



Assessment of Automatic Thoughts in Patients with Depressive Illness at a Tertiary Hospital in Nepal

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ABSTRACT

Introduction: Cognitive functions have significant influence on psycho-social and general wellbeing. The quality, content and processing of negative thoughts initiate depressive symptoms; i.e. low mood, decreased self-worth and diminished interest in pleasurable activities. The study assessed the automatic thoughts of patients having depressive illness and evaluated and compared the changes after therapy; i.e. Psychotherapy and pharmacotherapy.

Methods: Diagnosed cases of depressive illness (n=135), according to ICD-10 and study criteria, attending the out-patient clinic of Department of Psychiatry and Mental Health, Tribhuvan University Teaching Hospital, were included. Beck Depression Inventory was used to screen level of depressive symptoms. Automatic thoughts were assessed by the Automatic Thought Questionnaire-Revised before initiating therapy and after completion of therapy for comparison. Depressive patients received either of the three treatment procedures after randomization of the study sample into three different treatment groups; i.e. Cognitive behavior therapy, pharmacotherapy or combined therapy receiving both cognitive behavior therapy and pharmacotherapy.

Results: Among the total 135 patients, 53 (39.3%) had moderate, 47 (34.8%) had severe depressive and 35 (25.9%) had mild depressive symptoms before therapeutic interventions. Negative automatic thoughts were significantly present in depressed patients and reduced after all three interventions. Negative automatic thoughts of hopelessness, anxiety and inability coping were significantly reduced after therapy.

Conclusions: Automatic negative thoughts were significantly correlated with depressive disorder. Combined therapy CBT with pharmacotherapy or CBT alone was found to be more effective in modifying automatic negative thoughts than pharmacotherapy alone, ultimately reducing depressive symptoms to a significant degree.

Keywords: *automatic thoughts; cognitive Behavior therapy; pharmacotherapy.*

INTRODUCTION

Depressive illness is a mood (affective) disorder, leading cause of disability and the 4th leading contributor to the global burden of disease,¹ characterized by relapse, recurrence and chronicity and may be mild, moderate or severe, recurrent (repeated), psychogenic or reactive, psychotic or somatic.^{2,3}

Automatic negative thoughts are significantly present in depressive illness.⁴ Guilt or worthlessness; feeling rejected and alone is often present and is often

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associated with high maladaptive coping and low social support.^{3,5}

Depressive symptoms and negative thoughts can be assessed by structured interviews, checklists, interview-based and self-assessed rating scales and questionnaires. The study objective was to assess the automatic thoughts in depressive illness and to determine changes after therapeutic interventions (i.e. cognitive behavior therapy or combined therapy or pharmacotherapy).

METHODS

This was a randomized comparative study conducted at the Department of Psychiatry and Mental Health, Tribhuvan University Teaching Hospital. Ethical clearance was taken from the Institutional Review Board (IRB), Institute of Medicine, before initiating the research and the ethical guidelines were well considered.⁶ Among various types of depressive disorders, a purposive sample of 135 cases meeting the inclusion-exclusion criteria of the study; i.e. having first episode of depressive disorder without any psychotic symptoms or suicidal attempts, clinically diagnosed according to ICD-10 (DCR) criteria,⁷ by the consultant psychiatrist were selected and randomly distributed to one of the three intervention groups: CBT only (Group I); Pharmacotherapy only (Group II); CBT and Pharmacotherapy Combined (Group III) consecutively. Patients aged 15 years, (targeting late adolescence) and above, who were able to read and write and who gave written consent were included.⁶

