

本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论著

齐拉西酮与奥氮平对首发精神分裂症患者糖脂代谢的影响

邵平^{1,2}, 欧建君³, 吴仁容³, 房茂胜⁴, 陈红辉⁴, 许毅⁵, 赵靖平³

1. 湖南省脑科医院神经内科,长沙 410007;
2. 湖南中医药大学临床医学院,长沙 410007;
3. 中南大学湘雅二医院精神卫生研究所,长沙 410011;
4. 武汉市精神卫生中心,武汉 430022;
5. 浙江大学医学院附属第一医院精神科,杭州 310003

摘要:

目的: 比较齐拉西酮和奥氮平对首发精神分裂症患者糖脂代谢的影响。方法: 260名患者随机分为齐拉西酮组和奥氮平组,治疗观察6周。测量患者基线、第2周末、第4周末和第6周末时体质量,并计算体质量指数。基线和治疗终点时采集空腹血测量空腹血糖、空腹胰岛素、高密度脂蛋白、胆固醇和三酰甘油,并计算胰岛素抵抗指数,部分患者检测了治疗前后的低密度脂蛋白。结果: 共有245名患者完成研究,齐拉西酮组121例,奥氮平组124例。齐拉西酮剂量137.5 mg/d,奥氮平剂量19.5 mg/d。治疗6周末,奥氮平组[(4.55±3.37) kg]的体质量增加显著高于齐拉西酮组[(-0.83±2.05) kg, $P<0.001$]。与基线比较,治疗6周末奥氮平组空腹血糖、空腹胰岛素、高密度脂蛋白、总胆固醇、三酰甘油、低密度脂蛋白及胰岛素抵抗指数明显升高(均 $P<0.001$);而齐拉西酮组空腹血糖明显降低,高密度脂蛋白和三酰甘油明显升高(均 $P<0.05$)。治疗前后空腹血糖、空腹胰岛素、总胆固醇、三酰甘油、低密度脂蛋白及胰岛素抵抗指数的变化值在2组间的差异均具有统计学意义(均 $P<0.001$)。结论: 齐拉西酮在短期内对未用药的首发精神分裂症患者的糖脂代谢影响较小,而奥氮平会显著增加体质量和引起糖脂代谢紊乱,从而增加各类并发症的风险。因此,在临床用药选择时需慎重考虑药物可能存在的不良反应。

关键词: 齐拉西酮 奥氮平 精神分裂症 体质量 糖脂代谢

Effects of ziprasidone and olanzapine on glucose and lipid metabolism in first-episode schizophrenia

SHAO Ping^{1,2}, OU Jianjun³, WU Renrong³, FANG Maosheng⁴, CHEN Honghui⁴, XU Yi⁵, ZHAO Jingping³

1. Department of Neurosis, Brain Hospital of Hunan Province, Changsha 410007;
2. Clinic Medical College, Hunan University of Chinese Medicine, Changsha 410007;
3. Mental Health Institute, Second Xiangya Hospital, Central South University, Changsha 410011;
4. Mental Health Center of Wuhan, Wuhan 430022;
5. Department of Psychiatry, the First Hospital, Zhejiang University, Hangzhou 310003, China

Abstract:

Objective: To investigate the effect of ziprasidone and olanzapine on glucose and lipid metabolism in first-episode schizophrenia.

Methods: A total of 260 schizophrenics were assigned randomly to receive ziprasidone or olanzapine for 6 weeks. The weight was measured at baseline, week 2, 4 and 6. Fasting blood glucose (FBS), fasting insulin, high-density lipoprotein (HDL), total-cholesterol (TC) and triglycerides (TG) were measured at baseline and the end of 6-week treatment. Low-density lipoprotein (LDL) was measured in some patients at baseline and the end of 6-week treatment. Body mass index (BMI) and insulin resistance index (IRI) were counted.

Results: A total of 245 patients completed the trial, including 121 ziprasidone patients and 124 olanzapine patients. The average dose was 137.5 mg/d for ziprasidone and 19.5 mg/d for olanzapine. Patients treated with olanzapine had higher weight gain than those treated with ziprasidone [(4.55±3.37) kg vs (-0.83±2.05) kg, $P<0.001$]. After the treatment, FBS, fasting insulin, HDL, TC, TG, LDL and IRI levels were significantly increased in the olanzapine group (all P values <0.001). However, in the ziprasidone group, FBS decreased significantly and HDL and TG levels increased significantly after the 6-week treatment (all P values <0.05). The mean changes of FBS, fasting insulin, TC, TG, LDL and IRI were significantly different in the two groups (all P values <0.001).

