**ABSTRACT TITLE**

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Background: One of the many challenges cancer survivors face is relapse prevention. While there is substantial research illustrating that exercise is a crucial component of preventing cancer relapse, the effects of treatment can make exercise feel daunting. The first step to overcoming this difficulty is understanding what factors contribute to cancer survivors’ exercise self-efficacy. Thus, the goal of this project was to use structural equation modeling to evaluate the impact of potential factors.

Methods: We utilized factor analysis and structural equation modeling to assess the relationship between measures of mental health and spiritual well-being on exercise self-efficacy in a three-factor model. We assessed the fit our model on data from a sample of 29 Latina cancer survivors.

Results: The model fit moderately well across multiple factors. A chi-square test provided strong evidence (X2(24, N = 29) = 33.17, p = 0.10), as did the CFI (0.95). A RMSEA of 0.12 (0.00, 0.20) and an SRMS of 0.09 were both slightly high, but close to ideal, possibly due to the very small sample size. The measures of mental health and spiritual well-being accounted for 19% of the variance in exercise self-efficacy.

Conclusion: This model illustrated the importance of mental and spiritual health on improving exercise self-efficacy. Future interventions that address these factors may be able to impact cancer relapse.

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