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(57) Abstract :

The present invention discloses a synergistic composition of two therapeutic compounds Scopolamine (for treatment of nausea, vomiting and post-operative sickness) and drug Venlafaxine (for the treatment of depression) in specific optimal ratio of 100:1 which is beneficial for treatment of drug resistant depression, without undesirable effects. Scopolamine thus acts as a potency enhancing agent for enhancing the potency of existing anti-depressant drugs without adverse effects. Behavioral studies in mice indicated that combination of Scopolamine and Venlafaxine showed synergistic hyper-additive antidepressant effect, which significantly ($P < 0.0001$) decreased the immobility time and had no detrimental effect on memory thus providing a potent therapeutic combination for treatment of drug resistant depression.

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