



Mini Review

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Cognitive Behaviour Therapy to Treat a Case of Conversion Disorder with Mutism in Bangladesh



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Abstract

Objective: CBT as a relatively new practice in Bangladesh has not been tested yet with a broad range of patients. The present study evaluates the effectiveness of Cognitive Behavior Therapy (CBT) that has been tailored to the patient's need, for the treatment of a patient diagnosed with conversion disorder primarily characterized by mutism. Intense chest pain and headache were the other complaints. The patient was a 21-year old female who had problems uttering words for about six months with several other psychological and physical symptoms. The total therapeutic $work \ was \ conducted \ shared \ room \ in \ a \ government \ hospital \ where \ 6 \ other \ psychotherapy \ sessions \ were \ being \ conducted \ simultaneously \ because$ of lack of the lack of available facilities of private rooms for each patient.

Method: Assessment of the patient was done using in-depth clinical interview through writing, observation, self-reported questionnaires and thought diary. The principal therapeutic techniques of CBT used were psycho-education, thought challenge, problem-solving, stopping secondary gains, sleep hygiene, activity scheduling, social skills training, and relaxation exercise.

Result: After six and a half months of intervention she became able to talk and to manage other psychological and physical symptoms.

Conclusion: The result indicates CBT to be an effective intervention for conversion disorder with mutism if modified according to the patient's capacities. This study is unique in using writing as a means of assessment as well as ventilation, and in its extensive use of CBT techniques. Also, even though there was no strict privacy and the patient's reactions could be observed by other people sitting around for different purposes, it brought no fewer therapeutic outcomes.

Keywords: CBT; Conversion disorder; Homeopath; Mutism; Psychosomatic

Abbreviations: CBT: Cognitive Behavioral Therapy; BT: Behavior Therapy; PTSD: Post-Traumatic Stress Disorder; SIAS: Social Interaction Anxiety Scale; AS: Anxiety Scale; DS: Depression Scale; NATs: Negative Automatic Thoughts

Introduction

Being mute is not always selective mutism but it could also be a conversion disorder, currently known as functional neurological symptom disorder, which is a sub-group of somatic symptom and related disorders (DSM-V). In selective mutism, the person is fully capable of speaking but fails to speak in certain situations though they are expected to speak [1] whereas in conversion disorder it appears as aphonia, an organic condition of inability to produce voice [2].

Although treating conversion disorders by psychoanalytic and behavioral methods were emphasized [3] in recent years with growing interest in using Cognitive Behavioral Therapy (CBT) in clinics worldwide, the efficacy of the method is found considerable [4,5]. CBT has been mentioned as an efficacious treatment for the range of the conditions loosely grouped under

the somatoform disorders [6], currently known as Somatic Symptom and Related Disorders. Randomized controlled clinical trials found that conversion disorder can be successfully treated with CBT which included the modification of catastrophic cognitions and inappropriate behaviors [4,7,8]. A study conducted in Bangladesh showed CBT to be effective in treating general conversion disorder [9] as well.

Therefore, CBT addressing a case of conversion disorder with mutism was considered worth reporting for three reasons: firstly, no literature has been found of treating conversion disorder with mutism with CBT in Bangladesh; secondly, the identification of the case implies that there are existence of such cases in Bangladesh, and thirdly, limited attention has been found worldwide on conversion disorder with mutism which is a

rare and complex condition. In current literature, this condition apparently seems to be unsuitable for standard CBT procedure, which inspired the authors to assess the effectiveness of CBT with a case representing the symptoms. Moreover, the practice of CBT is relatively new in Bangladesh. It has not been properly tested yet with abroad range of patients. As much as we are using it keeping the theory intact and making the procedure more suitable and tailored for the patients, the investigation is also required so that the practice of CBT gets verified with its ground in anon-western cultural context like Bangladesh and a culture-sensitive version of CBT can be developed if necessary. Limited techniques of Behavior Therapy (BT) and CBT have been successfully applied to treat PTSD (Post-Traumatic Stress Disorder) induced conversion mutism in two case studies [10,11] of partial mutism whereas this current case had a total mutism. Wald, Taylor & Scamvougeras [11] also recommended examining the effectiveness of combining operant behavioral strategies with CBT, which has been accumulated in this study.

