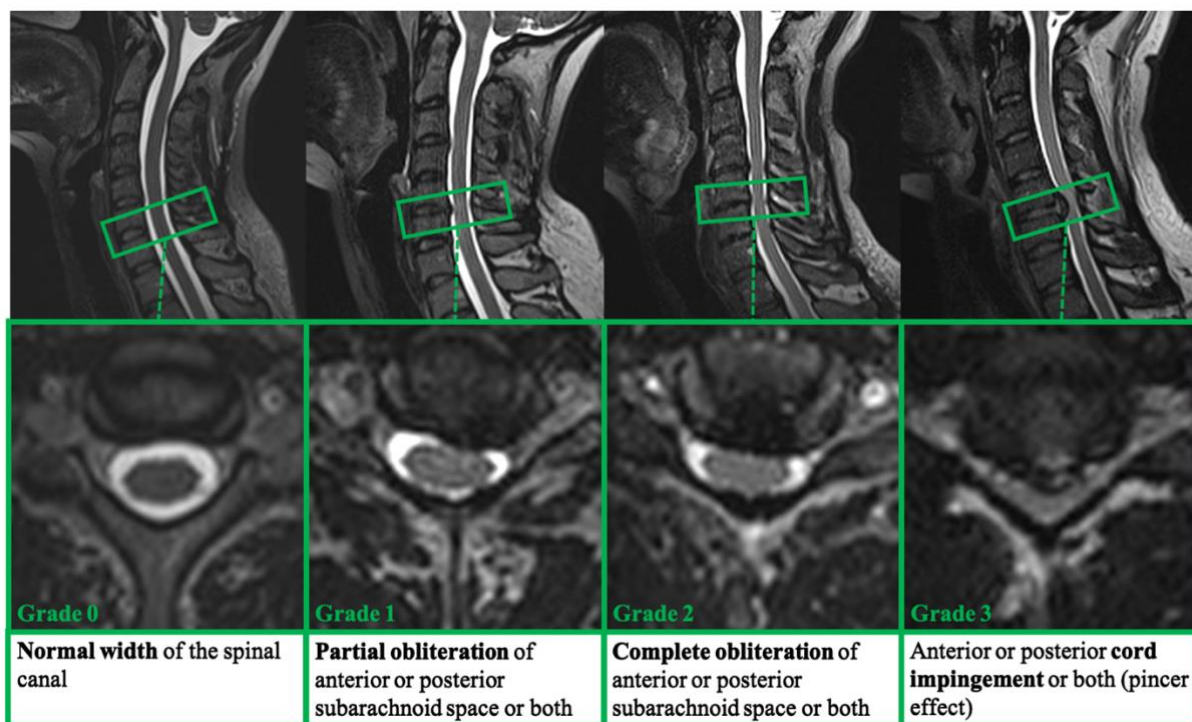




Appendix 1 – T2-SPACE images (1-mm isotropic resolution) in sagittal and transverse planes used for grading of spinal canal stenosis (from 0 to 3).

Patient ID	Age (years)	mJOA (/17)	DCM type	Onset	Discal spinal canal stenosis					OSS (/15)	Hyper T2	Mean T1 SC ± SD (ms)
					C2-C3	C3-C4	C4-C5	C5-C6	C6-C7			
HC1	66	17			0	1	1	0	0	2	0	963±11
HC2	62	17			0	0	0	1	2	3	0	900±14
HC3	58	17			0	0	0	0	0	0	0	913±24
HC4	57	17			0	1	0	0	0	1	0	897±13
HC5	64	17			0	0	2	0	1	3	0	909±30
HC6	32	17			0	0	0	0	0	0	0	919±16
HC7	22	17			0	0	0	0	0	0	0	891±15
HC8	26	17			0	0	0	0	0	0	0	921±9
HC9	34	17			0	0	0	0	0	0	0	934±9
HC10	30	17			0	0	1	0	0	1	0	954±9
M1	71	16	SPL	Chronic	1	3	3	3	3	13	0	928±30
M2	28	16	SPL	Acute	0	0	0	3	2	5	0	956±9
M3	42	17	SPL	Acute	0	1	2	3	2	8	0	938±14
M4	25	16	SPL	Chronic	1	3	2	2	1	9	1	1002±18
M5	39	16	DDD	Chronic	0	0	0	3	0	3	0	907±7
M6	47	16	DDD	Chronic	0	1	1	3	1	6	0	921±15
M7	37	17	DDD	Chronic	0	1	0	2	0	3	0	911±14
M&S1	71	9	SPL	Chronic	1	3	0	3	3	10	1	990±19
M&S2	53	14	SPL	Chronic	0	1	3	1	1	6	1	1009±54
M&S3	37	13	SPL	Chronic	0	0	3	3	3	9	1	1005±29
M&S4	43	14	SPL	Chronic	1	0	3	2	2	8	0	936±27
M&S5	70	13	SPL	Chronic	1	2	3	3	3	12	0	970±20
M&S6	66	11	SPL	Acute	0	1	3	2	2	8	0	1002±22
M&S7	37	10	DDD	Chronic	0	0	3	1	0	4	1	931±17
M&S8	47	13	SPL	Acute	1	2	0	3	3	9	1	1012±29
M&S9	30	14	DDD	Chronic	1	1	1	3	1	7	1	936±17
M&S10	58	14	SPL	Acute	0	1	1	2	1	5	0	922±12
M&S11	55	11	SPL	Acute	0	1	3	3	1	8	1	1023±80
M&S12	72	13	SPL	Chronic	0	0	3	3	1	7	1	1043±49
M&S13	63	14	SPL	Chronic	0	3	3	3	3	12	1	986±47

Appendix 2 – Clinical and radiological features of the healthy control group (HC1-10), mild DCM group (M1-7) and moderate-to-severe group (M&S1-13): age, mJOA score, degenerative cervical myelopathy type (DDD: degenerative disc disease; SPL: spondylosis), acute or chronic clinical onset, spinal canal stenosis grading at the different disc levels (with compressed levels colored in yellow and level of maximal compression in red), as well as overall stenosis score (OSS). This latter result was obtained by adding stenosis scores from C2-C3 to C6-C7 for each

patient, defining mild (green, score ≤ 6), moderate (orange, score between 7 and 9) and severe (red, score ≥ 10) total stenosis. The last two columns correspond to the presence of a T2 hyperintensity at the level of maximal compression and to the global spinal cord (SC) T1 value, obtained by calculating the mean of the T1 values from C1 to C7 for each subject.