

Differential immunological profiles herald MRI-defined perioperative cerebral infarction

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Supplementary Table 1: Summary of longitudinal regression parameters

Supplementary Figure 1: Best-fit polynomial curves generated by smoothing model

Supplementary Table 1: Summary of longitudinal regression parameters. * $P < 0.05$; ** $P < 0.001$.

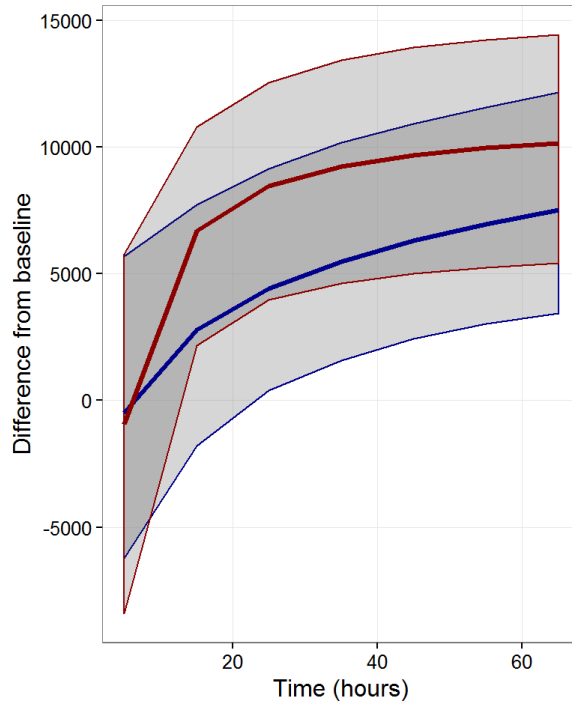
Analyte	Stroke		Time		Constant (intercept)	
	Mean	95% CI	Mean	95% CI	Mean	95% CI
Routine Laboratory Tests						
WBC	1.19	-0.47, 2.85	-0.12	-0.29, 0.05	2.36**	1.00, 3.74
Neutrophils	0.71	-1.17, 2.55	-0.19*	-0.37, -0.0001	2.85**	1.34, 4.38
Lymphocytes	0.12	-0.24, 0.47	0.06**	0.02, 0.09	-0.56**	-0.85, -0.26
Monocytes	0.03	-0.13, 0.2	0.03**	0.01, 0.06	0.09	-0.06, 0.23
Creatinine	3.64	-13.26, 20.64	-0.5	-1.74, 0.77	-2.05	-15.16, 11.08
Haemoglobin	-0.5	-10.15, 9.17	-1.18**	-1.68, -0.68	-12.27**	-19.42, -5.11
Platelets	-2.01	-25.41, 21.38	-2.61**	-3.86, -1.36	-33.60**	-51.32, -15.85
Complement Cascade Components						
C2	-1284.83	-6042.71, 3452.13	113.74	-281.01, 549.6	1878.78	-1864.52, 5662.34
C4b	-552.74	-1721.78, 599.43	8.42	-121.65, 140.75	638.36	-353.78, 1632.15
C5	-25175.41	-63137.31, 12433.22	276.21	-3294.52, 3644.21	-11651.34	-41888.09, 18559.68
C5a	948.93	-578.43, 2470.03	-18.45	-166.37, 133.42	-38.84	-1286.72, 1212.08
C9	64.97	-277, 406.95	52.28	-8.07, 112.64	-169.03	-539.64, 201.57
Factor D	8.9	-6.16, 23.30	-0.5	-2.91, 2.32	-7.22	-23.33, 8.17
MBL	-31.03	-2294.5, 2229.89	99.35	-82.3, 279.47	-582.71	-2348.17, 1183.11
C1q	1.33	-10.36, 12.8	0.94	-0.57, 2.52	-9.09	-19.83, 1.54
C3	21.79*	1.19, 42.24	2.03*	0.28, 3.9	-38.44**	-54.74, -21.98
C3b/iC3b	201.97	-251.51, 653.56	-36.36	-89.98, 18.03	148.61	-247.81, 545.04
C4	43.17	-76.68, 159.75	17.33*	0.28, 35.03	-133.86*	-248.67, -21.06

Factor B	20.87	2.87, 44.27	5.28*	2.05, 10.23	-38.37*	-70.37, -6.80
Factor H	16.28	-44.00, 75.61	2.74	-4.98, 10.87	-59.06*	-114.33, -4.21
Properdin	-1.93	-6.42, 2.54	0.04	-0.48, 0.58	-2.83	-6.75, 1.10
Cytokines / Chemokines						
EOTAXIN	-27.65	-56.51, 0.93	2.01	-2.0, 6.48	-37.17*	-65.66, -9.01
GM-CSF	-9.11	-20.04, 1.95	-0.93	-2.38, 0.56	3.84	-6.27, 13.95
IFNα2	-23.55	-55.14, 8.32	-2.75	-6.77, 1.38	11.63	-17.04, 40.28
IFNγ	-14.17*	-27.80, -0.57	-0.45	-1.01, 0.12	2.27	-7.6, 12.18
IL-10	9.12	-7.27, 25.38	-1.02	-3.55, 1.58	9.08	-7.26, 25.40
IL-12p40	-11.65	-25.77, 2.67	-1.45	-3.60, 0.75	6.54	-7.49, 20.53
IL-12p70	-4.85	-14.89, 5.19	-0.002	-0.25, 0.25	0.02	-7.14, 7.19
IL-13	-17.26	-44.34, 9.89	0.54	-1.96, 2.90	-2.92	-24.50, 18.52
IL-15	-1.74	-4.71, 1.25	-0.18	-0.49, 0.14	0.89	-1.62, 3.40
IL-17	-0.74	-1.73, 0.26	-0.07	-0.22, 0.09	0.32	-0.67, 1.31
IL-1α	21.73	-63.19, 107.11	0.81	-2.94, 4.74	-47.38	-109.52, 14.64
IL-1b	-1.54	-4.40, 1.34	-0.28	-0.65, 0.10	1.06	-1.42, 3.54
IL-2	-6.49	-15.34, 2.37	-0.45	-1.14, 0.28	1.66	-5.23, 8.58
IL-4	-12.74	-31.94, 6.04	-2.01	-5.33, 1.37	7.49	-13.18, 28.08
IL-5	-5.52	-14.86, 3.84	0.32	-0.43, 1.03	-1.55	-8.84, 5.70
IL-6	18.24	-21.03, 57.30	-2.07	-6.68, 2.63	29.95	-4.25, 64.15
IL-7	-6.02	-13.03, 0.99	-0.42	-0.99, 0.15	2.21	-3.28, 7.70
IL-8	4.62	-5.69, 14.90	0.28	-0.24, 0.82	-5.25	-12.82, 2.36
IP-10	-18.06	-263.97, 229.84	11.77	-4.17, 28.77	-135.04	-321.63, 51.41
MCP-1	41.50	-102.08, 183.29	19.52	0.18, 39.76	-183.31**	-316.52, -50.55
MIP-1α	-3.23	-6.47, 0.003	-0.27	-0.57, 0.02	1.16	-1.43, 3.76
MIP-1β	-10.60*	-20.67, -0.47	-0.93	-2.21, 0.34	4.69	-4.35, 13.73
TNFα	-2.49	-5.54, 0.25	-0.17	-0.64, 0.41	0.38	-3.26, 4.00
Other Inflammatory markers						

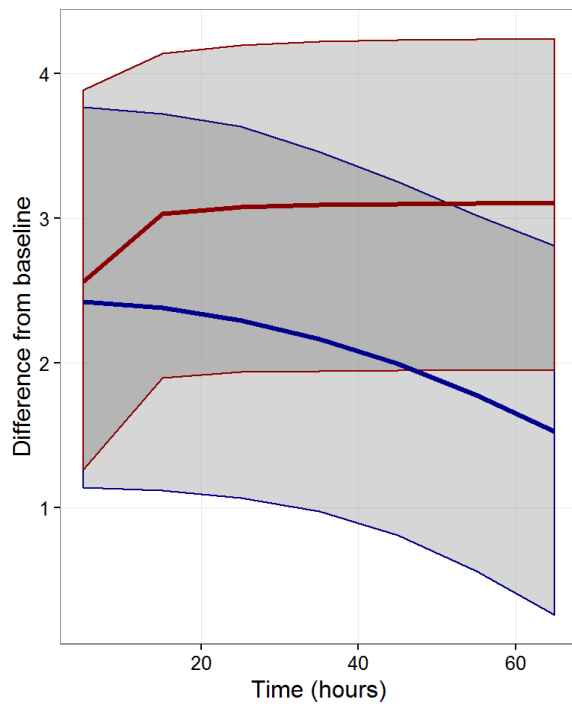
MMP9	63,842.96	28045.06, 111336.10	4205.66	-4527.31, 12059.52	-34555.77	-97806.44, 28959.57
hs-CRP	3450.97	-2131.64, 9044.96	598.24**	289.04, 906.20	2183.38	-2063.39, 6422.49

Supplementary Figure 1: Best-fit polynomial curves generated by smoothing model. Red represents cases, blue controls and grey 95% confidence interval.

