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Is Joy an Emotional Function of Age and Gender?

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Abstract: Historically, psychological researches on emotion were focused more on negative emotions. Recently, researchers have directed their attention towards positive emotion because of positive emotions is in crises throughout the globe (Fredrickson et al, 2003). So, it is an emerging field of study, many areas of which are under developed. The present research is aimed at exploring two of such areas: gender and age differences in positive emotions. Because of the suggested importance of studying discrete units of positive emotion, only one emotion i.e. joy was selected for the study. Dispositional Positive Emotion Scale-Joy sub scale was administered on 479 participants (331 men, 148 women), age ranging between 20 and 49. Following two hypotheses were generated: first, women feel lesser joy than men; and second, intensity of joy feeling varies with age. The results were consistent with the first hypothesis. For the second hypothesis, no significant differences are found in the feeling of joy among people belonging to different age groups.

Keywords: Dispositional Positive Emotion Scale (DPES), Gender, Age, Independent Sample T-test, Anova

1. Introduction

Every society is believed to contain an emotion culture (Cancian, 1987; Gordon, 1981; Hoch child, 1975) which tells us how people belonging to different gender, age and ethnic group feel and react to different emotions. However, in the past, psychological research on emotion has mainly focused on negative emotions. Recently the quest for understanding the positive emotions has emerged. So, it is a relatively new field of study many areas of which are under-developed. The present research is addressing two of the issues: gender and age difference in positive emotion. Because of the suggested importance of studying discrete units of positive emotion (PE), we have

focused our attention to only one unit of PE i.e. joy.

On the basis of the reviewed literature following two hypotheses were generated: first, women feel lesser joy than men; and second, intensity of joy feeling varies with age.

Positive Emotions

"Basic emotions" are classified into two main domains: positive and negative (Carlson and Hatfield, 1992; Fischer, Shaver, and Carnochan, 1990). Where there are 12 negative emotions, the list of positive emotions is limited to 3: joy, love, and sexual excitement. (Sprecher ,1985). However, some researchers extended the list up to 8 (Ellsworth and Smith, 1988).



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Historically psychological researches on emotion were focused more on negative emotions as compared to the positive (Ellsworth and Smith, 1988; Fredrickson, 1998). Nevertheless, the quest of understanding positive emotions has emerged in the recent years. Even, it is also suggested that positive and negative emotions are not two opposites on a continuum rather they are two different things (Stone, A., Schwartz, J., et al. 2010). So it is an emerging field of psychological regions research many of which underdeveloped.

Barbara Fredrickson's research (1998) truly popularized the importance of positive emotion. Her broaden and built theory has created a great deal of interest in studying positive emotions. According to the theory, positive emotions are adaptive in broaden our attention, action tendencies, and cognitions and psychological, social, and physical resources (Fredrickson, 2004, Cohn et al., 2009). Empirical research has supported both, broaden and build function of the theory (Adler, E. L., 2013).

Gender and Emotion

Gender differences in emotion have generally been accounted in terms of the social and cultural context, especially as a result of gender-stereotypic socialization (Brody and Hall, 1993; Jansz, 2000; Shields, 2002). The two sociological theories that provide a ground for differences in emotions on gender basis are Hochschild's normative theory (1975) and Kemper's structural theory (1978).

According to the former, the feelings and expressions of individuals are under the influence of cultural beliefs about emotion which provide norms of what should (and of course should not) be expressed. These cultural beliefs are evident through empirical research as well (e.g., Robinson

and Johnson 1997), even preschool age children tend to have such beliefs (Birnbaum 1983).

The later theory describes emotional expressions and responses as a function of structural factors such as a person's social position in relevance to the others. According to Kemper the two fundamental dimension of this social positioning are status and power; people having more status and power will experience more positive and lesser negative emotions.

The difference in emotion on gender basis is more evident with respect to negative emotions. (Brody and Hall, 2008; McLean and Anderson, 2009). Researches demonstrate women tend to acquire higher scores on personality trait of neuroticism – a closely related trait to negative emotionality (Schmitt et al.. 2008). Another research demonstrated that women tend to feel more shame and more guilt (Else-Quest et al., 2012). Similar results were found in a recent meta-analysis of children's emotions (Chaplin and Aldao, 2013). Moreover, Sex differences in social anxiety across cultures find women are universally higher than men (18 nations; Caballo et al., 2014), as do studies of test anxiety among high school students (12 nations; Bodas and Ollendick, 2005).

