial cervical PCM (Cervitech) disc	The Spine Journal
7	2004	Robertson	Long-term outcome after implantation of the Prestige I disc in an end-stage indication: 4-year results from a pilot study	Neurosurg Focus
8	2004	Sekhon	Cervical arthroplasty in the management of spondylotic myelopathy: 18-month results	Neurosurg Focus
9	2005	Traynelis	The Prestige Cervical Disc	Neurosurgery Clinics of North America
10	2007	Nabhan	Disc replacement using ProDisc-C versus fusion: a prospective randomized and controlled radiographic and clinical study	European Spine Journal
11	2002	Wigfield	Influence of an artificial cervical joint compared with fusion on adjacent-level motion in the treatment of degenerative disc disease	Journal of Neurosurgery
12	2005	Leung	Clinical significance of heterotopic ossification in cervical disc replacement: A prospective multicenter clinical trial	Neurosurgery
13	2006	Coric	Prospective randomized controlled study of the Bryan Cervical Disc: early clinical results from a single investigational site	J Neurosurg Spine
14	2006	Pickett	Complications with cervical arthroplasty	J Neurosurg Spine
15	2005	Sekhon	Cervical arthroplasty after previous surgery: results of treating 24 discs in 15 patients	J Neurosurg Spine
16	2005	Robertson	Assessment of adjacent-segment disease in patients treated with cervical fusion or arthroplasty: a prospective 2 year study	J Neurosurg Spine
17	2005	Mehren	Artificial cervical disc replacement - An update	Neurology India
18	2005	Sekhon	Artificial cervical disc replacement: Principles, types, and techniques	Neurology India
19	2007	Rabin	The kinematics of anterior cervical discectomy and fusion versus artificial disc: A pilot study	Neurosurgery
20	2007	Shim	Posterior avulsion fracture at adjacent vertebral body during cervical disc replacement with ProDisc-C	Journal of Spinal Disorders and Techniques
21	2003	Pickett	Artificial disc insertion following anterior cervical discectomy	Canadian Journal of Neurological Sciences
22	2005	Sekhon	Cervicothoracic junction arthroplasty after previous fusion surgery for adjacent segment degeneration	Neurosurgery
23	2004	Puschak	Use of artificial disc replacement in degenerative conditions of the cervical spine	Current Opinions in Orthopaedics
24	2004	Johnson	Sagittal alignment and the Bryan cervical artificial disc	Neurosurgical Focus
25	2003	Guyer	Intervertebral disc prostheses	Spine
26	2005	Chi	General considerations for cervical arthroplasty with technique for ProDisc-C	Neurosurgery Clinics of North America
27	2007	Yang	Follow-up study on the motion range after treatment of degenerative disc disease with the Bryan cervical disc prothesis	Journal of Huazhong University of Science and Technology
28	2007	Sasso	The role for cervical arthroplasty for symptomatic cervical stenosis: Indicated for a single-level cervical disc herniation causing stenosis with myelopathy	Seminars in Spine Surgery

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29	2006	Goffin	Complications of cervical disc arthroplasty	Seminars in Spine Surgery
30	2004	Sekhon	Two-level artificial disc placement for spondylotic cervical myelopathy	Journal of Clinical Neuroscience
31	2007	Chang	Range of motion change after cervical arthroplasty with ProDisc-C and Prestige artificial discs compared with anterior cervical discectomy and fusion	J Neurosurg Spine
32	2007	Chang	Changes in adjacent level disc pressure and facet joint force after cervical arthroplasty compared with cervical discectomy and fusion	J Neurosurg Spine
33	2007	N/A	PMA P060018: FDA Summary of safety and effectiveness data for the Prestige cervical disc system	FDA web site
34	2007	Hannallah	Adjacent level degeneration in the cervical spine	Operative Techniques in Orthopedics
35	2006	Sahoo	Cervical disc replacement for spondylotic myeloradiculopathy	Medical Journal Armed Forces of India
36	2007	Sasso	Clinical outcome of Bryan cervical disc arthroplasty: A prospective, randomized controlled multicenter trial with 24-month follow-up	Journal of Spinal Disorders and Techniques
37	2005	Acosta, Jr	Cervical disc arthroplasty: General Introduction	Neurosurgery Clinics of North America
38	2004	Hilibrand	Adjacent segment degeneration and adjacent segment disease: The consequences of spinal fusion?	The Spine Journal
39	2004	Traynelis	The Prestige cervical disc replacement	The Spine Journal
40	2005	Pracyk	Treatment of the painful motion segment; cervical arthroplasty	Spine
41	2004	Puttlitz	Intervertebral disc replacement maintains cervical spine kinetics	Spine
42	2003	Goffin	Intermediate follow-up after treatment of degenerative disc disease with the Bryan cervical disc prosthesis: Single-level and bi-level	Spine
43	2005	Phillips	Cervical disc replacement	Spine
44	2006	Brown	Patient selection for cervical disc arthroplasty	Seminars in Spine Surgery
45	2007	Sasso	Artificial disc versus fusion: A prospective, randomized study with 2-year follow-up on 99 patients	Spine
46	2007	N/A	PMA P070001: FDA Summary of safety and effectiveness data for the ProDisc_C total disc replacement	FDA web site
47	2007	Mummaneni	Clinical and radiographic analysis of cervical disc arthroplasty compared with allograft fusion: A randomized controlled clinical trial	J Neurosurg Spine
48	2007	N/A	FDA approval order for Prestige	FDA web site
49	2007	N/A	FDA approval order for ProDisc-C	FDA web site
50	2007	Medtronic	Clinical outcome of the Prestige cervical disc	unknown
51	2008	unknown	Human studies in cervical disc arthroplasty	unknown