

IL-4 **D** **TGF- 1**
D-

EFFECT OF VITAMIN D LEVELS OF CYTOKINES TGF- 1 AND IL-4 IN THE CULTURE MEDIUM OF KERATINOCYTES CELL CULTURE OF PATIENTS WITH PSORIASIS AND D-DEFICIENCY
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SUMMARY

The inhabitants of the Crimean region suffering from cutaneous psoriasis, vitamin D was studied in the autumn-winter period (October-February). It is established that the D-deficiency in patients with psoriasis is a risk factor for the growth of the local imbalance (at the level of the skin) proinflammatory cytokine potential (TGF- 1 and IL-4), characterized by increased synthesis of the active form of TGF- 1 and decreased synthesis of IL-4 induced keratinocytes. Found differential effects of vitamin D (24,25 (OH) 2D3) on the synthesis of the active form of TGF- 1 in patients with psoriasis, depending on the level of 25 (OH) D3 in the systemic circulation and reaching statistically significant values in patients with a level of 25 (OH) D3 in serum <10 ng / ml (D-deficiency). In patients with psoriasis with a D-deficiency in the culture experiments revealed vitamin D-dependent decrease in the synthesis of the active form of TGF- 1 keratinocytes. These facts are regarded as a pathophysiological rationale for therapeutic correction of D-deficiency to reduce the local (skin tissue) cytokine imbalance in patients with psoriasis in the autumn-winter period (October-February).

D **TGF- 1 IL-4** **D-**

D - (' -). (, D-)

(TGF- 1 IL-4), TGF- 1 TGF- 1

(24,25 (OH) 2D3) IL-4 , D

D3 <10 / (D-). D- 25 () D3

D- (- ()) TGF- 1

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D, , , -

13]. , , , [3, 4, 5, 12, () ,

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D [2, 6, 10]. -

, , D

(1999) [1, 11].

II (Roche Diagnostics GmbH Mannheim,) 0,5 %
 (« » , -)
in vitro 0,2% 4 ,
 D TGF- 1 IL-4
 - 0,125 %
 D- 0,02 % (« » , -)
 10 37 .
 31 1000 g 35 ,
 (DMEM (Dulbecco's Modified Eagle Medium) F 12 (3:1).
) 1- 14 D
 25()D₃->40 / ,2- (1,25 (OH)₂D₃-
 D- 24,25(OH)₂D₃ (Sigma-Aldrich,) ,
 25()D₃ [11])
 (EGF) (Sigma-Aldrich,)
 D 25- ELISA IL-1 TNF- .
 (Immunodiagnostik, Bensheim,) TGF- 1
 «TGF 1 E_{max}[®] ImmunoAssay System»
 (0,5) , (Promega,) . IL-4
 ProCon «
 » () .
 Rheinwald J.G. (1980),

D (24,25(OH)₂D₃) IL-4 TGF- 1
 D- *in vitro* (EGF) , /

			IL-4	TGF- 1
1- (25()D ₃ - >40 /)	1 ()	M ± m n p	3,7 ± 0,3 14 -	179,1 ± 5,3 14 -
	2 (24,25(OH) ₂ D ₃)	M ± m n p	3,6 ± 0,4 14 > 0,5	165,4 ± 5,4 14 < 0,1
2- (D- 25()D ₃ < 10 /)	1 ()	M ± m n p 1	2,9 ± 0,2 17 - < 0,05	219,0 ± 6,2 17 - < 0,001
	2 (24,25(OH) ₂ D ₃)	M ± m n p 1	3,1 ± 0,3 17 > 0,5 < 0,5	190,3 ± 5,5 17 < 0,001 < 0,01