Method

Sample

Ms. A, a 21-year-old unmarried female, was an undergraduate student. She was the youngest child of a middle-class family and was reared up by both parents along with her two brothers. Being the youngest and only daughter, she was overprotected by her family members. Different physical illness and episodes of painful rheumatic fever since childhood made her 'center of attention' of the family. All members were extremely supportive whenever she showed any symptoms of physical illness. She developed a strong belief of unconditional acceptance by the family members (shared core belief: I am always loved). She was emotionally very dependent on the eldest brother. Being the youngest, she was to follow everyone else's decision which made her non-assertive and non-expressive since childhood. She was 19 when the family members, especially the eldest brother and father, started disapproving her romantic relationship and attempted to break the relationship by imposing corporal and emotional punishment, and by withdrawing affection. It became a great threat to her. The continuous conflict between Ms. A and her sister-in-law made her always feel anxious, insecure and sad. These events made her confused and fearful, and as a result, her belief of unconditional acceptance by family members was disapproved. These events created fear and helplessness in her mind. She could not protest and lost the courage of expressing

During that time, there was uncertainty in her study because of some complexity in the academic registration process. These issues ledher to develop some core beliefs like "I am helpless", Nobody understands me", "My future is dark", and some dysfunctional assumptions like "If I protest the injustice happening to me, then I will become alone", "If I point out my sister-in-law's faults, then the eldest brother will be unhappy", "I should tolerate everything to get my eldest brother's affection".

She somehow adapted to such condition but things became unbearable when she was sent to the village forcefully, was locked in a room, and was informed that her boyfriend was going to marry another girl that same day. She could not do anything to stop it or protest about it but screamed continuously and shouted for a long time. She then stopped talking to everyone out of sadness and after a day she found that she was unable to make any sound. Then her other physical symptoms developed. Her eldest brother was a homeopath practitioner who prescribed her homeopath medicine from the very beginning and the symptoms did not reduce. After being unable to talk for six months, which was thought to be malingering by her family members, she was taken to a hospital for her physical symptoms and the medical officer referred her to psychiatry department where she wasdiagnosed with conversion disorder, prescribedpsychiatric medication, and was referred to clinical psychology servicefor CBT.

Assessment

The exclusive mode of assessment of this case was 'writing' which is atypical to standard CBT. Since the patient was mute she replied to all questions in writing. Clinical in-depth interview, observation, thought diary, sleep diary, Beck hopelessness scale BHS [12] adapted to Bangladeshi culture (20-item two-point scale with KR-20 coefficients ranging from 0.82 to 0.93 and test-retest reliability 0.66); Bengali translated Social Interaction Anxiety Scale (SIAS) [13] a 20 item scale with construct validity 0.86, cut off score for probable social phobia to be 36 with sensitivity of 0.93 and specificity of 0.60, with positive predictive value of 0.84 and a negative predictive value of 0.78); Anxiety Scale (AS) [14] developed in Bangladeshi culture (36-item scale five-point Likert-type scale whose cut-off score is 47.5 with high internal consistency, Cronbach alpha= 0.95, split-half reliability 0.92, test-retest reliability 0.70; with content validity, criterionrelated validity and construct validity); Depression Scale (DS) [15] developed in Bangladeshi culture (30-item five-point Likert-type scale whose cut-off score is 93 with concurrent and construct validity to be 0.716, split-half reliability 0.76 and testretest reliability 0.599); and subjective problem severity ratings were used for assessment.

The patient's baseline problems were assessed in six domains: cognitive, emotional, behavioral, physiological, sociocultural and motivational. The significant findings are as follows:

- a) Cognitive- I am guilty; I will not be able to speak anymore; I am valueless and insignificant; I will become alone; nobody believes my words; my future is uncertain.
- b) Behavioral-Avoidance of social interaction, reassurance seeking, lack of self-care, avoidance of any real=life issue.
- c) Affective- Frustration, intolerance to sympathy, panic, and fear of death, decreased confidence, and feeling confined, feeling anxious and low patience.

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- d) Physiological- chest pain, severe headache, smothering, throat pain, loss of appetite, burning sensation, agitation, pounding heart, recurrent sickness, parenthesis, hot and discomfort in chest, tiredness, feeling choked and sickness, insomnia.
- e) Socio-environmental- lack of assertion, disharmony with sister-in-law, family members' shock caused by the patient's problems, isolation.
- f) Motivational- inattention and disinterest to work, not eager to think deeply.

The patient developed lots of Negative Automatic Thoughts (NATs) ("I will never be able to talk", "I am a tree of sorrow, "I can never take myself back to my previous condition", "Nobody believes me", "I am a person with misfortune", "I will become alone", "All my achievements have gone into vain") which increased her negative feelings and behavior. After the onset of her problem, her whole family became too soft to her, and all the beating, scolding and oblique references were stopped. Besides, the patient had some secondary gains such as receiving extra attention, importance and care, written expression facility for her needs, and keeping away the sister-in-law from her. She also got rid of the burden of household works which became unbearable before the problem onset. She again became the focus of attention of the family. She started communicating through writing. These secondary gains, NATs, dysfunctional thoughts and maladaptive behaviors and the symptoms itself helped in maintaining her problems.

