

Table: Temporal changes in laboratory parameters

Parameter	FCM (N = 24)			Placebo (N = 24)			P value
	Baseline	Week 1	Week 8	Baseline	Week 1	Week 8	
Iron parameters							
Iron, μmol/L	16.5 ± 1.5	28.8 ± 1.9	17.3 ± 1.1	16.8 ± 1.2	16.5 ± 1.4	15.3 ± 1.1	0.003
Ferritin, μg/L	96.4 ± 12.8	1149.5 ± 57.6	395.2 ± 32.9	97.7 ± 15.9	91.4 ± 14.4	95.8 ± 16.2	< 0.001
Transferrin, g/L	2.53 ± 0.07	2.06 ± 0.05	2.08 ± 0.05	2.53 ± 0.06	2.48 ± 0.07	2.49 ± 0.07	< 0.001
Transferrin saturation, %	31.3 ± 3.1	64.9 ± 5.0	38.2 ± 2.5	31.4 ± 3.2	31.3 ± 3.5	29.0 ± 2.8	< 0.001
Soluble transferrin receptor, nmol/L	16.2 ± 0.9	13.0 ± 0.7	14.3 ± 0.7	17.1 ± 1.0	16.8 ± 1.1	16.8 ± 1.2	< 0.001
Hepcidin, ng/mL	21.8 ± 2.5	106.8 ± 6.9	58.5 ± 4.6	21.8 ± 3.9	18.7 ± 3.5	26.7 ± 5.2	< 0.001
Hematological parameters							
Hemoglobin, g/dL	14.5 ± 0.3 ^a	14.1 ± 0.2 ^a	14.4 ± 0.3 ^a	14.4 ± 0.3 ^a	14.0 ± 0.3 ^a	14.1 ± 0.3 ^a	0.82
Mean corpuscular volume, fL	90.6 ± 1.1 ^a	91.3 ± 1.1 ^a	92.8 ± 1.1 ^a	92.3 ± 0.7 ^a	92.6 ± 0.7 ^a	92.2 ± 0.8 ^a	0.003
Mean cell hemoglobin, pg	30.2 ± 0.5 ^a	30.4 ± 0.4 ^a	30.7 ± 0.4 ^a	30.7 ± 0.3 ^a	30.4 ± 0.2 ^a	30.3 ± 0.2 ^a	< 0.001
Inflammatory parameters							
C-reactive protein, mg/dL	6.6 ± 3.0	8.0 ± 2.1	5.5 ± 1.3	6.5 ± 1.7	6.0 ± 1.8	5.8 ± 1.4	0.86
Interleukin-6, pg/mL ¹	7.8 ± 2.7	4.8 ± 0.5	4.6 ± 0.4	8.2 ± 1.7	7.5 ± 1.3	7.5 ± 1.3	0.11
	(13)	(11)	(11)	(8)	(14)	(6)	
Serum phosphate, mmol/L	0.98 ± 0.03	0.52 ± 0.03	0.83 ± 0.05	0.97 ± 0.03	0.97 ± 0.03	0.97 ± 0.03	< 0.001

All data are reported as mean \pm SE. Statistical analysis was performed by linear mixed effects modelling; P values are given for the fixed effect of “status post FCM infusion”. FCM: ferric carboxymaltose.

^a Descriptive data (mean \pm SE) are reported for participants with a valid measurement at each time point ($n = 23$); cases with partially missing data were excluded. Participants with missing data were still included in the linear mixed effects model.

¹ Interleukin-6: Values in parentheses indicate the number of data points with values below the assay’s detection threshold of 3.13 pg/mL. These values were not included in the descriptive statistics or the linear mixed effects model.