Ref: JAD\_2015\_1343

Title: Mood and Neuropsychological Effects of Different Doses of Ketamine in Electroconvulsive Therapy for Treatment-resistant Depression

Journal: Journal of Affective Disorders

Overall I am satisfied with the way in which the authors have addressed my comments and hightly recommend accepting the paper pending few minor changes.

- The authors provide a list of medical comorbidities but do not not mention Axis I or II comorbidities such as substance use, anxiety etc. I was actually curious to know if participants reported such comorbidities. If so please mention in the methods section or table 1.

- I would recommend that the authors integrate their responses to my previous comment related to the “reliability/validity of the tests” and” practice effect on cognitive tests” in their conclusions, e.g. limitations/strengths of the study.

-I would also integrate their responses to my point 7.2 (“talk about the potential antidepressant effects of ketamine as an alternate to ECT”) in their discussion, for instance as a potential future direction/clinical relevance of the findings.

-Typo: in Highlights please change “there is the first study” with “this study”

-Please explain what the acronym i.v. means prior to using it e.g. Intravenous (page 4).