Beck Depression Inventory (BDI) is a 21 item self-rated questionnaire that describes common symptoms of depression. It has been translated and validated and popularly utilized in the Nepalese population.⁸⁻¹¹ The ATQ-R includes 30 negative self-statements theoretically associated with depression and taken from the original version of the ATQ, such as "I hate myself" and "I'm a failure", and 10 self-statements reflecting positive affect theorized to be inversely associated with

depression, such as "I'm proud of myself" and "I can accomplish anything"^{12,13} Subjects rate each item on a 5-point scale indicating how frequently they have these thoughts (1 = not at all, 5 = all the time). Scores are typically obtained by summing across the items for the respective positive and negative subscales. The split-half and retest reliability of the ATQ are acceptable, and its concurrent and convergent validity have been well-established.^{12,13} Inter-correlations with the Beck Depression Inventory and the MMPI –Depression Scale have ranged from moderate to high ($r = 0.45$ to 0.70). Hill et al. have reported the empirical investigation of the specificity and sensitivity of the ATQ and Dysfunctional Attitude Scale.¹⁴

The revised version of the ATQ-R has ten added positive self statements. The whole scale is divided into four main factors: Factor I - Depression/Hopelessness statements; Factor II: Inability coping statements; Factor III: Anxiety and Factor IV: Positive self statements. The scale was translated to the Nepali version by three independent translators; a psychologist, a teacher of English language and a sociologist and then back translated to the English version by other three independent translators of the same professions. Out of the three back translations the scale and items matching the original version of the ATQ-R was considered most valid and their Nepali translation was selected and printed with both the original ATQ-R in English and Nepali script together on the same questionnaire and used for the study.

BDI and ATQ-R were used consecutively to screen level of depressive symptoms and determine automatic negative thoughts at pre- therapy (session one) and post- therapy (session 16) assessment. Therapy duration was up to 16 weeks, with weekly sessions for CBT and for pharmacotherapy: follow-up at 0, 2, 6, 12 and 16 weeks. Fluoxetine (mean dose 20 mg/day) and Amitriptyline (mean dose 150 mg/day) were the antidepressants used in combination with or without benzodiazepines.

The collected data were then statistically and clinically analyzed using SPSS 17.0.

RESULTS

Table 1. Age, sex and marital status of patients among intervention groups.

Characteristics	CBT n (%)	Pharma-cotherapy n (%)	CBT and Pharmacotherapy n (%)	Total n (%)	X ²	P value
Age						
15-25 years	20 (44.4)	16 (35.6)	22 (48.9)	58 (43.0)		
26-35 yrs	15 (33.3)	17 (37.8)	14 (31.1)	46 (34.1)		
36-45 yrs	5 (11.1)	5 (11.1)	5 (11.1)	15 (11.1)	3.67	0.886
46-55 yrs	2 (4.4)	5 (11.1)	3 (6.7)	10 (7.4)	(df = 8)	NS
56-65 yrs	3 (6.7)	2 (4.4)	1 (2.2)	6 (4.4)		
Mean age		31.82				
	30.38 (26)	(28)	29.09 (26)	30.43 (27)		
Total n (%)	45 (100.0)	45 (100.0)	45 (100.0)	135 (100.0)		
Sex						
Male	19 (42.2)	24 (53.3)	18 (40.0)	61 (45.2)	1.854	0.396
Female	26 (57.8)	21 (46.7)	27 (60.0%)	74 (54.8)	(df = 2)	NS
Total n (%)	45 (100.0)	45 (100.0)	45 (100.0)	135 (100.0)		
Marital status						
Single	23 (51.1)	16 (35.6)	23 (51.1)	62 (45.9)		
Married	22 (48.9)	26 (57.8)	20 (44.4)	68 (50.4)	8.404	0.21
Separated	-	1 (2.2)	2 (4.4)	3 (2.2)	(df = 6)	NS
Divorced	-	2 (4.4)	-	2 (1.5%)		
Total n (%)	45 (100.0)	45 (100.0)	45 (100.0)	135 (100.0)		

NS = Not significant

Table 2. Level of depression according to gender.

