

Investigating the Multivariate Relationship between Pathological Narcissism and Humility with Canonical Correlation Analysis

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Abstract

This study aims to reveal the relationship between grandiose and vulnerability narcissism, which are sub-dimensions of pathological narcissism, and humility through canonical correlation analysis. We analyzed the data obtained from 341 participants with canonical correlation analysis. Results showed a shared common variance of 57% between the subscales of pathological narcissism and humility, and a significant canonical function was revealed. In addition, it was seen that the vulnerability subscale has a higher impact ($rs=.97$) in explaining pathological narcissism than the grandiosity subscale, and the highest impact ($rs=.98$) is in the humility self-assessment subscale in explaining humility. According to another finding, it was determined that the self-assessment subscale of humility (.71) has the highest impact in explaining pathological narcissism. In contrast, the vulnerability subscale of pathological narcissism (.71) has the highest impact in explaining humility. These results indicate that pathological narcissism has broader complex relationships with humility, and the multivariate approach between pathological narcissism and humility subscales has higher explanatory power than a simple correlation, emphasizing the thoroughness of our research and the importance of considering multiple variables in understanding their relationship.

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