The Study of Irrational Beliefs of Monolinguals and Bilinguals

Marzie Heydari Beni Department of Psychology, Payam Noor University, Iran Ali Abar Malekirad Department of Biology, Payam Noor University, Iran Masoome Mohamadi Department of Psychology, Payam Noor University, Iran Hassan Jafari Faculty of Medicine, Arak University of Medical Sciences, Arak, Iran marzieheydari13@yahoo.com

Abstract

A bilingual or multilingual individual refers to a person who systematically uses two or more languages in daily life. Monolingual and bilingual individuals have differences in most of functions. Among the most important issues in human behavior are irrational beliefs that lead to behavioral disorders. Therefore, the present study aims to investigate the irrational beliefs of monolingual and bilingual individuals. This cross-sectional study includes 30 monolingual individuals (18 females and 12 males) and 30 bilingual subjects (18 females and 12 males) who were randomly selected among monolingual and bilingual students aging from 19 to 27 years old and completed questionnaire of ibt. According to the statistical analysis, monolingual and bilingual individuals had significant differences in scales of necessity of others' approval and support (p = 0.044), tend to self-blame (p = 0.004) and reaction to failure (p = 0.038), affective irresponsibility (p = 0.023) and avoidance of issues (p = 0.000) and in the rest scales of dependency, the emotional irresponsibility, too much concern with anxiety, and high self-expectations p > 0.05 did not have significant differences. The results showed that monolingual individuals had irrational beliefs, as compared to bilingual individuals had irrational beliefs.

Keywords: monolingual, bilingual, irrational beliefs

Introduction

A bilingual or multilingual individual refers to a person who systematically uses two or more languages in everyday life (KormiNouri, et al, 2008) Exposure to two languages will lead to creation of mental flexibility, the concepts formation ability and thus increase of mental abilities. In other words, the experience of being bilingual will have significant impact on the development of cognitive processes (Dalgleisht, Williams, Perkins, Golden, Barnard, Yeung, 2007).

Regarding the psychological and behavioral problems, Ellis (1995) believes that most of people's discomfort and irregular emotional life have root in variety of irrational and unrealistic beliefs about self and the world around them. In his idea, psychological problems are due to the individuals' incorrect cognitions, because emotions are product of cognition; and abundance consequences that arise from irrational thoughts are considered as the fundamental reasons of most important emotional disorders (Ellis &Grioger, 1986)

In the last decade, there was an upsurge of bilingualism research representing the cognitive differences and neurological function, between these individuals (Hamers&Blance 2000).Many studies have shown the advantages of bilingualism and also in some other the superiority of monolin-

Openly accessible at http://www.european-science.com

gual individuals. Since bilingualism has got very complex psychological effects and also differences of monolingual and bilingual individuals provides area for many studies in this field (Kormi-nouri, et al, 2008; Rogers, Lister, Febo, Besing, & Abbrams, 2006).

According to the research results presented in recent years, it seems that bilingual individuals have better performance in many cognitive abilities such as problem solving, creativity and memory compared to monolingual individuals (Rogers, et al, 2006). Also, due to the complex psychological effects of bilingualism and the importance of irrational beliefs on flexibility of mind, the present study aims to consider the bilingual and monolingual individuals' irrational beliefs. However, so far each of the cognitive subscales of bilinguals' dysfunctional beliefs has been studied partially, but all of these beliefs have not been assessed generally and as fabric.

Procedures

This cross-sectional study includes 30 monolinguals (18 females and 12 males) and 30 bilingual subjects (18 females and 12 males) who were randomly selected among monolingual and bilingual students in the age range of 19 to 27 years. Cooperation of sample was voluntarily-based and the researcher had adhered to ethical principles. Group 1 refers to monolingual individuals and Group 2 refers to bilingual individuals.

