

Topic: Curcumin in the Treatment of Pain and Depression

By VistaSearch Summary #48704

Keywords: CHRONIC PAIN, DEPRESSION, MIND-BODY - Curcumin, Turmeric

Reference: *“Curcumin ameliorates reserpine-induced pain-depression dyad: Behavioural, biochemical, neurochemical and molecular evidences,”* Arora V, Kuhad A, et al, *Psychoneuroendocrinology*, 2011 May 23; [Epub ahead of print]. (Address: Pharmacology Research Laboratory, University Institute of Pharmaceutical Sciences, UGC Centre of Advanced Study, Panjab University, Chandigarh 160 014, India. E-mail: dr_chopra_k@yahoo.com).

Summary: In a study involving rats induced with “pain-depression” via reserpine (which led to a significant decrease in nociceptive threshold, decreases in biogenic amine levels (dopamine, norepinephrine, and serotonin), and increased substance P, nitroductive stress, inflammatory cytokines), administration of curcumin (100, 200 300 mg/kg; ip) was found to be associated with dose-dependent ameliorations in the behavioral deficits associated with pain and depression, by restoring behavioral, biochemical, neurochemical, and molecular alterations in the rats. These results suggest that curcumin may play a role in treating pain and depression - two conditions that are so commonly found in the same patients. Additional research is warranted.