University of Mary Washington

Eagle Scholar

Psychology Student Research Showcase

Spring 4-1-2021

The Effect Of Affirming Scientific Belief On Existential Anxiety

Shelby A. Russell

Trimby Magarity

Follow this and additional works at: https://scholar.umw.edu/psychology_showcase

Recommended Citation

Russell, Shelby A. and Magarity, Trimby, "The Effect Of Affirming Scientific Belief On Existential Anxiety" (2021). *Psychology Student Research Showcase*. 45. https://scholar.umw.edu/psychology_showcase/45

This Poster is brought to you for free and open access by Eagle Scholar. It has been accepted for inclusion in Psychology Student Research Showcase by an authorized administrator of Eagle Scholar. For more information, please contact archives@umw.edu.

The Effect of Affirming Scientific Belief on Existential Anxiety

Trimby MaGarity and Shelby Russell



Research Question

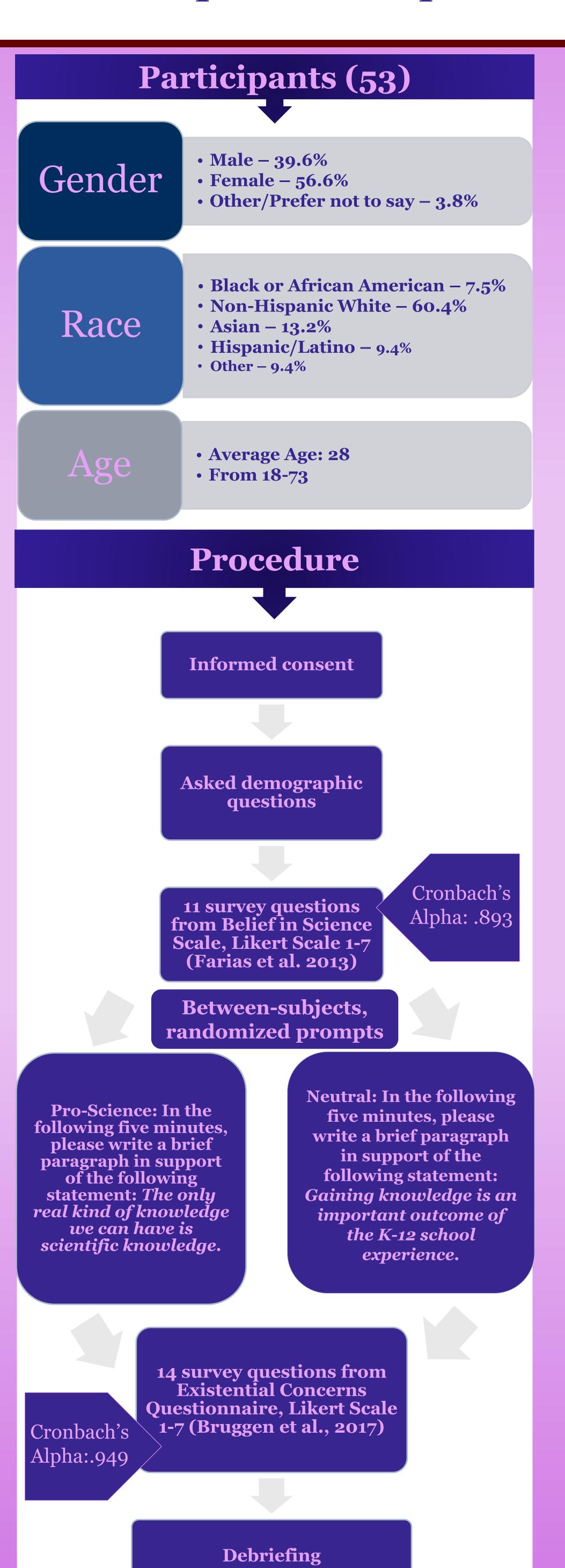
Can reaffirming scientific belief affect existential anxiety?

