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# MINDFULNESS-BASED COGNITIVELY THERAPEUTICS' EFFICACY: A QUASI EXPERIMENTAL ANALYSIS

Shilpie Sharma\*Dr. Ravindra Kumar\*\*

## **ABSTRACT**

The present study deals with Quasi Experimental Analysis of mindfulness-based cognitively therapeutics' efficacy for reducing rumination and measure of self-compassion in patients with severe treatment-resistant depressive symptoms. It is an empirical study to reach out to the results and the findings suggest that mindful based therapy significantly lower depression and ruminative thinking considerably within the experimental group and also enhanced intermediaries, such as attention and compassion. In a one-month follow-up time frame, patients maintained improvements. The present investigation contributed much farther evidence supporting the efficacy of Mindfulness based Cognitive behavior therapy for Treatment resistant depression.

**Keywords:** Mindfulness Based Therapy, Therapeutic Efficacy, Quasi Experimental Analysis

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#### 1. INTRODUCTION

Mindfulness-based psychotherapy has been shown to lessen introspection in both remitted and presently despondent participants. Even so, few have known about the potential of Mindfulness-based psychotherapy on introspection in severely depressed and treatment-resistant patients. Questionnaires are frequently used to evaluate introspection; however this establishes the uncertainty of assessment and recollect prejudices. A comprehensive review signifies including behavioral measures as well. The breathing focus process is a behavioural measure which has originally been used to evaluate introspection in dysphonic students. The analysis revealed that it was satisfactory to these participants and that it improved depression symptoms (pre-post Effect Size=0.98), with a substantial percentage of patients getting back to normal or near-normal emotional patterns. Mindfulness-based

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psychotherapy has shown promising potential in helping severely depressed and treatment-resistant patients with introspection and their overall well-being. While severe depression and treatment resistance can present significant challenges, mindfulness-based approaches offer an alternative or complementary treatment option that focuses on cultivating self-awareness, acceptance, and compassion. It's recommended for individuals to work with a qualified mental health professional who is experienced in mindfulness-based approaches and can tailor the therapy to their specific needs.

## 2. REVIEW OF LITERATURE

Patients with treatment-resistant depression decided to participate in the current investigation, which was a pseudo investigation. Purposive sampling was used to select the appropriate participants, who were then allocated to one of two different groups: experimental and control. The experimental group was given MBCT together along with antidepressants, while the control group was given only psychiatric drugs. The Hamilton and Beck Depression Assessment, as well as the Consciousness Scale, Thought Rumination Scale, and Mindfulness Scale, were used in the analysis. The treatment regimen consists of 8 sessions, with a one-month follow-up period after the therapy ended. Descriptive statistical analysis (Average and standard deviation) and inferential analysis (variance analysis (anova) for repeated measures and Bonferroni's post-hoc analysis) were used to evaluate quantitative data. Depression has an intense psychological, interpersonal, and financial impact on patients, their relationships, and social system, with 12-month prevalence and incidence ranging from 2.9 to 12.6% and lifetime risk ranging from 17 to 19%. (Kessler et al., 1994). The reality that melancholy is frequently a major depressive disorder, with treatment outcomes of 50-80% among those who have previously been distressed, has led to WHO's estimate that melancholy will be the worlds largest second most common cause of ill-health consequence by 2020 (Murray et. al, 2010, Williams, Crane, Barnhofer, van der Does & Segal, 2006; Keller, Lavori, Lewis, & Klerman, 1982; Powell et. al, 2019; Beautrais et al., 1996).

Furthermore, depression has yet another characteristic that is serious concern: the emergence of a protracted clinical course that is resistant to treatment. Patients in these circumstances express persistent depressive symptoms as well as concern over these symptoms. 1 year following symptom start, 15–39% of patients still satisfy requirements

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for Major Depressive Disorder (MDD), and 22% of cases may continue to do so up to 2 years later. The danger of suicide behavior in such people is particularly concerning. What causes people to be depressed? Responses from Nolen-Hoeksema (Nolen-Hoeksema, 2008), according to Styles Theory, people who engage in recurrent thoughts about their depressive symptoms likely to perpetuate the symptoms they are seeking to alleviate. Ruminators frequently maintain the optimistic (but incorrect) assumption that it will help, without recognizing that they are limiting their ability to handle problems successfully. Finding illustrates that the cognitive processes that make people more vulnerable to future episodes are the same ones that keep them depressed. Through constant attempts of purposefully attempting to return awareness to a neutral object (for example, the breath or bodily signals) in the current moment, MBCT advancements made to monitor their thoughts and emotions. Participants learn how to develop direct experience awareness as well as an unconditional positive regard accepting attitude regarding whatever is in front of them (Depressing emotions, for example, is prone to generate patterns of generalized negative self-referent perception in pateints with depressive symptoms.). Patients can observe when unpleasant and ruminative responses are being induced more explicitly when they acquire consciousness during mindfulness practice, and they can deviate from such tendencies.

