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International Journal of DEVELOPMENT RESEARCH

International Journal of Development Research Vol. 06, Issue, 10, pp.9649-9650, October, 2016

Full Length Research Article

OPENNESS AS A DIMENSION OF PERSONALITY AMONG MONOZYGOTIC TWINS

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ARTICLE INFO

Article History: Received 14th July, 2016 Received in revised form 22nd August, 2016 Accepted 16th September, 2016 Published online 31st October, 2016

Key Words:

Openness, Twins, Monozygotic twins, Environment, Culture.

ABSTRACT

Personality has given us a useful set of very broad dimensions that characterize individual differences in personality structure. This study assessed cultural influences on the openness component of the personality. A pair of 90 twins in the age group of 3-6 years from five cultural zones of state Haryana was taken. The data were analyzed for openness culture wise and yield new insight into the trait. The results revealed that there was a significant cultural difference in openness trait of personality in monozygotic twins. The respondents of Bagar zone had better personality traits against their counterparts.

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INTRODUCTION

Openness trait of personality is shaped by both genetic and environmental factors; among the most important of the latter are cultural influences. However, culture does not have a deterministic influence o rather; its influence is probabilistic (Stryker &Burke, 2000). Culture is a key determinant of what it means to be a person (Church, 2000; Diener, Oishi and Lucas, 2003; and Triandis and Suh, 2002). Monozygotic or identical twins are the only people in the world who have the same genotype because they share (nearly) 100% of their genes. The Monozygotic twins have be more similarity to each other than fraternal twins (Herin, 2006). Despite common genotype persons, it is quite hard to describe individual differences in agreeableness trait. Personality and specific genes responsible for the ubiquitous heritability of personality traits has increasingly become a target for genetic research (Benjamin et al., 2002). Identical and fraternal twins hold the keys to give understanding on personality traits. Identical (monozygotic) twins have essentially the same set of genes, while fraternal (or dizygotic) twins have, on average, a halfidentical set. Openness to experience involves curiosity, flexibility, imaginativeness, and willingness to immerse oneself in atypical experiences such as involvement in social experience.

Openness is the breadth, depth, originality, and complexity of an individual's mental abilities (John and Sotto, 2008).

Objective

The current study aimed to investigate difference level of openness in monozygotic or identical twins and the contributions of possible cultural predictors. The main objective of the study was to assess the openness trait of personality.

MATERIALS AND METHODS

The study was conducted in five cultural zones of Haryana state namely Khadar, Bagar, Nardak, Mewat and Ahirwal. A pair of 90 twins (180 twins) in the age group of 3-6 years from different villages was assessed depending upon the availability of the twins were taken as sample. A Five Factor Personality Questionnaire (Cathy, 2011) was used for assessing the personality traits of preschool twins.

RESULTS AND DISCUSSION

This study on openness trait of personality has given us a useful set of information regarding cross cultural individual differences in monozygotic twins. Cultural influences through current data showed the comparison of the mean levels of openness in monozygotic twins. The trait openness across five

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cultures shown systematic patterns, but significant difference. The highest mean value on openness was found in monozygotic twins of zone Bagar (12.3) followed by Nardak (11.7) then Mewat (11.1). Zone namely; Ahirwal was having least mean value on openness trait for the monozygotic (10.8) as depicted through Table 1.

Table1. Cultural zone-wise comparison of openness among monozygotic twins (N=180)

Zones	Openness SD	Mean	F-value
Bagar	12.3	1.9	4.21*
Nardak	11.1	1.9	
Khadar	11.0	1.6	
Mewat	11.7	1.9	
Ahirwal	10.8	1.6	

It is concluded that the respondents of Bagar zone had best openness among their counterparts and monozygotic twins of Ahirwal zone had lowest level of openness. This study provided strong evidence those differences between twins on openness trait were partly determined by genetic but more by cultural factors. Result indicated that openness in monozygotic twins showed significance differences over five cultural zones Fink et al. (2005) suggested that identified facial symmetry as a possible correlate of personality, especially for openness, extraversion and agreeableness, but did not find the predicted positive associations between them. Vazsonyi et al. (2015) in their multi culture study found that neuroticism was consistently positively associated with extraversion and negatively with conscientiousness. Agreeableness and openness had similar patterns of relationships across the cultures. Both openness and fluid intelligence foster crystallized intelligence which comprise knowledge and derived from the culture (Ziegler et al., 2012).

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