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中药更年春(GNC)方对去势大鼠学习记忆能力及下丘脑神经递质的影响

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论著

Effect of Gengnianchun (GNC) formula on the ability of learning and memory and neurotransmitter of hypothalamus in ovariectomized rats

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目的 观察中药更年春方(Gengnianchun,GNC)对去势大鼠学习记忆能力及下丘脑内神经递质的影响。方法 分为两批实验,均选用3几龄 》把本文推荐给朋友 SD腓性大鼠,随机分为卵巢切除(ovariectomy,OVX)组、OVX+GNC组、OVX+戊酸雌二醇(estradiol valerate,E2)组、OVX组、 采用高效液和色谱法检测各组大鼠下丘脑内神经递质去甲肾上腺素(NE)、多巴胺(DA)、5-羟色胺(5 HT)和5-羟吲哚乙酸(5-HIAA)的水平。结果 第1批实验中OVX1组与Sham1组比较,学习记忆能力明显减退(P<0.05);OVX1+GNC组、OVX1+ E2组与OVX1组比较,学习记忆能力明显减退(P<0.05)。第2批实验中,OVX2组与Sham2组上位能力明显减退(P<0.05)。第2批实验中,OVX2组与Sham2组上位能力明显减退(P<0.05)。第2批实验中,OVX2组与Sham2组上的 比较,NE、DA含量可显减少(P<0.05),5-HT、5-HIAA含量可显增加(P<0.05);OVX2+GNC组、OVX2+ E2组与OVX2组比较,NE、 DA含量则显增加(P<0.05),5-HT、5-HIAA含量则显减少(P<0.05);Sham2+GNC组与Sham2组比较,NE、DA、5-HT、5-HIAA之间 无明显差异(P>0.05)。结论 GNC具有提高去势大鼠学习记忆能力的作用,并可维持下丘脑内神经递质的平衡,但未出现卵巢功能衰退则 不宜补充GNC。

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关键词: 更年春(GNC)中药, 去势大鼠, 学习记忆能力, 神经递质

Abstract:

Objective To study the effect of Gengnianchun formula (GNC) on learing and neurotransmitter of hypothalamus in ovariectomized rats.Methods The study included 2 experiments.Three-month old SD rats were randomized into OVX group,OVX+GNC group,OVX+ estradiol valerate (E2) group,sham operation (Sham) group and Sham+GNC group.The 5 experiment lasted for 3 months, and changes of learning memory ability were tested by Morris water maze. The 2nd one lasted for 1 month, and the level of neurotransmitter in hypothalamus (NE,DA,5-HT,5-HIAA) were measured by high-performance liquid chromatography (HPLC). Results In the first experiment, ovariectomy, the learning and memory ability of OVX1 group and sham1+GNC group was markedly decreased compared with rats in Sham1 group (P< 0.05). While in OVX1+GNC and OVX1+E 2 group, the learning and memory was improved markedly compared with OVX1 group (P<0.05).In the second experiment,NE and DA level in hypothalamus were decreased markedly,but 5-HT and 5-HIAA level in hypothalamus were markedly improved in OVX2 group than in sham2 group (P<0.05).NE and DA level in hypothalamus were improved, and 5-HT and 5-HIAA level in hypothalamus were decreased in OVX2+GNC and OVX2+E 2 group compared with OVX2 group (P < 0.05). But no significant change was observed in neurotransmitters level in hypothalamus between Sham2 group and Sham2 +GNC group.Conclusions GNC can improve the ability of learning and memory, and regulate the disorderly neurotransmitter in hypothalamus. But the rats without ovarian failure are not suit for GNC.

Key words: Gengnianchun (GNC) formula ovariectomized rat learning and memory ability hypothalamus neurotransmitter

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