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Themes :	بیولوژی اعتیاد
Title :	Ecstasy microinjection on spatial memory in male rats
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:	Background : 3, 4 -Methylenedioxymetamphetamine (MDMA, ecstasy) is an amphetamine derivative whose use has consistently increased over the last years. Ecstasy is a risk factor for earlier onset and/or more severe decline of age-related memory deficits in later years. Purpose: The purpose of this experiment was to investigate the effects of repeated exposure to MDMA on spatial memory. Material and method: 28 male wistar rats were randomly divided into 4 groups (n=7): Control group, sham group which was received saline (%0.9) and two ecstasy treated groups which was received ecstasy (1µg/µL, 0.2µg/µL) for 7 consecutive days. Characteristic of spatial memory was assessed using Morris water Maze for 5 consecutive days following the treatment period. Statistical analysis was performed using analysis of variance (ANOVA). Results: The results of the data analysis time, average length of time taken to reach the platform are significant differences between groups (P <0.05). The results of the data analysis showed that ecstasy treatment induces spatial memory deficits.
Keywords	Ecstasy, Hippocampus, Spatial memory.