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Comparison between effects of curcumin and resveratrol with nortriptyline in reducing of depression signs and expression of NET and SERT in mice

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Depression is an important problem in psychiatry, involves many people especially in elderly. Although many developments in therapeutics but because of some serious adverse effect of chemical drugs, many efforts focused on herbal medicine. Curcumin (active ingredient of Curcumin Lunga) and resveratrol which extracted from some fruits as grape seeds, recently have been known with some antioxidant and neuroprotective properties, especially their preventive roles in depression have been shown in some studies but these informations are limited and some complementary studies are needed to assay more aspects of their pharmacological effects. For this aim we planned this study to assay anti-depressive effect of curcumin and resveratrol comparing with nortriptyline by swimming and tail-suspension tests and to assay expression of NET (Norepinephrine transporter) by immunohistochemistry. 48 bulb C mice divided to 6 groups of 8 and received (Nortriptyline, Resveratrol and curcumin, 10mg/kg for 21 days and then behavioral tests for depression have been done as Swimming, Tail suspension and locomotor activity tests. After mice killing their brain removed and sent for Real time-PCR using specific primers against NET and SERT. Our results have shown that curcumin and resveratrol have antidepressive effect comparing with nortriptyline and this effect for resveratrol was more considerable but synergism effect between curcumin and resveratrol have not been observed. and NET and SERT gene expression has been decreased in amygdala and frontal cortex areas of brains for all treating groups which were comparable with nortriptyline. According to these results we can suggest curcumin and especially resveratrol for anti-depressant combinational regimes with low adverse effects

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