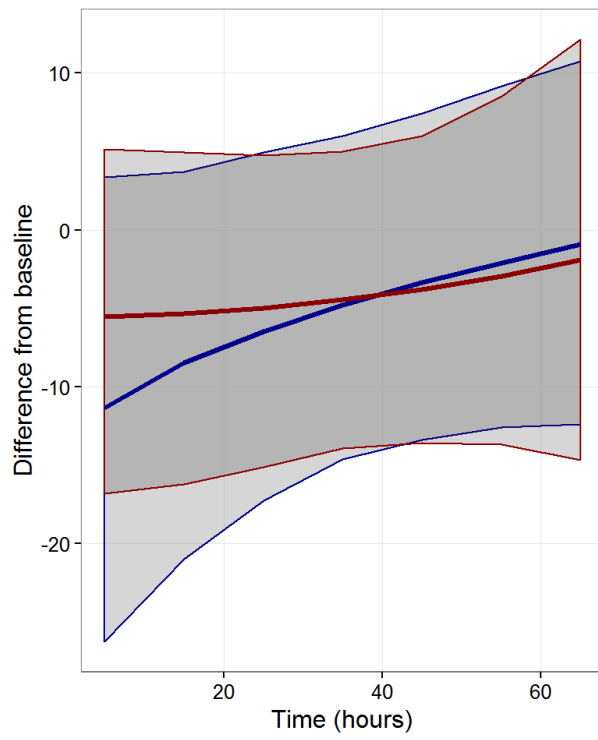
High-sensitivity CRP



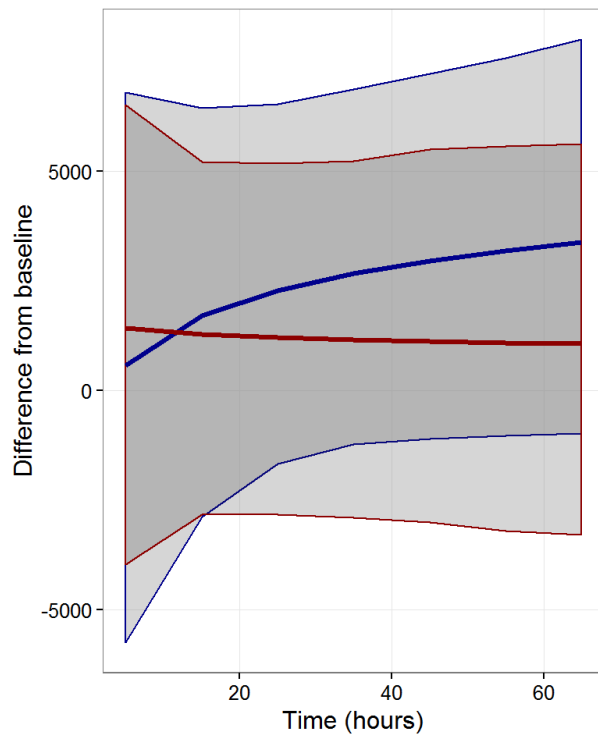
White cell count



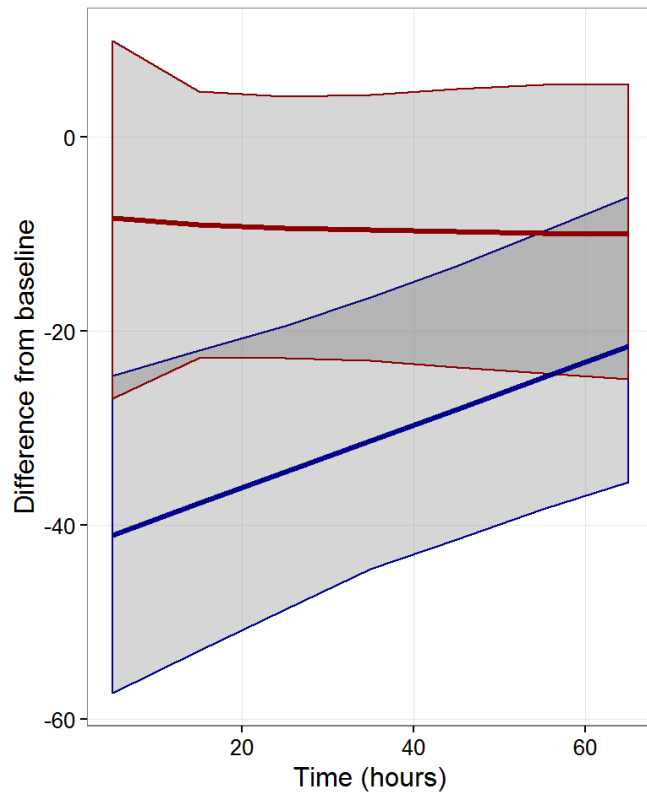
Complement C1q



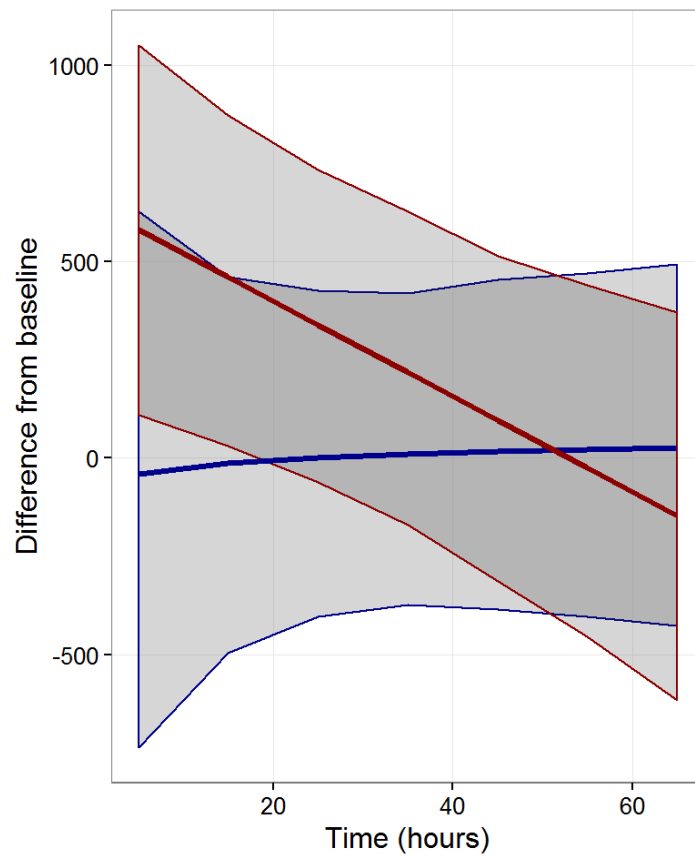
Complement C2



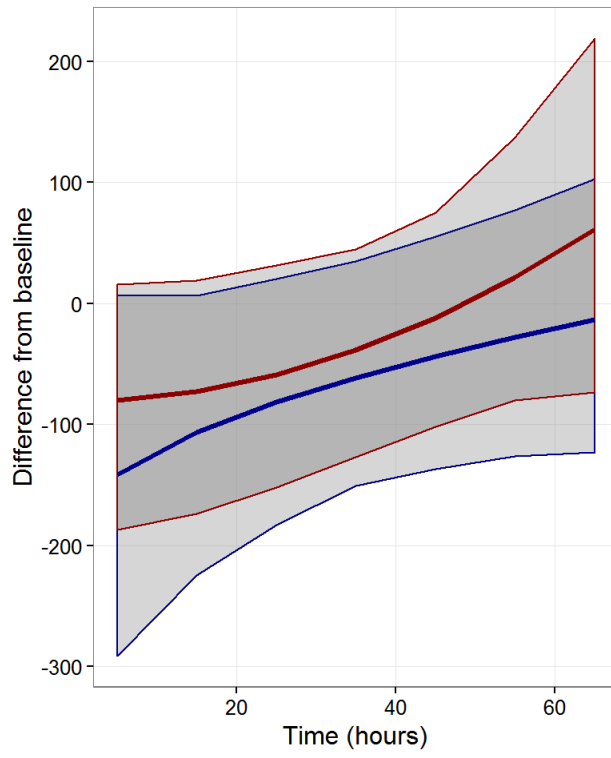
Complement C3



