

Table S1. Correlation analyses of NLR and CAS with age, serum and MR parameters excluding patients receiving corticosteroids.

	NLR		CAS		Average SIR	
	Correlation Coefficient	P value	Correlation Coefficient	P value	Correlation Coefficient	P value
NLR	1	NA	0.366	0.005	0.346	0.012
CAS	0.366	0.005	1	NA	0.278	0.046
Age	0.252	0.059	0.133	0.325	0.152	0.288
Duration of GD	-0.486	0.035	-0.191	0.433	-0.242	0.367
Duration of TED	-0.162	0.385	0.291	0.112	-0.136	0.507
Free thyroxine	0.05	0.71	-0.227	0.086	-0.022	0.877
TSH	0.137	0.306	0.262	0.047	0.360	0.009
TRAb	-0.16	0.235	0.009	0.949	0.051	0.724
TSAb	0.076	0.732	0.005	0.983	0.218	0.342
CRP						
Proptosis	0.286	0.036	0.330	0.015	0.332	0.016
Average EOM diameter	0.434	0.001	0.471	<0.001	0.408	0.003
Average SIR	0.346	0.012	0.278	0.046	1	NA

Abbreviations: CAS, clinical activity score; CRP, C-reactive protein; EOM, extraocular muscle; GD, Graves' disease; NLR, neutrophil-to-lymphocyte ratio; SIR, signal intensity ratio; TED, thyroid eye disease; TRAb, thyrotrophin receptor antibody; TSAb, thyroid stimulating antibody; TSH, thyroid stimulating hormone.

Table S2. Characteristics of the 87 enrolled patients with Graves' orbitopathy based on CAS.

Characteristics	Total	High CAS (≥ 3)	Low CAS (< 3)	P value
Number of patients	87	62	25	
Age (years)	48.6 \pm 1.49	48.6 \pm 1.74	48.8 \pm 2.94	0.960
Male (%)	39 (44.8)	26 (41.2)	13 (52)	0.477
Smoking (%)	27 (31.0)	18 (29)	9 (36)	0.61
Duration of TED (months)	6.7 \pm 0.73	7.4 \pm 0.85	5.1 \pm 1.32	0.134
Duration of GD (months)	38.0 \pm 11.2	29.2 \pm 12.9	50.5 \pm 20.1	0.360
Clinical Activity Score	3.3 \pm 0.14	3.9 \pm 0.13	1.8 \pm 0.08	<0.001
TSH level (mIU/L)	0.03 (0.005, 1.11)	0.05 (0.005, 1.43)	0.015 (0.005, 0.07)	0.073
Free triiodothyronine (pmol/L)	6.26 (4.81, 14.86)	6.22 (4.68, 14.6)	7.01 (5.61, 16.5)	0.234
Free thyroxine (pmol/L)	22.2 \pm 2.38	20.9 \pm 2.67	33.3 \pm 4.6	0.018
TRAb (IU/L)	9.34 (3.29, 21.26)	9.83 (3.36, 27.6)	7.56 (2.71, 18.9)	0.554
TSAb (IU/L)	6.43 (2.83, 14.2)	6.43 (2.16, 24.4)	5.99 (2.97, 10.2)	0.594
TgAb (IU/mL)	13.69 (10.6, 203.8)	13 (10.3, 148.5)	14.65 (10.9, 910.8)	0.388
TPOAb (IU/mL)	28.28 (9.78, 271.7)	28.3 (9.93, 286)	33.5 (9.73, 137)	0.625
CRP (mg/L)				
Average SIR	3.06 \pm 0.21	3.17 \pm 0.26	2.80 \pm 0.34	0.423
Average EOM diameter (mm)	5.6 \pm 0.14	5.67 \pm 0.18	5.43 \pm 0.17	0.335
Proptosis (mm)	21.4 \pm 0.31	21.6 \pm 0.38	20.8 \pm 9.52	0.235
NLR	2.0 \pm 0.1	2.11 \pm 0.14	1.73 \pm 0.15	0.097
MLR	0.27 \pm 0.06	0.21 \pm 0.01	0.42 \pm 0.20	0.294
PLR	118.2 \pm 4.46	117.5 \pm 5.38	119.8 \pm 8.10	0.815

Continuous variables are presented as mean \pm standard error (SEM) or median (interquartile range). Categorical variables are presented as number (percentage).

Abbreviations: CAS, clinical activity score; CRP, C-reactive protein; EOM, extraocular muscle; GD, Graves' disease; MLR, monocyte-to-lymphocyte ratio; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; SIR, signal intensity ratio; TED, thyroid eye disease; TgAb, thyroglobulin antibody; TPOAb, thyroid peroxidase antibody; TRAb, thyrotrophin receptor antibody; TSAb, thyroid stimulating antibody; TSH, thyroid stimulating hormone.