Intervention

Procedure: The patient's consent was taken before starting assessment. Problem assessment, intervention, and follow-up consisted of 23 sessions including both individual and family psychotherapy sessions. The sessions were designed and devised differently from conventional CBT structure due to her mutism and the physical symptoms. Each session consisted of weekly 90 to 100 minutes instead of standard 50 minutes from the beginning as the patient was completely mute and she had to express her words through writing. It was difficult to conduct each session at a stretch because she could be tired and sick due to her physical symptoms. The psychological conflicts and cognitive biases were identified with guided discovery during the in-depth interview. Sometimes, the patient used to bring a written description of different incidences and current situation. Agenda were set collaboratively at the beginning of each session and the whole session used to progress following the agenda. Pretest assessment included 12 sessions. However, psychometric assessment tools were not administered at every session since patient's expression through writing made assessment process to be too slow. Then formulation was shared in 13th session and the intervention was started from 14th session.

After the assessment, long-term treatment goal (Developing skills to functionally deal with real life situation) and some short-

term treatment goals (To be able to talk; to be assertive; to reduce anxiety related somatic symptoms) were set collaboratively with the patient. From the 15th session, which was the pick time when the patient had an internal urge of expressing her feelings, the patient's expression through writing in the therapeutic session was stopped and was encouraged to express things verbally. The therapist utilized this urge to help her utter some words for the first time in psychotherapy. Besides, after taking the patient's consent, the therapist discussed the procedure of stopping secondary gains within a family session as part of managing environmental contingency. After 19 sessions, the patient's problems were found significantly reduced by both subjective and objective ratings, and she was gradually prepared for termination. Finally, the case was terminated at the 22nd session and was sent for one-monthfollow-up. The CBT model and applied therapeutic techniques were reviewed at the 22nd session, and it made the patient realizeher own contribution in recovery. This empowered her. The post-test assessment was done at the 23rd session.

Intervention Techniques: A number of CBT and BT techniques were used to achieve treatment goals: Psychoeducation about the development of symptoms and prevalence of conversion disorder and related issues was given in 4th session. Through psycho-education, the patient reported of realizing her problems, becoming normalized, and feeling optimistic about recovery. The Formulationwas shared in the 13th session. The patient became very emotional and she was crying intensively while formulation was shared. She accepted the formulation without any objection. Secondary gain was withdrawn after consultation with the patient in 14th session after formulation sharing, which helped the patient to keep trying to make sounds and express needs verbally. It also helped her to overcome other physical, affective and motivational problems rapidly. Upon her consent, her two brothers and two cousins were invited to a family therapy session as she was living with them. Case formulation was also shared with them and they were trained in controlling secondary gains. They were also educated about the negative effects of corporal punishment and were encouraged to stop it.

The patient had a great difficulty in solving personal problems and making decisions. So, she suffered a lot with confusion and this sometimes led her to work impulsively. Problem- solving techniques [16] were discussed with her to overcome this problem. Thought Challenge Technique, developed by Beck [16], was used to challenge the dysfunctional assumptions and negative automatic thoughts (NATs) as she had both of them extensively. Pie-chart was used in the17th session to reduce her guilt feelings by determining relative responsibility [16] in her presented problems for which she made herself responsible. She also went through assertiveness training from 18th session both individually and in group social skill training. It helped the patient to express her opinion, feelings, and rights [17] to reduce interpersonal difficulties with family and friends and it

was designed for future conflict resolution. Weekly activity diary reflected that she did not keep any pleasurable activity time for herself.

So, a list of pleasurable and purposeful activity plan was made from the patient's past repertoire including shopping, eating, watching TV, chatting, which brought relief from low mood and loss of anhedonia [18]. Then, a graded list of activity was formed in treatment session and weekly activity schedule was done. It also helped in reducing her indecisiveness and motivational problems. Progressive muscular relaxation [19], Imagery and breathing relaxation were applied both individually and in the group as the patient had some physical symptoms due to anxiety and stress. Since Ms. A had insomnia she was taught Sleep hygiene [20] to improve her sleep pattern and to promote good sleep while it is regarded as a behavioral insomnia strategy [21]. In the end, some cognitive and behavioral works were specially designed for relapse prevention. The key to relapse prevention was for the person to continue using the cognitive and behavioral skills learned in treatment, and to recognize the early signs of relapse in order to take steps to prevent.

