Abstract: The purpose of this study was to investigate whether the behavior modification techniques helps the students to reduce public speaking anxiety and enhancement in the Self-esteem. The eighty Students were selected purposively for the study on the basis of their Subjective Unit of Distress Scale (SUDS) developed by Wolpe (1990). The questionnaire Personal Report of Public Speaking Anxiety - eighty developed by McCroskey (2013) was adapted to determine the level of public speaking anxiety while holding the speech. Another instrument was Rosenberg Self Esteem Scale (Rosenberg, 1965) in order to measures global self-worth by measuring both positive and negative feelings about the self, before and after intervention. This is the study of eighty students of X standard, Bengali Medium School. The students were assessed pre intervention and intervened with Behaviour Modification techniques for the period of four weeks. The interventions used for the study were: i) Public speaking high problem in the presence of similar groups ii) Public speaking moderate problem in the presence of similar groups iii) Public speaking low problem in the presence of low groups. The student’s SUDS, PRPSA-1-34 and RSE were reassessed after the period of four weeks interventions phase of how to manage their distress and results of the study indicate that the students experienced significantly less anxiety. The study reflected that the students experienced significantly less public speaking anxiety, decreased in their Subjective Unit of Distress Scale and increase in the self esteem. This shows that Behaviour Modification techniques are efficient in reducing public speaking anxiety.

Keywords: Public Speaking Anxiety, Behaviour modification, Self Esteem, Self-worth

1. Introduction

Public Speaking Anxiety is defined as a state of nervousness and hesitation or fear caused by the expectancy of something threatening during the performance in front of the audience. Public speaking anxiety is very common among both students and the general population. Public speaking apprehension often keeps away from anxiety-provoking presentation situations, but when inescapable, these situations are endured with feeling of intense anxiety and distress. Also, anticipatory anxiety frequently occurs as an individual imagines the situation in advance of the actual experience (e.g., worrying each day about a presentation to be given in a class several weeks in the future). Although individuals with these types of nervous responses often be recognizable with that their fear is excessive and/or unreasonable, they are unable, without assistance, to change their responses in these situations.

Students with public speaking apprehension most often experience a variety of symptoms in a public performance situation, including palpitations, sweating, gastrointestinal uneasiness, diarrhea, muscle tension, and confusion. (North & Rives; 2001) Burnley et al. (1993) states that, “Approximately 85 percent of the general inhabitants report experiencing some level of apprehension about speaking in public.” Rossi and Seiler (1989) indicate that, “Public speaking or stage fright has been investigated and studied in view of the fact that since mid-1930.

Anxiety typically centers on speaking and performance on the stage. Speaking in class is most intricate for apprehensive students even though they are pretty good at responding to a drill or giving prepared speeches. Apprehensive students may also have difficulties in perceptive sounds and structures or in catching their meaning.

Many public speakers feel that a little nervousness before a performance or speaking engagement gives them the ability to perform at their best. However, for some people the anxiety becomes so intense that it interferes with the ability to perform at all. In case of students, this may lead to avoiding certain relevant to the career or even majors where oral presentations are required, never communicating in class, or deciding alongside certain careers because they would require infrequent speaking before a group. Students who are apprehensive about public speaking in class sporadically also keep away from community events they would like to be present at or may not talk to colleagues they would like to get to know. Behaviour Modification involves the systematic application of learning principles and techniques to assess and improve individual’s covert and overt behaviours in order to enhance their daily functioning. Behaviour Modification is empirically demonstrated behaviour change techniques to increase or decrease the frequency of behaviour. Behavioural interventions techniques are based on the learning theories and its basic principle is that when we consistently respond to a stimulus in a particular manner neural network and it becomes habit. Habits can be learned and unlearned through Behaviour Modification. Anxiety is an unadaptive habit which is formed due to erroneous learning and can be treated by relearning the behaviour to form adaptive habits. In the same way public speaking anxiety is treated with Behaviour Modification by relearning and creating alternate responses to the threatening stimulus. Alternate responses are shaped on the principle of Reciprocal Inhibition where an incompatible response is produced to counter the negative stimulus. Stage which has become an intimidating stimulus due to various reasons can be de-conditioned by
practicing techniques based on reciprocal inhibition. The purpose of this study was to determine whether the teaching of behavior modification techniques helps to reduce high levels of public speaking anxiety.