The irrational belief questionnaires of Jones (Ibt) were used to assess sample's irrational beliefs which are self-evaluation questionnaire and include 100 items and 10 subscales and are developed based on 10 scales of necessity of others' support, high self-expectations, tend to self-blame, reaction to failure, affective irresponsibility, too much concern associated with anxiety, avoidance of issues, dependency and frustration toward change and perfectionism in theory of Ellis and grading in four-point Likert scale.

Total score of Ibt ranges from 100 to 400 and a high score indicates the irrational and dysfunctional beliefs and low scores represent rational and efficient beliefs (Bridjez and Sanderman,2002).

Bernard (1972) says that Jones irrational beliefs test has got a good validity. Togseler and Karst (1973-1972) announced total reliability of test through test-retest, 88% and validity of the subscales from 45% to 95% announced (Farah Bakhsh, 2004).

About the reliability of this test in Iran, in one study done in 1993 by using a sample of 106 people, the reliability is reported to be .71 through Cronbach's alpha coefficient. In another study, its reliability coefficient was calculated by Cronbach's alpha coefficient formula that was .70 (Soley-maniyan, 2004).

In 2006, this questionnaire was conducted on a group of 150 male students of Shahid Chamranin Ahvaz city and through test of Cronbach's alpha coefficient, the reliability was obtained to be .79 (Sorani, 2006).

Findings

In order to analyze the results of this study, MANOVA was used as it is clear from table 1.

According to statistical analysis, the monolinguals and bilinguals had significant differences in scales of the necessity of others' approval and support (p = 0.044), tend to self-blame (p = 0.004), reaction to failure (p = 0.038), affective irresponsibility (p = 0.023) and avoidance of problem (p = 0.000). In the rest scales of dependency, the emotional irresponsibility, too much concern with anxiety, and high self-expectations p > 0.05 did not have significant differences. Results indicate difference in the irrational function of monolingual and bilingual people. Also, evaluation of mean of data indicates that monolinguals have more irrational beliefs than bilinguals.

Openly accessible at <u>http://www.european-science.com</u>

	Group	Mean	F	df	р
The necessity of	Group1	59.311	4.230		
others' approval	Monolingual			1	0.044
and support	Group2	52.267			
	Bilingual				
high self-	Group1	0.111	7.103		
expectations	Monolingual			1	0.059
	Group2	0.150			
	Bilingual				
tend to self-blame	Group1	293.125	7.051		
	Monolingual			1	0.002
	Group2	273.067			
	Bilingual				
reaction to failure	Group1	83.003	4.489		
	Monolingual			1	0.038
	Group2	70.417			
	Bilingual				
affective irrespon-	Group1	219.181	5.467		
sibility	Monolingual			1	0.023
	Group2	198.017			
	Bilingual				
too much concern	Group1	32.207	2.877		
associated with	Monolingual			1	0.095
anxiety	Group2	58.017			
	Bilingual				
avoidance scale of	Group1	410.031	16.162		
issues	Monolingual		_	1	0.000
	Group2	375.000			
	Bilingual	16.010	0.505		
	Group1	16.210	0.795	1	0.256
dependency	Monolingual	17.077	- 1	1	0.376
	Group2	17.067			
	Bilingual	20.100	1.570		
C	Group1	29.190	1.579	1	0.214
frustration toward	Monolingual	17.0(7	- 1	1	0.214
	Group2	17.067			
	Bilingual	11.001	1 401		
norfactionism	Group1	11.001	1.481	1	0.220
perfectionism	Monolingual	10.267	-	1	0.229
	Group2	19.267			
	Bilingual Group1	4093.301	13.535	1	
Total	Group1 Monolingual	4095.501	15.555	1	0.001
1 Utal	Group2	4083.75	-		0.001
	Bilingual	4003.73			
	Dinigual				

Openly accessible at <u>http://www.european-science.com</u>

Correlations		sex	age	education
sex	R	1	.346**	023
	Р		.007	.864
age	R	.346**	1	.097
	Р	.007		.463
education	R	023	.097	1
	Р	.864	.463	

Table 2. The relationship of age, sex and education with irrational beliefs of monolinguals and bilinguals

Results indicated that there is a significant relationship between age, sex, education, and irrational beliefs.

