



# Early effects of ultra-rush wasp-venom immunotherapy on the expression of CD25 on CD4+ T cells

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## Background

To date, early effects of specific immune therapy on the parameters of adaptive immune responses in hymenoptera venom allergic patients remain unclear.

## Aims

Therefore, in this pilot study, we aimed to evaluate early changes in the levels of CD25 expression within CD4+ T cells occurring in the course of ultra-rush wasp venom immunotherapy.

## Methods

To this end, ten wasp venom-sensitive patients subjected to ultra-rush immune therapy were recruited for the study. CD4+ T cells and CD25 expression were assessed before the start of treatment, 24 h later and on day 120 with the use of monoclonal antibodies directed at CD4, CD25 (IL-2 receptor) by the means of multi-color flow cytometry.

## Results

We have demonstrated non-significant decrease in the intensity of CD25 expression on the surface of CD4+ T cells at day 1 but not day 120 of specific immune therapy.

## Conclusions

Our study suggests that putative early immunosuppressive mechanisms of SIT are not related to dramatic changes in the expression of CD25 on CD4+ T cells.

Authors declare that there is no conflict of interests.