2. Methodology

The study was purposely conducted on eighty students of X standard, Bengali Medium School, to find out the level of public speaking anxiety and effectiveness of behavior modification techniques for school students in public speaking anxiety. The eighty Students were selected purposively for the study on the basis of their Subjective Unit of Distress Scale (SUDS) developed by Wolpe, J. (1990). The questionnaire Personal Report of Public Speaking Anxiety - (PRPSA) - 34 developed by McCroskey, J. C. (2013) was used for measurement of public speaking anxiety. The other instrument was Rosenberg Self Esteem Scale (RSE) developed by Rosenberg, M. (1965) in order to measure global self-worth by measuring both positive and negative feelings about the self, before and after intervention and compared for gain score. The statistical tools employed to analyze the data were mean, standard deviation and t-test. The group was treated with Behaviour Modification techniques and the interventions are as follows:

Interventions: The following interventions were given for the period of four weeks.
1) Public speaking high problem in the presence of similar group.
2) Public speaking moderate problem in the presence of similar group.
3) Public speaking moderate problem in the presence of similar group.

They were used to create reciprocal inhibition in the public speaking anxiety, and thus they had learned the new behaviour to form adaptive and being able to relax with the stimulus and habit towards the public speaking anxiety.

3. Results

Table 1: Subjective Unit of Distress Scale (SUDS), Public Speaking Anxiety (PSA) -34 and Self-Esteem scale scores before and after intervention

<table>
<thead>
<tr>
<th>SUDS Score</th>
<th>Before intervention Mean Score (SD)</th>
<th>After intervention Mean Score (SD)</th>
<th>Mean Difference</th>
<th>Critical Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range (01 to 150)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highest Distress = 150</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSA - 34</td>
<td>79.26 (12.17)</td>
<td>56.94 (11.89)</td>
<td>21.32</td>
<td>7.77**</td>
</tr>
<tr>
<td>Score Range 34 to 170</td>
<td>125.70 (18.21)</td>
<td>93.12 (15.90)</td>
<td>32.56</td>
<td>7.13**</td>
</tr>
<tr>
<td>(High = &gt;131)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low = &lt; 98 Moderate = 98-131)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SE Score Range (5-40)</td>
<td>18.64 (05.85)</td>
<td>27.22 (03.17)</td>
<td>8.58</td>
<td>10.82**</td>
</tr>
<tr>
<td>(Low = 5-20)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average = 21-31 High = 32-40)</td>
<td></td>
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</tr>
</tbody>
</table>

**p < 0.05

Note: SUDS: Subjective Unit of Distress Score, SD: Standard Deviation, PSA-34: Public Speaking Anxiety – 34 and SE: Self Esteem Scale

Illustration of table 1: Students were assessed on Subjective Unit of Distress Scale developed by Wolpe, J. (1969) before intervention the sample score of the group in public speaking anxiety SUDS is 79.26 with standard deviation of 11.17 and after intervention the score of the sample group in public speaking anxiety SUDS is 56.94 with standard deviation of 11.51. The mean difference is 21.32 and Critical Ratio is 7.77. Before intervention the sample score of the group in PRPSA - 34 is 125.70 (Moderate public speaking anxiety) with standard deviation of 17.86 and after intervention the score of the sample group in PRPSA - 34 is 93.12 (Low public speaking anxiety) with standard deviation of 13.90. The mean difference is 32.56 and Critical Ratio is 7.13. Before intervention the sample score of the group in RES is 18.64 (low Self-Esteem) with standard deviation of 5.85 and after intervention the score of the sample group in RES is 27.22 (Average Self-Esteem) with standard deviation of 4.27. The mean difference is 8.58 and Critical Ratio is 10.82.

