

Supplementary Table 1: Parameters for MAP assays for plasma cytokines and their soluble receptors

Variable	Intra-assay CVs	Inter-assay CVs	MDL (pg/ml)
IL-1beta (pg/ml)	2.8%	4.7%	0.2
IL-1RA(ng/ml)	1.9%	8.8%	19.2
IL-6 (pg/ml)	2.2%	8.3%	0.2
sIL-6r (ng/ml)	1.9%	8.1%	19.8
IL-10 (pg/ml)	2.4%	5.0%	0.1
TNF alpha (pg/ml)	2.5%	7.6%	0.5
sTNFR2 (ng/ml)	3.6%	8.8%	5.9
MCP-1 (pg/ml)	2.3%	5.4%	3.6

CV - coefficients of variation; MAP - multi-analyte profiling; MDL - method detection limit; IL-1 beta: interleukin 1 beta; IL-1RA: interleukin 1 receptor antagonist; IL-6: interleukin 6; sIL-6R: soluble interleukin 6 receptor; IL-10: interleukin 10; TNF alpha: tumor necrosis factor alpha; sTNFR2: soluble tumor necrosis factor receptor 2; MCP-1: monocyte chemoattractant protein 1

Supplementary Table 2: Correlations between Inflammatory Markers

	hsCRP	IL-1beta	IL-1RA	IL-6	sIL-6r	IL-10	TNF alpha	sTNFR2	MCP-1
hsCRP	xxx	0.120	0.532**	0.527**	0.295**	0.070	0.323**	0.391**	0.174
IL-1beta		xxx	0.251*	-0.031	-0.052	0.229*	0.275**	0.176	0.348**
IL-1RA			xxx	0.351**	0.180	0.023	0.378**	0.409**	0.253*
IL-6				xxx	0.311**	0.072	0.243*	0.310**	-0.009
sIL-6r					xxx	0.071	0.289**	0.314**	-0.001
IL-10						xxx	0.266*	0.107	0.065
TNF alpha							xxx	0.600**	0.225*
sTNFR2								xxx	0.250*
MCP-1									xxx

hsCRP: high sensitivity C-reactive protein; IL-1 beta: interleukin 1 beta; IL-1RA: interleukin 1 receptor antagonist; IL-6: interleukin 6; sIL-6R: soluble interleukin 6 receptor; IL-10: interleukin 10; TNF alpha: tumor necrosis factor alpha; sTNFR2: soluble tumor necrosis factor receptor 2; MCP-1: monocyte chemoattractant protein 1. All correlations are between the natural log of the indicated immune markers; *p<0.05; **p<0.01.

Supplementary Table 3: Correlations between Inflammatory Markers and Neurocognitive Tasks

	SMT	CMT	SRT	CRT	FTT	DSST	Trails	Factor Score
hsCRP	0.148	0.077	0.156	0.109	-0.111	-0.194	0.112	0.173
IL-1beta	0.067	-0.008	0.039	0.016	-0.140	-0.132	0.037	0.040
IL-1RA	0.078	-0.028	0.090	0.096	-0.105	-0.087	0.083	0.100
IL-6	0.254*	0.235*	0.328**	0.248*	-0.169	-0.151	0.168	0.342**
sIL-6r	0.106	-0.035	0.022	-0.089	0.129	-0.070	-0.009	-0.050
IL-10	-0.075	-0.243*	0.004	-0.077	0.115	0.210*	-0.068	-0.184
TNF alpha	-0.079	-0.038	-0.001	-0.036	-0.022	-0.148	0.062	0.023
sTNFR2	0.028	0.138	0.175	0.181	0.051	-0.090	0.161	0.132
MCP-1	0.158	0.054	0.076	0.153	-0.255*	-0.285**	0.177	0.250*

SMT: Simple Choice Movement Time; CMT: Five Choice Movement Time; SRT: Simple Choice Reaction Time; CRT: Five Choice Reaction Time; FTT: Finger Tapping Task; DSST: Digit Symbol Substitution Task; Trails: Trails A; Factor Score: Principle Component Analysis Factor Score; hsCRP: high sensitivity C-reactive protein; IL-1 beta: interleukin 1 beta; IL-1RA: interleukin 1 receptor antagonist; IL-6: interleukin 6; sIL-6R: soluble interleukin 6 receptor; IL-10: interleukin 10; TNF alpha: tumor necrosis factor alpha; sTNFR2: soluble tumor necrosis factor receptor 2; MCP-1: monocyte chemoattractant protein 1. All correlations are between the natural log (Log) of the indicated immune markers and the psychomotor tasks, except for the Factor Score, which was calculated from the log of the individual psychomotor tasks; *p<0.05; **p<0.01; shaded boxes denote significant relationships in linear regression analyses.

Supplementary Table 4: Correlations between Inflammatory Markers and Neurocognitive Tasks in Females and Males

	Females			Males		
	CMT	SRT	FTT	CMT	SRT	FTT
hsCRP	0.168	0.171	-0.011	-0.208	-0.049	-0.329
IL-1beta	0.228	0.042	-0.058	-0.283	0.151	-0.494**
IL-1RA	0.056	-0.003	0.072	-0.366	0.153	-0.511**
IL-6	0.222	0.315*	-0.156	0.041	0.043	0.089
sIL-6r	0.006	0.045	0.116	-0.040	0.060	0.097
IL-10	-0.236	-0.041	0.147	-0.117	0.437*	-0.169
TNF alpha	0.029	-0.064	0.042	-0.152	0.362	-0.310
sTNFR2	0.137	0.066	0.124	0.123	0.466*	-0.110
MCP-1	0.113	0.079	-0.242	0.097	0.275	-0.495**

CMT: Five Choice Movement Time; SRT: Simple Choice Reaction Time; FTT: Finger Tapping Task; hsCRP: high sensitivity C-reactive protein; IL-1 beta: interleukin 1 beta; IL-1RA: interleukin 1 receptor antagonist; IL-6: interleukin 6; sIL-6R: soluble interleukin 6 receptor; IL-10: interleukin 10; TNF alpha: tumor necrosis factor alpha; sTNFR2: soluble tumor necrosis factor receptor 2; MCP-1: monocyte chemoattractant protein 1. All correlations are between the natural log (Ln) of the indicated immune markers and the psychomotor tasks; *p<0.05; **p<0.01; shaded boxes denote significant relationships in linear regression analyses.