Conclusion: Ziprasidone has less glucose and lipid metabolic effect for first-episode schizophrenia patients in short-term treatment. However, olanzapine induces weight gain and dysfunction of glucose and lipid metabolism significantly, which is associated with increased risk of complications. When the doctors choose antipsychotics in the clinic, they should consider the side effects of the medication.

Keywords: ziprasidone olanzapine schizophrenia weight metabolism

扩展功能

本文信息

► Supporting info

► PDF(1056KB)

► [HTML全文]

► 参考文献[PDF]

► 参考文献

服务与反馈

► 把本文推荐给朋友

► 加入我的书架

► 加入引用管理器

► 引用本文

► Email Alert

► 文章反馈

► 浏览反馈信息

本文关键词相关文章

► 齐拉西酮

► 奥氮平

► 精神分裂症

► 体质量

► 糖脂代谢

本文作者相关文章

► 邵平

► 欧建君

► 吴仁容

► 房茂胜

► 陈红辉

► 许毅

► 赵靖平

PubMed

► Article by SHAO Ping

► Article by OU Jianjun

► Article by WU Renrong

► Article by FANG Maosheng

► Article by CHEN Honghui

► Article by XU Yi

► Article by ZHAO Jingping

基金项目:

2009年教育部博士点基金(20090162110012)。

通讯作者: 赵靖平,Email: zhaojingpingcsu@163.com

作者简介: 邵平,硕士,主治医师,主要从事生物精神病学的研究。

作者Email: zhaojingpingcsu@163.com

参考文献:

1. Leucht S, Leucht S, Leucht S, et al. Relapse prevention in schizophrenia with new-generation antipsychotics: a systematic review and exploratory meta-analysis of randomized, controlled trials [J]. Am J Psychiatry, 2003, 160(7): 1209-1222.
2. Allison DB, Mentore JL, Heo M, et al. Antipsychotic-induced weight gain: a comprehensive research synthesis [J]. Am J Psychiatry, 1999, 156(11): 1686-1696.
3. Simpson GM, Glick ID, Weiden PJ, et al. Randomized, controlled, double-blind multicenter comparison of the efficacy and tolerability of ziprasidone and olanzapine in acutely ill inpatients with schizophrenia or schizoaffective disorder [J]. Am J Psychiatry, 2004, 161(10): 1837-1847.
4. Brown RR, Estoup MW. Comparison of the metabolic effects observed in patients treated with ziprasidone versus olanzapine [J]. Int Clin Psychopharmacol, 2005, 20(2): 105-112.
5. Breier A, Berg PH, Thakore JH, et al. Olanzapine versus ziprasidone: results of a 28-week double-blind study in patients with schizophrenia [J]. Am J Psychiatry, 2005, 162(10): 1879-1887.
6. Simpson GM, Weiden P, Pigott T, et al. Six-month, blinded, multicenter continuation study of ziprasidone versus olanzapine in schizophrenia [J]. Am J Psychiatry, 2005, 162(8): 1535-1538.
7. Grootens KP, Van Veelen NM, Peuskens J, et al. Ziprasidone vs Olanzapine in recent-onset schizophrenia and schizoaffective disorder: results of an 8-week double-blind randomized controlled trial [J]. Schizophr Bull, 2011, 37(2): 352-361.
8. Komossa K, Rummel-Kluge C, Hunger H, et al. Olanzapine versus other atypical antipsychotics for schizophrenia [J]. Cochrane Database Syst Rev, 2010(3): CD006654.
9. Komossa K, Rummel-Kluge C, Hunger H, et al. Ziprasidone versus other atypical antipsychotics for schizophrenia [J]. Cochrane Database Syst Rev, 2009(4): CD006627.
10. Rummel-Kluge C, Komossa K, Schwarz S, et al. Head-to-head comparisons of metabolic side effects of second generation antipsychotics in the treatment of schizophrenia: a systematic review and meta-analysis [J]. Schizophr Res, 2010, 123(2/3): 225-233.
11. Cromwell WC, Ottos JD, Keyes MJ, et al. LDL Particle number and risk of future cardiovascular disease in the framingham offspring study-implications for LDL management [J]. J Clin Lipidol, 2007, 1(6): 583-592.
12. Ip S, Lichtenstein AH, Chung M, et al. Systematic review: association of low-density lipoprotein subfractions with cardiovascular outcomes [J]. Ann Intern Med, 2009, 150(7): 474-484.
13. Preiss D, Sattar N. Lipids, lipid modifying agents and cardiovascular risk: a review of the evidence [J]. Clin Endocrinol (Oxf), 2009, 70(6): 815-828.
14. Hoffmann VP, Case M, Stauffer VL, et al. Predictive value of early changes in triglycerides and weight for longer-term changes in metabolic measures during olanzapine, ziprasidone or aripiprazole treatment for schizophrenia and schizoaffective disorder post hoc analyses of 3 randomized, controlled clinical trials [J]. J Clin Psychopharmacol, 2010, 30(6): 656-660.