Without a doubt, mindfulness has been the most rapidly spreading and popular concept in psychotherapy over the last two decades. It has a greater impact than any other individual concept or framework in modern psychotherapy. Nevertheless, there are numerous existential questions, unstructured interviews, and on controversies associated with this accelerated, almost fanatical spread, which evidently penalizes for a complete absence in modern centric communities. Analogously, we are experiencing a lack of contemplation, as well as a system of immense idealized version and the peruse for a natural remedy. All of this flows from colonialism and is bound to take over ideologies, research methodologies, and all the accompanying significant adverse: profit, consciousness, professional ethics, blank commitments of instant reward, and so on. Our article will examine the evolution of significance in mindfulness in psychotherapy, and even some scientific studies and challenges, as well as conceptual frameworks and methodologies for using mindfulness in psychotherapy. Implicit interpretations of some latent need in society also point out the dearth of reflective thinking, the quest for panacea and a methodology of enormous

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ideology (<u>Watkins</u>, 2008; <u>Watkins et. al, 20</u>11; Dimidjian, & Segal, 2015; <u>Jacobson</u>, <u>Martell & Dimidjian</u>, 2001; <u>Nolen-Hoeksema</u>, 1991, 2000; Teasdale, Chaskalson, 2011, Kolovos et. al. 2016; Tsang, 2018, Foroughi, et. al, 2020.)

#### 3. METHODOLOGY

Exploratory design (pre-test, post-test, and follow-up) with control and experimental groups is the research methodology. Patients with TRD included in the experiment. The appropriate sample size was determined using the frequency distributions reported in previous literature. A purposive sample strategy was used to choose 66 participants who were then assigned randomly to experimental or control classes. A database of all participants was first compiled, after which identities were selected at random from a bowl. The experimental class was assigned the very first name selected, followed by the control class, and so forth for all participants.

The experimental group was given MBCT as well as pharmaceuticals, while the control group was given simply antipsychotics. Every one of the participants that participated in the MBCT sessions were outpatients. The pharmaceutical regimen was as follows: patients were given a 60 mg citalopram dose for four to six weeks at first. They were given Sertraline at a maximal dose of 200 mg for four to six weeks leading to a shortage of response throughout this time. Bupropion was also administered in addition to sertraline. Antidepressant drugs were given at the right doses and for the right amount of time, but still no response to treatment was seen, therefore these patients were identified having TRD. The following tools were used in the present study:

- 1. SCID-DSM-IV (Abnormalities Standardized Psychiatric Assessment)
- 2. 2nd Edition of the Beck Depression Inventory (BDI-II)
- 3. The Hamilton Depression Rating Scale (HDRS) is a tool for assessing depression.
- 4. Short Form Self-Compassion Scale (SCS-SF)
- 5. Scale of Ruminative Response
- 6. Short Form Self-Compassion Scale (SCS-SF)

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# 4. DATA ANALYSIS & INTERPRETATION

Discussion	Aspects	<b>Implementation</b> at
		home
Orientation	Describing the rationalization for	
course	mindfullness based psychotherapy in context	
	of a person's personality and perceptions for	
	participating mindfullness based	
	psychotherapy.	
Discussion -	The phrase "fully automated pilot" is	Body scan, mindfulness
1	introduced, as well as how it makes a	of breathing, pleasant
	significant contribution to depressive	events and mindfulness
	episodes.	of regular activity.
	Paying attention to direct personal experience	
	via the sensory receptors as well as the body.	
Discussion -	Mode of doing and being. Being aware of	Conscious movement,
2	undesirable, pleasurable, and impartial	breath and stretch.
	perspectives while using the body to focus on	Ordinary spaces to
	the present	breathe.pleasurable
		happenings and regular
		activities'
Discussion -	Keeping the current perspective in mind.	Conscious progressing,
3	Using one's respiration and body as an anchor	stretching and breathing.
	to maintain a presence in the immediate	Ordinary spaces to
	situation	inhale.
Discussion -	Depression is associated with repetitive	Inhaling space
4	responses to an unfortunate incident.	in mindfulness.
	Remaining present throughout the face of	
	expertise.	