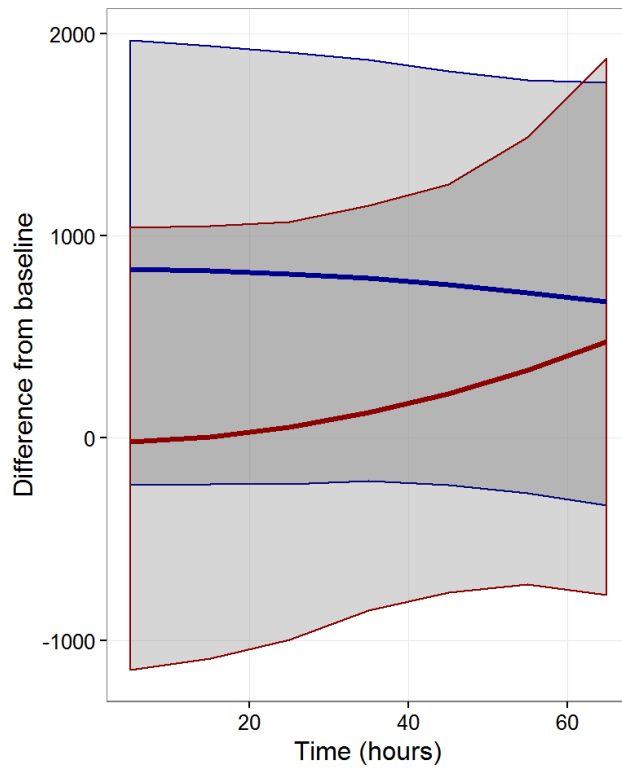
Complement C3b/iC3b



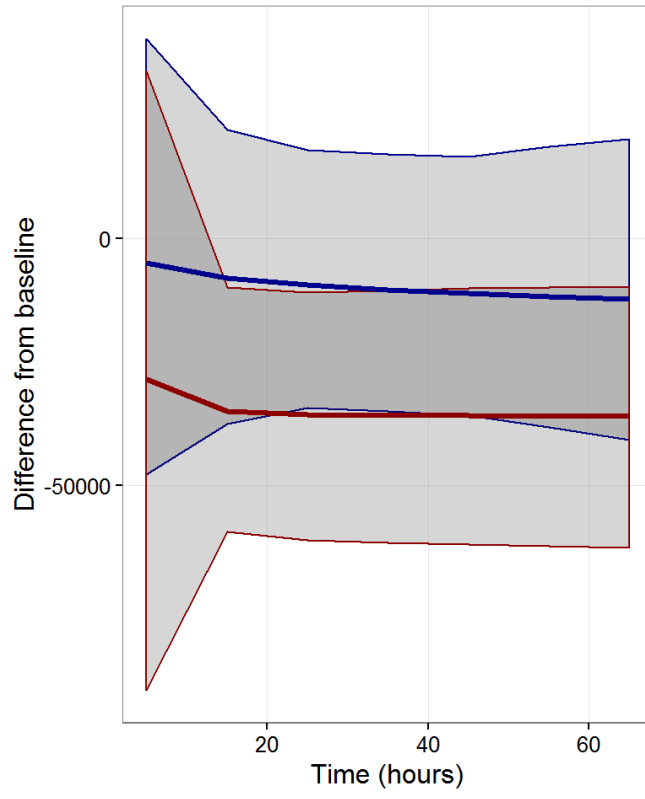
Complement C4



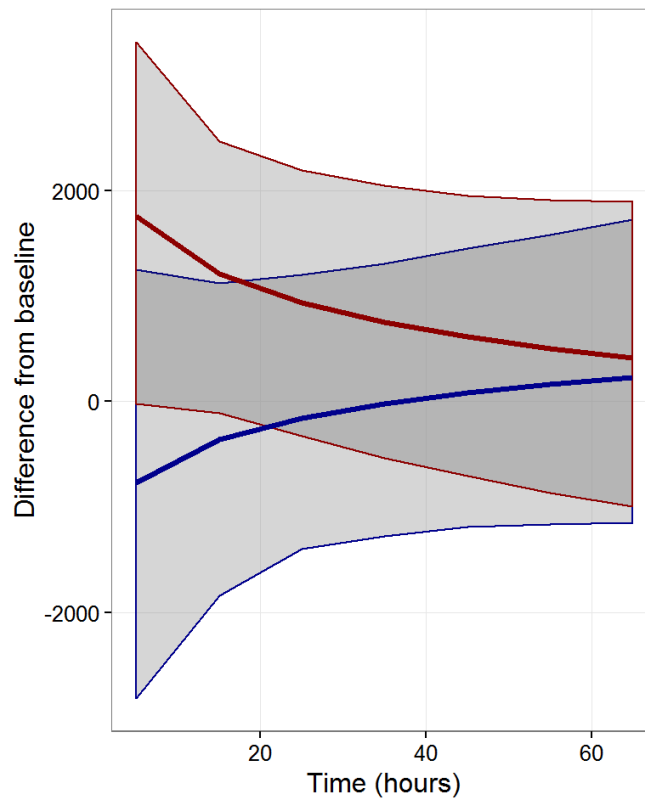
Complement C4b



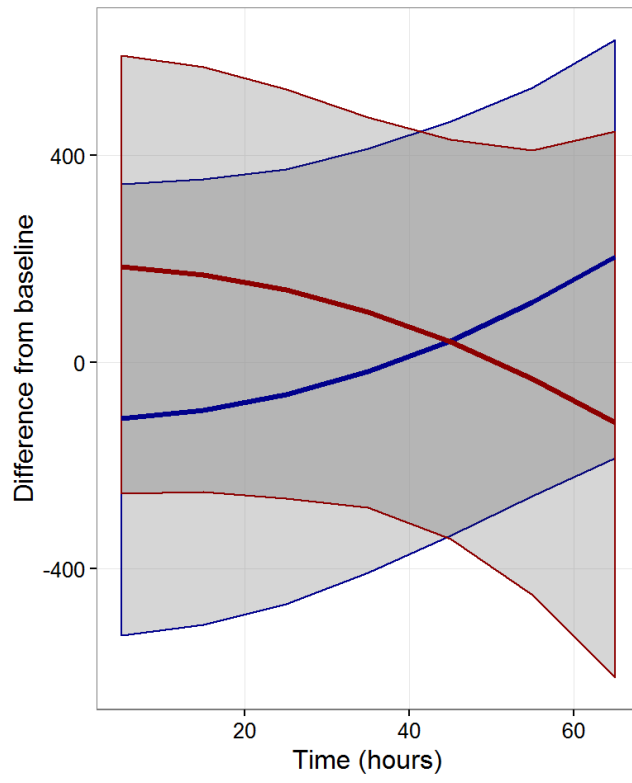
Complement C5



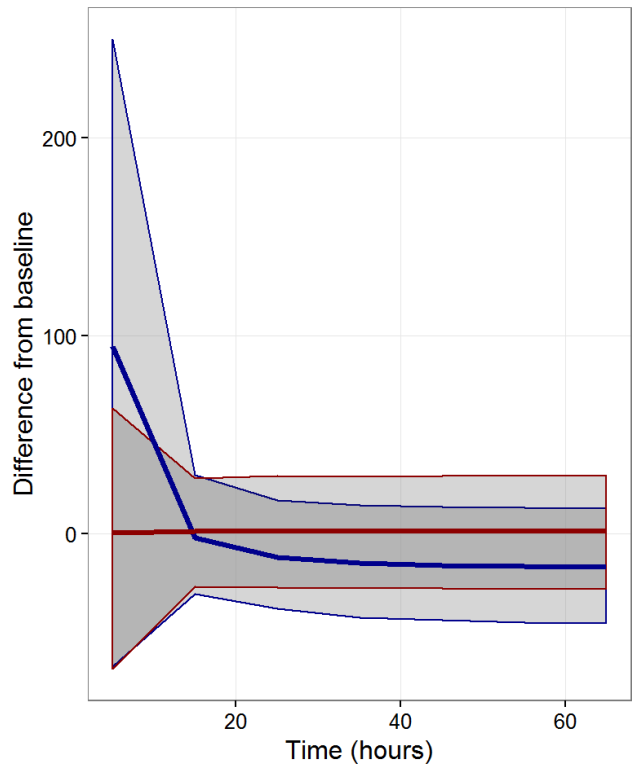
Complement C5a