本刊中的类似文章

1. 肖志杰; 李秋香; 王小清; 周甲农;.慢性老年精神分裂症患者认知功能及其与日常生活能力的比较研究[J].中南大学学报(医学版), 2002,27(5): 459-
2. 肖松舒 薛敏 邓新粮 万亚军.

多囊卵巢综合征患者腹腔液瘦素水平与有关内分泌激素的关系

[J]. 中南大学学报(医学版), 2006, 31(05): 786-791

3. 李乐华, 吴仁容, 赵靖平.脂联素基因+45T/G 和+276G/T多态性与抗精神病药物所致体重质量增加[J]. 中南大学学报(医学版), 2009, 34(08): 693-696
4. 房茂胜1, 2, 李乐华2, 赵靖平2, 陈红辉1, 叶萌1, 国效峰2, 陆铮3, 孙学礼4, 王传跃5, 谢世平6, 胡斌7, 郭田生8, 马崔9, 汪波10, 吕路线11, 刘娜3, 邓红4, 陈琦5, 尚晓芳6, 龚发金7, 张喜艳8, 何小林9, 周建初10, 张迎黎11. 抗精神病药物对精神分裂症患者

生活质量影响的1年随访研究

- [J]. 中南大学学报(医学版), 2009,34(09): 850-855
5. 张红, 刘玮, 叶爱玲, 赵勤, 罗湘杭, 廖二元. 绝经后女性血清睾酮与瘦体质量、体脂和骨密度的关系 [J]. 中南大学学报(医学版), 2009,34(10): 998-1002
6. 王育红1, 李文强2, 黄照1, 石玉中2, 王绪轶1, 黄劲松1, 周旭辉1, 谌红献1, 郝伟1. 中国首次发作的精神分裂症患者5-HT2A受体基因多态性与阴性症状的关系 [J]. 中南大学学报(医学版), 2008,33(04): 293-298
7. 牟晓冬1, 张志珺1, 张向荣2, 史家波2, 孙静2. 瘦素基因启动子区-2548G/A功能多态性与抗精神病药源性肥胖的核心家系关联研究 [J]. 中南大学学报(医学版), 2008,33(04): 316-320
8. 邵平, 赵靖平, 陈晋东, 吴仁容, 何益群. 5-羟色胺2C受体基因-759C/T和-697G/C多态性与抗精神病药物所致体质量增加的关联 [J]. 中南大学学报(医学版), 2008,33(04): 312-315
9. 赵志梅1, 杨琳2, 崔斌3. 新生儿呼吸窘迫综合征X线表现与临床分析 [J]. 中南大学学报(医学版), 2007,32(06): 1069-1074
10. 周炳1, 谭长连1, 唐劲松2, 陈晓岗2. 早发性精神分裂症脑功能连接的功能磁共振 [J]. 中南大学学报(医学版), 2010,35(1): 17-24
11. 蒋少艾1, 周炳2, 廖艳辉1, 刘卫青1, 谭长连2, 陈晓岗1, 唐劲松1. 基于fMRI的早发精神分裂症患者静息态脑活动的局部一致性初步研究 [J]. 中南大学学报(医学版), 2010,35(9): 947-
12. 刘勇, 唐亚梅, 蒲唯丹, 张向晖, 赵靖平. MK-801诱导的精神分裂症发育模型大鼠脑组织DA, DOPAC, Glu和GABA浓度的变化 [J]. 中南大学学报(医学版), 2011,36(8): 712-719
13. 吴仁容, 赵靖平, 邵平, 欧建君, 常麦会. 抗精神病药物所致体质量增加的遗传易感基因 [J]. 中南大学学报(医学版), 2011,36(8): 720-723
14. 国效峰, 张展筹, 朱薇薇, 连楠, 吕海龙, 赵靖平. 伴与不伴糖尿病的精神分裂症认知功能的比较 [J]. 中南大学学报(医学版), 2011,36(8): 724-727
15. 蔡溢, 匡卫平, 郭田生, 黄红星, 邬志美, 周彬, 朱勇, 陈小峰, 李波, 谌红献. 脑立体定向术治疗难治性精神分裂症的远期疗效 [J]. 中南大学学报(医学版), 2011,36(9): 876-880

Copyright by 中南大学学报(医学版)