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	Ι				_		
Discussion -	There	is no need for	things to be dis	stinctive	Encounter and function		
5	than t	hey really are	. Embracing ex	xpertise,	properly with breathin		
	pertain	ing to it in a	particular pers	pective.	spaces in complexities.		
	Selecti	on and response	e				
Discussion -	Observ	ving emotions	as a product	of the	Choic	e of directed	
6	consci	ous mind. Tho	ught processes	are not	respira	atory spaces	
	the san	ne as factual inf	formation.		strateg	gies.	
	making	g reference to	assumed in a c	lifferent			
	contex	t					
Discussion -	Taking	g responsibility	for one 's action	ns when	Sitting	g meditation,	
7	one's d	lemeanour is sig	gnificantly low, i	eplying	respira	atory, evolving a	
	to one	s's own structu	re of advance	warning	course	e of action using a	
	sympto	oms of dist	tress, and b	ehaving	worksheet "Continuing		
	approp	oriately and expe	ertly		to work with intellect		
					and depressive		
					symptoms"		
Discussion -	Evalua	ting and observ	ring on one's stu	dying. I			
8	promis	se to continue pr	racticing mindfu	lness.			
Continuation	Encou	raging people	to practice mine	dfulness			
	on a re	gular basis, sha	re their stories, a	ınd gain			
	knowle	edge from each	other as well.				
Table 2 - Com	parativ	ve analysis amo	ong the research	group o	f demo	graphic trends	
		Experimental	class	Contro	l class		
		frequency	(%)	frequer	ncy	(%)	
Female		5	65.6	6		75.7	
Male	Male 4 34.4 3		3	24.3			
<b>Educational s</b>	tandard	ls	L	I		l	
Lower				10.2		1	
(schooling)							
				<u>I</u>		l	

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3.6.11. (0	•	10.0	4		10.1		
Medium (Sen	ior	10.0	1		10.1	2	
secondary)							
Higher	7	21.1	3		68.6	2	
(Graduation)							
Diploma	(	65.6	5		21.1	1	
State of Marriag	je					<u>I</u>	
single/widowe	d						
	á	approximatel	4		66.6	6	
	3	y 45					
	í	approximatel	4		33.3	3	
Married/cohabit	ati	y 45					
ng							
Divorced	í	approximatel	1		0	0	
		y 10					
Age							
18-25	appro	oximately 20	2		approximately	2	
					22.5		
26-32	appro	oximately 35	3		approximately	2	
					22.5		
>32	appro	oximately 45	4		approximately	5	
					55		
Table 3 - Varying descriptive and inferential statistics							
		Continuation	n	After th	e test	Prior the test	
Depressive disorder (Beck Depression Inventory-self-report rating inventory that							
measures characteristic attitudes and symptoms of depression)/groups							
<b>Experimental class</b>		6.01 + 1.83	5.01+0		73	32.68 + 831	

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Control class		22.66+6.17	2	26.56+1.83		28.	25+6.23			
Depressive disorder ( HRDS (Hamilton Depression Rating Scale) is the most widely										
used clinician-administered depression assessment scale)/groups										
<b>Experimental class</b>		3.35∓0.96	5.0	01∓0.28		19.	65∓2.84			
Control class		16.01+1.02	16	5.21+0.84		15.	26+2.18			
Group ruminative	resp	ponse								
Experimental clas	S	33.38 ± 4.97	37	7.02 ± 4.97		59.	64± 9.81			
Control class		55.1 ± 1.02	56	$6.23 \pm 0.98$		67.	24 ± 2.12			
Conscience/group			1	10 1 50			10 1 1			
Experimental	46.0	65 ±2.82	42	$2.12 \pm 1.58$		26.	26.18± 1.67			
class										
Control class	19.′	$72 \pm 1.21$	21	$1.28 \pm 0.26$ 24.			$02 \pm 1.92$			
Awareness(mindfo	ulnes	ss)/group								
Experimental	71.	78 ±2.25	56	$56.65 \pm 1.94$		29.	46± 11.54			
class										
Control class	18.3	$32 \pm 4.16$	22	$2.62 \pm 2.12$		19.	91 ± 6.14			
Table 4 Variable a	isses	sment utilizing l	Bonf	erroni compara	itive ana	lysis	3			
<b>Experiment class</b>										
Dependent variab	le / E	Elements of Beck		Mean	Statisti	cal	Statistical			
			differences error			significance				
Depressive Disorder-Beck Depression Inventory										
<b>Prior-Beck Depression</b> Inventory			25.46	2.22		0.003				
<b>Post- Beck Depression Inventory</b>										
					_					