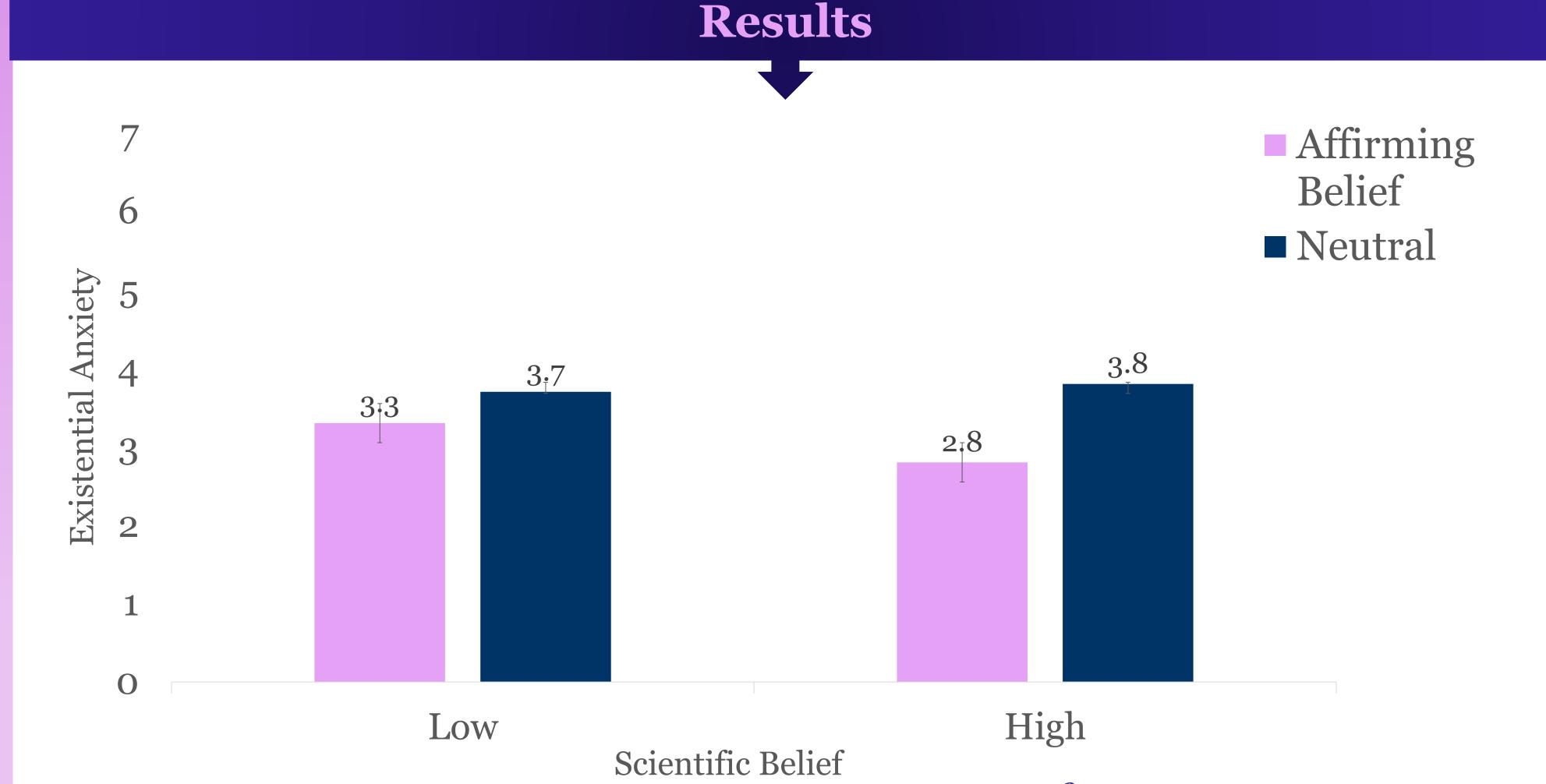
Introduction

- ❖ Belief in science can be defined as seeing science as a reliable guide to the world around us (Farias et al. 2013)
- This belief in science can have a positive effect on people's mindsets and lives (Dagnall et al. 2019)
- *The comfort, and sense of control religiosity gives can be present in those who are less religious and believe more in science (Aghababaei et al. 2016)
- Physical stress results in an increased belief in science (Farias et al. 2013)

Hypothesis

Those who reaffirm high scientific belief will rank lower in existential anxiety than those who reaffirm no beliefs and those low in scientific belief





- No main effect for scientific belief, F(1, 49) = .233, p = .63, partial $R^2 = .01$, but it was trending in the anticipated direction
- No main effect for reaffirming belief, F(1, 49) = 3.42, p = .07, partial $R^2 = .07$
- No significant interaction between scientific faith and reaffirming belief F(1, 49) = .789, p = .38, partial $R^2 = .02$

Discussion

Implications

- Scientific faith may not influence hope for the future
- Affirmation may not affect the strength of beliefs

Limitations

- Small sample size, not many responses for one prompt
- Many participants had high belief, restricting range

Future Research

- Study should be done face to face
- Even sample size
- If scientific belief specifically decreases belief in other concepts, and how that influences existential anxiety

References

- Aghababaei, N., Sohrabi, F., Eskandari, H., Borjali, A., Farrokhi, N., & Chen, Z. J. (2016). Predicting subjective well-being by religious and scientific attitudes with hope, purpose in life, and death anxiety as mediators. Personality and Individual Differences, 90, 93-98. doi:10.1016/j.paid.2015.10.046
- ❖ Dagnall N, Denovan A, Drinkwater KG and Parker A (2019) An Evaluation of the Belief in Science Scale. Front. Psychol. 10:861. doi: 10.3389/fpsyg.2019.00861
- Farias, M., Newheiser, A., Kahane, G., & De Toledo, Z. (2013). Scientific belief: Belief in science increases in the face of stress and existential anxiety. Journal of Experimental Social Psychology, 49(6), 1210-1213. doi:10.1016/j.jesp.2013.05.008
- * Farias, M., & Newheiser, A. (2019). The effects of belief in god and science on acute stress. Psychology of Consciousness: Theory, Research, and Practice, 6(2), 214-223. doi:10.1037/cns0000185
- van Bruggen, V., ten Klooster, P., Westerhof, G., Vos, J., de Kleine, E., Bohlmeijer, E. and Glas, G. (2017), The Existential Concerns Questionnaire (ECQ)—Development and Initial Validation of a New Existential Anxiety Scale in a Nonclinical and Clinical Sample. J. Clin. Psychol., 73: 1692-1703. https://doi.org/10.1002/jclp.22474