

Supplementary material for the manuscript:

Value of Platelet Distribution Width and Mean Platelet Volume in Disease Activity Score of Rheumatoid Arthritis

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Supplementary table S1: Summary statistics of the assumed laboratory markers of inflammation.

Variable	Mean	SD	Minimum	Maximum	IQR	Skewness	Transformation	Skewness after transformation
ESR	36.9	35.1	4	140	48.25	1.27	Log(ESR)	0.00
CRP	11.4	10.8	0.5	36	19.8	0.69	Log(CRP)	-0.18
Plt.	294.1	118.4	125	760	118	1.65	Log(Plt)	0.29
PDW	25.1	17.6	7.6	71	32.5	0.98	$1/\sqrt{PDW}$	-0.32
MPV	8.5	1.1	6.2	12.5	1.6	0.63	Log(MPV)	0.15
PCT	0.25	0.11	0.15	1.3	0.08	6.35	1/PCT	-0.43

CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; Plt, platelet count; PCT, plateletcrit; PDW platelet distribution width; MPV, mean platelet volume.

Supplementary table S2: Pearson's coefficient of correlations among the assumed inflammatory parameters and P-values.

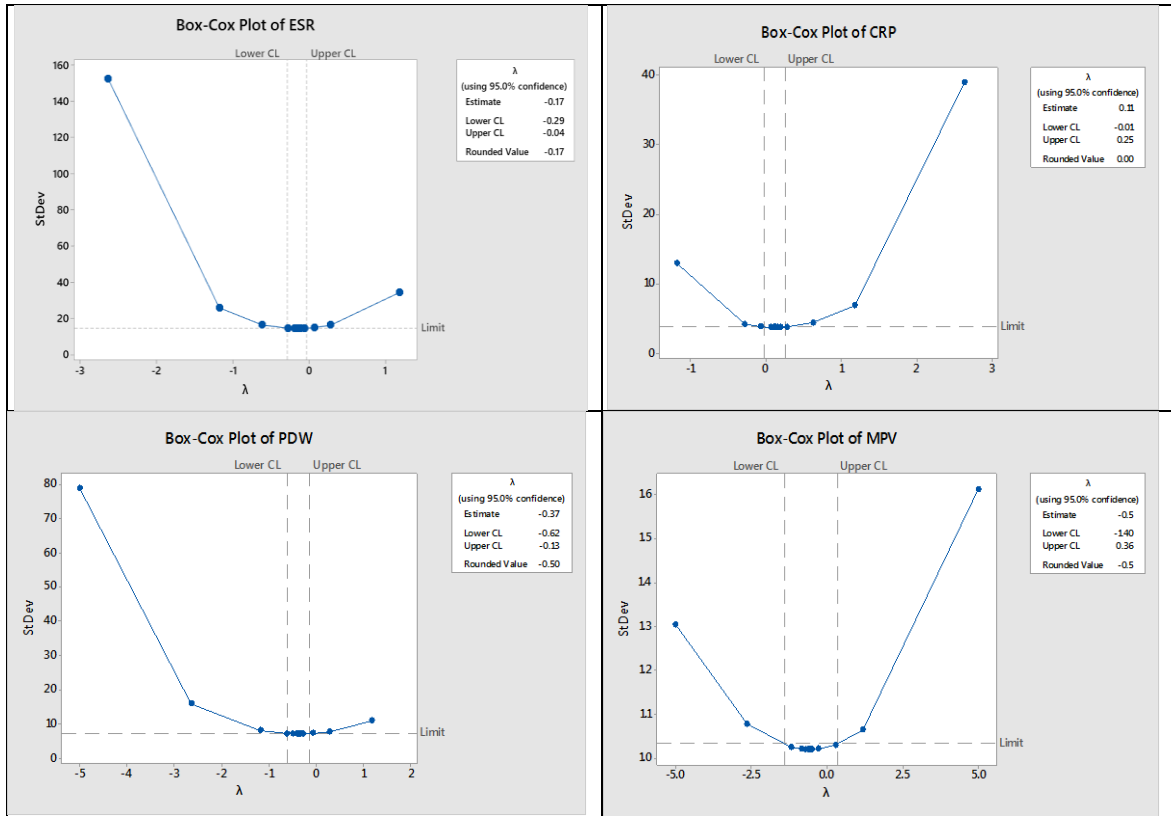
	ESR	CRP	Plt	PDW	MPV
CRP	0.713(0.000)**	-----	-----	-----	-----
Plt.	0.393(0.000)**	0.181(0.045)*	-----	-----	-----
PDW	0.479(0.000)**	0.495(0.000)**	0.108(0.188)	-----	-----
MPV	-0.302(0.000)**	-0.307(0.001)**	-0.395(0.000)**	0.054(0.509)	-----
PCT	-0.018(0.831)	0.403(0.076)	-0.090(0.270)	-0.005(0.951)	0.100(0.220)

CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; plt, platelet count; PCT, plateletcrit ; PDW, platelet distribution width; MPV, mean platelet volume.* The relationship was significant at 5%. ** The relationship was significant at 1%.

Supplementary table S3: The coefficient values (Coef) of the variables included in the regression equation of EgyDAS along with standard errors (SE), T-values, P-values and variance inflation factor (VIF) values.

Variables included in EgyDAS	Coef	SE Coef	T-value	P-value	VIF
Constant	5.78	0.387	14.96	0.00	
ln(ESR)	0.65	0.034	19.03	0.00	3.85
ln(CRP)	0.37	0.027	14.01	0.00	3.31
$1/\sqrt{PDW}$	-7.47	0.364	-20.52	0.00	1.74
ln(MPV)	3.09	0.152	-20.29	0.00	1.15

CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; PDW, platelet distribution width; MPV, mean platelet volume.



Supplementary figure S1: Cox-Box plots for the parameters included in EgyDAS equation.

These plots suggest using logarithm transformation for ESR, CRP and MPV, and inverted square root for PDW. CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; PDW, platelet distribution width; MPV, mean platelet volume.