

## **Mast cell stabilization potential of Sitopaladi churna: An ayurvedic formulation**

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### **ABSTRACT**

**Background** Sitopaladi churna (SPC) is a popular polyherbal ayurvedic formulation used in the treatment of allergy and respiratory diseases. **Objective** The present study was aimed to justify the classical use of antiallergic claim by performing the mast cell stabilizing activity of extracts of SPC. **Materials and Methods** The protective effect of aqueous extract and methanolic extract - of SPC against compound 48/80-induced mast cell degranulation model was carried out. **Results** Sitopaladi churna aqueous extract (SPCA) at the dose of 300 mg/kg and Sitopaladi churna methanolic extract (SPCM) at the doses of 150 and 300 mg/kg showed better protection of mast cell degranulation (65%-74%) and were comparable to the standard drug ketotifen (79%), when peritoneal mast cells were treated with compound 48/80. The protection against mast cell degranulation was significant ( $P < 0.0001$ ). **Conclusion** From the above results, it has been justified that SPC can be used to treat allergic disorders.

### **KEYWORDS**

Compound 48/80 . mast cell stabilizing . Sitopaladi churna

### **REFERENCES**

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