

Immunological sub-phenotypes and response to Convalescent Plasma in COVID-19 induced ARDS : a secondary analysis of the CONFIDENT trial.

Intensive Care Medicine

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ESM_1: Blood levels (median [IQR]) of the 21 biomarkers as per sub-phenotype (log10-transformed)

Signature	Biomarkers	Subphenotype 1	Subphenotype 2	Subphenotype 3	Subphenotype 4	p-value
		(n=89)	(n=178)	(n=38)	(n=86)	
A	ICAM-1	5.16 [4.99 - 5.37]	5.21 [5.09 - 5.46]	5.41 [5.17 - 5.61]	5.46 [5.29 - 5.6]	<0.001
	E-selectin	4.36 [4.08 - 4.51]	4.43 [4.26 - 4.60]	4.65 [4.52 - 4.78]	4.62 [4.44 - 4.75]	<0.001
	P-Selectin	5.03 [4.74 - 5.26]	5.30 [5.06 - 5.52]	5.62 [5.39 - 5.88]	5.32 [5.09 - 5.64]	<0.001
B	CRP	2.11 [1.87 - 2.30]	1.98 [1.73 - 2.22]	2.11 [1.99 - 2.30]	2.18 [1.94 - 2.31]	0.001
	CCL4	1.69 [1.54 - 1.95]	1.87 [1.63 - 2.08]	1.90 [1.73 - 2.16]	2.09 [1.88 - 2.31]	<0.001
	CXCL10	2.03 [1.67 - 2.36]	1.93 [1.45 - 2.27]	2.08 [1.73 - 2.51]	2.49 [2.26 - 2.65]	<0.001
	Platelet count	2.36 [2.26 - 2.47]	2.45 [2.32 - 2.56]	2.40 [2.32 - 2.49]	2.38 [2.22 - 2.47]	<0.001
	CCL2	2.01 [1.72 - 2.28]	2.35 [2.01 - 2.65]	2.59 [2.36 - 2.80]	2.89 [2.46 - 3.04]	<0.001
	Total IgG against SARS-CoV-2	1.27 [0.76 - 1.88]	2.76 [2.39 - 3.12]	2.64 [2.33 - 3.07]	1.70 [0.71 - 2.79]	<0.001
C	IFN- γ	1.00 [1.00 - 1.11]	1.00 [1.01 - 1.14]	2.02 [1.78 - 2.46]	1.44 [1.00 - 1.69]	<0.001
	IL-4	1.21 [1.13 - 1.30]	1.24 [1.13 - 1.39]	1.84 [1.54 - 2.18]	1.38 [1.18 - 1.48]	<0.001
	TNF- α	1.15 [1.01 - 1.23]	1.17 [0.96 - 1.35]	1.97 [1.56 - 2.65]	1.37 [1.18 - 1.59]	<0.001
	GM-CSF	1.11 [1.11 - 1.11]	1.11 [1.11 - 1.11]	1.11 [1.11 - 1.44]	1.11 [1.11 - 1.11]	<0.001
	IL-12p70	0.91 [0.91 - 1.13]	0.91 [0.91 - 1.56]	2.54 [2.18 - 2.77]	1.79 [1.08 - 2.18]	<0.001
	CXCL8	0.74 [0.40 - 1.04]	1.02 [0.62 - 1.29]	1.31 [1.16 - 1.54]	1.52 [1.29 - 1.66]	<0.001

	IL-6	1.01 [1.01 - 1.01]	1.01 [1.01 - 1.76]	2.16 [1.65 - 2.65]	2.27 [1.99 - 2.64]	<0.001
D	IL-17A	0.47 [0.47 - 0.63]	0.47 [0.47 - 0.87]	1.77 [1.28 - 2.13]	0.97 [0.47 - 1.35]	<0.001
	IL-13	0.54 [0.54 - 0.54]	0.54 [0.54 - 0.64]	1.63 [1.39 - 2.04]	0.81 [0.54 - 1.14]	<0.001
	IL-1- β	0.21 [0.21 - 0.21]	0.21 [0.21 - 0.21]	2.11 [1.80 - 2.57]	1.24 [0.83 - 1.62]	<0.001
	IFN- α	-0.09 [-0.09 - -0.09]	-0.09 [-0.09 - -0.05]	1.41 [1.01 - 1.65]	0.37 [-0.09 - 0.70]	<0.001
	IL-1- α	0.30 [0.09 - 0.51]	0.29 [0.05 - 0.57]	0.45 [0.14 - 0.57]	0.61 [0.42 - 0.78]	<0.001
	CCL3	0.37 [0.37 - 0.60]	0.62 [0.37 - 0.99]	0.53 [0.37 - 0.92]	0.95 [0.77 - 1.31]	<0.001
	IL-10	0.44 [0.22 - 0.95]	0.31 [0.22 - 0.71]	0.88 [0.62 - 1.58]	0.93 [0.52 - 1.24]	<0.001