

Table S1 GRADE assessment (10)

Title of study	Quality
Degenerative Cervical Myelopathy: A Brief Review of Past Perspectives, Present Developments, and Future Directions	LOW
The World Bank. DataBank: Population estimates and Projections. http://databank.worldbank.org/data/reports.aspx?source=health-nutrition-and-population-statistics:-population-estimates-and-projections# (2019)	MODERATE
Current Management of Cervical Spondylotic Myelopathy	LOW
Cervical Spondylotic Myelopathy: A Guide to Diagnosis and Management	LOW
Surgery for degenerative cervical myelopathy in the elderly: a nationwide registry-based observational study with patient-reported outcomes	MODERATE
Optimizing the Application of Surgery for Degenerative Cervical Myelopathy [AO Spine RECODE-DCM Research Priority Number 10]	LOW
Anterior approach versus posterior approach for the treatment of multilevel cervical spondylotic myelopathy: a systemic review and meta-analysis	MODERATE
Systematic review of cohort studies comparing surgical treatments for cervical spondylotic myelopathy	LOW
Degenerative cervical myelopathy - update and future directions	LOW
Biomechanical analysis of cervical spondylotic myelopathy: the influence of dynamic factors and morphometry of the spinal cord	LOW
Degenerative cervical myelopathy: Diagnosis and management in primary care	LOW
Pathophysiology of cervical myelopathy	LOW
Comparison of Outcomes Following Anterior vs Posterior Fusion Surgery for Patients With Degenerative Cervical Myelopathy: An Analysis From Quality Outcomes Database	LOW
The Triangle Model of Congenital Cervical Stenosis	VERY LOW
Cervical spondylotic myelopathy: pathophysiology, clinical presentation, and treatment	LOW
Role of Diffusion Tensor MR Imaging in Degenerative Cervical Spine Disease: a Review of the Literature	LOW
Interleukin-6 Serum Levels Are Elevated in Individuals with Degenerative Cervical Myelopathy and Are Correlated with Symptom Severity	LOW
Introduction: Degenerative cervical myelopathy: diagnostic, assessment, and management strategies, surgical complications, and outcome prediction	LOW
State of the Art in Degenerative Cervical Myelopathy: An Update on Current Clinical Evidence	LOW
Cervical Spondylotic Myelopathy: What the Neurologist Should Know	LOW
A review of the pathophysiology of cervical spondylotic myelopathy with insights for potential novel mechanisms drawn from traumatic spinal cord injury	LOW
Cervical spondylotic myelopathy: the clinical phenomenon and the current pathobiology of an increasingly prevalent and devastating disorder	LOW
Degenerative cervical myelopathy	LOW
Cervical spondylotic myelopathy	LOW
Degenerative cervical spinal stenosis: current strategies in diagnosis and treatment	LOW
Genetic factors of cervical spondylotic myelopathy—a systemic review	LOW
Genetics of Degenerative Cervical Myelopathy: A Systematic Review and Meta-Analysis of Candidate Gene Studies	LOW
OPN polymorphism is associated with the susceptibility to cervical spondylotic myelopathy and its outcome after anterior cervical corpectomy and fusion	LOW
Association of VDR-FokI and VDBP-Thr420Lys polymorphisms with cervical spondylotic myelopathy: A case-control study in the population of China	VERY LOW
The genetic association of vitamin D receptor polymorphisms and cervical spondylotic myelopathy in Chinese subjects	LOW
BMP-4 polymorphisms in the susceptibility of cervical spondylotic myelopathy and its outcome after anterior cervical corpectomy and fusion	LOW
The role of smoking status and collagen IX polymorphisms in the susceptibility to cervical spondylotic myelopathy	LOW
Effect of apolipoprotein E genotype on the outcome after anterior cervical decompression and fusion in patients with cervical spondylotic myelopathy	LOW
Apolipoprotein E gene polymorphism and the risk of cervical myelopathy in patients with chronic spinal cord compression	LOW
HIF-1 α polymorphism in the susceptibility of cervical spondylotic myelopathy and its outcome after anterior cervical corpectomy and fusion treatment	LOW
Risk factors for rapid progressive neurological deterioration in patients with cervical spondylotic myelopathy	VERY LOW
Prevalence of cervical spine stenosis. Anatomic study in cadavers	LOW
Degenerative cervical myelopathy	LOW
Prevalence of cervical spondylotic myelopathy	LOW
