Research Article ISSN 2835-6276

# American Journal of Medical and Clinical Research & Reviews

The Relationship Between Occupational Therapy Activity and The Level Of Creativity in Schizophrenia Patients at the Liquiça Inpatient Health Center in The Municipality of Liquica (2025).

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Received: 17 Jan 2025; Accepted: 05 Feb 2025; Published: 15 Feb 2025

**Citation:** Carlos Boavida Tilman. The Relationship Between Occupational Therapy Activity and The Level Of Creativity in Schizophrenia Patients at the Liquiça Inpatient Health Center in The Municipality of Liquica (2025). AJMCRR. 2025; 4(2): 1-9.

#### Abstract

Introduction: Someone who suffers from mental disorders, such as schizophrenic patients, experiences personality disorders, such as deviations of thoughts, perceptions and so on emotion. One method of treatment therapy in schizophrenic patients is the occupational therapy method. Occupational therapy is the cure or recovery of the individual with the analysis and use of activities that aim according to the needs of each individual.

**Research Objective:** This study was to determine the relationship between occupational therapy activity and creativity level in schizophrenic patients at the Community Health Center of Liquiçá.

Research Methodology: This type of investigation is a quantitative investigation with a research design using a correlative descriptive design. The research sample consisted of 80 schizophrenic patients. Samples were collected based on the bed occupancy rate of patient visits after occupational therapy activity. Research instruments derived from the number of consultations after occupational therapy. Evaluation of creativity derived from the questionnaire. In the analysis of the research data using the Chi-square test, covariance, linear regression and correlation coefficient.

**Discussion Results:** It is based on the analysis of the test with statistical covariance, linear regression and Pearson's correlation coefficient between the variables (independent and dependent) the value r = 0.2172 with a percentage of 4.7% or 5%, so the value it presents has a relationship between occupational therapy activity and the level of creativity cited by (Tilman CB., et al, 2025).

**Conclusion:** Between two variables (independent and dependent) there is a positive relationship between occupational therapy activity and the level of creativity.

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**Keywords**: Occupational Therapy; Activity; Creativity; Schizophrenic patients.

#### Introduction

highest rate affecting 222 people (0.45%) among according to the date of researching. adults. It is not as common as many other mental (Sarwin, Arman, & Gobel, 2022)

technological factors. In this number, mental dis-The process in today's life, it presents several areas orders often caused by disturbance, schizophrenia that are: economic, cultural, technological and po- and depression, which result in suicide in the area litical area that has happened in the world also in- that makes them angry. According to the prevacludes in our country of Timor-Leste. In these life lence of data from the Health Service report in the progressions give their influence directly and indi- Municipality of Liquiçá for 2021, it reports that the rectly to the development of human life and life mental disorder in Liquicá registered is 861 cases will be very difficult in the diverse complexity and (337 men and 484 women). Therefore, 399 cases also increases the number of the psychosocial per- have been found to be treated at the health facility son because the world rarely has the change in its where they were composed of 174 men and 225 globalization, and the person also faces the prob- women. From January to May 2022, approximately lem like depression or burnout. According to data 58 cases (31 men and 27 women) were registered. from the World Health Organization (WHO, 2024; The cases of 58 people had already found treatment cited by Tilman CB., et al, 2025), schizophrenia (31 men and 27 women). In these cases, the mental affects approximately 24 million worldwide, the disorder happens mostly to men than to women,

disorders. Onset is most often during late adoles- The National Strategic Plan for the Health Sector cence and twenties, and onset must happen earlier (PENSS) 2011-2030, had a good strategy to solve among males than among females. With the epide- the problems of the health sector and to improve miology studies in 2018 states that the prevalence the social economy of the country and also improve rate of schizophrenia in Indonesia is 3% to 11%, national peace and stability. The national health experiencing a 10-fold increase compared to the system represents the interdependent elements that 2014 data, with a prevalence rate of 0.3% to 1%, has been collaborated with health to give the best usually occurring in age and 18 to 45 years.(2022) to communities facing various problems such as the psychosocial environment. Occupational therapy is characterized as the health profession that Statistical data from the Ministry of Health of Ti- promotes the development, treatment and rehabilimor-Leste (MdS-TL, 2023), reports that Timor- tation of individuals or groups in need of physical, Leste with mental disorder, even more major prob- psychological and/or social care, in order to expand lems in public health, in 2021 registered 30 cases, their performance and social participation, through 2022 registered 56 cases and in 2023 registered instruments that involve specific activities to help 1040 cases. These cases were treated externally and people achieve their maximum level of function internally at the Guido Valadares National Hospital and independence. The occupational therapeutic (HNGV) in Dili, in the cases he always says in-process can be developed both individually and in a creases every year, because the factors that influ- group and/or occupational way and it is necessary ence more strongly than the economic, cultural and to consider the patient's degree of commitment and

