

Neuromuscular changes in the colon in spina bifida and spinal cord injury: a nationwide histology study

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Suppl. Table 1 Overview of the main conclusions. Differences compared with the control group are represented as no difference (=), decrease/increase (↓/↑), or significant decrease/increase (↓↓/↑↑)

	SB		SCI	
	symptomatic	asymptomatic	symptomatic	asymptomatic
Submucosal plexus				
Total neurons (HuC/D)	=	=	=	↓
Calretinin positive neurons	↓↓	↓↓	↓↓	↓
Nerve fibres	=	↓	↓	=
Myenteric plexus				
Total neurons (HuC/D)	↓	↓	↓↓	↓↓
Calretinin positive neurons	=	↓	=	=
Nerve fibres	↓↓	↓	↓↓	↓
ICC network	↓	↓	↓↓	↓
Circular muscle				
α-SMA	↓	=	=	=
Desmin	=	=	=	=
Fibrosis	=	=	=	=
Nerve fibres	↓↓	=	=	=
Longitudinal muscle				
α-SMA	↓	=	=	=
Desmin	=	=	=	=
Fibrosis	↑↑	↑↑	↑↑	↑↑
Nerve fibres	=	=	=	=

α-SMA, α-smooth muscle actin; ICC, interstitial cell of Cajal; SB, spina bifida; SCI, spinal cord injury

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Suppl. Table 2 Semiquantitative evaluation of immunohistochemical markers in the different layers of colonic muscularis propria in controls and in patients with spina bifida (SB) or spinal cord injury (SCI). Expression of α -SMA is more often lower in the circular and longitudinal muscle layer of the symptomatic SB group (not significant). In the circular layer, lower nerve fibre densities (S100) are most frequently found in the symptomatic SB group

Antibody	Score	Control	SB				SCI			
		n (%)	symptomatic		asymptomatic		symptomatic		asymptomatic	
			n (%)	p-value	n (%)	p-value	n (%)	p-value	n (%)	p-value
α -SMA CL	0	1 (6.2%)	3 (42.9%)	.067	0 (0%)	1.000	21 (100%)	.432	12 (100%)	1.000
	1	15 (93.8%)	4 (57.1%)		6 (100%)					
α -SMA LL	0		2 (28.6%)	.083	0 (0%)	6 (100%)	21 (100%)		123 (100%)	
	1	16 (100%)	5 (71.4%)		6 (100%)					
desmin CL	0						17 (100%)		13 (100%)	
	1	16 (100%)	7 (100%)		5 (100%)					
desmin LL	0		0 (0%)		1 (20.0%)	.238	0 (0%)		1 (7.7%)	.448
	1	16 (100%)	7 (100%)		4 (80.0%)		17 (100%)		12 (92.3%)	
S100 CL	0		3 (42.9%)	.020*	0 (0%)	6 (100%)	2 (9.5%)	.495	1 (7.7%)	.448
	1	16 (100%)	4 (57.1%)		6 (100%)		19 (90.5%)		12 (92.3%)	
S100 LL	0	15 (93.8%)	5 (71.4%)	.526	6 (100%)	1.000	17 (81.0%)	.364	11 (84.6%)	.573
	1	1 (6.2%)	2 (28.6%)		0 (0%)		4 (19.0%)		2 (15.4%)	

α -SMA, α -smooth muscle actin; CL, circular layer; LL, longitudinal layer; SB, spina bifida; SCI, spinal cord injury. * $p < 0.05$ vs control