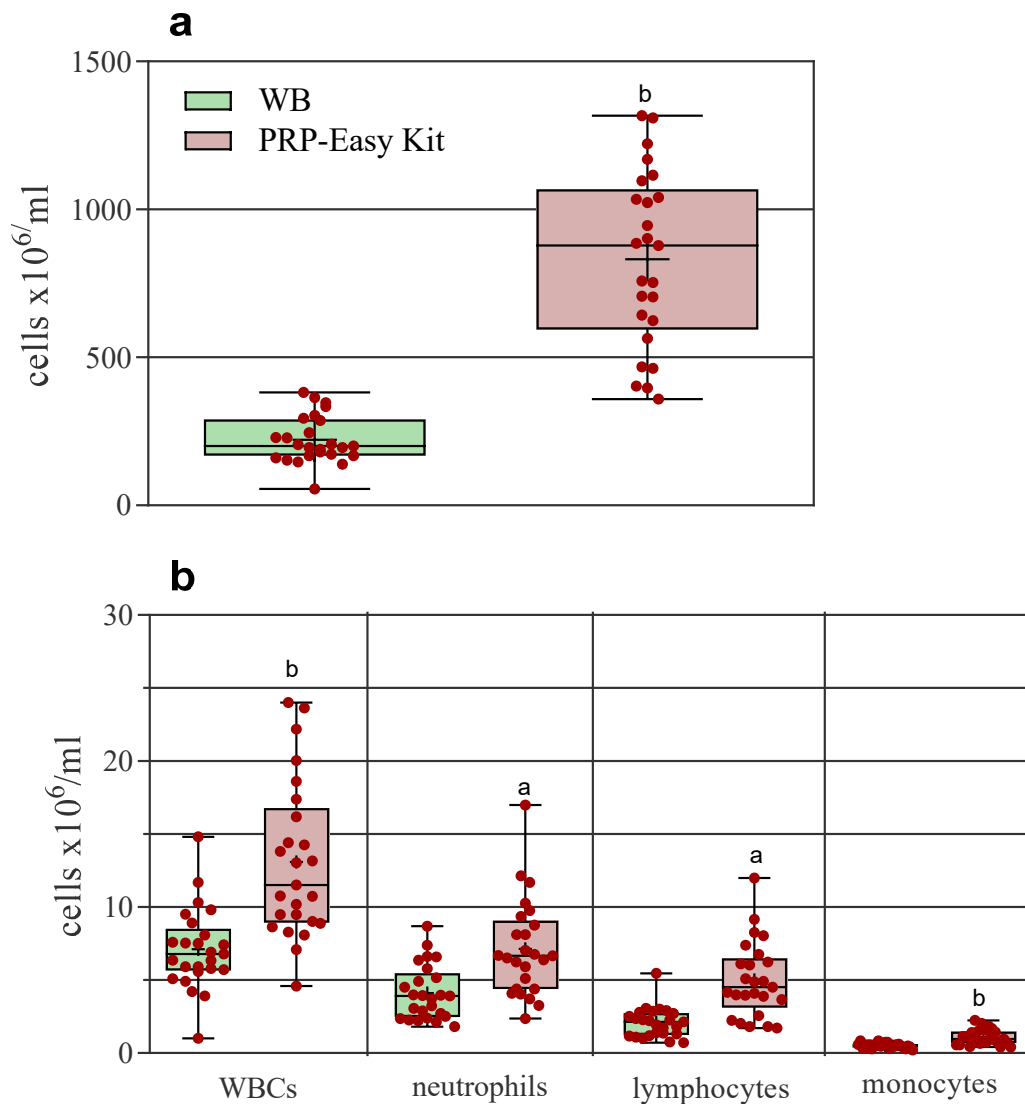


Influence of Sexual Dimorphism, Aging, and Differential Cell Capture Efficiency of Blood Separation Systems on the Quality of Platelet-Rich Plasma

Figure S1. Blood cell count in WB and final products concentrated by the Easy kit system: (a) platelets; (b) WBCs (as a whole), neutrophils, lymphocytes, and monocytes.



Median, line in the middle of the IQR box; mean, +; whiskers, minimum to maximum.