**AJMCRR, 2025 Volume 4 | Issue 2 | 2 of 9**  and the time of evolution of the disease, in addition patient while doing an activity, by interacting with to their ability to adapt, way of relating, ability to the group, and by evaluating the results of their express themselves verbally, among other elements work. Through this activity, human beings can into have the idea of which therapeutic process would teract with their environment, learn, experience a be more appropriate to the needs of the subject, skill or knowledge, satisfy a physical and emotional such as. (Salineiro, Arruda, & Alves, 2002)(Bona & Souza, patient will be taught to solve the problem in the 2020)

in the municipality, with the inclusion of mental (2022) health promotion actions, thus envisioning the implementation of new models for the prevention of Research Objectives: family and friends) who performed an interaction the Liquiçá Inpatient Health Center, 2024. of personality perception of inactivation to help solve problems and achieve goals (Tilman CB, et Specific Objectives: al., 2025). Based on a preliminary study at the 1. To determine the performance of occupational Community Health Center of Liquiçá, on July 4, 2024, the number of people with mental disorders 2. were caused by the economic, cultural, technologi- 3. cal, and political with the primary data are 97 patients with men 47 patients and women 50 patients and the secondary data are 108 patients with men 67 patients and women 41 patients. Therefore, the **Theoretical Framework** primary and secondary data that participated in oc- The term schizophrenia derives from the Greek Health Center. Occupational therapy at the Com- Schizophrenia

motivation, as well as their predominant symptoms and rehabilitation. It can be done by observing the also, concerning its limitations. need, express feelings and develop their talents, the patient's way taught to discuss with friends after complementing an activity, with the activity, it is The Community Mental Health project develops in expected that the patient will be able to communithe Community Health Center of Liquiçá, aims at cate better to express himself in his suffering and the implementation of a Community Mental Health expect that there will be better living conditions network articulated with basic family health actions cited by (Tilman CB., et al, 2025). (Barros, 2010)

the individual's psychic suffering, of the family and General Objectives/ Aims: To determine "a relathe community. The therapeutic relationship is a tionship between occupational therapy activity and relationship of more than two people (patients/ the level of creativity in schizophrenia patients at

- therapy in schizophrenic patients.
- Discover creativity in schizophrenic patients.
- relationship To determine the between occupational therapy activity and the level of creativity in schizophrenic patients.

cupational therapy, and this number of patients do- scherzo (divide) and frenal (mind) which means ing occupational therapy differs, because some pa- unfolded, divided mind, that is, a fragmentation of tients stay at home because they do it in patients at mental functions, where the subject finds himself home and other patients doing it in the Mental with a disassociated thought referring to reality. causes distorted and bizarre munity Health Center of Liquiçá applied to schizo- thoughts, perceptions, emotions, movements, and phrenia can help in diagnosis, therapy, evaluation behavior. Schizophrenia is a complex psychiatric

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disorder that influences virtually every aspect of functioning, from psychological well-being to social adaptation to health and self-sufficiency. Schizophrenia is a serious chronic mental illness that causes changes in perception, thoughts and behaviors and is characterized by positive, negative 4. and cognitive symptoms. (Bona & Souza, 2020) (Videbeck, 2020)(Antony & Barlow, 2020) (Vasconcelos, 2015)

The signs and symptoms of schizophrenia are usually grouped into three main types. (Antony & Barlow, 2020)

- a. Positive symptoms refer sensory in individuals without psychiatric illness.
- psychiatric disorder.
- ability to attend.

### Classification of schizophrenia

- 1. Paranoid schizophrenia: and aggressive behavior.
- 2. Disorganized schizophrenia: characterized by disorganized behavior.
- 3. Catatonic schizophrenia: characterized by cess may include: marked psychomotor disturbance, absence of 1. Review of the client's history (e.g. medical, movement, or excessive motor activity. Motor

flexibility) or stupor. Excessive motor activity seems to have no purpose and is not influenced by external stimuli. Other factors include negativism, mutism, extreme quirks voluntary movements, echolalia, and ecopraxia.