Pre-therapy BDI score	Sex	Normal (0-9)	Mild depression (10-18)	Moderate Depression (19-29)	Severe Depression (above 30)	Drop-outs	Total N (%)
	Male n (%)	-	16 (26.2%)	25 (41.0%)	20 (32.8%)	-	61 (100.0%)
	Female n (%)	-	19 (25.7%)	28 (37.8%)	27 (36.5%)	-	74 (100.0%)
	Total n (%)	-	35 (25.9%)	53 (39.3%)	47 (34.8%)	-	135 (100.0%)

Among total 135 patients, 53 (39.3%) had moderate, 47 (34.8%) had severe depressive and 35 (25.9%) had mild depressive symptoms at pre-therapy assessment (Table 2).

Table 3. Pre-therapy assessment of automatic thoughts among the intervention groups (Mean and SD).

Intervention Groups	ATQ-R (Negative thoughts)		ATQ-R. FI (Depression/ Hopelessness)		ATQ-R.FII (Coping difficulty)		ATQ-R.FIII (Anxiety)		ATQ-R. FIV (Positive thoughts)	
	Mean	(SD)	Mean	(SD)	Mean	(SD)	Mean	(SD)	Mean	(SD)
CBT (n = 45)	86.49	(22.99)	67.11	(18.84)	6.87	(1.85)	12.44	(4.07)	24.27	(9.18)
Pharmacotherapy (n = 45)	90.76	(17.43)	71.11	(14.02)	7.22	(1.72)	12.64	(3.56)	22.18	(6.15)
CBT and Pharmacotherapy (n = 45)	91.96	(19.13)	72.67	(15.52)	7.18	(1.66)	13.24	(3.36)	20.64	6.121
F – ratio	0.929		1.399		0.555		0.58		2.815	
Significance P value	0.397		0.25		0.575		0.561		0.064	

There was no statistical significant difference in the pre-therapy assessment scores of the Automatic thoughts in the three intervention groups (Table 3). However,

the findings indicate the Combined Therapy Group had more patients with total negative thoughts as well as depressive thoughts and hopelessness followed by the Pharmacotherapy and CBT group consecutively.

Table 4. Pre and Post-therapy assessment scores of ATQ-R among intervention groups.

Measures and Intervention groups	Pre-therapy scores Mean(SD)	Post- therapy scores Mean(SD)	Mean (SD) Difference	t-test	Sig. (2-tailed)
Automatic Thought Questionnaire-Revised(ATQ-R) Negative thoughts					
CBT (n = 36)	90.47 (22.877)	49.47 (16.530)	41.00 (20.526)	11.985†	0.000
Pharmacotherapy (n = 30)	92.20 (16.973)	60.40 (17.214)	31.80 (18.077)	9.635†	0.000
CBT and Pharmacotherapy (n = 39)	92.85 (19.544)	47.08 (13.186)	45.77 (19.034)	15.017†	0.000
Automatic Thought Questionnaire-Revised(ATQ-R) Depression/Hopelessness					
CBT (n = 36)	70.56 (18.522)	38.19 (13.058)	32.36 (17.664)	10.992†	0.000
Pharmacotherapy (N = 30)	72.00 (13.854)	46.37 (15.386)	25.63 (16.550)	8.483†	0.000
CBT and Pharmacotherapy (n = 39)	73.10 (15.896)	36.38 (10.093)	36.72 (15.463)	14.829†	0.000
Automatic Thought Questionnaire-Revised(ATQ-R) Inability coping					
CBT (n = 36)	7.14 (1.693)	4.22 (1.623)	2.92 (1.461)	11.975†	0.000
Pharmacotherapy (N = 30)	7.40 (1.632)	5.20 (1.562)	2.20 (2.107)	5.718†	0.000
CBT and Pharmacotherapy (n = 39)	7.21 (1.657)	3.87 (1.490)	3.33 (2.192)	9.495†	0.000
Automatic Thought Questionnaire-Revised(ATQ-R) Anxiety					
CBT (n = 36)	12.75 (4.003)	7.06 (2.704)	5.69 (3.106)	11†	0.000
Pharmacotherapy (n = 30)	13.13 (3.491)	9.77 (6.981)	3.37 (8.173)	2.256*	0.032

