

An Exploratory Study on Opinion of Tracking System For Patient With Dementia among Mental Health Team Member of Pune City

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Abstract

Introduction and objective: **Patient with dementia who wander are at high risk of harm self and pose threat to self and stress and worry for care givers too. Care givers feel under stress and worry due to this symptoms.** The objective of this study was to to determine the opinion from mental health care team member or tracking system for patient with Dementia and to find association between opinions of mental health team members and selected demographic variable. **Material and Method:** Quantitative Non-Experimental research approach was used and research design was Descriptive Exploratory Research Design to explore on opinion of tracking system for patient with dementia among mental health team member of Pune city. Sample size was 30 and non-probability convenience sampling technique. Tool had two sections. Part A involved the demographic variables age, gender, marital status, designation, and years of experience and part B was structured opinionnair 0 to 2 numerical rating scale which is further divided into 3 categories Yes, No, Don't Know. **Result:** Mental health team members is in opine for demand of tracking system for patient with dementia. ANOVA test used to check the association between opinion of mental health team member and selected demographic variable. The p-values are less than 0.05, there is a significant association between opinion of mental health team member and years of experience of mental health team members and with other demographic variables there is no any significant association.

Key Words: Tracking system, Dementia, Opinion, Mental health Team Member

Introduction

Dementia is characterized by deterioration in memory, decision making, behaviour, language and ability to do daily activities. Cognitive function declines like forgetfulness. Monitoring is very important, it is demanding and crucial.

Patient with dementia who wander are at high risk of harm self and pose threat to self and stress and worry for care givers too. Care givers feel under stress and

worry due to this symptoms. Though tracking system are available of different variety and very costly this helps in locating the patient and to minimise risk and security to patient.

Study said that the sample emphasized malfunctions and usage difficulties of the device, which made that, not appropriate to her needs^[1].

A Study focused on various factor like network signal strength, weather condition, and location, in testing for the parameters set^[2]

For monitoring tracking system would more easy and comfortable for care givers. Felt need by researcher for the tracking system which would cost effective and the present study focused on the opinions from the mental health team for the tracking system for patient

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with Dementia to minimise the burden on caregivers

Objective :

- To determine the opinion from mental health care team member or tracking system for dementia patient.
- To find association between opinion of mental health team member and selected demographic variable.

Hypothesis:

H₀: There is no relationship between tracking system with dementia patient among mental health team member of Pune city.

H₁: There is relationship between tracking system with dementia patient among mental health team member of Pune city.

Material and Method

Quantitative Non-Experimental research approach was used and research design was Descriptive Exploratory Research Design to explore on opinion of

tracking system for patient with dementia among mental health team member of Pune city. Tool had two sections. Part A involved the demographic variables age, gender, marital status, designation, and years of experience and part B was structured opinionnaire 0 to 2 numerical rating scale which is further divided into 3 categories Yes, No, Don't Know.

To ensure the content validity of tool, it is validated from experts from field of Psychiatrist, Psychiatric nurse, Counsellor, Psychologist, Researcher, mental health professor and statisticians. Suggestions given by them were taken under consideration and modification of the tool was done as per the recommendations. Reliability was established by Cronbach's alpha and it was 0.806. Thus the tool was found to be highly reliable.

After obtaining the written consent from each sample, opinionnaire was administered.

Findings: The data was analysed using descriptive and inferential statistics.

Sections 1: Description of demographic variables

Table 1.1: Demographic variables n=30

Variables		Frequency(n)	Percentage (%)
Age (In years)	25-30	17	56.7
	30.1-35	7	23.3
	35.1-40	3	10.0
	40.1-above	3	10.0
Gender	Male	19	63.3
	Female	11	36.7
Marital Status	Married	13	43.3
	Unmarried	17	56.7
	Divorced	0	0.0

Cont... Table 1.1: Demographic variables n=30

Designation	Psychiatrist	3	10.0
	Psychologist	4	13.3
	Psychiatric clinical nurse	3	10.0
	Psychiatric social worker	10	33.3
	Counsellor	10	33.3
Years of Experience	2-5 years	14	46.7
	5.1-15 years	13	43.3
	15.1 and above	3	10.0

Section II: Analysis of Data related to the opinion of mental health team members on tracking system for Patient with Dementia

Majority (92%)of Mental health team members opine for the use of tracking system for Patient with dementia and (8%) of the members are not in opinion of use of tracking system for patient with Dementia

Section III: Analysis of data on association between opinion of mental health team member and selected demographic variable.