Degenerative Cervical Myelopathy: Insights into Its Pathobiology and Molecular Mechanisms	LOW
Degenerative Cervical Myelopathy: Epidemiology, Genetics, and Pathogenesis	VERY LOW
Epidemiology of cervical spondylotic myelopathy and its risk of causing spinal cord injury: a national cohort study	VERY LOW
Degenerative Cervical Myelopathy: A Practical Approach to Diagnosis	LOW
Imaging Evaluation of Degenerative Cervical Myelopathy: Current State of the Art and Future Directions	VERY LOW
Advances in MR imaging for cervical spondylotic myelopathy	MODERATE
Translating state-of-the-art spinal cord MRI techniques to clinical use: A systematic review of clinical studies utilizing DTI, MT, MWF, MRS, and fMRI	LOW
Diffusion tensor imaging as an additional postoperative prognostic predictor factor in cervical myelopathy patients: An observational study	LOW
New Imaging Modalities for Degenerative Cervical Myelopathy	VERY LOW
Cervical spondylotic myelopathy	LOW
Degenerative Cervical Myelopathy: Pathophysiology and Current Treatment Strategies	LOW
Current Diagnosis and Management of Cervical Spondylotic Myelopathy	LOW
Is Preoperative Duration of Symptoms a Significant Predictor of Functional Outcomes in Patients Undergoing Surgery for the Treatment of Degenerative Cervical Myelopathy?	MODERATE
Degenerative cervical myelopathy	VERY LOW
Spinal Diffusion Tensor Imaging in Evaluation of Preoperative and Postoperative Severity of Cervical Spondylotic Myelopathy: Systematic Review of Literature	MODERATE
Feasibility of 1H-MR Spectroscopy in evaluation of cervical spondylotic myelopathy	LOW
Proton magnetic resonance spectroscopy of the motor cortex in cervical myelopathy	LOW
Proton magnetic resonance spectroscopy of human cervical spondylosis at 3T. Spinal Cord	MODERATE
Proton magnetic resonance spectroscopy to evaluate spinal cord axonal injury in cervical spondylotic myelopathy: Laboratory investigation	LOW
Cervical spondylotic myelopathy: Can MR spectroscopy be helpful?	LOW
MicroRNA-10a, -210, and -563 as circulating biomarkers for ossification of the posterior longitudinal ligament	LOW
A Novel MRI Biomarker of Spinal Cord White Matter Injury: T2*-Weighted White Matter to Gray Matter Signal Intensity Ratio	LOW
Degenerative Cervical Myelopathy: Changing Frontiers	VERY LOW
Riluzole promotes motor and respiratory recovery associated with enhanced neuronal survival and function following high cervical spinal hemisection	VERY LOW
Multilevel critical stenosis with minimal functional deficits: a case of cervical spondylotic myelopathy	VERY LOW
Degenerative Cervical Myelopathy: Clinical Presentation, Assessment, and Natural History	VERY LOW
Management of the Patient with Cervical Cord Compression but no Evidence of Myelopathy: What Should We do?	VERY LOW
Value of Surgery and Nonsurgical Approaches for Cervical Spondylotic Myelopathy: WFNS Spine Committee Recommendations	LOW
Cervical Spondylotic Myelopathy	LOW
Degenerative Cervical Myelopathy: Recognition and Management	LOW
Spinal Cord Disorders: Myelopathy	VERY LOW
The spinal cord: a review of functional neuroanatomy	LOW
Monitoring for myelopathic progression with multiparametric quantitative MRI	LOW
Degenerative Cervical Myelopathy: Towards a Personalized Approach	LOW
Clinical outcomes of nonoperatively managed degenerative cervical myelopathy: an ambispective longitudinal cohort study in 117 patients	LOW
The Natural History of Degenerative Cervical Myelopathy	LOW
A Clinical Practice Guideline for the Management of Degenerative Cervical Myelopathy: Introduction, Rationale, and Scope	LOW
A Clinical Practice Guideline for the Management of Patients With Degenerative Cervical Myelopathy: Recommendations for Patients With Mild, Moderate, and Severe Disease and Nonmyelopathic Patients With Evidence of Cord Compression	MODERATE
Degenerative Cervical Myelopathy: Evaluation and Management	VERY LOW
Cervical Steroid Injections Are Not Effective for Prevention of Surgical Treatment of Degenerative Cervical Myelopathy	VERY LOW
Change in Function, Pain, and Quality of Life Following Structured Nonoperative Treatment in Patients With Degenerative Cervical Myelopathy: A Systematic Review	MODERATE
Hybrid Decompression and Fixation Technique for the Treatment of Multisegmental Cervical Spondylotic Myelopathy	MODERATE
Surgery for Degenerative Cervical Myelopathy: A Nationwide Registry-Based Observational Study With Patient-Reported Outcomes	LOW
