nature portfolio

Corresponding author(s):	DBPR NPJPARKD-00791R
Last updated by author(s):	Oct 12, 2021

Reporting Summary

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

\sim			
T	ΔT	ICT	ורכ

For	all statistical ar	halyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a	Confirmed				
	The exact	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement			
	A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
	The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.				
	A description of all covariates tested				
	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.				
\times	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings				
\times	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes				
	Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i>), indicating how they were calculated				
	•	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.			
So	ftware an	d code			
Poli	cy information	about <u>availability of computer code</u>			
Da	ata collection	The software used for data collection was Medidata Rave, version 5.6.4.52, Medidata Solutions, Inc. www.mdsol.com			
Da	ata analysis	SAS version 9.4 (SAS Institute Inc., Cary, North Carolina)			
		g custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and			

Data

Policy information about <u>availability of data</u>

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

The datasets generated during and/or analyzed during the current study are available from Adamas Pharmaceuticals on reasonable request. Adamas Pharmaceuticals Inc will share study documents with qualified researchers who provide valid research questions. Requests should be directed to info@adamaspharma.com

Field-spe	cific reporting		
Please select the or	ne below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.		
∑ Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences		
For a reference copy of t	he document with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>		
Life scier	ices study design		
All studies must dis	close on these points even when the disclosure is negative.		
Sample size	Pooled analysis of previously published Phase 3 trials		
Data exclusions	No exclusions, except for the responder analyses in which participants who had 0 hours of OFF at baseline were excluded because there was no room for improvement (as noted in paper).		
Replication	Reproducibility is shown between EASE LID and EASE LID 3 which had similar results separately. This paper is a report of the pooled analysis.		
Randomization	ndomization procedures are fully described in the previous primary publications which are correctly referenced in this pooled analysis. Indomization in both double-blind trials was accomplished through an interactive web-based response system.		
Blinding	As noted in the paper, EASE LID and EASE LID 3 were both double-blind clinical trials. All patients, study site personnel, raters, the sponsor, and contract research organization staff were blinded to group assignment. EASE LID 2 was open-label.		
Reporting for specific materials, systems and methods We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response. Materials & experimental systems Methods			
	about studies involving human research participants		
	Population characteristics Participant characteristics are summarized in Table 1.		
Recruitment	Recruitment was at specialist sites and was primarily based on the presence of dyskinesia.		
Ethics oversight	Full ethics approval information is given in the prior primary publications. All three trials were conducted in compliance with the Declaration of Helsinki and International Conference on Harmonization (ICH) Good Clinical Practice (GCP) guidelines; all participating sites received institutional review board approval and all participants provided written informed consent before any procedures were performed.		
Note that full informa	tion on the approval of the study protocol must also be provided in the manuscript.		

Clinical data

Policy information about <u>clinical studies</u>

All manuscripts should comply with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.

Clinical trial registration NCT02136914, NCT02274766, NCT02202551

Study protocol Protocols for the previously published trials are available at clinicaltrials.gov and on request Data collection

EASE LID: May 7, 2014, and July 22, 2015 at 44 North American sites; EASE LID 3: 39 sites in the United States and Western Europe; EASE LID: 2 July 28, 2014, and March 10, 2016 at 67 sites in the United States and Western Europe

Outcomes

This was a pooled analysis of OFF time in the double-blind trials, which was prospectively collected in home diaries as a key secondary outcome measure. The MDS-UPDRS and CGI-C were also secondary outcomes. The MDS-UPDRS was the only PD rating instrument in the open-label trial, with MDS-UPDRS Part IV (items 4.1- 4.6) being the principal assessment of motor complications.