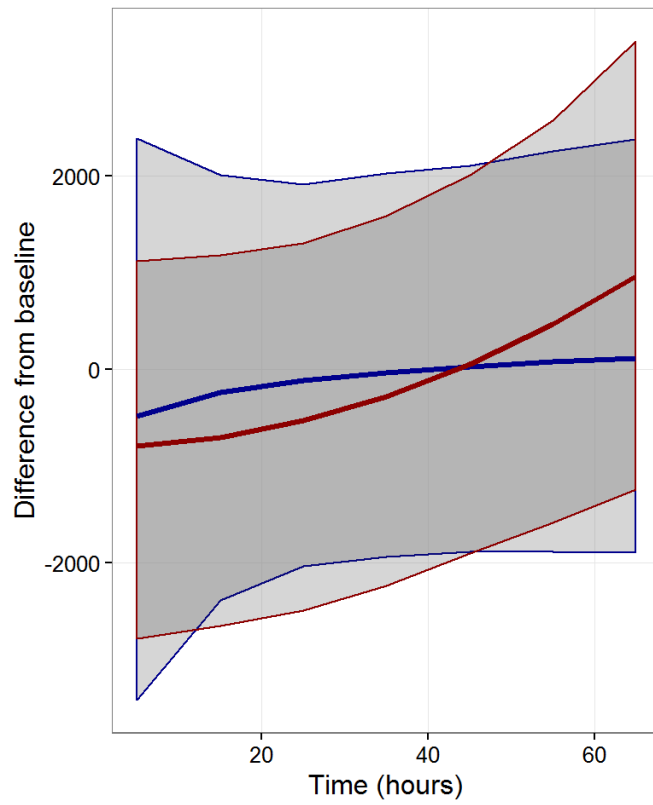
Complement C9



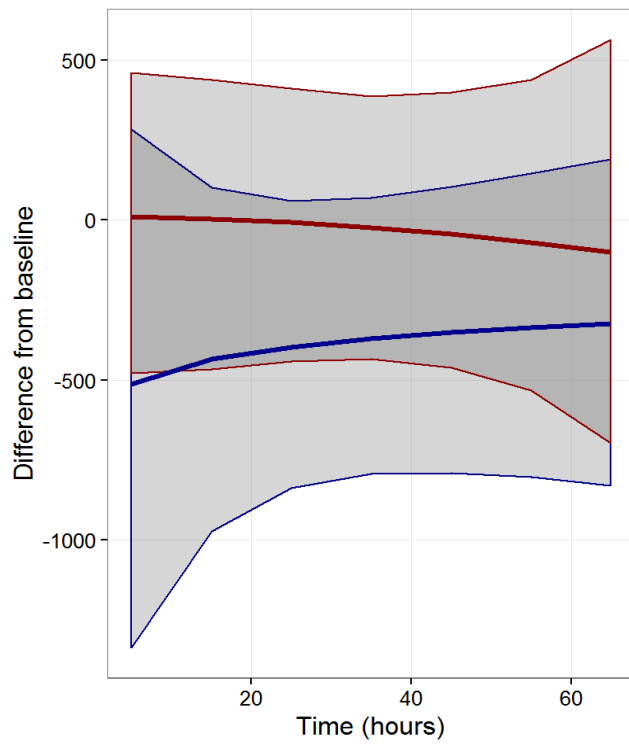
Factor D



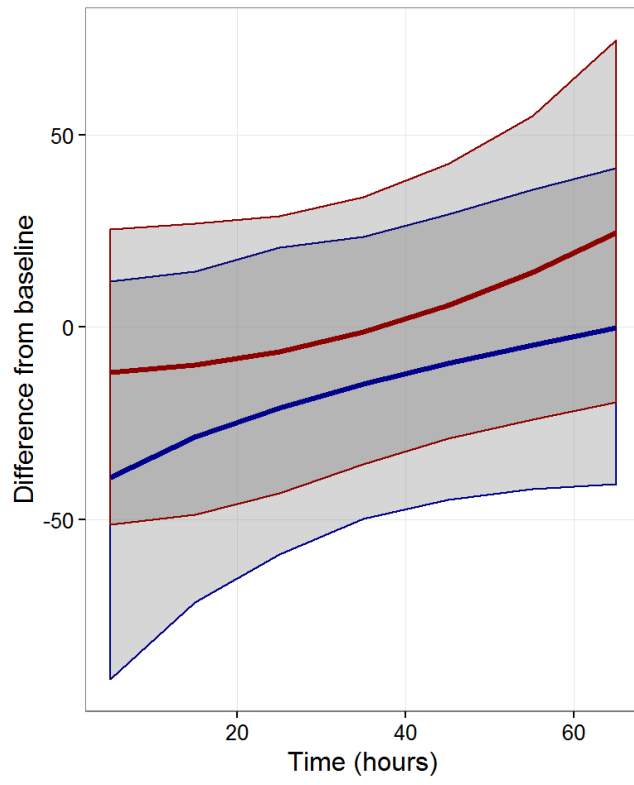
Mannose Binding Lectin



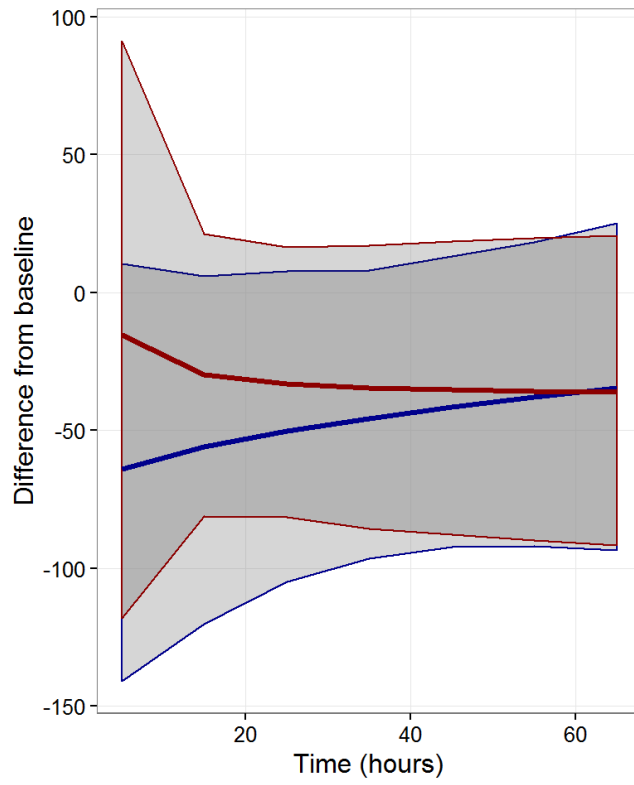
Factor I



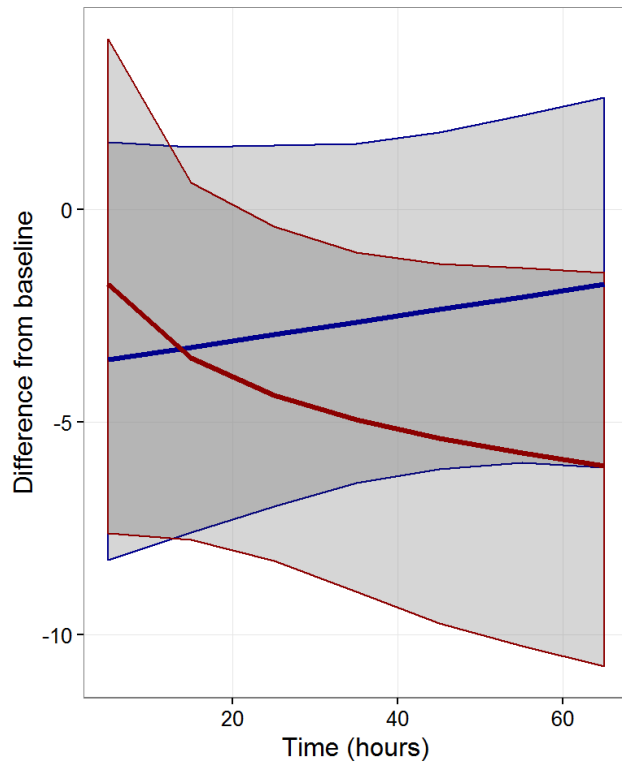
Factor B