Neurobiological research also provides the ground for difference in emotional experience of men and women. The two genders have different brain regions to regulate response towards unpleasant stimuli. (Domes et al., 2010; McRae et al., 2008). Other researches demonstrate that more frequent crying behavior of women is under the influence of hormones e.g. (Frey, 1985; Vingerhoets, Cornelius, Van Heck, and Becht, 2000).

Not only men and women differ in expression of emotion but also the reasons for which they feel a particular emotion are different. For instance a study demonstrates Women report more negative emotionality when their partners reject them, men tend to report more negative emotions when their



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partners demand more intimacy (Brody et al., 2002). Similarly another research reported that female experience more positive emotions when feel affiliated while the opposite is true for males (Wong and Csikszentmihalyi, 1991).

Age and Emotion

Another attempt on negative emotions showed a decrement of negative emotion with age (Diener, Sandvik, and Larsen, 1985), the pattern of difference in positive emotion related to age is not much clear. Where many cross-cultural studies have found consistent decreases in positive affect with age (Diener and Suh, 1998; Lucas and Gohm, 2000), other demonstrate a slight increase in positive emotion with age (Gross et al., 1997). Also, there are researches in which no significant difference in positive emotion related to age was observed (Barrick et al., 1989; Vaux and Meddin, 1987). Overall, the findings for positive emotion are less consistent than those for negative emotion. For the most part, few age differences exist, and when differences have been found, some suggest greater positive affect e.g. (Mroczek and Kolarz, 1998) and others a slight decrease in positive affect with age (Diener and Suh, 1998; Stacey and Gatz, 1991).

Neurobiological studies also figure out difference in processing of emotions of different age groups. Greater amygdala activation for positive as compared to negative pictures has been observed in older adults as compared to the young (Mather et al., 2004). Many responses of physiological system are also found to indicate lesser arousal towards negative stimuli among older adults. (Lau et al., 2001; Kunzmann et al., 2005; Levenson et al., 1994; Tsai et al., 2000). However, there are some other researches as well that show no significant age difference in physiological responses (Tsai et al., 2000; Smith et al., 2005).

Social Cognitive perspective also account for age differences in emotion. Greater numbers of dimensions are found in the emotional reports of older adults which suggest them to have a more differentiated emotional experience (Tsai et al., 2000). Older adults show a more complex understanding of their emotions (Labouvie-Vief et al., 1989). Moreover, older adults are also found to have greater emotional control (Lawton et al., 1992).

2. Methodology

Participants were recruited in a form of cluster from metropolitan of Karachi. Data was gathered from Exhibition, Educational Institutes and Local Markets. The sample of 479 participants included, 331 were men and 148 were women, 405 respondents were young (age ranging from 20 to 39) and 74 were middle-age adults (age ranging from 40 to 49). These age groups were further sub divided as follows: 20-24(N=31), 25-29(N=50), 30-34(N=72), 35-39(252), 40-44(N=62), 49(N=12). Equal Probability Sampling Method (EPSM) was used in order to gather data. After receiving consent, participants filled questionnaire measure in individual sessions in survey. Dispositional Positive Emotion Scale (DPES) - Joy sub scale was applied in the study as an instrument that has been used previously in Islamabad, Pakistan (Ashraf, 2004). It is a 6-item questionnaire that measures a dispositional tendency to feel joy in life. Respondents reported their level of agreement with each item on a 7point Likert-type scale ranging from 1 (strongly disagree) to 7 (strongly agree) that increases from negative to positive. A complementary data of positive emotions extracted from the final year research project of students of Federal Urdu University of Arts, Science and Technology in 2017. A survey on individual basis was conducted



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in order to gather data that has been successfully done previously in Karachi (Alvi, Surani and Hirani, 2015).