- Undifferentiated schizophrenia: characterized by mixed (or other) schizophrenic symptoms, along with disturbance of thought, affect, and behavior.
- 5. Residual schizophrenia: characterized by at least one previous, though not current, episode; social withdrawal; flat affect; and derailment of associations.

experiences, thoughts, and behaviors present in The Occupational Therapist is a professional who people with schizophrenia, but typically absent has his work focused on the field of human activity, contemplating essential actions related to selfb. Negative symptoms are defined by the absence care, leisure, education and work (Barros, 2010). or decrease of behaviors and emotions that are Occupational therapy is characterized as the health normally present in people without a profession that promotes the development, treatment and rehabilitation of individuals or groups in c. Cognitive symptoms refer to deficiencies in the need of physical, psychological and/or social care, in order to expand their performance and social participation, through instruments that involve specific activities to help people achieve their maxicharacterized by mum level of function and independence. Occupagrandiose and persecutory delusions and tional Therapy is defined as the therapeutic use of hallucinations (feeling of being a victim or occupations of daily life with people, groups or being spied on) and, occasionally, excessive populations with the aim of reinforcing or enabling religiosity (delusional religious focus) or hostile participation. (Salineiro, Arruda, & Alves, 2002) (Gomes, Teixeira, & Ribeiro, 2021)

Hypo modulated or inappropriate affect, In some contexts, the occupational therapist initialincoherence, loose associations, and extremely ly conducts a screening to determine the need for a thorough occupational therapy evaluation, this pro-

- health, social or academic records),
- immobility may manifest as catalepsy (waxy 2. Consultation with an interprofessional team or

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- the team that referred you, and
- 3. Use of standardized or structured screening instruments.

Occupational therapy process is the provision of three parts of the process include:

- tion.
- service delivery models. In the second process, 2020) namely for intervention to achieve in three phases in the following:
- Treatment plan formation (intervention plan) lected for by the patient.
- tal health treatment guide.

As a process of ability to influence the relationship pendent variable, where all variables are observed between job performance or activities to support only at the same time. Researcher in taking this participation.

Review the therapy given and then evaluate it An ongoing process to evaluate and review previ- phrenic patients. We used to collect with the quesous intervention plans, the effectiveness of their tionnaire and the data collection source in this implementation, and the degree of progress toward study includes primary data and secondary data. the final goal.

Outcomes and outcomes emerge from the Occupational Therapy process and describe the goals that patients can achieve through the Occupational Therapy intervention.

patient-centered occupational therapy services. The The activities foreseen in occupational therapy can be in the form of crafts, drawing, painting, dance, 1. Evaluation: The evaluation process is focused music, theater, recreation, health promotion, activion determining what the customer wants and ties of daily living (ADL). These activities are therneeds to do; determine what the customer can apeutic in nature and prepare patients for the comdo and has done; and identify enabling factors munity or referred for rehabilitation. This activity and barriers to health, well-being and participa- is carried out individually or in a group. The role of occupational therapy and occupational therapy is 2. Intervention to achieve (treatment) and the in- extremely important in the patient's recovery, as it tervention process consists of services provided works with the individual's functionality, works on by occupational therapists in collaboration with daily activities such as combing hair, brushing patients to facilitate engagement in occupation teeth, eating, wearing clothes, as well as physiorelated to health, wellness, and achievement of therapy with the existing activity movement menestablished goals consistent with the various tioned by (Tilman CB., 2025). (Bona & Souza,

## **Research Methodology**

This type of research is quantitative research with a A plan that is built on the basis of the results of the Correlative Descriptive research method, namely a assessment process and describes the occupational research project that aims to find a relationship betherapy approach and the type of intervention se- tween two variables. While the research method used is Cross Sectional, that is, the research that Implementation of planned therapy in the men- aims to study the relationship, as well as the influence between the independent variable and the desample used a Stratified random sampling technique with total sample consisted of 80 schizo-Analyzing the data uses the Statistical Package for the Social Sciences (SPSS) computer program version 24.

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### **Discussion Results**

Table 4.1. Frequency distribution of the Sample questions with independent variable 15 questions Gender.

Sex.	Frequency (n)	Percentage (%)
F	43	54
M	37	46
Total	80	100

Based on data collection, the total sample of 80 respondents was composed of 43 or (54%) female people and 37 or (46%) male people.

Table 4.2 Frequency distribution of sample age.

