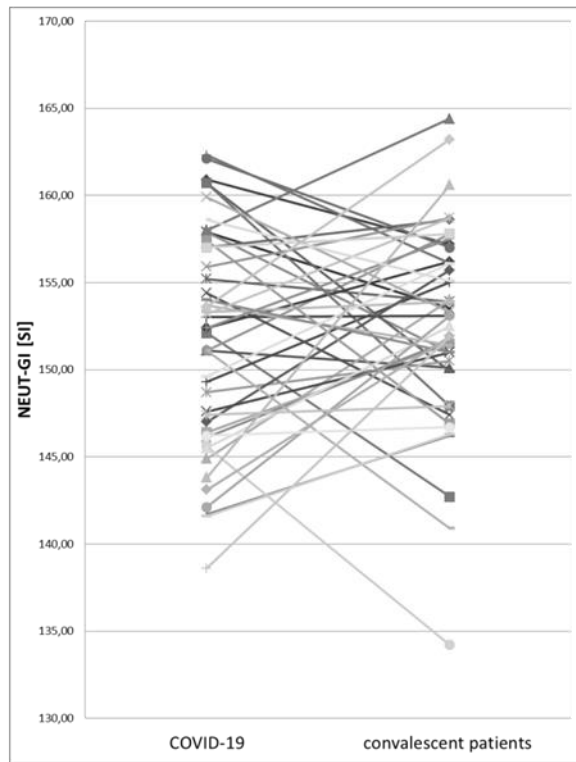
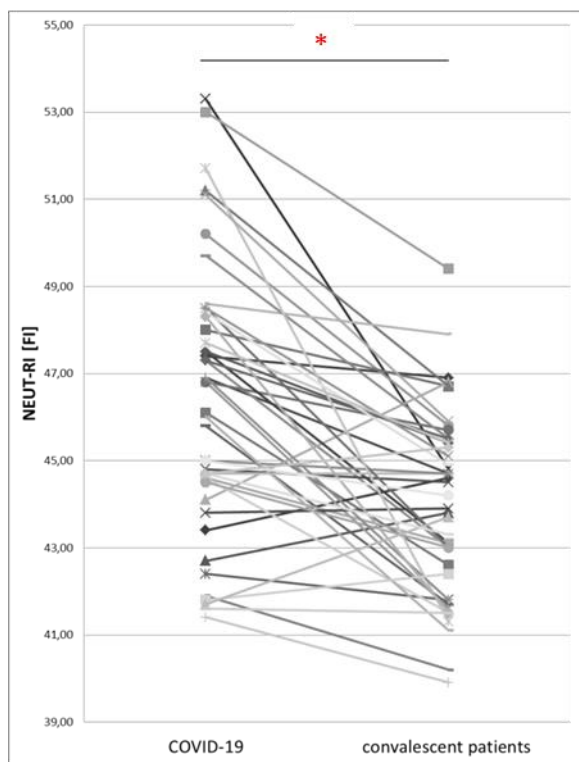
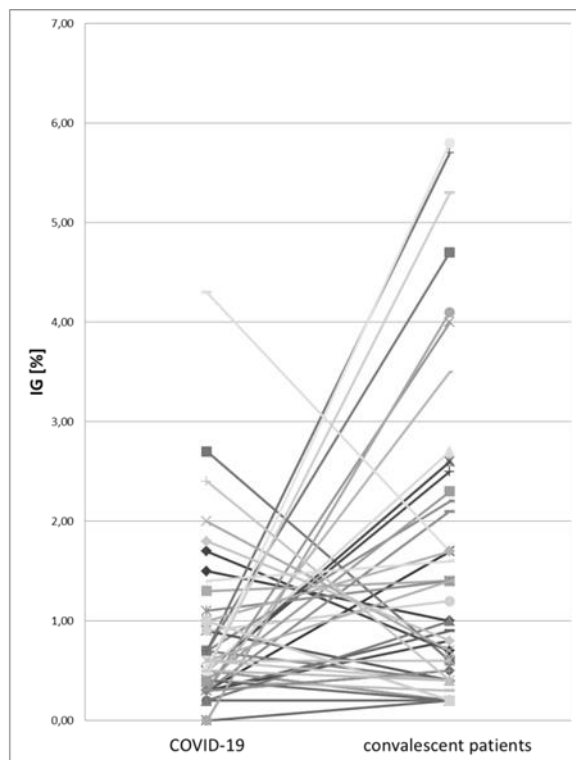
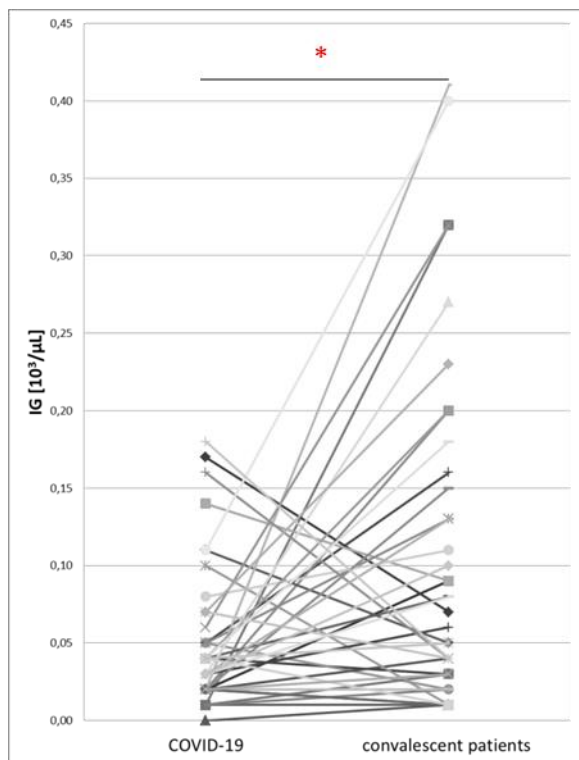