CBT and Pharmacotherapy (n=39)	12.82 (3.276)	6.82 (2.864)	6.00 (3.649)	10.268†	0.000
Automatic Thought Questionnaire-Revised(ATQ-R) Positive self statements					
CBT (n=36)	22.81(7.320)	36.69 (7.155)	-13.89 (8.400)	-9.921†	0.000
Pharmacotherapy (n=30)	22.00 (5.936)	29.23 (8.249)	-7.23 (8.787)	-4.509†	0.000
CBT and Pharmacotherapy (n=39)	20.82 (6.244)	36.38 (6.201)	-15.56 (7.465)	-13.02†	0.000

Significant at * $P<0.01$ and † $P<0.001$ level

Negative automatic thoughts differed significantly from the pre- therapy scores in all three intervention groups and were statistically significant at $P<0.001$ level (Table 4).

Table 5. Gain scores, gain percentage and percentage difference in ATQ-R among intervention groups.

Measures and Intervention groups	Gain score (SD)	Gain Percentage (%)	% difference (Group III and II)	% difference (Group III and I)	% difference (Group I and II)
Automatic Thought Questionnaire-Revised(ATQ-R) Negative thoughts					
CBT (n=36)	41.00 (20.526)	45.31			
Pharmacotherapy (n=30)	31.80 (18.077)	34.49	14.8	3.98	10.82
CBT and Pharmacotherapy (n=39)	45.77 (19.034)	49.29			
Automatic Thought Questionnaire-Revised(ATQ-R) Depression/Hopelessness					
CBT (n=36)	32.36 (17.664)	45.86			
Pharmacotherapy (N=30)	25.63 (16.550)	35.59	14.64	4.37	10.27
CBT and Pharmacotherapy (n=39)	36.72 (15.463)	50.23			
Automatic Thought Questionnaire-Revised(ATQ-R) Inability coping					
CBT Group I (n=36)	2.92 (1.461)	40.89			
Pharmacotherapy (n=30)	2.20 (2.107)	29.72	16.46	5.29	11.17
CBT and Pharmacotherapy (n=39)	3.33 (2.192)	46.18			
Automatic Thought Questionnaire-Revised(ATQ-R) Anxiety					
CBT (n=36)	5.69 (3.106)	44.62			
Pharmacotherapy (n=30)	3.37 (8.173)	25.66	21.14	2.18	18.96
CBT and Pharmacotherapy (n=39)	6.00 (3.649)	46.8			
Automatic Thought Questionnaire-Revised(ATQ-R) Positive self statements					
CBT (n=36)	-13.89 (8.400)	60.89			
Pharmacotherapy (n=30)	-7.23 (8.787)	32.86	41.87	13.84	28.03
CBT and Pharmacotherapy (n=39)	-15.56 (7.465)	74.73			

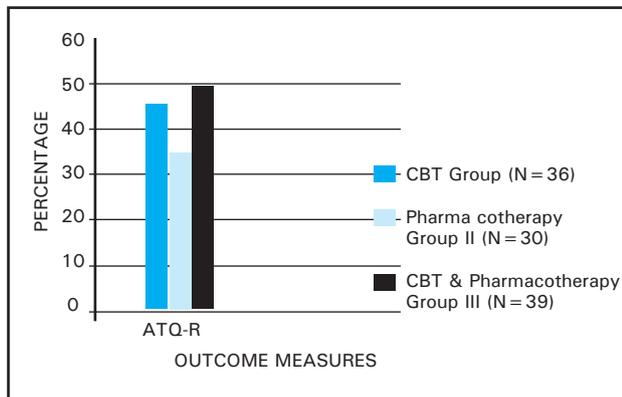


Figure 1. Percentage gain in ATQ-R at post assessment among intervention groups.

