A preliminary study of the difference in expression of T helper cells on peripheral blood lymphocytes in asthmatic children under steroid therapy

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slllJll!lfQ' •••• ~ummaO'This study was designed to determine the T-helper cell subsets insevere asthmatic children and 'to evaluate the effect of treatment withprednisolon for one week on it and on calculated Th1ITh2 ratioThe study included 20 patients with severe asthma considered asstudy group and 10 healthy children of cross-matched age and sex andgave blood sample considered as control samples. After through clinical examination, chest X-ray examination, routine laboratory investigationincluded complete picture blood and ervthrocvte sedimentation rate.:All the study participants g. ave two. samples:.pre-treatment -..t'" day after treatment (Post-treatment) onthe -cytometricdetermination of T-helper cell subsets; namely: Pre-T-helper cell (Tho),T helper cell type 1 (Th1), T-helper cell type 2. (Th2) and the ratio ofTh11Th2 • Eight patients were symptomatizing since birth, 4 patients at ageyounger than one year, in other 4 patients at age of one year and in 2 patients at age of 2 years; while in the other 2 patients disease 'waspresented at age of 4 years. Only one patient (5%) had disease duration of 3 years; while 12patients (60%) had mean disease duration of 7.7±0.8; range: 6.3-9 years and the other 7 patients (35%) had diseased since a meanduration of 12.3±1.5; range: 10-14 years.--~---slllllllUfQ' -----In control group; no APC could be detected in 4 controls (40%)and other controls had 100-500 cells/cc; while another 5 patients had >500 APC cellsicc with asignificant increase of frequency of detection of APC in patientscompared to controls', (X2=9.15, P0.05) decrease compared to control levels. Furthermore, post-treatment samples showed a non-significant (P