Cord compression defined by MRI is the driving factor behind the decision to operate in Degenerative Cervical Myelopathy despite poor correlation with disease severity	VERY LOW
Cervical spondylotic myelopathy: conservative versus surgical treatment after 10 years	MODERATE
A Clinical Prediction Rule for Functional Outcomes in Patients Undergoing Surgery for Degenerative Cervical Myelopathy: Analysis of an International Prospective Multicenter Data Set of 757 Subjects	MODERATE
Nonoperative Versus Operative Management for the Treatment Degenerative Cervical Myelopathy: An Updated Systematic Review	MODERATE
Clinical Characteristics and Management of C3-4 Degenerative Cervical Myelopathy	LOW
Options of Management of the Patient with Mild Degenerative Cervical Myelopathy	LOW
Surgical management of degenerative cervical myelopathy: a consensus statement	LOW
An Evidence-Based Stepwise Surgical Approach to Cervical Spondylotic Myelopathy: A Narrative Review of the Current Literature	LOW
Clinical outcomes following cervical laminoplasty for 204 patients with cervical spondylotic myelopathy	VERY LOW
Comparison of Anterior and Posterior Surgery for Degenerative Cervical Myelopathy: An MRI-Based Propensity-Score-Matched Analysis Using Data from the Prospective Multicenter AOSpine CSM North America and International Studies	MODERATE
Posterior Cervical Laminectomy Results in Better Radiographic Decompression of Spinal Cord Compared with Anterior Cervical Discectomy and Fusion	MODERATE
Reoperation rates of anterior cervical discectomy and fusion versus posterior laminoplasty for multilevel cervical degenerative diseases: a population-based cohort study in Taiwan	LOW
Management of degenerative cervical myelopathy - An update	LOW
The treatment of certain cervical-spine disorders by anterior removal of the intervertebral disc and interbody fusion	LOW
Anterior cervical spine surgery-associated complications in a retrospective case-control study	VERY LOW
Future Directions and New Technologies for the Management of Degenerative Cervical Myelopathy	VERY LOW
Anterior Cervical Option to Manage Degenerative Cervical Myelopathy	VERY LOW
Local Retropharyngeal Space Anesthetic for Dysphagia Reduction after Anterior Cervical Discectomy and Fusion Surgery: A Single-Center, Prospective, Randomized, Double-Blinded, Placebo-Controlled Clinical Trial	HIGH
Long-term follow-up studies of open-door expansive laminoplasty for cervical stenotic myelopathy	LOW
Long-term results of double-door laminoplasty for cervical stenotic myelopathy	VERY LOW
Posterior surgical treatment of cervical spondylotic myelopathy: review article	MODERATE
Does Hybrid Surgery Improve Quality of Life in Multilevel Cervical Degenerative Disk Disease	MODERATE
Anterior hybrid construction of multilevel cervical disc disease and spondylotic spinal stenosis: surgical results and factors affecting adjacent segment problems	VERY LOW
Impact of the surgical treatment for degenerative cervical myelopathy on the preoperative cervical sagittal balance: a review of prospective comparative cohort between anterior decompression with fusion and laminoplasty	MODERATE
Degenerative Cervical Myelopathy: Review of Surgical Outcome Predictors and Need for Multimodal Approach	LOW
A systematic review of clinical and surgical predictors of complications following surgery for degenerative cervical myelopathy	MODERATE
Trajectory of Improvement in Myelopathic Symptoms From 3 to 12 Months Following Surgery for Degenerative Cervical Myelopathy	VERY LOW
Short-term outcomes following posterior cervical fusion among octogenarians with cervical spondylotic myelopathy: a NSQIP database analysis	VERY LOW
Surgical outcomes of elderly patients with cervical spondylotic myelopathy: a meta-analysis of studies reporting on 2868 patients	MODERATE
Degenerative Cervical Myelopathy: A Clinical Review	LOW
Clinical features and surgical outcomes of cervical spondylotic myelopathy in patients of different ages: a retrospective study	VERY LOW
Frailty Is a Better Predictor than Age of Mortality and Perioperative Complications after Surgery for Degenerative Cervical Myelopathy: An Analysis of 41,369 Patients from the NSQIP Database 2010-2018	MODERATE
The influence of ApoE4 on the clinical outcomes and pathophysiology of degenerative cervical myelopathy	VERY LOW