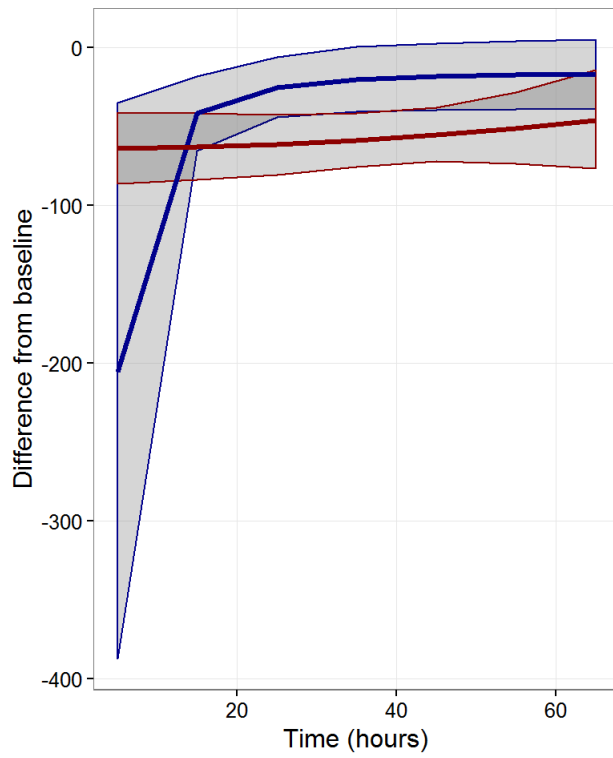
Factor H



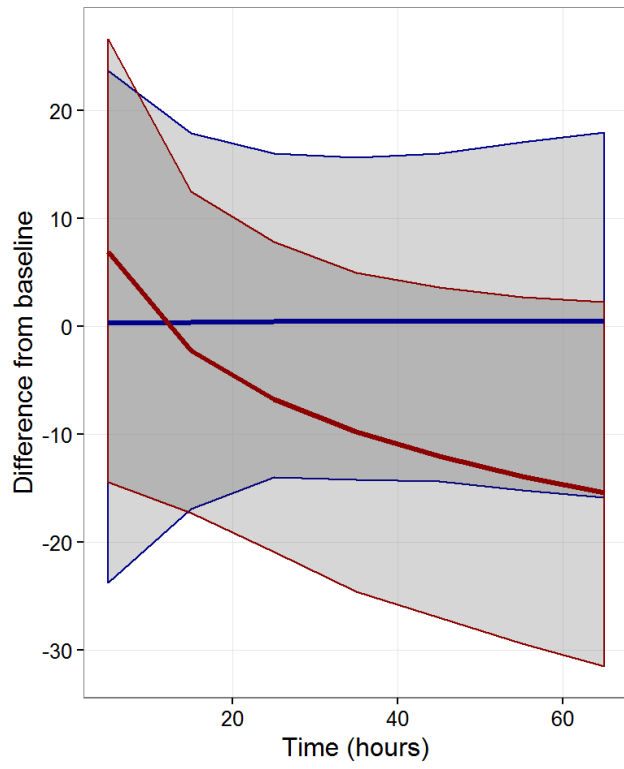
Properdin



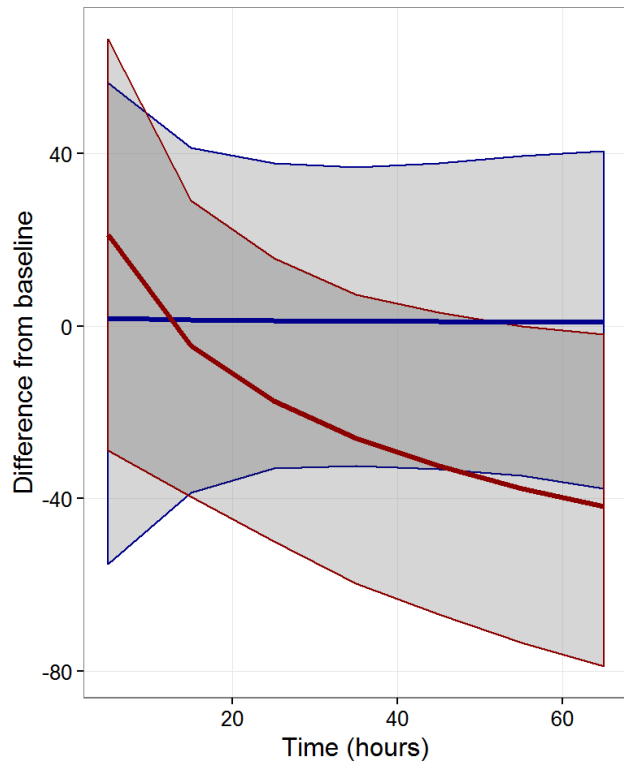
Eotaxin



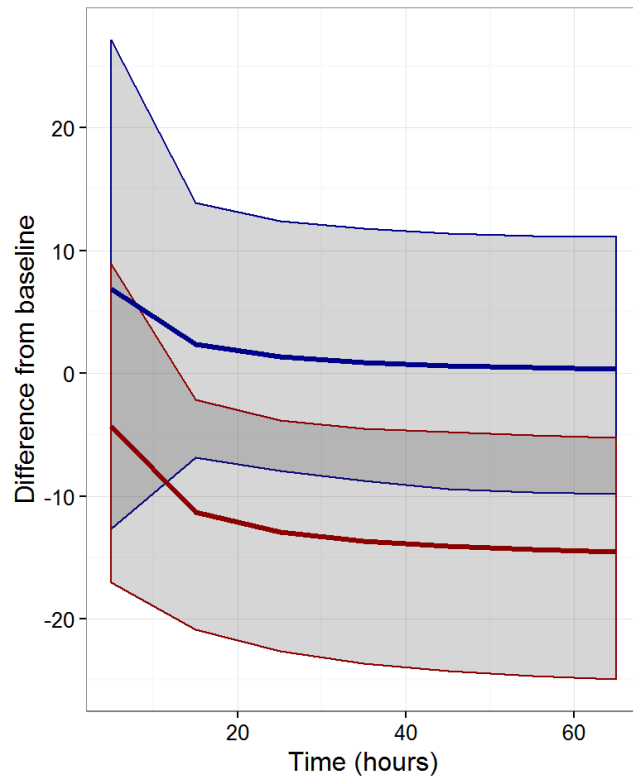
GM-CSF



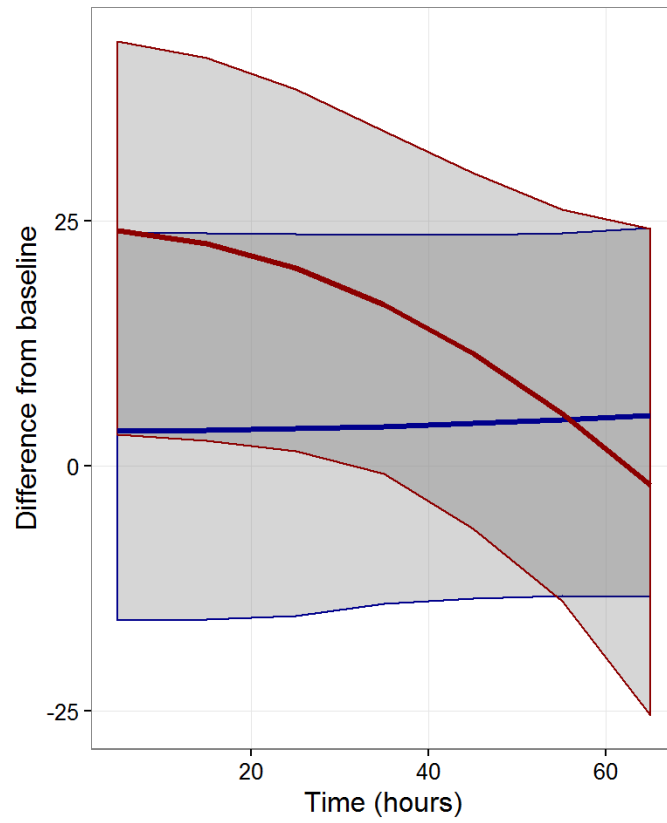
IFN α_2



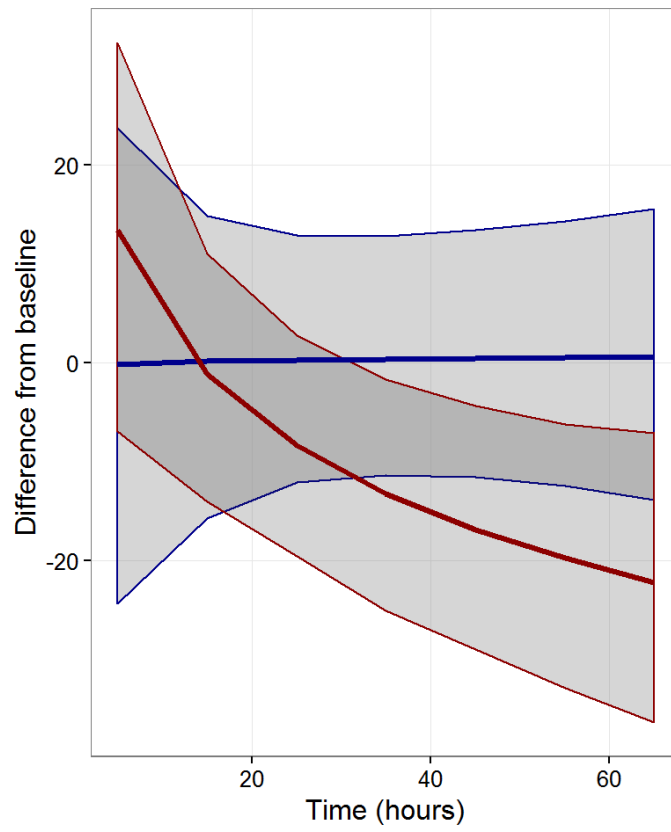
Interferon γ



