

Review of: "Sociosexuality Expanded: The Role of Light and Dark Personality Traits"

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Potential competing interests: No potential competing interests to declare.

Comments

I enjoyed reading this report.

Among my concerns, I would like to see more historical context in the Introduction. For example, the theories of sexual strategies did not emerge in the last 10 years but are rooted in findings spanning more than five decades.

The Introduction should also terminate with explicit hypotheses. *"Based on previous research data, Dark Triad traits were expected to be positively associated with different sociosexual phenomena. Conversely, Light Triad traits were anticipated to show a negative correlation with various sociosexual phenomena."* Since 'sociosexual phenomena' defines a spectrum or distribution of complex behaviours, the aims paragraph is not making any predictions, other than saying 'we expect to find some associations'. Best to be more precise.

The statistical analyses refer to *'Predictive models of each sociosexuality dimension were created using multiple regression analysis'*. However, it is unclear what these proposed models are. It appears that the analyses are exploratory. If so, this should be stated.

Was a CFA run to confirm the factor structure of the Sociosexual Orientation Inventory-Revised (SOI-R)?

Regarding the linear regressions, I would recommend using a Bonferroni adjustment to adjust for the multiple tests used. A conservative adjustment might be $p = 0.05/24$. Also, it is unclear if you adjusted for age and sex or any other covariates. Since it was noted that the Orthodox Church exerts an influence 'on marriage and sexuality-related issues', religious attendance could also be included as a covariate.

Among the sociodemographics, was biological sex included, and if not, why not? Given the very strong evolutionary pressure on sexual behavior, biological sex should be included in these analyses. Given the importance of evolution in terms of shaping complex human behaviours, the manuscript would benefit if it was placed in an evolutionary context. Likewise, there is no discussion of the genetic and environmental etiologies of these complex traits and behaviours. This is related to the importance of introducing readers to the evolutionary context of these behaviours. As Theodosius Dobzhansky wrote in 1973, "Nothing in Biology Makes Sense Except in the Light of Evolution".

Finally, the authors should be commended for providing power calculations.

Was there a replication? if not, why not?

Minor points

The Introduction hilights Humanity, Humanism, and Kantianism, but only describes Humanity and Kantianism. I recommend including example items from the Light Triad Scale.