

Immunomodulating Effect of Ingredient of PHYTOCEE® : *Ocimum sanctum*

OBJECTIVE

To investigate the effect of aqueous extract of leaves of *Ocimum sanctum* on T and B lymphocytes.

MATERIALS AND METHODS

Wistar rats (100-120 mg) were used for in-vivo study. The rats were randomly divided into two groups with 10 rats in each group and administered with aqueous leaves extract of *Ocimum sanctum* at 250 mg/kg for 20 days in experimental group. While, in control group equal volume of water was given as placebo. 3 mL of blood was taken from each animal of both groups and after layering the blood over histopaque 1077, total lymphocytes were separated and counted. T and B lymphocytes were also separated and counted separately by heamocytometer.

RESULTS

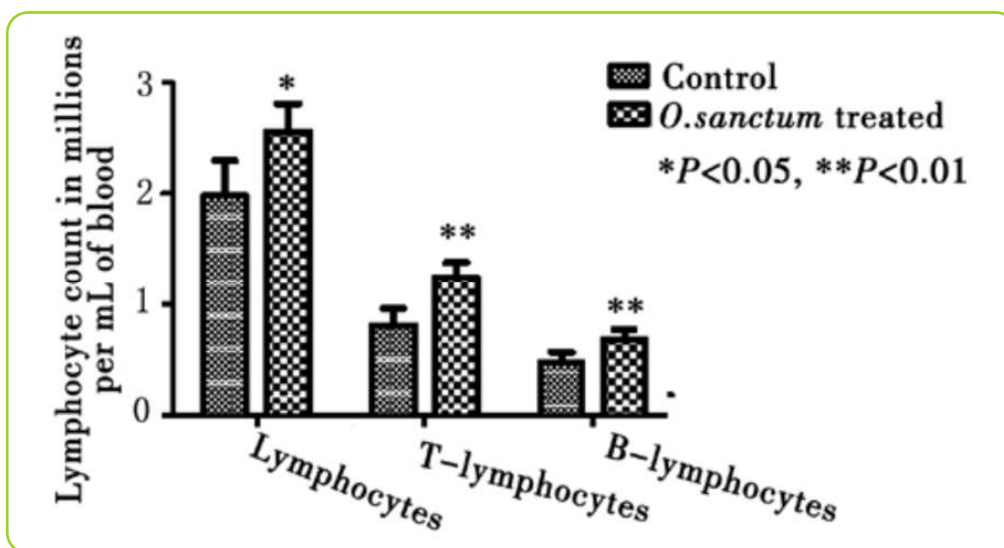


Figure: Effect of *Ocimum sanctum* aqueous leaves extract on total lymphocytes and T and B lymphocytes concentrations in blood

CONCLUSIONS

The study findings revealed that the rats treated with *Ocimum sanctum* leaves extract resulted in augmentation of T & B lymphocytes concentrations by approximately 25%.

OUTCOME

Hence, *Ocimum sanctum* exhibited immunomodulating property.

Reference:

Goel A, Singh DK, Kumar S *et al.* Immunomodulating property of *Ocimum sanctum* by regulating the IL-2 production and its mRNA expression using rat's splenocytes. Asian Pac. J. Trop. Med. 2010;3(1):8-12.