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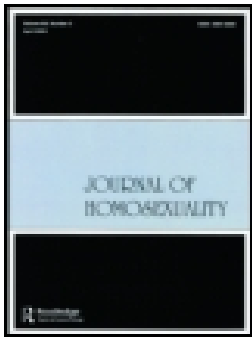
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## Response to a Systematic Review of the Psychometric Properties of Composite LGBT Prejudice and Discrimination Scales

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## Response to a Systematic Review of the Psychometric Properties of Composite LGBT Prejudice and Discrimination Scales

We are writing to comment on Morrison, Bishop, and Morrison (2018) “A Systematic Review of Composite LGBT Prejudice and Discrimination Scales,” which appeared in an advanced online publication of the *Journal of Homosexuality* early this year.

In their article, Morrison et al. evaluated several scales, including our own published in the same journal two years ago (Costa et al., 2016a). From our point of view, there are numerous unwarranted criticisms of alleged failures in our instrument that deserve our elucidation.

First, the authors stated that there were a conflation of principal component analysis (PCA) and exploratory factor analysis (EFA) in one of our studies (Costa, et al., 2016a). In fact, we did not perform any of those analyses. The authors seem to have overlooked that we used an item response theory Rasch model with principal component analysis on standardized residuals to test dimensionality. This kind of components analysis aims to investigate dimensionality by testing the hypothesis that a single factor is sufficient to explain a data structure (Chou & Wang, 2010).

It also draws attention the fact that in Table 1 the authors cited two studies that 20 used our scale, affirming that they do not present evidence of content validity, construct validity, criterion-related validity, and factorial structure. Actually, these studies do not intend to analyze evidence of the validity but to describe prejudice in specific contexts: university (Costa et al., 2015a) and health care provision (Costa et al., 2016b).

Nevertheless, we want to strengthen the presence of evidence that has been identified as missing. Regarding factorial structure, as already pointed out, we use an item response theory Rasch Model with principal component analysis on standardized residuals (Costa et al., 2016a, p. 1453) and also confirmatory factor analysis (Costa et al., 2016a, p. 1455). In respect to criterion-related validity, from the standpoint of the theory we use as a basis “test scores may be of help can be classified into two basic types: (a) those that involve determining a person’s current status and (b) those that involve predicting future performance or behavior. ... that is, from the way test takers perform at the time of testing” (Urbina, 2014, p. 184). In this sense we did not agree with the claim that we appeared to have confused criterion-related and construct validity mixing convergent validity or (known groups) with criterion validity. From Urbina’s perspective, criterion-related assessments are a form of construct validity (Urbina, 2014, p. 162)—validity in the sense that the “degree to which all the accumulated evidence supports the interpretation of the scores of a test for the intended use” (AERA, APA, & NCME, 2014).

Finally, regarding content analysis, the authors seem to miss the reference for our original study (Costa, Bandeira, & Nardi, 2015b) on page 1449 of Costa et al. 2016a. In this study, we described the processes of item selection based on two systematic reviews (Costa et al., 2013a, 2013b) and a panel of specialists. In the same article, we also presented evidence of what Morrison et al. called C-R validity using a Bogardus-like Social Distance Scale (Table 3, Costa et al, 2015b). According to Urbina (2014), we prefer to label this kind of evidence as convergent validity: “consistently high correlations between measures designed to assess

a given construct ... may be taken as evidence of convergent validity, that is, evidence regarding the similarity, or identity, of the constructs they are evaluating” (p. 171).

## Disclosure statement

No potential conflict of interest was reported by the authors.

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