

Table S1 Outline of the studies used: paper type, surgical approach, outcomes, number of patients and follow-up

Paper	Review type	Procedure	Outcome assessed	Number of patients	Follow-up
Charalampidis 2022	Retrospective	ACDF	NDI, VAS, dysphagia, hoarseness, revision	28	2 years
Wang 2016	Retrospective	ACDF	NDI, VAS, mJOA, radiographs	32	5 years
Lambrechts 2023	Retrospective	ACDF	NDI, VAS, SF-12, mJOA, readmission, revision	374	2 years
Stull 2020	Retrospective	ACDF	NDI, VAS, SF-12	235	1 year
Butterman 2018	Prospective	ACDF	VAS, reoperation, ASD	159	10 years
Bolesta 2000	Prospective	ACDF	Radiographic, pain, neurologic recovery	15	Up to 6 years
Kreitz 2018	Retrospective	ACDF	Revision, neurologic recovery, radiographic	25	>1 year
Pointillart 2018	Prospective	CDA	Odom's, VAS, NDI, SF-12, radiographic	20	15 years
Wahood 2020	Meta analysis	CDA	HO, ASD, reoperation	5,785	<2 years
Hui 2021	Meta analysis	CDA	HO	1,674	1–15 years
Xia 2013	Meta analysis	All spine surgery	ASD	34,716	0.5–20 years
Price 2021	Editorial	CDA and ACDF	ASD, HO, osteolysis, fracture, subsidence	–	–
Hui 2020	Meta analysis	CDA	ASD, HO	3,223	1–5 years
Coric 2011	Prospective RCT	CDA and ACDF	NDI, VAS, reoperation	269	5 years
Loidolt 2021	Prospective RCT	CDA and ACDF	Adverse events, ASD, radiologic	463	10 years
Kelly 2018	Retrospective	CDA and ACDF	Reoperation, readmission	42,395	1–5 years
Anderson 2013	Review	CDA and ACDF	Dysphagia	–	–
Steinmetz 2008	Prospective RCT	CDA and ACDF	Return to work, NDI	1,004	2 years
Rožanković 2017	Prospective RCT	CDA and ACDF	NDI, VAS, neurologic status	105	>2 years
Riew 2008	Prospective RCT	CDA and ACDF	NDI, SF-36, neurologic status	199	2 years
Radcliff 2016	Prospective RCT	CDA and ACDF	NDI, SF-12, reoperation, adverse events	330	5 years
Qureshi 2013	Clinical article	CDA and ACDF	Cost analysis	–	–
Roberts 2018	Editorial	CDA	Pain, neurologic status, ASD	–	–
Verma 2013	Meta analysis	CDA and ACDF	ASD	1,586	2–5 years

ACDF, anterior cervical discectomy and fusion; NDI, Neck Disability Index; VAS, Visual Analogue Scale; mJOA, modified Japanese Orthopaedic Association; SF-12, 12-item short form; ASD, adjacent segment disease; CDA, cervical disc arthroplasty; HO, heterotopic ossification; SF-36, 36-item short form.