Reviewer's report

**Title:** Dopaminergic therapy-related impulse control behaviors in restless legs syndrome

**Version: 1 Date:** 19 September 2010

**Reviewer:** Angelo Antonini

**Reviewer's report:**

The authors investigated prevalence of ICD (or ICBs) in a cohort of RLS patients using a structured interview. Results are relevant considering the limited amount of data on the behavioral effect of dopaminergic medications in RLS patients. However, there are number of issues the authors should list as limitation for their study (Major revisions)

Because no non-PD controls were included, the authors cannot establish a definite relationship with medications. Therefore the title should be changed to reflect what the authors have been able to assess in their study. I suggest “Frequency of ICD/ICB in RLS”.

In addition I’m not convinced these disturbances are more frequent than in non-PD controls. Two reports from Italy (Isaias Mov Disord 2008, Cilia Arch Neurol 2009) suggest that this is not the case. The situation here is different from PD where dopaminergic medications replace endogenous striatal dopamine.

There are no data on dose of dopaminergic medications. What about other medications used to treat RLS like clonazepam or gabapentin?

Depression was not assed although this is likely to be relevant to the development of ICB (see Siri J Neurol 2010)

Cognition was not evaluated and this should be mentioned

There is no indication on what happened to patients after ICB diagnosis, in particular to those with pathological gambling. Were medications stopped?

(Minor revision)

Tables were not properly uploaded.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I have no competing interests