

Online Suppl. Table 1. Comparison between AD Group t_0 (before vitamin D supplementation) and the C Group

	AD Group t_0	C Group	p
Vit D (ng/ml)	22.97 \pm 8.03	20.08 \pm 3.23	NS
SCORAD	46.13 \pm 15.68	0.00	<0.001
IL-2 (pg/ml)	8.22 \pm 7.39	0.08 \pm 0.03	<0.001
IL-4 (pg/ml)	9.01 \pm 7.05	3.11 \pm 6.99	0.02
IL-6 (pg/ml)	15.11 \pm 9.13	4.81 \pm 6.19	<0.001
IFN-γ (pg/ml)	20.05 \pm 22.84	0.05 \pm 0,05	0.005
TNF-α (pg/ml)	8.85 \pm 11.09	3.51 \pm 4.13	NS

Online Suppl. Table 2. Comparison between AD Group t₁ and C Group

	GROUP 1 t₁	CONTROLS	p
Vit D (ng/ml)	29.41 ± 10.73	20.08± 3.23	0.006
SCORAD	22.57 ± 15.28	0.00	<0.001
IL-2 (pg/ml)	1.24 ± 4.06	0.08 ± 0.03	NS
IL-4 (pg/ml)	1.36 ± 4.26	3.11 ± 6.99	NS
IL-6 (pg/ml)	6.81 ± 9.60	4.81 ± 6.19	NS
IFN-γ (pg/ml)	0.19 ± 0.79	0.05 ± 0.05	NS
TNF-α (pg/ml)	2.33 ± 4.27	3.51 ± 4.13	NS

Online Suppl. Table 3. Description of the group affected by AD (AD Group t₀); values are expressed as mean \pm standard deviation (SD)

Features	Mean \pm SD
Total	39
Males	24 (61.5%)
Females	15 (38.5%)
Age (years)	4 \pm 3.15
Total IgE (kU/L)	576.22 \pm 1255.96
Eosinophils (%)	4.36 \pm 3.65
ECP (U/ml)	124.01 \pm 175.16

Online Suppl. Table 4. Results after vitamin D supplementation (AD Group t₀ vs AD Group t₁)

	AD Group t₀	AD Group t₁	p
Vit D (ng/ml)	22.97 ± 8.03	29.41 ± 10.73	0.010
SCORAD	46.13 ± 15.68	22.57 ± 15.28	<0.001
IL-2 (pg/ml)	8.22 ± 7.39	1.24 ± 4.06	<0.001
IL-4 (pg/ml)	9.01 ± 7.05	1.36 ± 4.26	<0.001
IL-6 (pg/ml)	15.11 ± 9.13	6.81 ± 9.60	0.007
IFN-γ (pg/ml)	20.05 ± 22.84	0.19 ± 0.79	0.019
TNF-α (pg/ml)	8.85 ± 11.09	2.33 ± 4.27	NS