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<b>Prior-Beck Depression Inventory</b>	24.89	1.85	0.003
<b>Continuation-Beck Depression Inventory</b>			
Post - Beck Depression Inventory	-1.24	0.62	0.64
Continuation-Beck Depression Inventory			
Mean differences Statistical error	Statisti significa	cal Inversions Containce Beck	- Beck ression ntory inuation- t Depression ntory
-10 -20 -30		Inver Cont Beck	r-Beck ression ntory inuation- Depression ntory
-40		Inver Post- Depr	r-Beck ression ntory - Beck ression ntory
Prior- Hamilton Depression Rating Scale	14.86	0.96	0.003
Post-Hamilton Depression Rating Scale	11.00	0.70	3.003
<b>Prior- Hamilton Depression Rating Scale</b>	15.36	1.01	0.003
Continuation- Hamilton Depression Rating	g Scale		
Post- Hamilton Depression Rating Scale Continuation- Hamilton Depression Rating	g Scale 0.48	0.48	0.64

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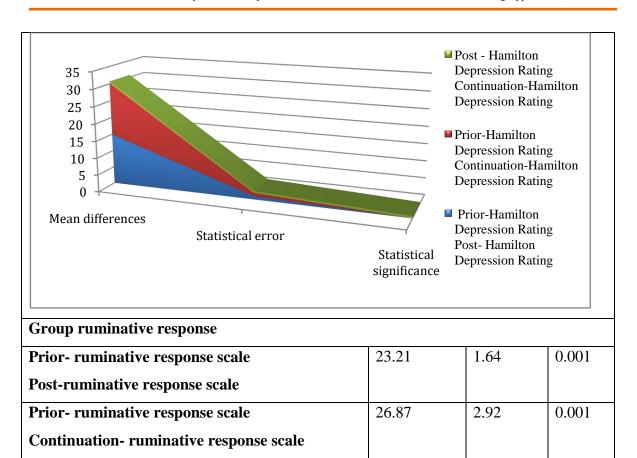
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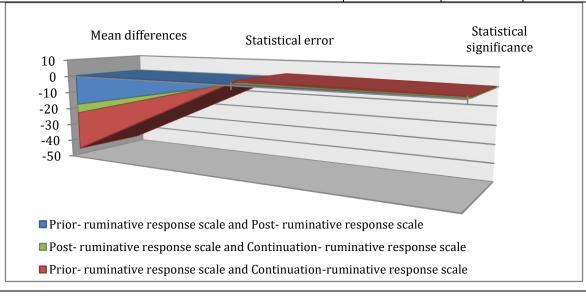
Post- ruminative response scale

**Continuation- ruminative response scale** 

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2.54

0.58

1.86

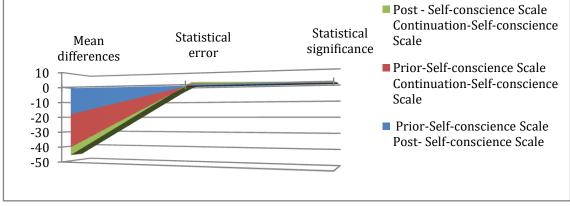
Self-conscience/group			
Prior- Self-conscience Scale	-18	0.46	0.001
Post-Self-conscience Scale			

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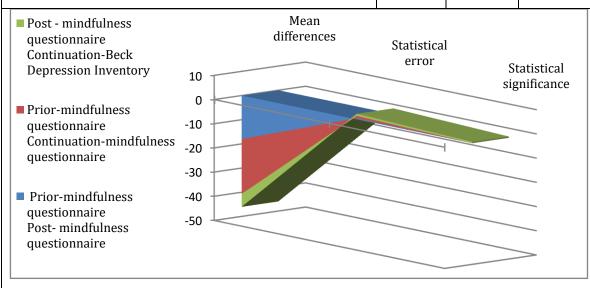
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Prior- Self-conscience Scale	-22.68	0.98	0.001
Continuation- Self-conscience Scale			
Post- Self-conscience Scale	-5.36	0.89	0.56
Continuation- Self-conscience Scale			
	<u> </u>		



