Dostinex® and Obsessive Compulsive Disorder

Abstract

Obsessive Compulsive Disorder (OCD) related to cabergoline Dostinex® gold is one of the uncommon side effects of this product often passing unnoticed. Because it is quite unknown. It usually regressed completely Call after-stopping or decreasing Dostinex® and the establishment of a symptomatic treatment. The pathophysiology remains unknown but it appears that this requirement may be due to dysregulation of neurotransmitters serotonin and dopamine. Primarily in the central nervous system.

We report the case of an 18 year old patient who presented a secondary OCD in decision Dostinex® for treatment of a prolactinoma. This side effect was retained accountability following the study by the department of Pharmacology and Pharmacovigilance. The patient received a dose then reduction of cabergoline, a psychiatric consultation with initiation of antidepressant therapy: sertraline (most of the family of selective serotonin reuptake inhibitors of). The evolution was marked by the remission of symptoms.

Keywords: Obsessive compulsive disorder; Cabergoline; Dostinex®; Pharmacovigilance

Introduction

Obsessive compulsive disorder secondary to the administration of cabergoline or Dostinex® is rare but serious because it adversely affects the personal and social life of the individual. In literature, forms of compulsive behavior are mentioned especially pathological gambling, compulsive shopping and hypersexuality, so that through our observation we will illustrate another form of compulsive disorder related to cabergoline, that of cleanliness that unlike gambling and compulsive shopping brings no pleasure, since it is associated with the obsession with dirt.

The ignorance of this type of adverse effects of cabergoline may lead to serious complications (depression, alcoholism, academic or professional failure . . .) or downright risky behaviors like suicide attempt. And patient observation: Mrs. HN, aged 18, housewife, married with a child, has consulted for anxiety and anxiety related dirt obsessions, compulsions associated with repetitive washing her body type and his clothes several times a day. The patient also acknowledged that his behavior and his ideas are irrational, disproportionate and odd, but she was unable to do otherwise. In this history, the patient was followed in our service to macroadenoma 10x7mm prolactin, a complicated hypogonadism hypogonadism and an adrenocorticotrophic deficiency chronic headache without visual impact, turning on Dostinex® cabergoline 0.5mg / week. The evolution after six months of treatment was marked by the gradual onset of the above symptoms cited motivating symptomatic treatment based on magnesium by a general practitioner. Three months and again later before the non-improvement of its symptoms the patient decided to consult our training. Clinical examination during the interview with the patient helped highlight obsessive compulsive disorder indices and annoying impact the daily life of the patient and hinder access to normal social life. In fact, the patient became all the time stressed and anxious that put him and his family in a true suffering. The remainder of the physical examination was normal including no galactorrhea or abnormalities on neurologic examination. We also noted the improvement of headache, and the recovery of gonadal function and adrenocorticotropic under cabergoline. The realized laboratory tests found a control prolactin levels to 20 ng / ml (5-29.4).

By analyzing the picture presented by the patient we spoke obsessive compulsive drug-induced disorder (cabergoline). The accountability study which was carried out by the Pharmacology and Pharmacovigilance service confirmed the drug-induced OCD.

The therapeutic management has been to decrease the dose of cabergoline to 0.25 mg/week and a psychiatric opinion the patient has benefited from the initiation of antidepressant treatment (sertraline PC 50mg / day). The evolution to a month later, was marked by a remission of clinical symptoms, with normal levels of the control of serum prolactin.

Discussion

The Obsessive Compulsive Disorder (OCD) is probably the anxiety disorder most serious and the most incapacitating. It is characterized by the presence of recurrent obsessions behind an often severe anxiety and great pain that the subject seeks to reduce by using various strategies neutralizing called compulsions. OCD appears to be due to an overactive several brain circuits, including basal ganglia involved in behavior and motor skills, or the anterior cingulate cortex and the orbitofrontal cortex, more involved in managing motions. This hyperactivity could be explained by the action of certain neurotransmitters such as serotonin, dopamine or vasopressin. Moreover, this principle is the pathophysiologic therapeutic management. It is made based on antidepressants acting specifically on serotonin reuptake.
Cabergoline is a dopamine agonist (DA) D2 derived from ergot with a powerful inhibitory activity and prolonged secretion of prolactin. It acts by direct stimulation of dopamine-D2 receptors on pituitary lactotrophs, inhibiting prolactin secretion. It is a high affinity for the D2 receptor which makes it better tolerated than bromocriptine. Available data in humans confirm the experimental observations in animals indicating that the test compound has a highly selective activity without effect on basal secretion of other pituitary hormones [1,2]. Obessive compulsive disorder (OCD) is a rare but serious side effects that can result from cabergoline. The most common side effects are nausea, vomiting, headache, dizziness, and heart valve disease, rarely hypotension or discomfort, and more rarely mastodynia, hot flushes, depression and paresthesia [3,4].

Dostinex® is indicated for the treatment of idiopathic hyperprolactinemia and hyperprolactinemia related to the presence of a pituitary microadenomas or macroadenoma [5]. In practice, the initial dose is 0.5 mg per week in a single take. This dosage of 0.5 mg per week will be maintained for 4 weeks then adapted according to prolactin. After equilibration of dosage, a quarterly dosing prolactin proves sufficient [6,7]. The particularity of our observation is the fact that our patient was put under cabergoline for his prolactinoma later, she presented as a side effect OCD whose theme was never reported in the literature. In fact in a study published by the SLOVAKIA neurology service team in 2011 on 20 patients followed for pituitary adenoma mainly prolactinomas, two (10%) of 20 subjects developed compulsive behavior disorders, the first patient was a 35 year old male with macro prolactinoma which was in turn treated with various types of AD (cabergoline, bromocriptine and quinagolide). He developed compulsive eating and gambling. The second patient is a 53 year old man with macroprolactinoma who suffered from severe hypersexuality after administration of cabergoline [8].

In the case reported by St George’s University in 2014, about a patient treated for hyperprolactinemia with weekly doses of cabergoline for 12 years. During this period, she had suffered from binge eating and compulsive buying what sounds on its weight and its financial position [9]. The same finding was made but this time in a 55 years old patient followed for idiopathic Parkinson’s disease who developed three changes in behavior in combined therapy with selegiline, cabergoline and levodopa. These behaviors included coexisting severe pathological gambling, hammering and a new skill that of poetry with published books [10].

Conclusion

In the case we reported, the TOC was secondary to cabergoline, which induced dopamine and serotonin hypotalamic disorder. Remission of OCD to the reduction of cabergoline dose and after 01 months of treatment with 50mg sertraline cp/d, confirmed the diagnosis of obsessive compulsive disorder secondary to cabergoline.

References

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