Result and Discussion

Progress was evident in both objective and subjective ratings. The initial and the final scores obtained on AS, DS, and BHS are given in Table 1. Measures were used on regular basis with an exception of SIAS. SIAS was administered in the 14th session as the intervention focused on improving her social skills and assertiveness then. The scores show noticeable improvement in anxiety, depression, hopelessness and social interaction anxiety

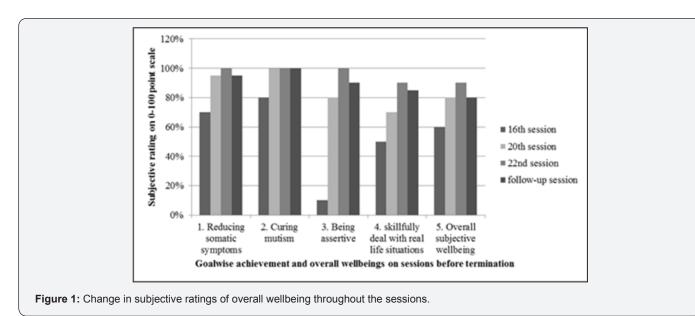
Table 1: Initial scores of the different scales and their interpretations.

at the end of the intervention. Treatment goals were achieved within 22 sessions. The following table presents the treatment goals and the level of achievements throughout the treatment sessions: Subjective ratings of overall well-being were taken by 0 to 100 scales throughout the therapeutic sessions where 100 meant quite very good state and 0 meant quite a bad state. The patient's improvement by subjective ratings is presented in the following Table 2. The patient and her family members were inclined to homeopath medication. So, she did not take psychiatric medication at all. Rather she took homeopath medication named Kaliphos 6 xs, and Conium Maculatum 30 though on an irregular basis. One limitation of the present study is to rule out the effect of homeopathy medication in her recovery. However, the effectiveness of the prescribed homeopath medication on conversion disorder with mutismhas not been established by any previous study. A study of Seyedaghanoor [22] shows Ignatia Amaramedicine to be effective in curing conversion disorder, which she was not prescribed. Moreover, Ms. A was irregular in taking homeopathy medicine. Another limitation of this study is the difficulty to rule out spontaneous remission for overcoming conversion disorder with mutism. However, Ms. A spent six months with mutism, and somatic and other symptoms without any improvement before starting psychotherapy. If her problems were to remit spontaneously it is likely to start before she started psychotherapy. All these issues and the subjective and objective ratings provide evidence in favor of CBT to be effective for treating conversion disorder which is supported by the studies of Rothbaum and Foa [10], Speed and Mooney [23], and Wald, Taylor and Scamvougeras [11] though they have used limited techniques of CBT (Figure 1).

Name of scales	Initial Score	Interpretation of Score	Score at 21st session	Interpretation of score
Anxiety Scale (AS)	98	Profound anxiety	43	Minimal anxiety
Depression Scale (DS)	120	Moderate depression	72	Minimal depression
Beck Hopelessness Scale (BHS)	11	Moderate hopelessness	12	Moderate hopelessness
Social Interaction Anxiety Scale (SIAS)	43	Very much social interaction anxiety	10	Slightly social interaction anxiety

Table 2: Level of achievement of treatment goals (100% indicates full achievement and 0% indicates no achievement at all).

Treatment goals	16 th session	20 th session	22 nd session
Reducing somatic symptoms	70%	95%	100%
Curing mutism	80%	1005	100%
Being assertive	10%	80%	100%
Skillfully deal with real-life situations	50%	70%	90%



Clinical Implication of the Study

The clinical case reports are the fundamental units to develop scientific investigation in treatment world [24]. In the perspective of the present growing state of the behavioral medicine in Bangladesh, such case studies are important and will contribute to enhance the growth of the scientific profile of the profession. Through the current single-case study, it is concluded that writing as a mode of communication could be an effective strategy in delivering standard CBT for mutism. Also that, expressive writing with adult educated cases having verbalization problem might be beneficial in reducing psychological symptoms. This method assisted the patient to express her memories, feelings and thoughts easily. Usage of writing helped her overcoming primary symptoms, and experience less pain in throat and chest similar to the study findings found with women cases with chronic pelvic pain [25]. Rather than conducting the therapy in a private room required for CBT, the sessions were conducted in a big room where 6 other sessions were being conducted simultaneously by other psychologists with their individual patients. The reason behind is the lack of available facilities of private rooms for each patient. This is how CBT was conducted in a different setting here but brought no fewer outcomes. Even though there were no strict privacy and the patient's reactions could be observed by other people sitting around for different purposes, it could not restrain therapeutic outcome. The possible factors worked behind might be good rapport between the psychotherapist and the patient, the patient's high motivation to overcome her problems, and patient's low expectations about therapeutic environment in a government hospital setting. However, extensive research only can establish these understandings with confidence.

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