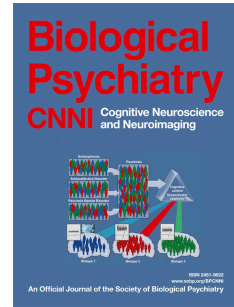


Accepted Manuscript

Visual hallucinations are characterised by impaired sensory evidence accumulation:
Insights from hierarchical drift diffusion modelling in Parkinson's disease

Claire O'Callaghan, Julie M. Hall, Alessandro Tomassini, Alana J. Muller, Ishan C.
Walpola, Ahmed A. Moustafa, James M. Shine, Simon J.G. Lewis



PII: S2451-9022(17)30091-5

DOI: [10.1016/j.bpsc.2017.04.007](https://doi.org/10.1016/j.bpsc.2017.04.007)

Reference: BPSC 154

To appear in: *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*

Received Date: 25 February 2017

Revised Date: 30 March 2017

Accepted Date: 23 April 2017

Please cite this article as: O'Callaghan C., Hall J.M., Tomassini A., Muller A.J., Walpola I.C., Moustafa A.A., Shine J.M. & Lewis S.J.G., Visual hallucinations are characterised by impaired sensory evidence accumulation: Insights from hierarchical drift diffusion modelling in Parkinson's disease, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (2017), doi: 10.1016/j.bpsc.2017.04.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Visual hallucinations are characterised by impaired sensory evidence accumulation:**Insights from hierarchical drift diffusion modelling in Parkinson's disease**

Claire O'Callaghan^{1,2}, Julie M. Hall^{2,3}, Alessandro Tomassini⁴, Alana J. Muller², Ishan C. Walpola², Ahmed A. Moustafa³, James M. Shine^{2,5} and Simon J. G. Lewis²

Institutions

¹Department of Psychiatry and Behavioural and Clinical Neuroscience Institute, University of Cambridge, Cambridge, UK

²Brain and Mind Centre, University of Sydney, Sydney, Australia

³School of Social Sciences and Psychology, Western Sydney University, Sydney, Australia

⁴Department of Clinical Neurosciences and Cognition and Brain Sciences Unit, University of Cambridge, Cambridge, UK

⁵School of Psychology, Stanford University, Palo Alto, CA, USA

Corresponding author:

Claire O'Callaghan

Herchel Smith Building for Brain & Mind Sciences, Cambridge Biomedical Campus,
Cambridge CB2 0SZ, UK

(+44) 1223-764420; co365@cam.ac.uk

Short title: Visual hallucinations in PD

Keywords: Visual hallucinations; Parkinson's disease; hierarchical drift diffusion model; top down; bottom up; perception; precision; Bayesian

Word count: 3997

Figures: 5 **Tables:** 1

Supplementary figures: 1

Download English Version:

<https://daneshyari.com/en/article/8814640>

Download Persian Version:

<https://daneshyari.com/article/8814640>

[Daneshyari.com](https://daneshyari.com)