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IS THERE A RELATIONSHIP BETWEEN VITAMIN D AND COMPLEMENT IN PATIENTS WITH JUVENILE SYSTEMIC LUPUS ERYTHEMATOSUS?

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10.1136/lupus-2018-abstract.108

Purpose Complement consumption is a feature of active Systemic Lupus Erythematosus (SLE), and serum complement components measurement is used in clinical practice in the surveillance of these patients. Also, vitamin D deficiency is a common finding in SLE. This study aimed to evaluate the correlation between serum levels of 25-hydroxyvitamin D (25OH-D) and C3c/C4 in patients with juvenile SLE.

Methods A population of juvenile SLE patients was retrospectively evaluated. Data on demographic and clinical characteristics was collected. Serum 25-OH-colecalciferol (normal >30 ng/ml), C3c (normal >75 mg/dl) and C4 (normal >10 mg/dl) values were also gathered. Statistical analysis was performed using Pearson and Spearman correlation coefficient. Significance level was set as <0.05.

Results Twenty-one patients were included, with a mean current age of 26,6 years ($\pm 7,44$). Two patients were male (9,5%). Eleven patients (52,4%) had renal involvement: 9

with lupus nephritis class IV, 1 with class III and 1 with class II. More than half of them (63,6%) were in maintenance treatment with mycophenolate mofetil. Considering laboratory measurements, the mean serum 25OH-D was 22,1 ng/ml ($\pm 9,36$), mean C4 17,5 mg/dl ($\pm 7,29$) and median C3c 105 mg/dl (from 18 to 144 mg/dl). Only 14,3% (n=3) had serum 25OH-D above 30 ng/ml; 19,0% (n=4) had low C3c levels and 9,5% (n=2) low C4 levels. When correlating 25OH-D with C3c values, no statistical significant difference was found ($r=0,005$; $p=0,9843$). The same occurred with 25OH-D and C4 ($r=0,127$; $p=0,5843$).

Conclusion Vitamin D has an important role on the immune system modulation, but still not fully understood. In SLE, other authors have described a positive correlation between serum levels of 25OH-D and complement components levels. Despite the small sample size, this hypothesis was not confirmed in the presented population.

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NOT ALL PATIENTS WITH LUPUS ARE SIMILAR

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10.1136/lupus-2018-abstract.109

Abstract PS3:63 Table 1

	LES CV "free"	LES CVD sub	LES CV
Cholesterol (mg/dl)	183,66 $\pm$ 32,80	202,58 $\pm$ 29,52	170,18 $\pm$ 40,95
HDL cholesterol (mg/dl)	66,20 $\pm$ 17,73	57,23 $\pm$ 15,03	55,47 $\pm$ 19,12
LDL cholesterol (mg/dl)	101,46 $\pm$ 28,87	124,90 $\pm$ 24,99	94,06 $\pm$ 32,47
Triglycerides (mg/dl)	80,45 $\pm$ 43,37	105,06 $\pm$ 51,15	104,59 $\pm$ 44,0
	LES "free" % (n)	LES CV sub % (n)	LES CV % (n)
Age at diagnosis	33,12 $\pm$ 11,43	38,23 $\pm$ 16,52	31,17 $\pm$ 9,98
Evolution time	22,88 $\pm$ 11,08	16,42 $\pm$ 12,53	12,32 $\pm$ 9,94
SLEDAI	2,12 $\pm$ 2,80	2,65 $\pm$ 2,64	2,42 $\pm$ 2,74
Corticoids	36,620 (26)	29,032 (9)	58,824 (10)
Antimalarial drugs	88,732 (63)	83,871 (26)	100% (17)
Immunosuppressive	36,62 (26)	32,258 (10)	23,529 (4)