	Female		l	Male	To	tal
Age	$f_F$	(%)	$f_{M}$	(%)	$f_a$	(%)
19 - 27	3	3,8	1 0	12,5	13	16,3
28- 36	6	7,5	8	10	14	17,5
37- 45	1	13,8	2	2,5	13	16,3
46- 54	1 2	15	5	6,3	17	21,3
55- 63	3	3,8	5	6,3	8	10
64- 72	4	5	4	5,0	8	10
73- 81	1	1,3	3	3,8	4	5
82- 90	3	3,8	0	0	3	3,8
Tot al	4 3	54	3 7	46	80	100

It is noted in the data collection of the respondents starts with 19 to 90 years of age in the majority that Table 4.6 Summary of Count Values Before and collects with 17 (21.3%) people aged between 46 After Conversion and 54, with the 28-36 age 14 (17.5) people and 19 -27/37-45 age with 13 (16.3%) people.

Table 4.3 Type of variable, scale, total number of question respondents.

Variable Type	Independent	Independent
Variable Type	Variable	Variable
Total	80	80
Total questions	15	7
Symbol	X (TO)	Y (NC)
Scale	Ordinal	Ordinal
	4,3,2,1	4,3,2,1

Based on this table 4.3, each two variables have 22 and dependent variable 7 questions uses with ordinal scale and Likert scale.

Table 4.4 Count of the possible values obtained from the questionnaires.

Counting of values or scores					
Scale	X (TO)	Y (NC)			
4	60 (=4x15)	28 (=4x7)			
3	45 (=3x15)	21(=3x7)			
2	30 (=2x15)	14 (=2x7)			
1	15 (=1x15)	7(=1x7)			
Value: Scale	Value: Scale	Value: Scale			
from 1 to 4	from 15 to 60	from 7 to 28			

It can be seen from this table 4, the values of the school (1 to 4) have obtained different maximum and minimum values in the variable X (it is from 15 to 60) and variable Y (it is from 7 to 28), I need to level (transform the values) of X and Y, in the research application mechanism.

Table 4.5 Counting of conversion values.

Scal e	To (X)	NC		NF (X)	NF(Y)
4	60	28		10 (=) 60/6	10 (=28/2.8)
3	45	21	Conve rt	7.5 (=45/6)	<b>7.5</b> (=21/2.8)
2	30	14		5 (=30/6)	<b>5</b> (=14/2.8)
1	15	7		<b>2.5</b> (=15/6)	<b>2.5</b> (=7/2.8)

	Aspe cts	Symbol	Exam ple			Observa	tion		
	Resp onder	$R_{i}$ ; $i = 1, 2, \dots$	$R_{01}$ ;;; $R_{02}R$	To tal	Av era ge	Varia nce	Sta nda rd devi atio n	M a x	M in
				Value 1	Pair				
I	Befor	$X_i$	31; 33; ; 41.	27 22	34, 0	26,8	5,1	4 4, 0	2 4, 0
	e	$Y_i$	15; 14; ; 11.	10 18	12, 7	1,9	1,4	1 6, 0	1 0, 0
	Conv	$X_i$	5; 6; ; 5.	46 0	5,8	0,7	0,8	7, 0	4, 0
	erted	$Y_i$	5; 5; ; 4.	36 4	4,6	0,3	0,5	6, 0	4, 0
				Covariance $(X, Y) = S_{xy} = 0.1025$					

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Table 4.7 Frequency Distribution of Variables X and Y.

Score	Frequencies (People)				
(Score Values)	FX	Fm			
V1=4	3	38			
V2=5	32	40			
V3=6	27	2			
V4=7	18	0			
Total	$\sum (F_x)_{=80}$	$\sum (F_Y)_{=80}$			

Table 4.8 The normality test of variable X (Occupational therapy)

В	ound	A	rea	Free	Frequency		
Xi	$\mathbf{Zi} = \left(\frac{Xi - \overline{X}}{Sx}\right)$	Curve Limit	Intervale	Expectation (Hey)	Note (Hi)	$\frac{(Oi-Ei)}{Ei}$	$\left(\frac{(Oi-Ei)}{Ei}\right)^2$
3,5	-2,88	0,498					
			0,0496	3,968	3	-0,2439516	0,0595124
4,5	-1,63	0,4484					
			0,3004	24,032	32	0,3315579	0,1099307
5,5	-0,38	0,148					
			0,4586	36,688	27	-0,2640645	0,0697301
6,5	0,88	0,3106					
			0,1728	13,824	18	0,3020833	0,0912543
7,5	2,13	0,4834					
		Tot	tal		$\sum (F_x)_{=80}$	$X^2_{Calculate} =$	0,330427469