Supplementary Materials:

Table S1. Proportion of Sysmex parameters connected with neutrophils in patients with COVID-19 and convalescent patients (in the convalescent group are the same patient after COVID-19 recovery). Data expressed as median (Q1–Q3).). A * was marked P statistically significant.

Sysmex Parameters [median (Q1–Q3)]		A. COVID-19 <i>n</i> =46	B. Convalescent Patients <i>n</i> = 46	* <i>p</i> < 0,05 The Mann–Whitney U Test
-	IG [10 ³ /μL]	0.04 (0.02–0.11)	0.08 (0.03–0.20)	* <i>p</i> = 0.0013
-	IG [%]	0.5 (0.3–1.0)	1.0 (0.4–2.3)	<i>p</i> = 0.0567
-	NEUT-RI [FI]	46.8 (44.6–48.4)	44.0 (42.4–45.4)	* <i>p</i> < 0.0001
-	NEUT-GI [SI]	152.4 (146.4–157.0)	153.1 (150.1–156.2)	<i>p</i> = 0.1689
-	NE-FSC [ch]	87.2 (84.6–90.0)	87.4 (85.1–90.5)	<i>p</i> = 0.7581
-	NE-WX	321 (303–344)	338 (322–352)	<i>p</i> = 0.0573
-	NE-WY	608 (585–649)	617 (597–647)	<i>p</i> = 0.2569
-	NE-WZ	589 (570–610)	578 (557–630)	<i>p</i> = 0.6702

Abbreviations: ch, channel unity; IG, Immature Granulocyte count; NE-FSC, size or volume of neutrophils; NEUT-GI, neutrophil granularity index; NEUT-RI, neutrophil reactive index; NE-WX, reflects the width of dispersion of neutrophils population, respect to neutrophil side-scatter (NE-SSC); NE-WY, represents the fluorescence distribution width of neutrophil population, respect to neutrophil fluorescence intensity (NE-SFL); NE-WZ, reflects the distribution width of neutrophils population, respect to neutrophil forward scatter (NE-FSC) It is proportional to the width of dispersion of neutrophil cell size