Awareness(mindfulness)/group			
Prior- mindfulness questionnaire	-29	4.48	0.003
Post-mindfulness questionnaire			
Prior- mindfulness questionnaire	-42.78	3.92	0.003
<b>Continuation-Beck Depression Inventory</b>			
Post- mindfulness questionnaire	-14.92	1.86	1.96
Continuation-Beck Depression Inventory			



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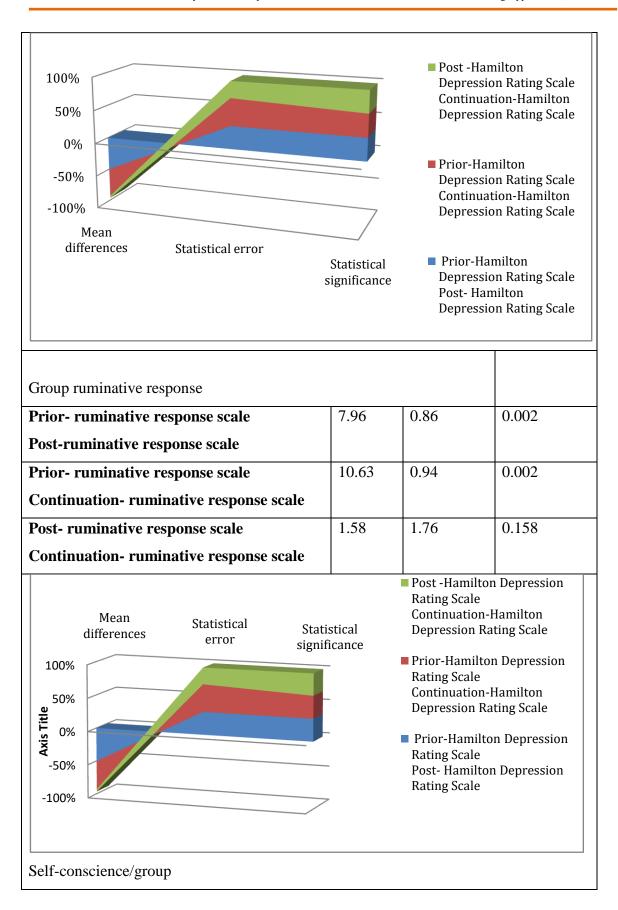
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Table 6 - Variable assessment utilizing Bonfer	roni compar	ative analysis	6		
Control class					
Dependent variable / Elements of Beck Mean Statistical					
	differences	error	al		
			significa		
			nce		
Depressive Disorder-Beck Depression Invento	ry				
<b>Prior-Beck Depression Inventory</b>	1.06	0.56	0.16		
Post- Beck Depression Inventory					
<b>Prior-Beck Depression Inventory</b>	4.58	0.97	0.03		
Continuation-Beck Depression Inventory					
Post-Depression Inventory	2.36	0.95	0.01		
<b>Continuation-Beck Depression Inventory</b>					
Mean differences  Statistical error  Statistical significance  Prior-Beck Depression Inventory  Post- Beck Depression Inventory					
Depressive disorder -Hamilton Depression Ra	ting Scale				
<b>Prior- Hamilton Depression Rating Scale</b>	-1	.04 0.74	1.01		
Post-Hamilton Depression Rating Scale					
<b>Prior- Hamilton Depression Rating Scale</b> -0.96 0.89					
<b>Continuation- Hamilton Depression Rating So</b>	cale				
Post- Hamilton Depression Rating Scale0.070.54					
<b>Continuation- Hamilton Depression Rating So</b>	cale				

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rior- Self-conscience Scale	1.97	0.74	0.039		
ost-Self-conscience Scale					
rior- Self-conscience Scale	3.82	0.75	0.004		
Continuation- Self-conscience Scale					
ost- Self-conscience Scale	0.93	0.64	0.142		
Continuation- Self-conscience Scale					
Mean Statistical Statist differences error signific		■ Post -Self-conscience Scale Continuation-Self- conscience Scale			
100% 50% Scale Continuation-S conscience Sca					
-50% -100%		Scal	t- Self-conscience		
wareness(mindfulness)/group					
rior- mindfulness questionnaire	-3.2	28 0.89	0.24		