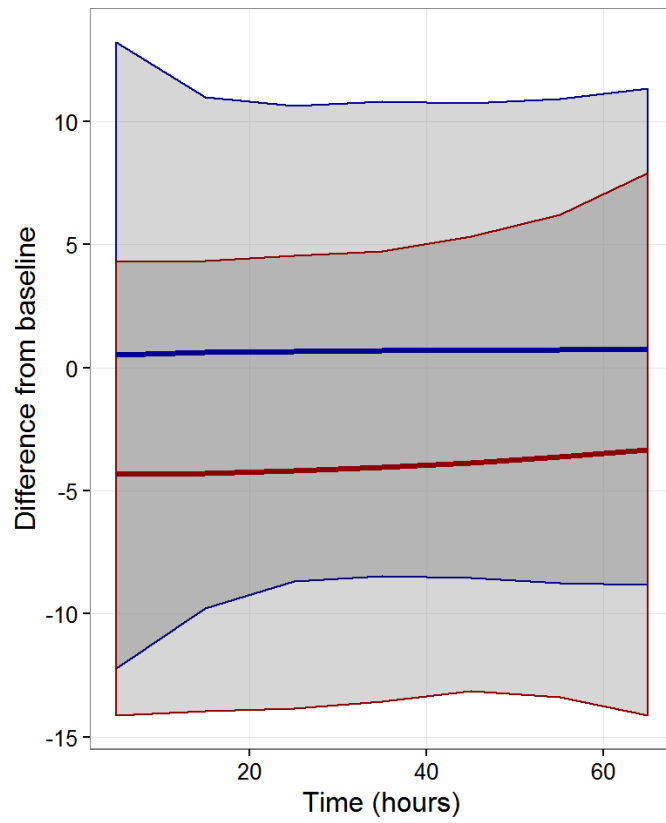
IL-10



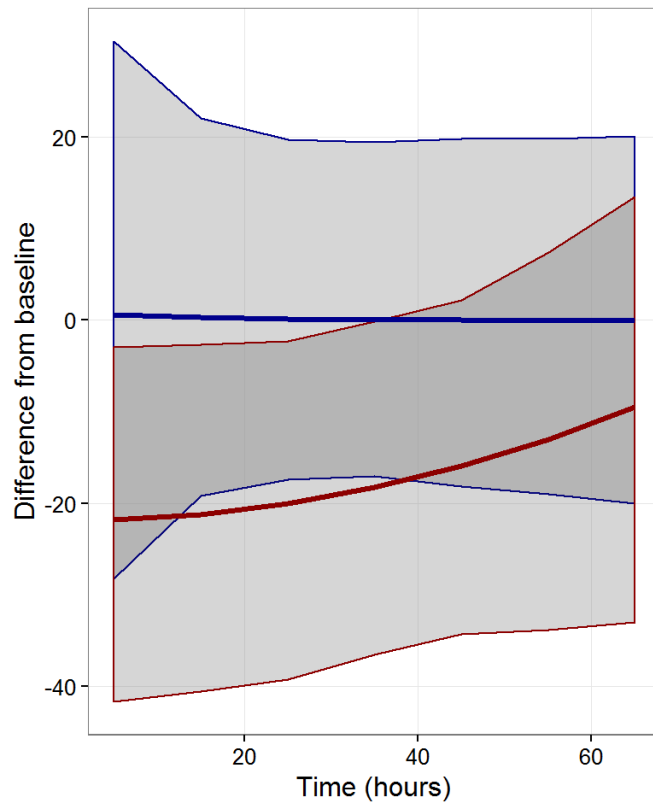
IL-12p40



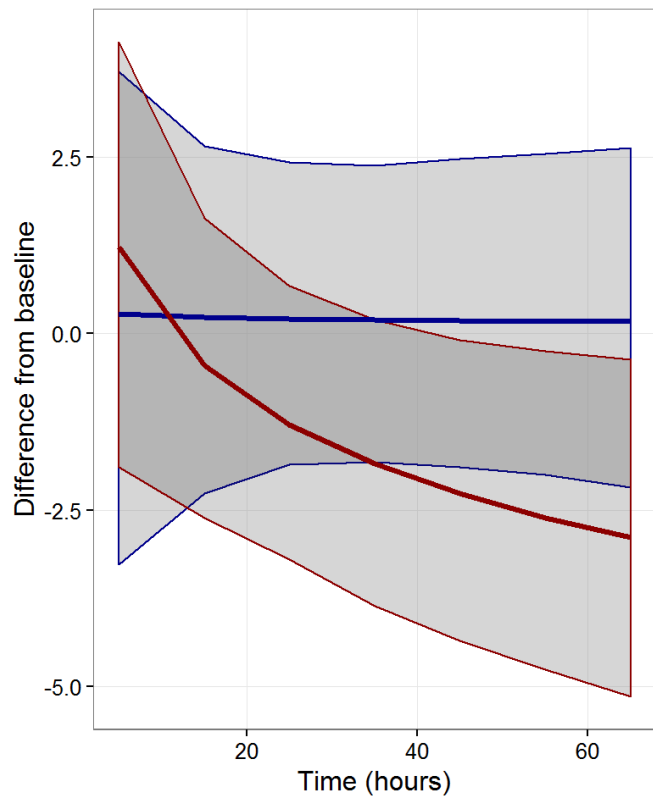
IL-12p70



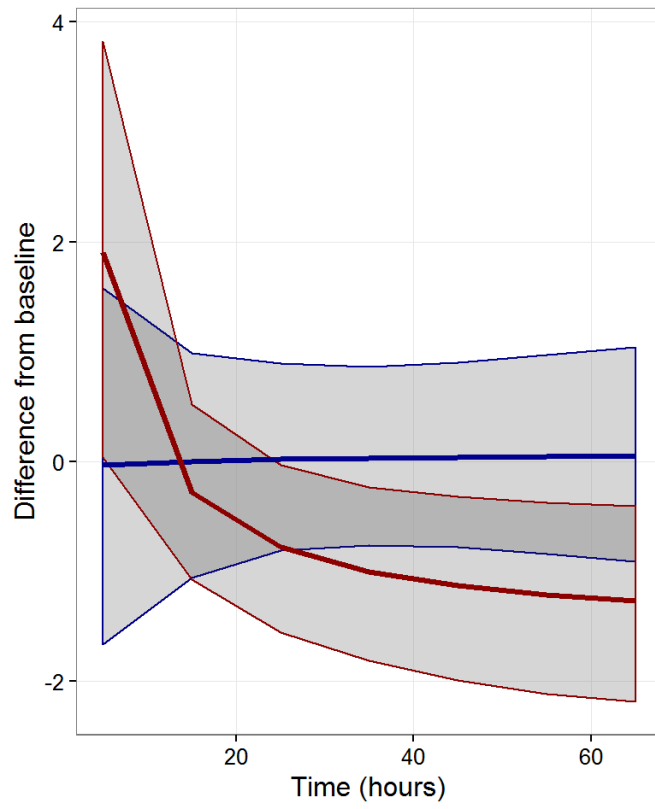
IL-13



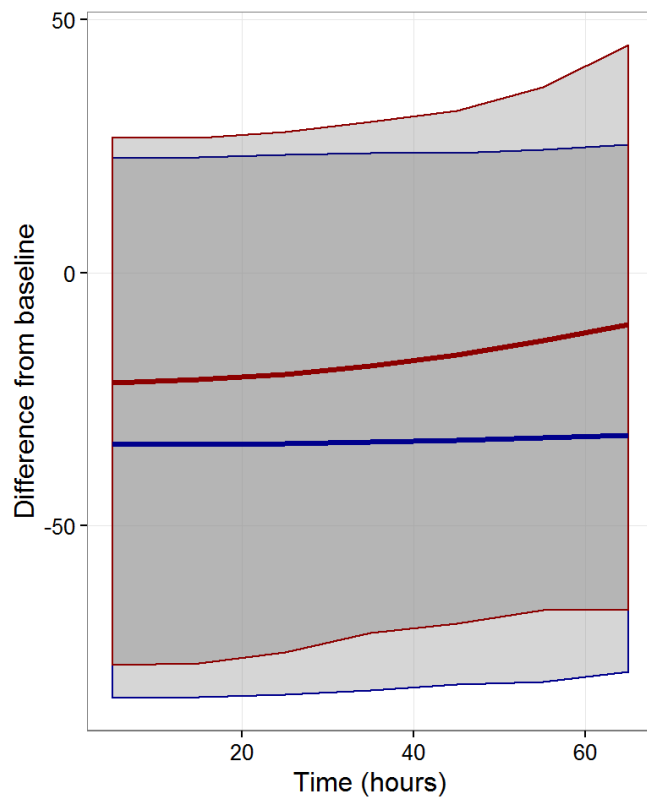
IL-15



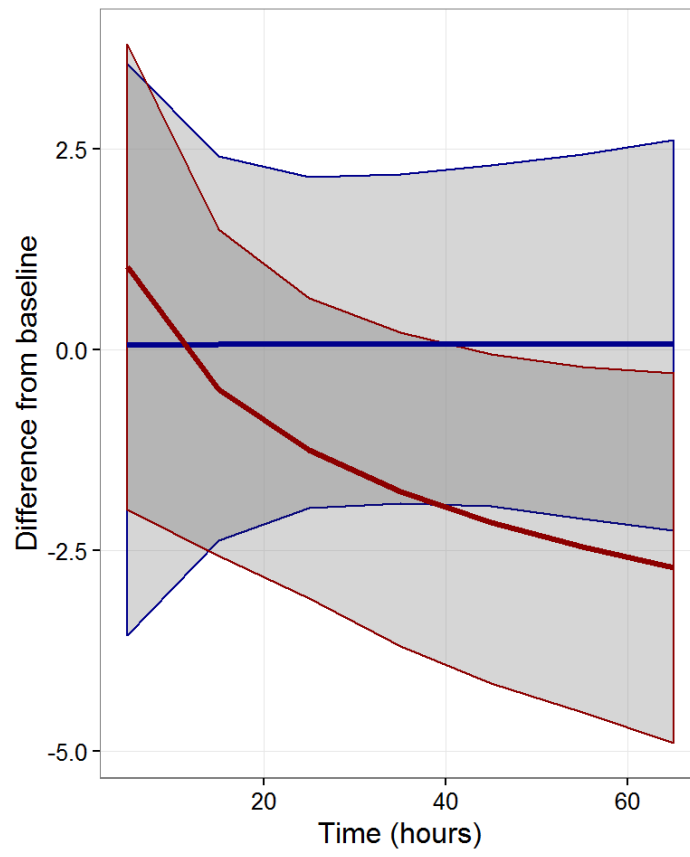