The criterion of the test is as follows:

$$\begin{cases} H_o &: Se \ X_{calculate}^2 \leq X_{table}^2; the \ sequency \ normal \ data \\ H_a &e \ X_{calculate}^2 > X_{table}^2; the \ non \ sequencies \ normal \ data \end{cases}$$

To obtain  $X_{table}^2$ ; determines the level of significance (; degree of freedom gl = for is total class (in this case, therefore, gl = 4-1=3. Query in the Chi-Square table (see  $\alpha = 5\%c - 1$ ; cc = 4. appendix 9. Table Chi Square) will get. Like this. It concludes that the data of variable X follow the normal distribution (Accepted).  $X_{table}^2 = 7.8147X_{calculate}^2 = 0.3304 \le X_{table}^2 = 7.8147H_0$ 

Table 4.9 The normality test of variable Y (Level of Creativity)

Во	und	Aı	rea	Frequ	Frequency		
Yi	$Zi = \left(\frac{Yi - \bar{Y}}{Sy}\right)$	Curve Boundary	Intervale	Expectation (Hey)	Observation (Hi)	$\frac{(Oi-Ei)}{Ei}$	$\left(\frac{(Oi-Ei)}{Ei}\right)^2$
3,5	-2,00	0,4772					
			0,4772	38,176	38	-0,00461023	2.12542 (E-05)
4,5	0,00	0	0				
			0,4772	38,176	40	0,047778709	0,002282805
5,5	2,00	0,4772					
			0,0228	1,824	2	0,096491228	0,009310557
6,5	4,00	0,5					
		Tot	al		$\Sigma(F_y)_{=80}$	$X_{Calculate}^{2} =$	0,011614616

The criterion of the test is as follows:

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$$\begin{cases} H_o &: Se\ X_{calculate}^2 \leq X_{table}^2; the\ sequency\ a\ normal\ data \\ H_a &e\ X_{calculate}^2 > X_{table}^2; the\ non\ sequency\ of\ normally\ data \end{cases}$$

To obtain  $X_{table}^2$ ; determines the level of significance (; degree of freedom gl = for is total class (in this case, therefore, gl = 3-1=2). Query in the Chi-Square table (see appendix 9. Chi Square Table) will

$$\alpha = 5\%c - 1; cc = 3.X_{table}^2 = 5,9915.X_{calculate}^2$$
  
0.0116  $\leq X_{table}^2 = 5,9915$  like this. It concludes that the data of variable Y follow the normal distribution (Accepted).  $H_o$ 

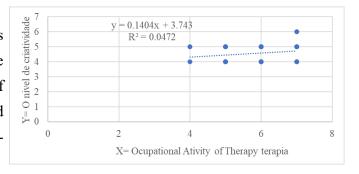
The next analysis will be to answer the question "is there a relationship between the variables we have (in this case X and Y)?" For this, the covariance of two variables, the linear regression of X and Y, and Pearson's correlation coefficient () will be summarized in the following table.  $R^2$ 

Table 4.10 The relationship between the variables (X and Y)

Type of relationship analysis between variables (X							
and Y)							
Covaria	Linear regression	Coef. Parsons					
nce	$\widehat{Y}_a + bX$	correlation					
=Coef.	= ** ' ***	$S_{xy}$					
(X, Y)		$r = \frac{S_{xy}}{S_x \cdot S_y}$					
0.1025 >	y = 0.1404x + 3.743	r = 0.2172 =					
0, this	b=0.1472 > 0, this	> 0					
means	means that there is a	0.2172. > 0					
there is a	positive relationship	$r^2 = 0.0472$					
positive	between the variables						
relation-	of X and Y.	$(0,2172)^2$					
ship be-		It means there is a					
tween		right correlation					
variables.		of 4.72% between					
		the variables of X					

The relationship between variables of (X and Y), with the covariance value 0.1025 > 0, the coefficient b = 0.14040 of the linear regression equation and Parsons' correlation coefficient r = 0.2172 > 0, all this means that there is a positive relationship between the variables of (X and Y). The relationship between the variables is more detailed in linear regression.

Figure 4.1. Relationship between variables X and Y with linear regression.



#### **Conclusion**

Based on the results of the research and discussion in the previous chapter that the researcher takes the form; Patients with schizophrenia actively participate with the activity of occupational therapy and change of thinking to create a good in the family and in society, so patients with mental disorder always have a good relationship with families and society in the Liquiçá Administrative Post of the Municipality of Liquiçá Timor-Leste cited by (Tilman CB., et al., 2025).

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