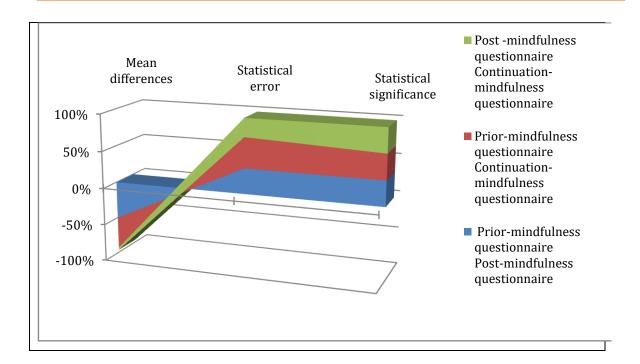
Awareness(mindfulness)/group			
Prior- mindfulness questionnaire	-3.28	0.89	0.24
Post-mindfulness questionnaire			
Prior- mindfulness questionnaire	0.96	0.76	0.64
<b>Continuation-Beck Depression Inventory</b>			
Post- mindfulness questionnaire	2.69	0.81	0.03
<b>Continuation-Beck Depression Inventory</b>			

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## **Interpretation of Data:**

The current research was conducted to determine the efficacy of mindfulness based psychotherapy for introspection, mindfulness, and consciousness in treatment resistant depressed patients. The findings suggest that mindfulness based psychotherapy reduced depressive episodes in the experimental class compared with the control class, which really is consistent with findings as per the objectives. Mindfulness based psychotherapy tends to promote a dissociated or disinterred perspective of another's thought processes, emotional responses, and sensory experiences. The findings of the current study asserted that in comparison to the control group, mindfulness based psychotherapy reduced rumination in the experimental class. These findings are comparable to existing empirical analysis. Kingston et al. and Nolen-Hoeksema help us understand the function of ruminations play in depressive symptoms vulnerabilities. The decentering conceptual model can be generally regarded to describe how mindfulness based psychotherapy works in ruminations. Decentering means having the ability to stay focused on and to recognize thoughts and emotions in a state of non-judgment. Research findings have already shown that amount of depression misconception, which is something the patient can pay critical attention to the practical, can be reduced by decentring.

Decentering involves disassociating, segregating, permitting and embracing strange emotions. By strengthening trends in psychotherapy, it is noted that behavioral control

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mechanisms, psychotherapy may significantly reduce ruminating strategies and thereby reduce anxiety and depression. Mindfulness based psychotherapy for untreatable depression in the empirical framewok directly contributed us to make the assumption that  $\mathcal{MBP}$  can significantly lower treatment resistant depression. The results of this investigation indicate that, comparison to the control group,  $\mathcal{MBP}$  increased awareness in participants in the experimental group. Experiments are undertaken for the investigation and meta-analysis to investigate the effects of consciousness professional development program. The outcomes of these studies are compatible with exiting analysis.

In additament, the findings of this research have shown that mindfulness based psychotherapy leads to even more actualization. These findings are comparable with substantiation of increased self-compassion for involvement in mindfulness interventions and attention-based functioning. Undoubtedly, developing a clear understanding the chance to empathize compassion for oneself and acknowledges personal errors, negative behaviours and emotional responses. When an individual is treated of experiencing and recognizes it without assessment, there is sufficient space in the mind for consciousness and a desire for self-suffering is established. Several mathematical frameworks have highlighted the significance of actualization in well-being advancement, psychological distress significant decrease and stress adaptability.

#### 5. CONCLUSION

There have been no variations in gender, educational attainment, relationship status, or age between the experimental group and control group when demographic and medical characteristics were compared. The parameters were subjected to descriptive analysis. To test the data distribution, the Kolmogorov-Smirnov testing was carried. The findings demonstrate that all residuals are normally distributed (p > 0.05). Furthermore, the Levene test was employed to determine if parameters in the treatment and control groups had identical variances. The findings confirmed that the variances of the categories were not significantly different (p > 0.05). The conclusions of this research were really a quasi - experimental design, with a follow-up time of one and half month throughout the research analysis which doesn't really actually encourage for valuable recommendations regarding probable lengthier consequences and comparative analysis between mindfulness-based psychotherapies.

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