IL-17



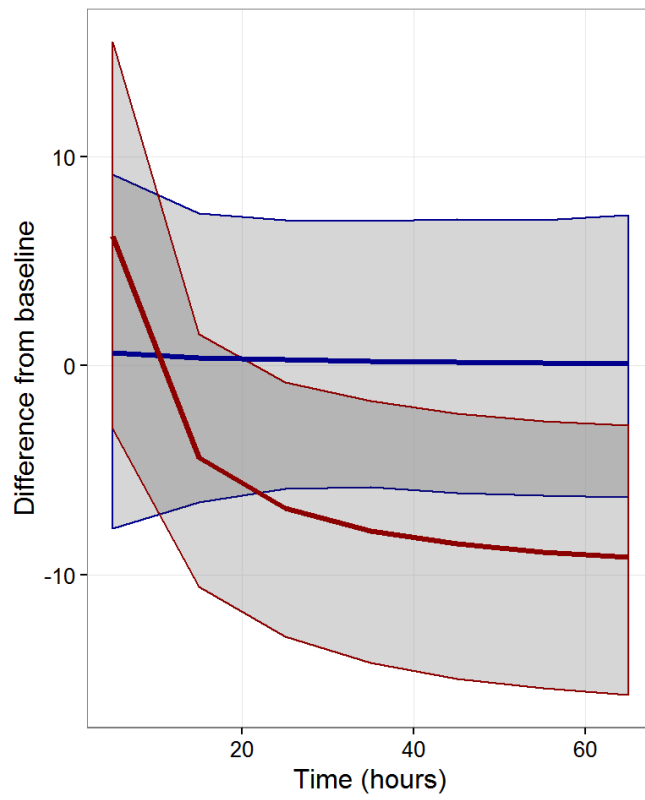
IL-1 α



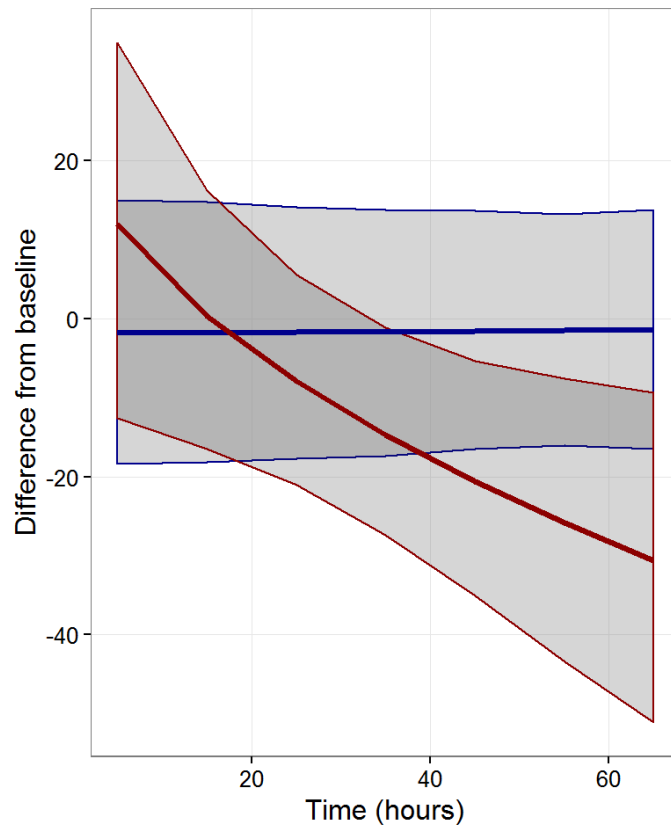
IL-1b



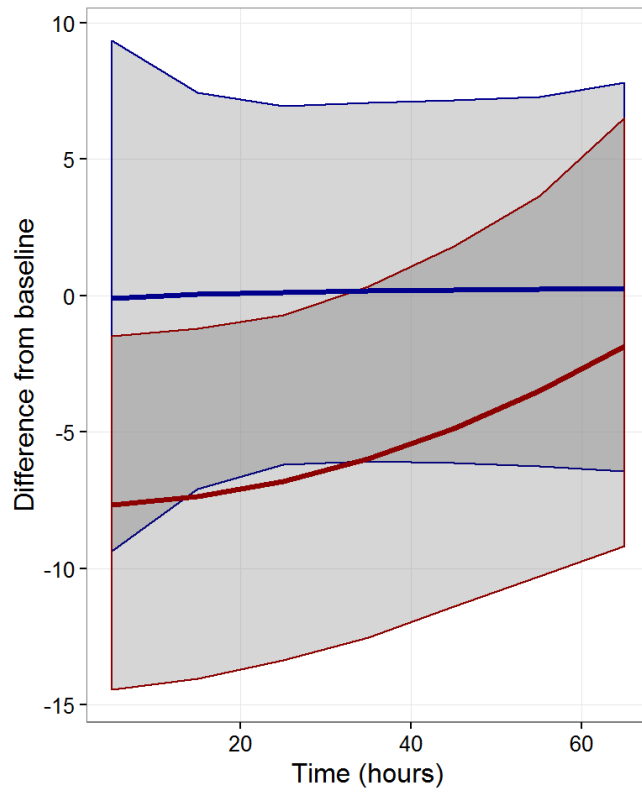
IL-2



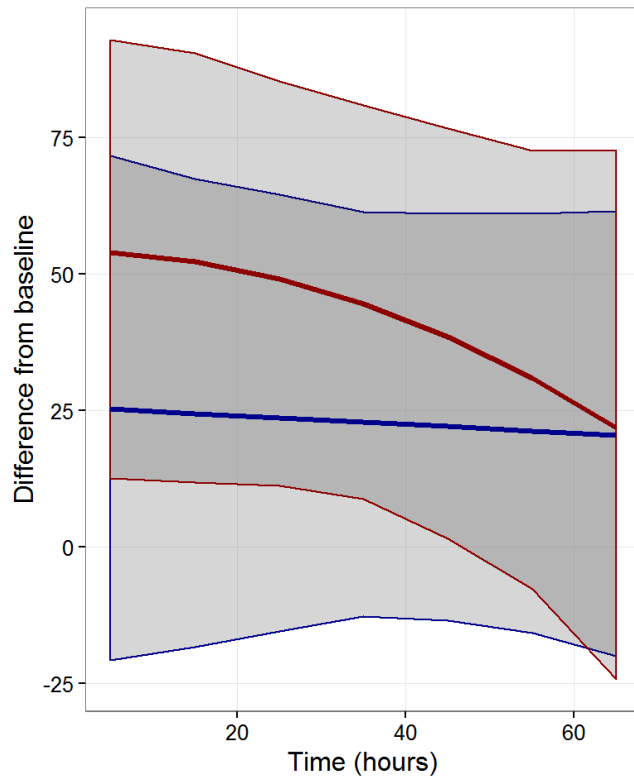
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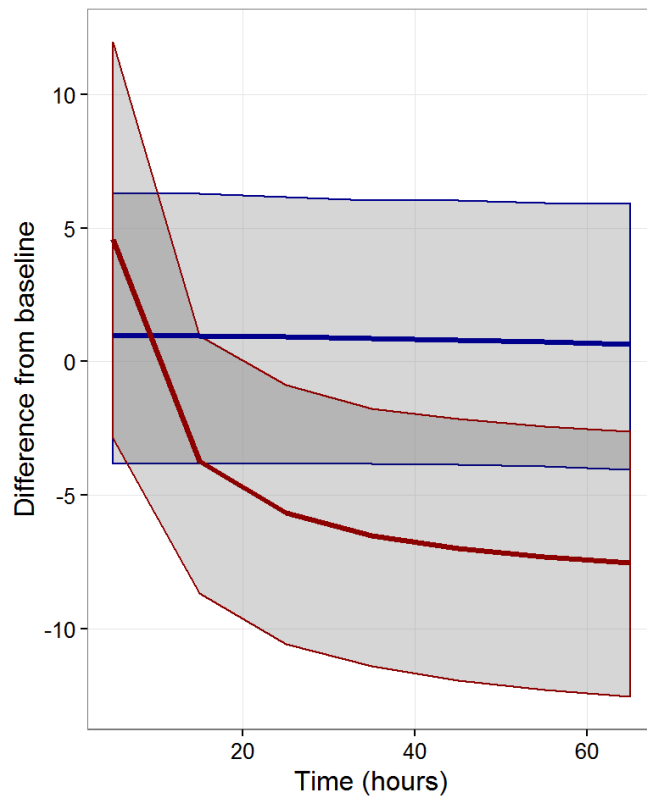
IL-5



