



Original Research Article

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The Effects of Gender on Temperament of Twins in Bagar Zone, India

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ABSTRACT

Keywords

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Gender is the range of characteristics pertaining to, and differentiating between, masculinity and femininity. Depending on the context, these characteristics may include biological sex, sex-based social structures, or gender identity. Temperamental stability is influenced by both biological and environmental factors, as well as cultural factors in some cases. Temperament refers to our inborn personality traits, which are genetic in nature. The present study was conducted in four districts namely; Hisar Fatehabad, Rohtak and Jind of Haryana state with the purpose of availability of maximum numbers of twins in the required age group. A sample of 296 pairs of twins in the age group for the study was chosen. Temperament was taken as dependent variable and gender was taken as independent variable. The Malhotra Temperament Schedule (MTS) developed by Malhotra and Malhotra (1988) was used to assess child's temperament. Result revealed that There was no association of gender with all the variables of temperament (Table 1) in Bagar zone i.e., sociability ($\chi^2=2.44$), emotionality ($\chi^2=0.26$), energy ($\chi^2=0.01$), distractibility ($\chi^2=0.47$), rhythmicity ($\chi^2=0.19$) and total temperament ($\chi^2=0.15$) of twins.

Introduction

Temperament refers to our inborn personality traits, which are genetic in nature. The different ways infants interact with and react to their environment and experiences are reflective of their temperament, or behavioral style. All children have a temperament that will influence their emotions and how they adapt to change in their environments

(Steinberg, 2014). Temperament is a recent and rapidly growing area in psychology as the role of temperament in influencing developmental pathways and outcomes has now been recognised. Extreme difficult temperament is often viewed as a risk factor for later behaviour problems (Hill, 2012).

Temperament defined as person emotional and behavioural modes of response to

environmental events (Shaffer and Kipp, 2007). Temperamental characteristics indicate how children with many stresses may do well, while some with little or no stress have difficulty. While some children are mild and joyful, others are irritable. Easy children are pleasant to care for and they may receive and give back plenty of affection and attention. The fussy, energetic and difficult child may cry and kick when given attention. As development unfolds, the fussy and difficult child may create problem to the caregiver and may receive less nurturance and affection.

Temperament comprised of individual differences in reactivity, self-regulation, activity and attention that manifest themselves early in life through strong genetic or neurobiological basis. Syeda *et al.*, (2009) conducted that the differences between temperament of identical and fraternal twins due to their different environment, parents rearing practices and education do bring changes in their personalities.

The temperament possibly shaped by the prenatal environment and provides an opportunity to study the behavioral differences between pairs. Twin studies proposed that individual differences in temperament dimensions appeared during early childhood and those genetically influenced. Tellegen *et al.*, (2008) reported significant shared environmental influence on measures of two extraversion-related traits, Positive Emotionality and Social Closeness.

Twin Study suggest that individual differences in temperament, as measured at one age or another had different he pattern of changes that marked by genetically influences.

Objectives

To assess the effect of gender on temperament among twins in Bagar zone.

Materials and Methods

The present study was conducted in four districts namely; Hisar Fatehabad, Rohtak and Jind of Haryana state with the purpose of availability of maximum numbers of twins in the required age group of 4 -10 years identified under UGC project of the department. A sample of 296 pairs of twins in the age group of 6 – 10 years will be taken. The dimensions of temperament will be assessed individually. A variable is the set of value that forms a classification. A value is anything which can be predicted. There were two types of variables in the study i.e. independent and dependent variable. Temperament was taken as dependent and gender was taken as independent variable.

The Malhotra Temperament Schedule (MTS) developed by Malhotra and Malhotra (1988) was used to assess child's temperament.

Results and Discussion

Associations of temperament of twins with gender in Bagar zone

There was no association of gender with all the variables of temperament (Table 1) in Bagar zone i.e., sociability ($\chi^2=2.44$), emotionality ($\chi^2=0.26$), energy ($\chi^2=0.01$), distractibility ($\chi^2=0.47$), rhythmicity ($\chi^2=0.19$) and total temperament ($\chi^2=0.15$) of twins.

It was concluded that there was no association of gender with all the variables of temperament in Bagar zone i.e., sociability, emotionality, energy, distractibility, rhythmicity and total temperament of twins. Gender was significantly associated with emotionality aspect of temperament. Walker *et al.*, (2001) also supported this association with investigation on temperament of preschool children as found that boys were more active, more distractible and less persistent than girls.

Table.1 Associations of temperament of twins with gender in Bagar zone

Variables	Temperament scores				χ^2
	Bagar			Total	
	Sociability				
Gender	Low	High	Total		
Boys	25	33	58		2.44
Girls	13	33	46		
Total	38	66	104		
	Emotionality				
Gender	Low	High	Total		
Boys	23	35	58		0.26
Girls	16	30	46		
Total	39	65	104		
	Energy				
Gender	Low	High	Total		
Boys	17	41	58		0.01
Girls	13	33	46		
Total	30	74	104		
	Distractibility				
Gender	Low	High	Total		
Boys	16	42	58		0.47
Girls	10	36	46		
Total	26	78	104		
	Rhythmicity				
Gender	Low	High	Total		
Boys	13	45	58		0.19
Girls	12	34	46		
Total	25	79	104		
	Total temperament				
Gender	Low	High	Total		
Boys	15	43	58		0.15
Girls	11	35	46		
Total	26	78	104		

*Significant at 5 % level of significance

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