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Antiasthmatic Effect of Kankasava in OVA-Induced Asthma Mouse Model

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Abstract : The main object of this study was to evaluate the effect of kankasava on OVA-induced asthma in mouse model. Present study has demonstrated that kankasava exhibited an antiasthmatic effect by attenuated AHR and reducing level of IgE, IL-5, and IL-13, in both serum and BALF in OVA induced asthmatic mice. Effect of kankasav on airway responsiveness was obtained by monitoring the enhanced pen value . Kankasava significantly reduced AHR can be explained, in part, by reduction in both IgE overexoression and cytokine levels. Kankasava significantly decreased IL-4, IL-5, and IL-13 in BALF indicate that it may suppress the excess activity of T-cells and Th2 cytokines, which are implicated in the pathogenesis of allergic asthma, and consequently restore the Th1/Th2 imbalance of the immune system. In summary, we hypothesize that kankasava effectively suppressed elevations in IgE and cytokines levels, AHR, and mucus overproduction in mice with OVA-induced asthma suggested kankasava could be effective in immunological and pharmacological modulation of allergic asthma.

Keywords : asthma, ayurveda, kankasava, cytokine
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