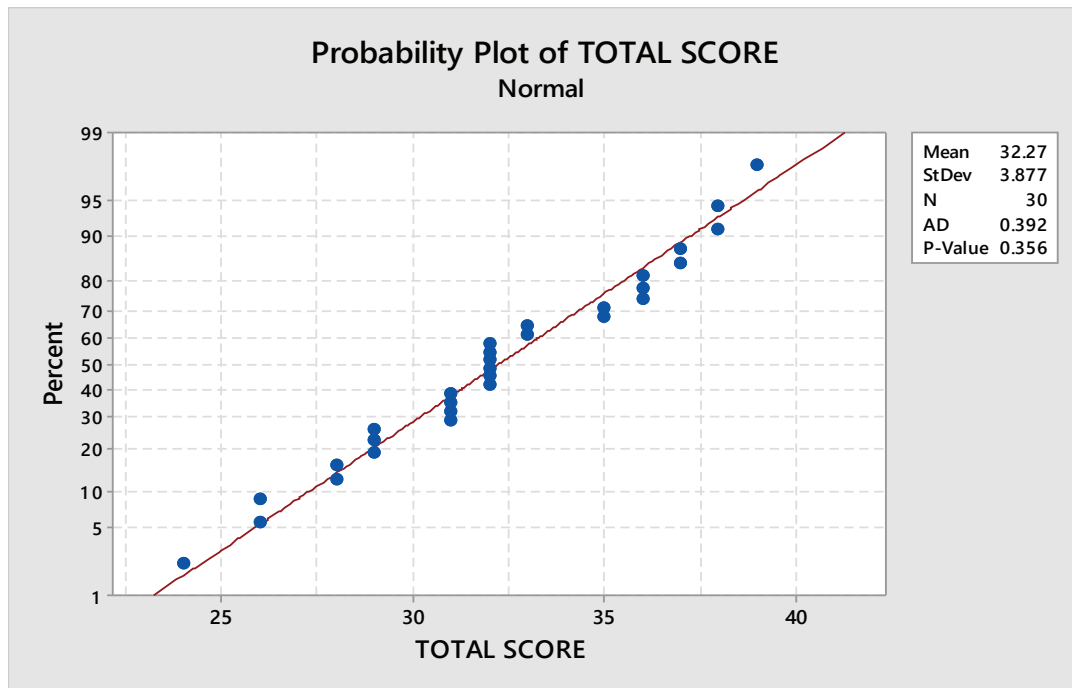


Fig.No 1.1: shows that data is normal and used ANOVA test to check the association between opinion of mental health team member and selected demographic variable..

p- Value is 0.028, less than 0.05 rejecting H_0 (Null Hypothesis) . It shows there is significant association opinion of mental health team member and years of experience. In other demographic variable the p-Value is greater than 0.05 so there is no significant association between opinion of mental health team member and other demographic variables.

Discussion

Present study findings shows Mental health team members opine for the use of tracking system for Patient with dementia and so there is no significant association between opinion of mental health team member and other demographic variables

The caregivers provide fondness to patients' safety more than autonomy when they are responsible for the patients^[3]

Findings highlight the current lack of high-quality evidence to determine whether Assistive technology is effective in supporting people with dementia to manage their memory problems^[4].

Conclusion: Mental health team members are in favour to for use of tracking system for patient with dementia. The health care professional and caregivers knows that there is a hope of Patient with Dementia care which can improve their condition, quality of life, daily activities.

Conflict of Interest: Nil

Source of Funding: None

Ethical Consideration: Study was approved at Institute Ethical sub committee. Informaed concerned from each sample been taken for the study. Privacy and confidentiality maintained

References

1. V Faucounau , M Riguet, G Orvoen, A Lacombe, V Rialle, J Extra, A S Rigaud. Electronic Tracking system and Alzheimer's Disease: A Case study. *Ann Phys Rehabil Med.*2009;52(7-8):579-87
2. M. B. Mendoza, C. A. Bergado, J. L. B. De Castro and R. G. T. Siasat, "Tracking system for patients with Alzheimer's disease in a nursing home," *TENCON 2017 - 2017 IEEE Region 10 Conference*, Penang, 2017, pp. 2566-2570, doi: 10.1109/TENCON.2017.8228294.\
3. Ruth Landau, Gail K Auslander, Shirli Werner, Noam Shoval, Jeremis Heinik. Families and Professional Caregivers views of using advanced technology to track people with Dementia . *Qual Health Res.* 2010 Mar;20(3):409-19
4. Henriette G Van der Roest, Jennifer Wenbrn, Channah Pastink, Rose Marie Droes, Martin Orrell. Assistive Technology for Memory support in dementia. *Cochrane Database Syst Rev* . Jun 11;6(6):CD009627.