

Supplementary Material

Altered circulating immune cell distribution in traumatic spinal cord injury patients in relation to clinical parameters

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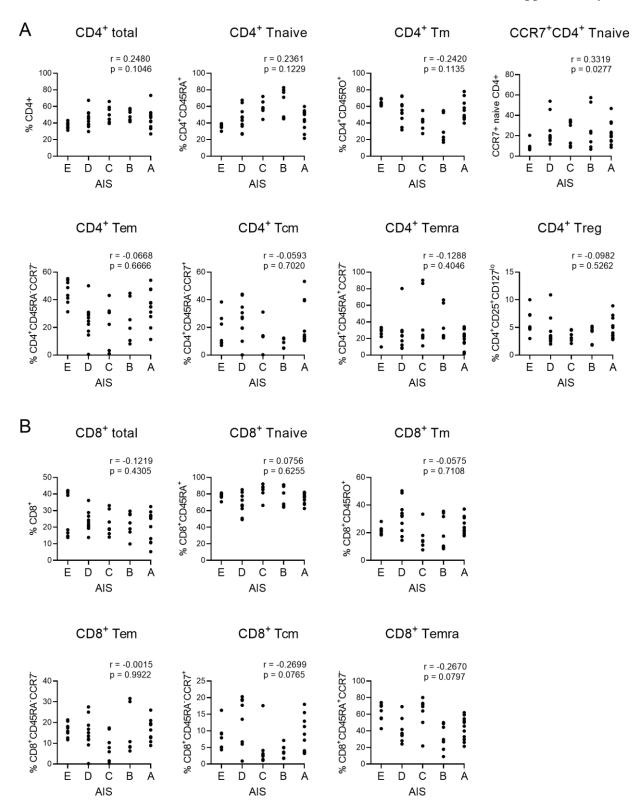
			AIS score					
Subject	Age	Gender	t0	Later time points	Location injury	Aetiology	Surgery	Included time points
SCI-01	61	М	С	C at 3m	Cervical	Fall	Laminectomy	t3
SCI-02	56	М	С	C at 3w	Thoracic	Motor vehicle accident	Fixation (2x)	t3, t4
SCI-03	64	F	В	n.a.	Cervical	Fall	ACDF	t0
SCI-04	56	М	D	E at 1d	Cervical	Fall	Laminectomy	t0, t1, t2, t3, t4
SCI-05	64	М	Α	A at 7m	Thoracic	Fall	Fixation	t0, t1
SCI-06	48	М	В	n.a.	Cervical	Motor vehicle accident	Halo-gravity traction, spondylodesis	t0, t1, t2
SCI-07	58	F	А	A at 4m	Thoracic	Fall	Fixation	t2
SCI-08	62	М	А	C at 12w	Cervical	Fall	Luxation, fusion, laminectomy	t0, t1, t2, t3
SCI-09	73	М	А	n.a.	Thoracic	Fall	Spondylodesis	t0
SCI-10	48	М	D	D at 3m	Cervical	Motor vehicle accident	Spondylodesis, ACDF	t2
SCI-11	58	М	А	A at 9m	Lumbar	Fall	Spondylodesis	t5
SCI-12	18	М	В	B at 12m	Cervical	Sports accident	Fixation, spondylodesis	t2, t3, t4, t5
SCI-13	67	М	D	D at 6m	Cervical	Fall	/	t1, t2, t4
SCI-14	61	М	D	D at 6m	Cervical	Fall	Laminectomy, spondylodesis	t3, t4, t5
SCI-15	68	М	D	E at 5d	Cervical	Sports accident	Fusion, laminectomy	t0, t1, t2, t3, t4
SCI-16	28	М	А	A at 4m	Thoracic	Gunshot	Laminectomy	t0, t1, t2, t3
SCI-17	54	М	С	D at 15m	Cervical	Sports accident	ACIF decompression	t0, t1, t3
SCI-18	60	М	D	E at 24m	Cervical	Fall	Fusion	t3, t4

Supplementary Table 1. Detailed information on SCI patients

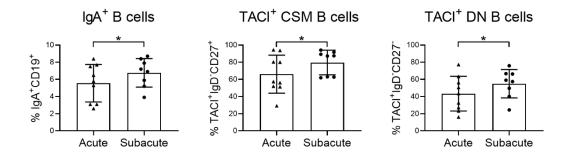
Abbreviations: ACDF, anterior cervical discectomy and fusion; ACIF, anterior cervical interbody fusion; F, female; M, male; n.a. not available; d, days; m, months; w, weeks

Marker	Fluorochrome	Clone	Company
CD19	BV421	HIB19	BioLegend
CD24	BV605	ML5	BioLegend
CD27	APC	M-T271	BioLegend
CD38	BV711	HIT2	BioLegend
CD74	PE	LN2	BioLegend
CD267	PE-Dazzle594	1A1	BioLegend
CD268	APC-Cy7	11C1	BioLegend
CD269	PerCP-Cy5.5	19F2	BioLegend
IgD	PE-Cy7	IA6-2	BioLegend
IgM	BV650	MHM-88	BioLegend
IgG	AF700	G18-145	BD Biosciences
IgA	FITC	IS11-8E10	Miltenyi Biotec
Fixable viability dye (FVD)	eFluor506	/	eBioscience

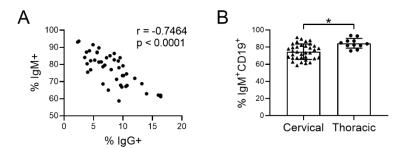
Supplementary	Table 2.	. Monoclonal	antibodies	used for flo	ow cvtometry



Supplementary Figure 1. Correlations of T cell subsets and disease severity. Correlation of the percentages of CD4⁺ (A) and CD8⁺ (B) total, Tnaive, Tm, Tem, Tcm, Temra and Treg with AIS score at sampling timepoint. r denotes the Spearman correlation coefficient (rho).



Supplementary Figure 2. Frequency of specific B cell subsets in the peripheral blood of acute and subacute SCI patients. Percentages of IgA⁺ total B cells, TACI⁺ CSM B cells and TACI⁺ DN B cells are shown within the B cell population of acute SCI patients (n = 9) and subacute SCI patients (n = 8). Mean (bars) \pm SD is depicted. * p < 0.05



Supplementary Figure 3. IgM⁺ B cells in correlation with IgG⁺ B cells and in cervical and thoracic SCI patients. (A) Correlation of IgM⁺ B cell percentages and IgG⁺ B cell percentages. r denotes the Spearman correlation coefficient (rho). (B) Percentages of IgM⁺ total B cells are shown within the B cell population of SCI patients with a cervical (n = 12) or thoracic (n = 6) injury, including 35 cervical and 11 thoracic samples collected at different (s)aSCI and cSCI time points. Mean (bars) \pm SD is depicted. * p < 0.05