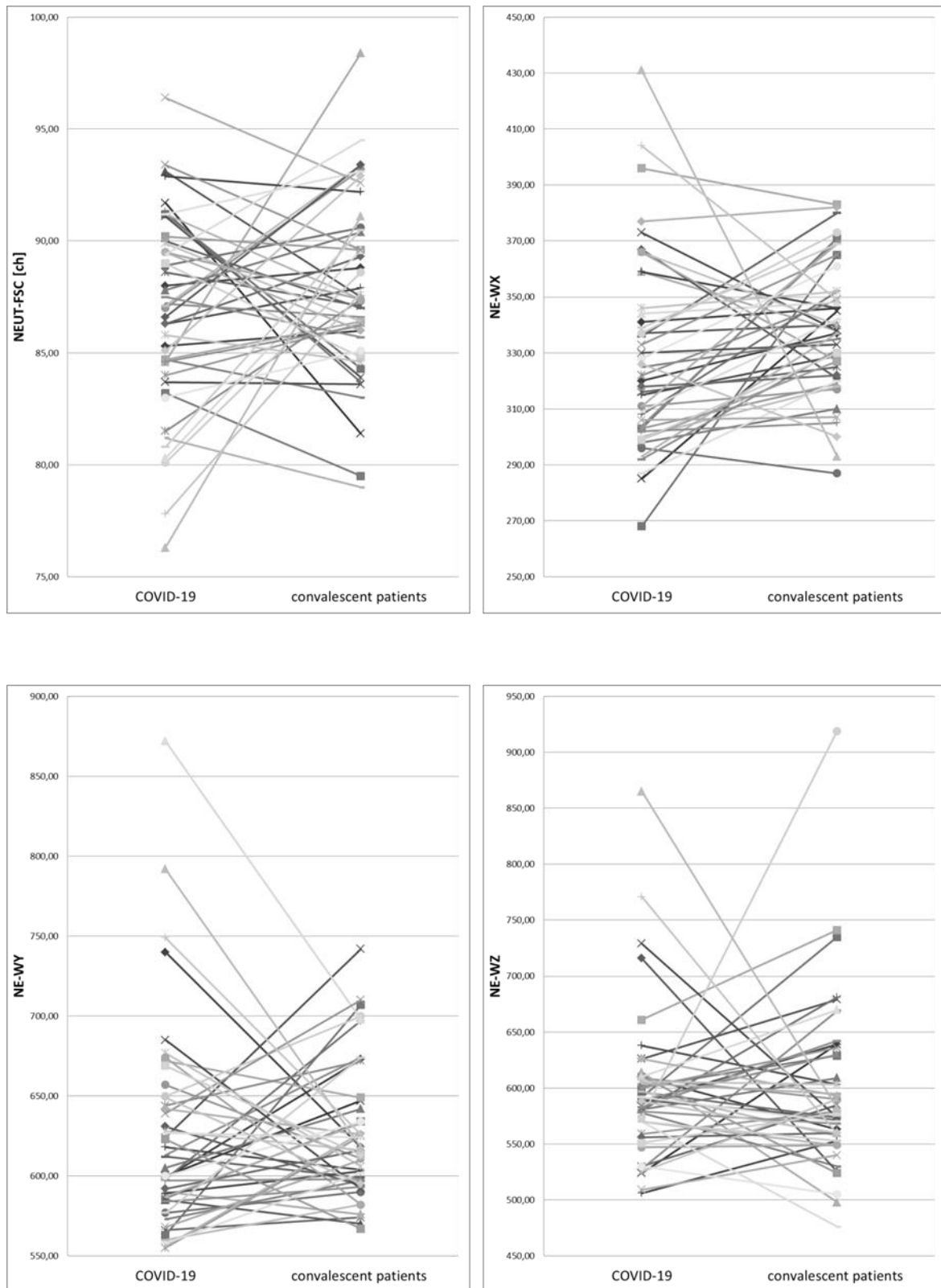


Figure S1. The differences in the proportion of Sysmex parameters connected with neutrophils in individual patient with COVID-19 and in the same patient after COVID-19 recovery ($n = 46$). A * was marked P statistically significant.