Discussion and conclusion

Due to the availability of two models for bilingual individuals and the ability to change themselves according to the status, we can point to these individuals' mental flexibility. Also, cognitive behavioral and neurological studies have shown that bilinguals in performance and applications of cognitive function are different from monolingual and two tabs on the average relative advantages and differences in neural function and in average bilinguals have relative advantages and clear difference in structure and neurological function compared to monolinguals. (Pavlenko, 2007& Christoffels, Kroll, and Bajo, 2013). Also,Kristoflz and Carol in a study in this area has shown that bilingual individuals use two languages with certain proficiency and ease and apply each of their languages without any mistake at the same time which indicate the presence of high levels of cognitive control in bilingual individuals (Pavlenko, 2007).

However, in the studies conducted from1996 to1997 by Ramirez, Thomas and Collier, they concluded that when the environment of bilingual individuals was changed monolinguals had low anxiety and depression than bilinguals, but in the present study, despite the dichotomy of environment of bilingual individuals, significant relationship was not seen in subscale of concerns associated with anxiety among individuals of monolingual and bilingual.(Christoffels, Kroll, and Bajo, 2013).

The results of the present study indicate the importance of two-or multilingual among individuals that require more effort of communities to keep alive their second language in order to reduce the human's cognitive problems and improve neurological and structural function of bilinguals.

In addition to high levels of monolinguals' irrational beliefs, as compared to bilingual individuals, the present study indicates that there is a significant relationship between age and sex and irra-

Openly accessible at http://www.european-science.com

tional beliefs of monolingual and bilingual individuals and also this point provide area for further studies.

References

Calabria M., Hernández M., Branzi F. M., & Costa A. (2012). Qualitative differences between bilingual language control and executive control: evidence from task-switching. *Front. Psychol.* 2, 399.

<u>Christoffels</u>, I.K., <u>Kroll</u>, J.F., & <u>Bajo</u> M.T. (2013). Introduction and bilingualism and cognitive control, *Frontiers in psychology*, 4.

Dalgleisht, Williams, J.M., Perkins, N., Golden, A.J., Barnard, P.J., Yeung, C. (2007). Reduced specificity of autobiographical memory and depression : The role of executive processes. *J Experipsycho : General*, 136, 23-42.

Ellis, A. & Grioger, R.M.(1986). Hand book Retion-Emotive therapy (vol.2). New york : Springe.

Farah Bakhsh, K. (2004), Comparison and evaluation of irrational beliefs rate among depressed patients that are presented in psychiatric centers of Esfahan city with normal individuals. Master's thesis, Allameh Tabatabai University.

Hamers, J.F & Blanc, H.A. (2000). *Bilinguality and bilingualism* (2nd ed.). New York, NY: Cambridge University Press.

Kormi-nouri.R, Shojaei,R.S., Moniri,S., Gholami,A.R, Akbari-zardkhanr,S.(2008). The effect of childhood bilingualism on episodic and semantic memory tasks. *Scandinavian Journal Of Psychology*, 49,93-109.

Pavlenko A.(2007) autobiographic Narratives as data in Applied Linguistics. *Applied Linguistics*, 28,163-188.

Rogers ,C. L., Lister ,J.J., Febo ,D.M, Besing ,J .M., &Abbrams ,H .B .(2006). Effects of Blingualism ,noise ,and reverberation on speech perception psycholinguistics ,27 ,465-485.

Soleymaniyan, A.A (2004). Evaluation of Effect of irrational beliefs(based on a cognitive approach) on marital dissatisfaction in married student and teachers of Islamic Azad university of Bojnord city. Master's thesis, AllamehTabatabai University.

Sorani, M. (2006). Comparison of effect of individual and group counseling techniques with emphasis on rational – emotional techniques, in reducing irrational belief of single male students of teaching field, 24-18 years of basic sciences in Ahvaz, Master's thesis, Allameh Tabatabai University