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To determine neuropsychological functioning among young adults

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Abstract

Neuropsychology is the branch which studies relationships of brain and behavior. It emphasis on how the brain produces different responses to different stimulus. Neuropsychological functioning plays an important role as all the cognitive skills such as memory, language and attention changes and individual's life if not functioning properly. So, young adult whose neuropsychological functioning are operating healthy have good I.Q and performs everyday functions easily.

Neuropsychological functioning are very much related for the young adults some other variables like major depressive disorder is also an indicator for them. Bernhard T. Baune et.al. (2014)

Impact of neuropsychological functioning has also been found effective among young adults with other variables like alcohol addiction and others. (Karen L. Hanson et.al.2011)

So, an attempt has been made to study the neuropsychological functioning among young adults. 20 males and 20 female subjects have been taken for the study. Adult Neuropsychological Questionnaire of Fernando Melendez (1978) has been used for the present study. Results indicate that male subjects showed slightly weaker neuropsychological functioning compared to female subjects of the study (Male= 15.85, Female= 15.15). Female subjects also showed more variability of responses compared to male subjects (Male S.D.= 6.29, Female S.D = 7.94). "t" value has been found significant at 0.05 level.

Therefore, the neuropsychological functioning of male and female subjects has been found in this study.

Introduction

Neuropsychological functioning is related to neurological and psychological coordination among a person which is very important to see in the normal subject whether they have any psychiatric complication has or not. It is very important to find out the neuropsychological functioning to detect whether the person has any mental disorder or not. So, this measure is an essential component for screening mental elements to find out a clear-cut demarcation with the normal subject.

Neuropsychological functioning is very much related for the young adults some other variables like major depressive disorder is also an indicator for them. Bernhard T. Baune Margarete Fuhr Tracy Air Carola Hering (2014)

Impact of neuropsychological functioning has also been found effective among young adults with other variables like alcohol addiction and others. Karen L. Hanson, Krista Lisdahl Medina, Claudia B. Padula, Susan F. Tapert Sandra A. Brown Mar 2011)

Methods

Objectives

1. To find out the level of neuropsychological functioning among young adults aged between 20-30 years
2. To see the comparisons between male and female subjects aged between 20-30 years in respect to neuropsychological functioning.

Hypothesis

1. There will be no significant relation among young adults aged between 20-30 years in respect to neurological functioning. (H_0)
2. There will be no significant relation in comparison with male and female subjects aged between 20-30 years in respect to neurological functioning. (H_0).

Samples

20 males' subjects and 20 female subjects have been taken for the present study who belonged to middle socio-economic status. All the subjects have completed class 12 exams. Their age ranges from 20-30 years.

Inclusion Criteria

1. All subjects belong to middle socio-economic status.

2. All subjects have completed class 12 exams.
3. All subjects have been taken whose ages range from 20-30 years

Exclusion Criteria

1. No subject has been taken who is below 20 years or above 30 years of age.
2. No subject has been taken who does not belong to middle socio-economic status.
3. No subject has been taken who is below the qualification of class 12 pass.

Tools

Adult neuropsychological questionnaire was developed by Fernando Melendez in 1978. It has altogether 54 items on neuropsychological functioning and the response pattern is in yes or no manner.

Procedure

20 male and 20 female subjects were taken for the present study. They were instructed properly for the neuropsychological questionnaire. The booklet was distributed to them and the responses were recorded. After that, the scores have been tabulated and analyzed statistically. Then discussions were made and conclusion was drawn.

Results and Discussions

Table no.1 Showing the score of female subjects.

Serial no	Score	Mean	S.D.
1	15	15.15	7.94
2	22		
3	8		
4	12		
5	6		
6	13		

7	15
8	16
9	17
10	36
11	14
12	14
13	19
14	12
15	15
16	27
17	5
18	0
19	14
20	23

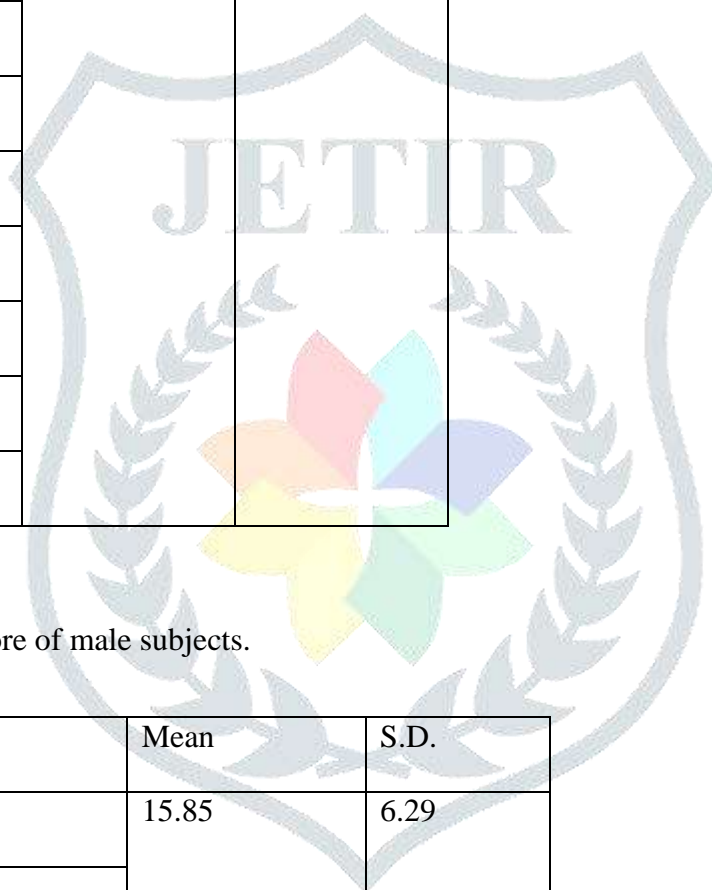


Table no. 2 – Showing the score of male subjects.

Serial no	Score	Mean	S.D.
1	5	15.85	6.29
2	10		
3	7		
4	23		
5	15		
6	13		
7	21		
8	12		

9	18		
10	8		
11	11		
12	14		
13	19		
14	12		
15	20		
16	24		
17	26		
18	14		
19	26		
20	19		

Table no 3. Showing comparison of scores between males and females subject in neuropsychological functioning

Category	Mean	S.D.	T	P	Remarks
Males	15.85	6.29	0.7590	0.3090	Significant at 0.05 level
Females	15.15	7.94			

Discussions

From the above results, it has shown that both male and female subjects have shown very less in neuropsychological functioning. There mean scores reveal that male subjects have shown slightly greater score compared to female subjects, it indicates that males are slightly more prone to neuropsychological dysfunctions. From S.D. value, it has revealed that females have shown more variability in scores compared to males. 't' value indicates that the difference

between two mean scores are statistically significant which means score of male subjects differs from the other significantly.

The findings of the study are inline with the previous research findings (Bernhard T. Baune et.al. 2014). Contradictory findings have also been observed in the previous research findings (Karen L. Hanson et.al.2011).

Therefore, it may be said that both the subjects in the present study have scored very less to be prone to neuropsychological malfunctioning. Among the two groups, males showed more prone towards neuropsychological dysfunctions compared to its female counterparts. The difference between two means have found to be significant at 0.05 level, hence the difference is statistically significant.

Conclusion

From the above findings, it may be concluded that both the groups in the present study have shown less prone to neuropsychological dysfunction and the male subjects are slightly more prone towards dysfunction compared to the other group. So the null hypothesis has been rejected and alternative hypothesis has been accepted. So, the neuropsychological functioning among young adults have been found in the study.

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