The findings indicate that there were more percentage gains, in the automatic thoughts of the combined therapy group (score = 45.77; 49.29%) followed by CBT (score = 41; 45.31%) and Pharmacotherapy (score = 34.49; 31.80%) interventions. Though there were percentage gains in the automatic thoughts, however there were more percentage gains in the Positive self statements in each of the three therapy interventions; i.e. 74.73% (score = -15.56), 60.89% (score = -13.89) and 32.86% (score = -7.23), the combined therapy group (CBT and pharmacotherapy), the CBT group and the Pharmacotherapy group consecutively (Table 5, Figure 1).

DISCUSSION

Mental illness is indicated to be more prevalent at a young age in Nepal. This study also has similar findings. Most patients were aged 15-25 years (n = 58, 43.0%) and 26-35 years (n = 46, 34.6%), with mean age of 30.43 years.¹⁵ There were more depressed females (n = 74, 54.8%) than males (n = 61, 45.2%) and most of them were either married (n = 68, 50.4%) or single (n = 62, 45.9%).¹⁶ There were more single males (n = 41, 67.2%) than females (n = 21, 28.37%) and more married females (n = 49, 66.2%) than males (n = 19, 31.1%).¹⁵⁻¹⁹

Negative thoughts were found to be categorically present in patients with depressive illness; developing sense of hopelessness, worthlessness and helplessness and making them feel sad, unhappy, less confident, lacking energy and lacking interest in their daily and pleasurable activities and with sleep and appetite disturbances.

Pre therapy assessment was done on 135 depressive patients; i.e. 45 patients of each therapy groups and

there was a drop out of total 30 patients from all three intervention groups; i.e. CBT: 9; Pharmacotherapy: 15 and CBT and Pharmacotherapy: 6. during 16 weeks of therapy. Therefore, the post therapy assessment was carried out on the remaining 105 patients.

Anxious thoughts were found to significantly decrease with age. Patients with significantly higher negative automatic thoughts of hopelessness and inability coping, subjectively rated their depression on a higher level and were found to adhere to treatment for a longer duration.

Cognitive behavior theory views emotional disorder and behavioral problems as secondary to irrational beliefs or faulty information processing. A defining feature of cognitive-behavioral therapy is the proposition that symptoms and dysfunctional behaviors are often cognitively mediated and, hence, improvement can be produced by modifying dysfunctional thinking and beliefs.²⁰ Hence assessments of automatic thoughts are essential before starting any kind of therapy, especially psychotherapy.

With the modification and restructuring of negative cognitions in depressive illness, patients experienced positive emotions and contentment, more adaptive and satisfying behavior and most importantly learned skills to identify and overcome their problems. The improvements were determined by post -assessment of automatic thoughts, which indicated decrease in negative thoughts and increased level of positive thoughts.

This study finding supports and emphasizes that cognitive- behavioral intervention, i.e. CBT, when intervened singly is also found to be effective in modifying negative automatic thoughts than pharmacotherapy alone; in reducing depressive symptoms.²¹ However, there is maximum reduction of negative automatic thoughts when pharmacotherapy is combined with CBT.²²⁻²⁴ The improvement and change in negative thoughts of hopelessness, anxiety and inability coping in the cognitive domain clearly indicate that the changes taking place by pharmacotherapy alone, was not equivalent to that of dealing with cognitions in a structured manner.

The study had its limitations; the therapist's objective assessment of the severity of the symptoms and conduction of all psychotherapy sessions, i.e. CBT, without independent raters could have introduced subjective biasness and influenced the results. The subjectivity of the patients could be difficult to control as the outcome measures, i.e. ATQ-R, and BDI would rely on their own

evaluation of their improvement.

CONCLUSIONS

This study identified the presence of negative automatic thoughts, in depressive illness which is the product of core negative beliefs and cognitive distortions. The study also suggests that enhancing positive cognitive mediation has a significant role in decreasing depressive symptoms which is possible by psychotherapy and Cognitive Behavior Therapy has proven its efficacy in altering distorted cognitions.

Psychological tests that assess and identify negative thoughts prove to be very important and effective both to determine depressive cognitions before treatment as well as to compare improvement after treatment.²⁵

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Conflict of Interest: None.

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