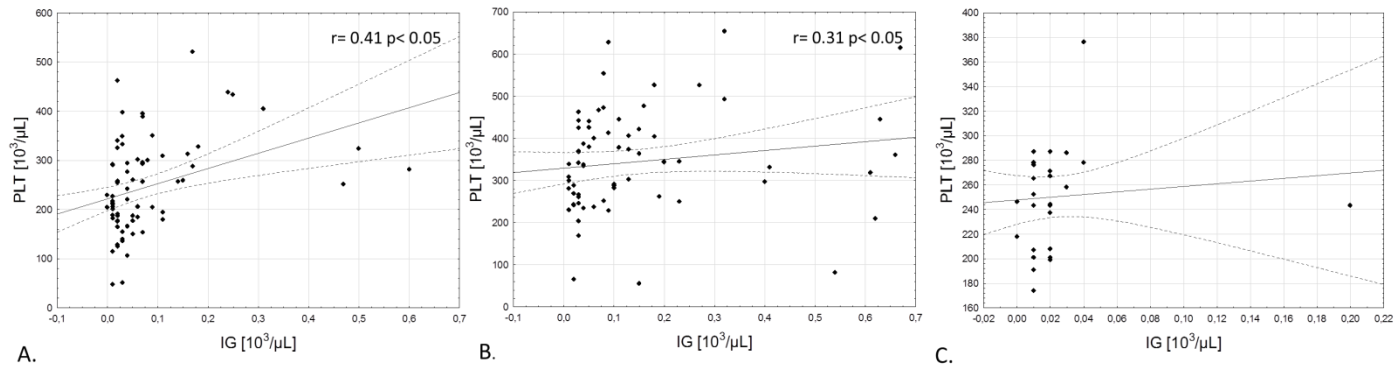


Figure S2. The correlations between proportion of plates counts (PLT) and proportion of immature granulocyte count (IG): **A.** in patients with COVID-19, **B.** convalescent patients and **C.** healthy control.

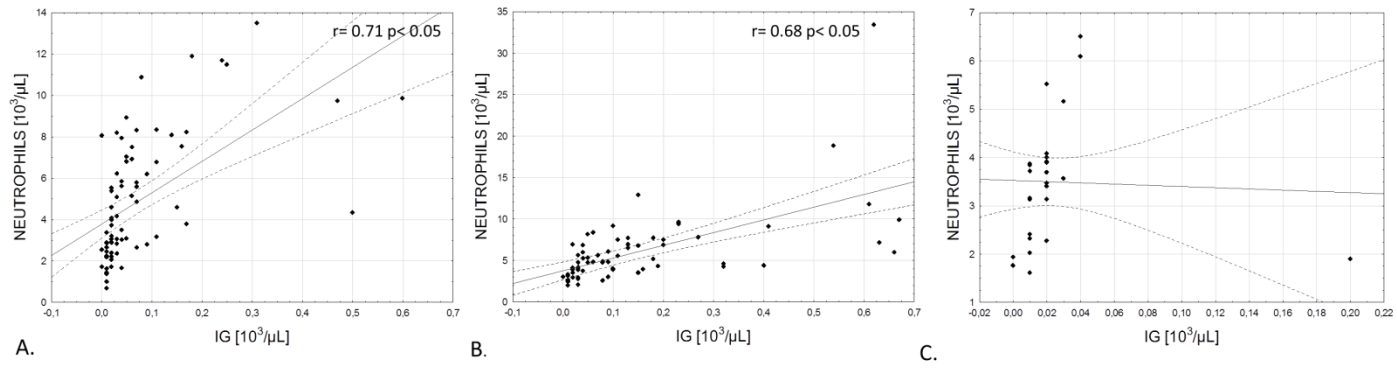


Figure S3. The correlations between proportion of absolute counts of neutrophils and proportion of immature granulocyte count (IG): **A.** in patients with COVID-19, **B.** convalescent patients and **C.** healthy control.