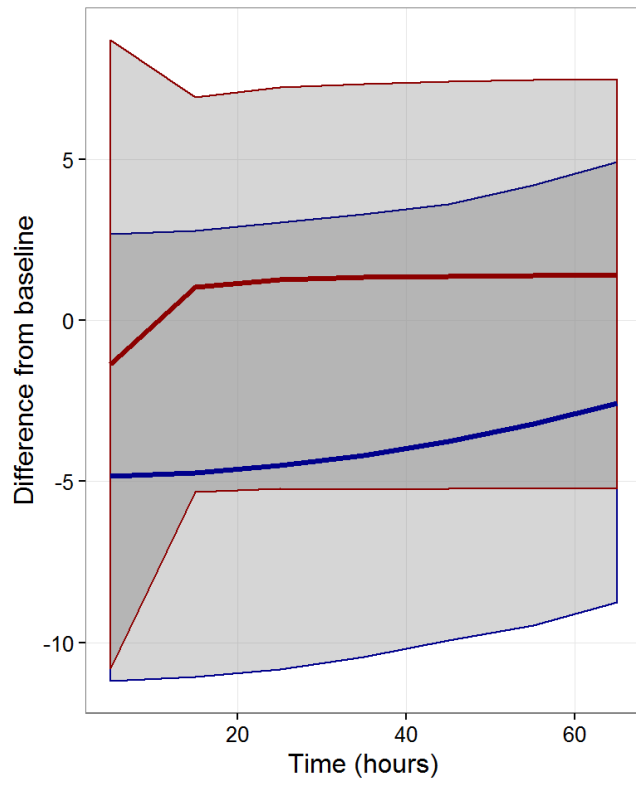
IL-6



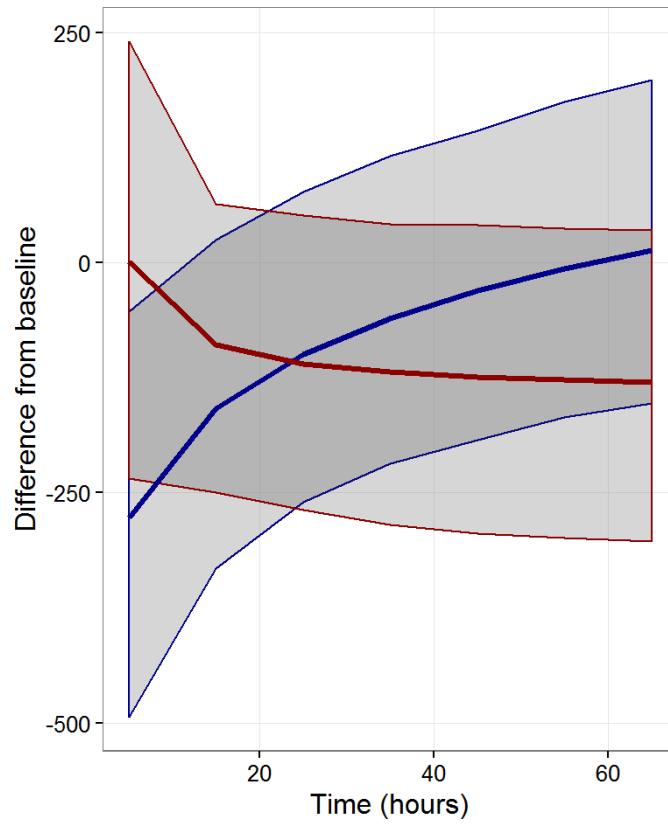
IL-7



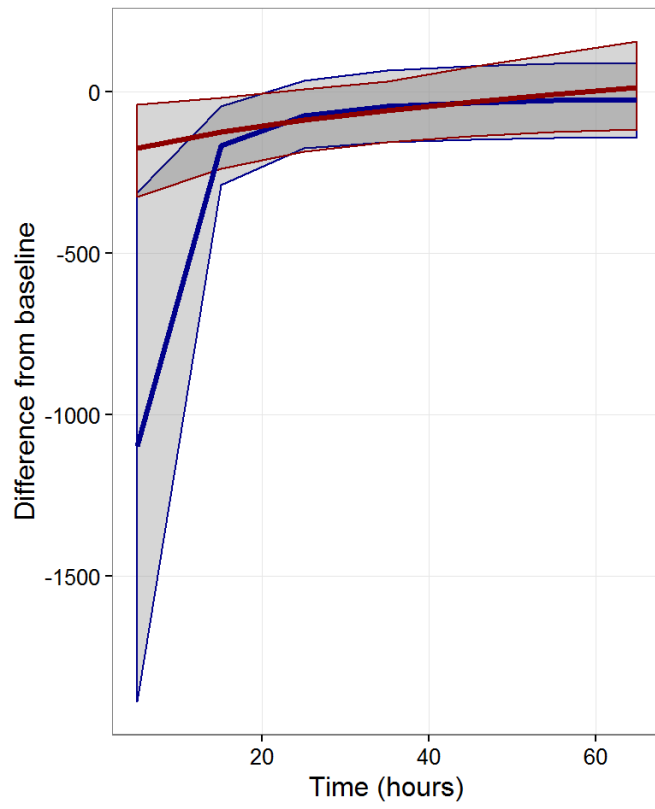
IL-8



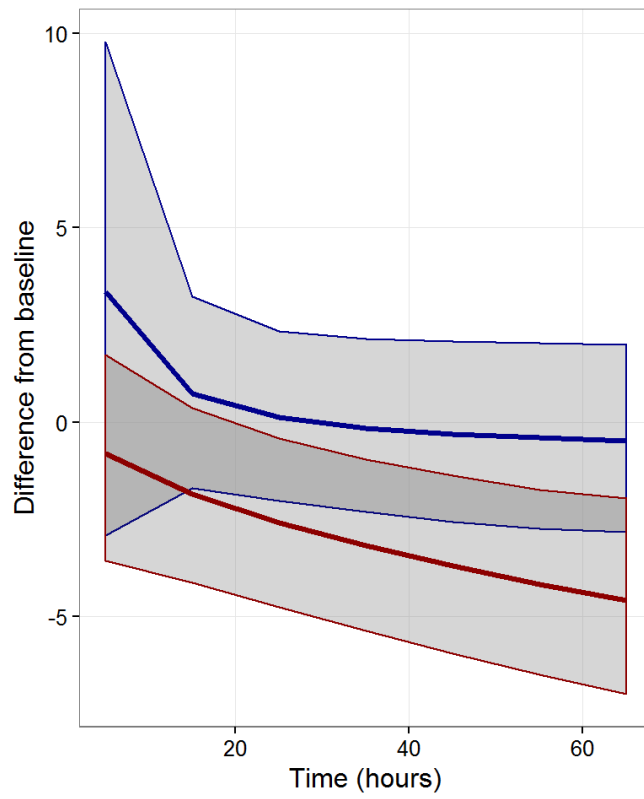
IP-10



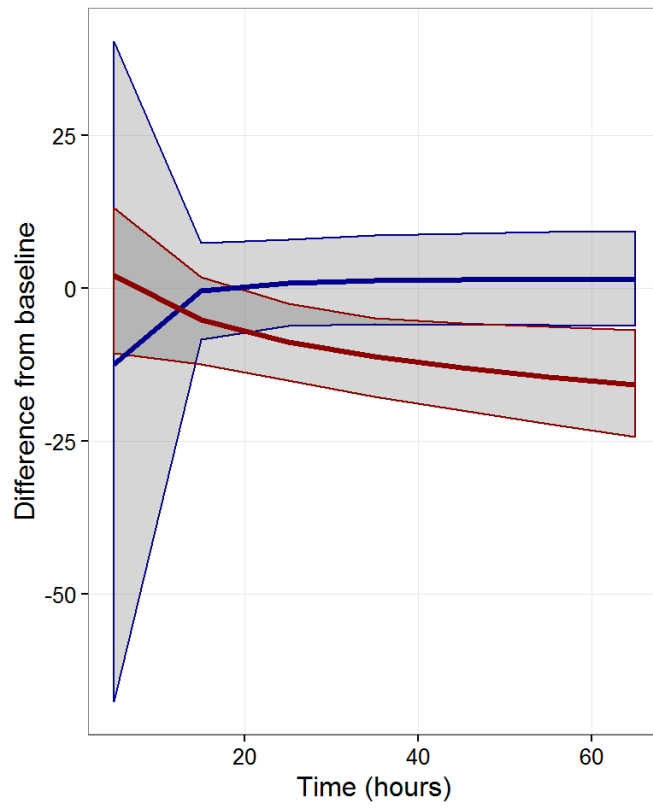
MCP-1



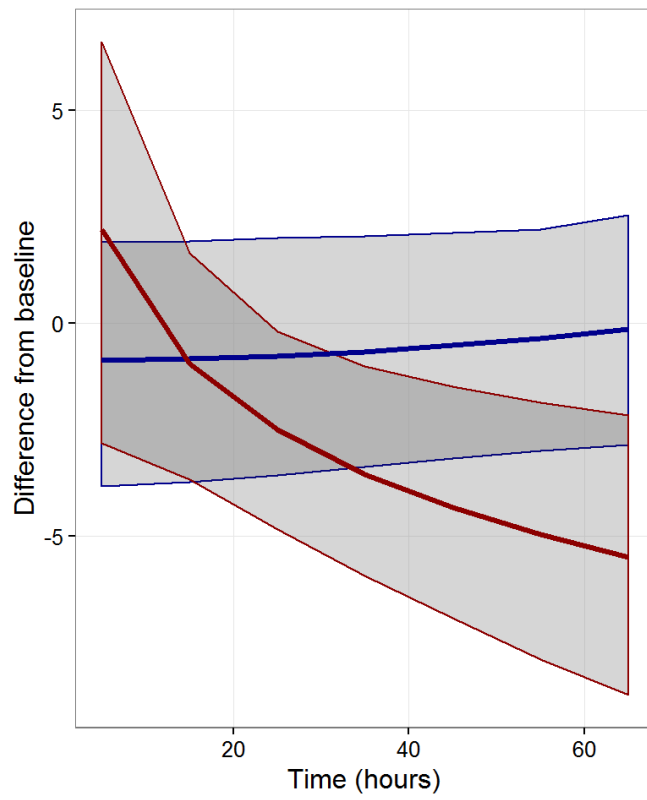
MIP-1a



MIP-1b



TNF α



Matrix Metalloproteinase 9