4. Discussion

The purpose of this study was to investigate whether the behavior modification techniques helps students to reduce public speaking anxiety and enhancement in the Self-esteem. The objective assessment of Subjective Unit of Distress, public speaking anxiety and self esteem psychometric scales namely Subjective Unit of Distress Scale developed by Wolpe, J. (1969), Personal Report of Public Speaking Anxiety - 34 (PRPSA) developed by McCroskey, J. C. (1970; 1992) and Rosenberg Self Esteem Scale developed by Rosenberg, M. (1965) were used. Interventions based on Behaviour Technology were used to treat the students. Initially students were assessed before interventions for Subjective Unit of Distress Scale, Public Speaking Anxiety or performance anxiety and self esteem. The Mean Scores of the students on Subjective Unit of Distress Scale, Personal Report of Public Speaking Anxiety (PRPSA) and Rosenberg Self Esteem Scale were 79.26, 125.70 and 18.70 respectively. Students were given intervention for the period of four weeks with Behaviour Modification techniques, like
1) Public speaking with high problem in the presence of similar group.
2) Public speaking with moderate problem in the presence of similar group.
3) Public speaking with low problem in the presence of similar group.

These exercises, through principle of Reciprocal Inhibition, developed alternate emotional responses towards public speaking anxiety or performance anxiety. Public speaking anxiety to be incompatible with it, Students were responded well to these interventions and after four weeks and the students were reassessed on Subjective Unit of Distress...
To conclude, this study has shown that Behaviour Technology is efficient in treating Public Speaking Anxiety.

5. Acknowledgments

The author appreciates all those who participated in the study and helped to facilitate the research process.

6. Conflict of Interests

The author declared no conflict of interests.

References


Appendix

List of Questions

Directions: Below are 34 statements that people sometimes make about themselves. Please indicate whether or not you believe each statement applies to you by marking whether you:

**Strongly Disagree = 1; Disagree = 2; Neutral = 3; Agree = 4; Strongly Agree = 5.**

1) While preparing for giving a speech, I feel tense and nervous.
2) I feel tense when I see the words “speech” and “public speech” on a course outline when studying.
3) My thoughts become confused and jumbled when I am giving a speech.
4) Right after giving a speech I feel that I have had a pleasant experience.
5) I get anxious when I think about a speech coming up.
6) I have no fear of giving a speech.
7) Although I am nervous just before starting a speech, I soon settle down after starting and I feel calm and comfortable.
8) I look forward to giving a speech.
9) When the instructor announces a speaking assignment...
in class, I can feel myself getting tense.
10) My hands tremble when I am giving a speech.
11) I feel relaxed while giving a speech.
12) I enjoy preparing for a speech.
13) I am in constant fear of forgetting what I prepared to say.
14) I get anxious if someone asks me something about my topic that I don’t know.
15) I face the prospect of giving a speech with confidence.
16) I feel that I am in complete possession of myself while giving a speech.
17) My mind is clear when giving a speech.
18) I do not dread giving a speech.
19) I perspire just before starting a speech.
20) My heart beats very fast just as I start a speech.
21) I experience considerable anxiety while sitting in the room just before my speech starts.
22) Certain parts of my body feel very tense and rigid while giving a speech.
23) Realizing that only a little time remains in a speech makes me very tense and anxious.
24) While giving a speech, I know I can control my feelings of tension and stress.
25) I breathe faster just before starting a speech.
26) I feel comfortable and relaxed in the hour or so just before giving a speech.
27) I do poorer on speeches because I am anxious.
28) I feel anxious when the teacher announces the date of a speaking assignment.
29) When I make a mistake while giving a speech, I find it hard to concentrate on the parts that follow.
30) During an important speech I experience a feeling of helplessness building up inside me.
31) I have trouble falling asleep the night before a speech.
32) My heart beats very fast while I present a speech.
33) I feel anxious while waiting to give my speech.
34) While giving a speech, I get so nervous I forget facts I really know.

**Scoring:** To determine your score on the PRPSA, complete the following steps:

Step 1. Add scores for items 1, 2, 3, 5, 9, 10, 13, 14, 19, 20, 21, 22, 23, 25, 27, 28, 29, 30, 31, 32, 33, and 34
Step 2. Add the scores for items 4, 6, 7, 8, 11, 12, 15, 16, 17, 18, 24, and 26
Step 3. Complete the following formula:
PRPSA = 72 - Total from Step 2 + Total from Step 1

Your score should be between 34 and 170. If your score is below 34 or above 170, you have made a mistake in computing the score.
High = > 131
Low = < 98
Moderate = 98-131

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