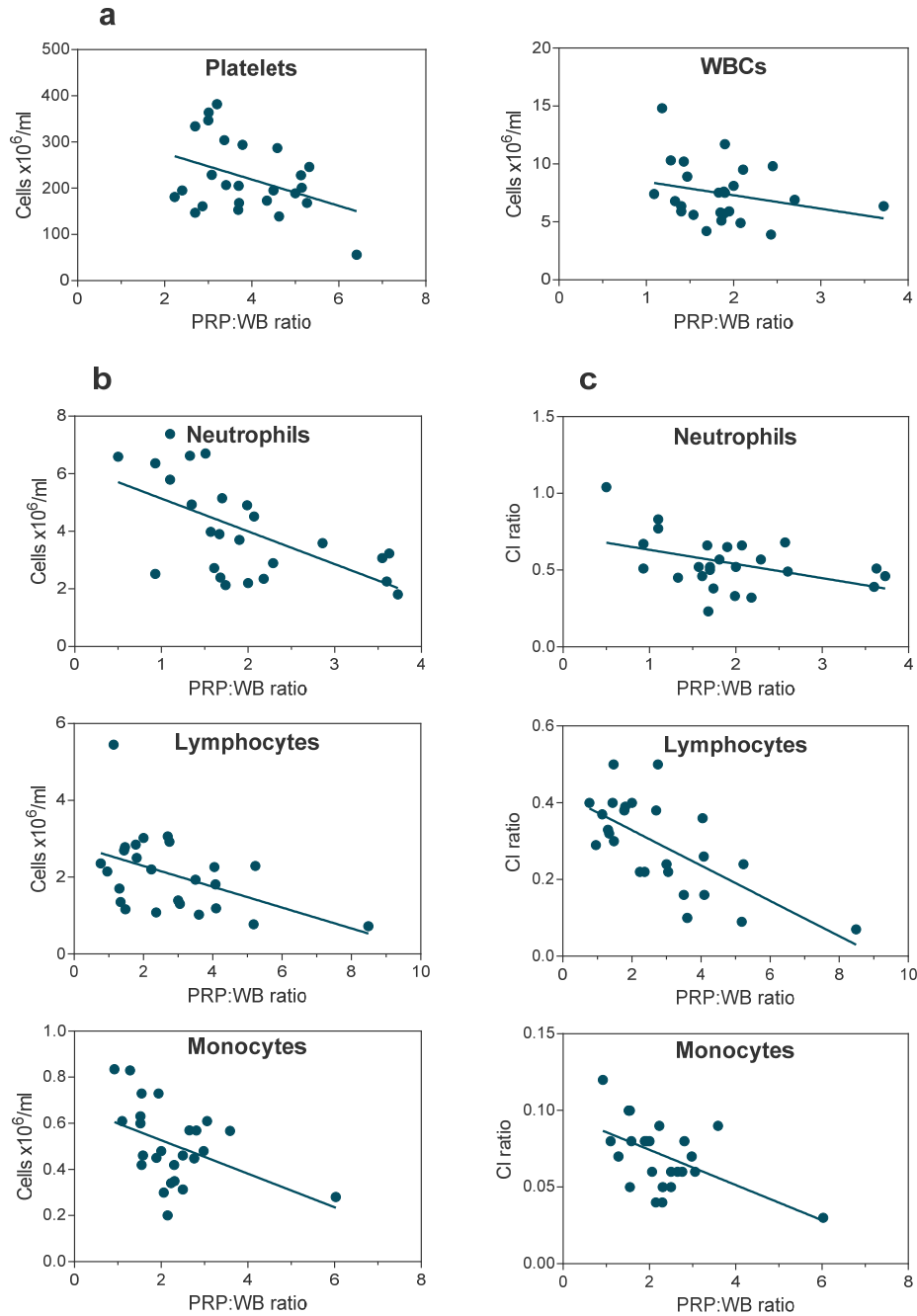
^a $P \leq 0.002$ (U test). ^b $P < 0.001$ (independent *t*-test) for WB vs. PRP products.

Table S1. Descriptive data of the sample population by sex.

	Male Group n=13		Female Group n= 13		<i>P-value</i>
	Mean \pm SD (range)	Median (IQR)	Mean \pm SD (range)	Median (IQR)	
Age (years)	62.09 \pm 24.30 (29.00-92.00)	64.00 [48.00]	62.50 \pm 23.65 (31.00– 93.00)	70.00 [49.75]	0.826 ^a
Weight (Kg)	75.36 \pm 17.29 (51.00-113.00)	76.00 [22.00]	69.21 \pm 15.51 (52.00 – 103.00)	68.00 [23.75]	0.359 ^b
Height (cm)	176.80 \pm 9.12 (166.00-193.00)	174.00 [14.00]	163.6 \pm 6.23 (152.00- 174.00)	164.50 [10.30]	<0.001 ^b
BMI (Kg/m ²)	24.11 \pm 5.31 (17.75-34.11)	22.22 [8.00]	25.76 \pm 5.05 (18.34- 34.58)	24.95 [7.66]	0.436 ^b

Abbreviations: BMI, body mass index; SD: standard deviation; range (min–max); IQR: interquartile range; ^a Mann–Whitney U test; ^b independent *t*-test. A value of $p < 0.05$ (with a 95% confidence interval) was considered statistically significant.

Figure S2. PRP/WB ratio relationships with blood cell density ((a) platelets and WBCs; (b) neutrophils, lymphocytes, and monocytes) and (c) with CLR (neutrophils, lymphocytes, or monocytes/WBC ratio).



A: platelets, $y=333.00-28.50x$; WBCs, $y=9.62-1.16x$.

B: neutrophils, $y=6.27-1.14x$; lymphocytes, $y=2.83-0.27x$; monocytes, $y=0.67-0.07x$.

C: neutrophils, $y=0.72-0.09x$; lymphocytes, $y=0.42-0.05x$; monocytes, $y=0.09-0.01x$.

According to the linear equation $y=y_{\text{intercept}} + \text{slope} \times x$, where y is the density or the CL ratio, intercept is the Y value where the line intersects the Y axis, slope is the slope of the line, and x is the PRP/WB ratio.