3. Results

The following illustrations revealed the significant findings in terms of positive emotion. The gender difference in feeling of joy was analyzed using independent sample t-test and the age differences were analyzed through one-way analysis of variance (ANOVA).

Table 1: T-test for Gender Analysis

Gender	N	Mean	Std. Deviation
Male	331	4.4180	0.87568
Female	148	4.2478	0.89600

By above chart, as far as gender is concern, so male feel more joy than female in life comparatively. Although the findings reported no significance difference in gender but inconsequential changes in magnitude was noted i.e. Male (M=4.4180, S.D=0.87568), Female (M=4.2478, S.D=0.89600). The chances for the deviation of mean were reported low regardless of the number of respondents were not equally distributed in both categories because of random selection of participants. The same statistical technique has been used before in order to analyze the smoking pattern in the same context of Pakistan (Alvi et al., 2016).

Table 2: Anova for Age Analysis

Age	N	Mean	Std. Deviation
20-24	031	4.4787	0.97943
25-29	050	4.2994	0.95357
30-34	072	4.4257	0.86710
35-39	252	4.3572	0.85856
40-44	062	4.3853	0.88556
45-49	012	4.0558	1.06108
Total	479	4.3654	0.88458

Table 2 showed no vital results in terms of analyzing the age of respondents for feeling joy in life. As it was mentioned earlier that six age groups were formed that almost show the similar outcomes among all categories. Hence, it has revealed that there is no significant difference among ages for feeling joy in life. By collectively finding, it can be said that younger people feel more joy in life than older to some extend but difference in magnitude was very minimal so findings were not noteworthy.

4. Discussion

The present research was aimed at exploring if there exist any differences in the feeling of joy on the basis of gender and age. Two hypotheses were formulated as follows: first, women feel lesser joy than men; and second, intensity of joy feeling varies with age. The results were consistent with the first hypothesis. For the second hypothesis, no significant differences are found in the feeling of joy among people belonging to different age groups. Below is discussed the possible expiation of the results obtained.

The results can also be explained in terms of Kemper's structural theory about emotion (1978) according to which gender specific patterns emerge from social positioning of an individual with reference to others. According to the theory status and power are two fundamental facets of social relationships that elicit specific emotions during social interaction when relational power and status are maintained or changed. He claims that persons with more status and power in a relationship experience positive emotions such as happiness and security, whereas those with less power and status experience negative emotions such as fear, sadness, and anger. Although Kemper focuses on relational status and power between persons in interaction episodes, an



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implication of his theory is that persons with higher status and power in society experience more positive feelings, whereas persons with lower status and power experience more negative feelings since women tend to have lower status and power than men in our country, they feel lesser joy than men.

Many researches demonstrate women's tilt towards being more negative and less positive than men. For instance in a study, Kring and Gordon (1998) found that women react with more sadness to sad films than men do and women react with more fear-disgust to fearful-disgusting films than men do . In contrast, men reacted with greater happiness to happy films. Moreover, women are also found to score higher on personality trait of neuroticism (Schmitt et al., 2008). It means, women tend to see negativity more often in the happenings which undermines their happiness.

In the exploration of age differences in the feeling of joy, we found that it does not vary with age. Researches in the past also could not always produce age related differences in emotions e.g. (Barrick et al., 1989; Vaux and Meddin, 1987).

Researches also demonstrate that age is not the sole affecting factor but works in combination with other factors to produce the age related changes in emotion. For instance in one cross-sectional study including people from 25 to 74 years old decrease in negative emotions was found only among men who were married while among the unmarried men no such difference were observed (Mroczek and Kolarz, 1998).

Furthermore, the relationship between age and emotion is also subjected to be influenced by other factors. For example, personality traits hold predictive power that varies for positive and negative affect (DeNeve and Cooper, 1998; Diener, 1996). Neuroticism is predictive of depression (Costa and McCrae, 1990), and

extraversion correlates with positive affect. Both of these variables have been shown to influence the relationship between age and emotion (Mroczek and Kolarz, 1998).

5. Conclusion

On the basis of results obtained following two conclusions are drawn: first, women feel lesser joy as compared to men; second, feeling of joy does not vary with age. One may feel equal level of joy at all points in his or her life.

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