

**Online Resource 1.** Individual clinical data and surgical results of 16 subjects with cervico-thoracic tandem spinal stenosis

Demographic information			Surgical data				Postoperative data					Neurological outcomes					
Case No.	Age (y)/Sex	Follo w-up (m)	Diagnosis	Cervical spine	Thoracic spine	Duration (min)	Blood loss (ml)	Subfascial drainage duration (d)	Hospital stay (d)	Neurolog ical status	Other complications	Late events	Preoperati ve	Short-ter m	Mid-te rm	Final JOA	Recovery rate (%)
1*	59/F	28 (115)	C: CSM T: Disc & OLF	ODL: C3-C7	Lam: T1-T4	191	600	5	13	Improve ment	CSF leak	Reoperation	9.0	11.0	9.5	10.0 (16.5)	12.5 (93.8)
2	54/F	102	C: CSM & CSR T: OPLL	ODL: C4-C7	Lam: T1-T3	142	250	5	8	Improve ment			10.5	14.5	16.5	14.0	53.8
3	61/F	94	C: CSM T: OPLL	ODL: C3-C7	Lam: T1-T7	229	3000	4	12	Deteriora tion	CSF leak; acute UR	Paralysis; UR	10.0	5.5	7.0	7.5	-35.7
4	43/F	90	C: CSM & CSR T: OPLL & OLF	ODL: C3-C7	Lam: T1-T3	180	600	3	6	Improve ment			11.5	14.0	15.5	16.0	81.8
5*	33/M	36 (78)	C: CSM T: Disc & OLF	ODL: C3-C7	Lam: T1-T2	122	700	4	8	Improve ment		Reoperation	12.5	14.5	16.5	14.0 (17.0)	33.3 (100.0)
6	56/F	77	C: CSM T: OLF	ODL: C3-C7	Lam: T2-T3	111	400	5	8	Improve ment			12.0	13.0	14.5	14.5	50.0
7	57/F	76	C: CSM & CSR T: OPLL & OLF	ODL: C3-C7	Lam,; T1-T4	276	2500	4	37	Deteriora tion	CSF leak; Lung infection	Pseudomening ocele	8.0	8.0	15.0	15.0	77.8
8*	39/F	13 (74)	C: CSM T: OPLL & OLF	ODL: C3-C7	LPF: T1-T3	196	1000	4	7	Improve ment	CSF leak	Reoperation	8.0	10.0	--	9.5 (16.0)	16.7 (85.7)
9	51/M	63	C: CSM T: OPLL & OLF	ODL: C3-C7	Lam: T1-T3	417	600	6	9	Improve ment	CSF leak; New radiculopathy	Hand dysfunction	9.0	12.0	15.5	15.0	75.0
10	66/F	56	C: CSM T: OPLL & OLF	ODL: C4-C7	LPF: T1-T5 CD: T2/3	348	3500	6	15	Deteriora tion	CSF leak		5.0	5.0	12.0	11.5	54.2
11	62/F	55	C: CSM T: OPLL	ODL: C3-C7	LPF: T1-T4	197	1000	5	7	Improve ment	New radiculopathy		10.0	14.0	16.5	15.5	78.6
12	50/M	53	C: CSM & CSR T: OPLL & OLF	ODL: C2-C7	LPF: T1-T4 CD: T2/3	350	3000	9	19	Deteriora tion	CSF leak; acute UR		12.5	14.0	17.0	17.0	100.0
13*	69/M	9 (46)	C: CSM T: OPLL & OLF	ODL: C3-C7	Lam: T1-T2	231	650	4	9	Improve ment	CSF leak; PTE	Reoperation	11.5	13.0	--	14.0 (14.5)	45.5 (54.5)
14	43/F	44	C: CSM T: OPLL	LLF: C6-C7	LPF: T1-T6 CD: T1/2-T2/3	349	3500	5	11	Deteriora tion	CSF leak		11.0	9.0	14.0	14.0	50.0
15	46/F	37	C: CSM T: OPLL	ODL: C3-C7	LPF: T1-T4 CD: T2/3	294	3000	5	13	Deteriora tion	CSF leak		7.0	10.0	16.5	16.0	90.0
16	49/F	36	C: CSM T: OPLL & OLF	LLF: C6-C7	LPF: T1-T4	251	1000	3	8	Improve ment			8.5	13.0	15.5	15.0	76.5

\*Subjects who received another thoracic decompression and for whom the above records referred to the data before their second surgeries and numbers in red referred to data after the reoperation.

C stands for cervical spine; T, thoracic spine; CSM/R, cervical spondylotic myelopathy/radiculopathy; OPLL, ossification of posterior longitudinal ligament; OLF, ossification of ligamentum flavum; ODL, left open-door laminoplasty; LLF, laminectomy with lateral-mass fusion; Lam, laminectomy; LPF; Laminectomy with pedicle-screw fusion; UR, urinary retention; PTE, pulmonary thromboembolism.