أثر العلاج النفسي بالقراءة في تخفيض فلق الامتحان ندى طنبة جامعة اليرموك

فراس حموري قسم علم النفس جامعة اليرموك

عدنان محمد فرح قسم الصحة النفسية جامعة قطر

قلق الامتحان اعتمادا على عدد من المصادر العربية والأجنبية حيت وزع قلق الاختبار. وقد تم توزيعهم الى مجموعتين، تجريبية تكونست مسن (٢٨) حاولت الدراسة التعرف على درجة الاختلاف في درجة قلق الامتحان فـــي فاعلية استخدام المواد المكتوبة أو ما يعرف بإستراتيجية العالج بالقراءة جاءت هذه الدراسة نتيجة لاستمرار وجود الوصمة الاجتماعية المصاحبة بضرورة إجراء المزيد من الدراسات حول فاعلية هـنه الطريقة مقارنة منها في علاج قلق الامتحان والمشكلات التكيفية المشابه...ة. كما أوصت لتعرض أفرادها للمعالجة. أوصت الدراسة بضرورة تعميه إستراتيجية فروق ذات دلالة إحصائية لصالح المجموعة التجريبية تغرى بشكل رئيسسي على أفراد المجموعة التجريبية أثناء فترة المعالجة. أظهرت النتائج وجود اختيارهم بناء على حصونهم على أعلى درجات في مقياس ساراسون لقياس من (٥٥) طالبًا وطالبة من طلبة البكالوريوس فــــي جامعــة الــيرموك تــم للإرشاد والعلاج النفسي في المجتمعات الشرقية. حيث حاولت الكشف عن النفسي بالقراءة على المختصين في الإرشاد والعلاج النفسي للاستفادة طالبا وطالبة وضابطة تكونت من (٢٧) طالبا وطالبة. كما تم إعداد دليل لعلاج في تخفيض فلق الامتحان لدى عينة من الطلبة الجامعيين. وبشكل محدد وأفراد المجموعة الضابطة التي لم تتعرض للمعالجة. تكونت عينة الدراس الاختبار البعدي بين أفراد المجموعة التجريبية التي تعرضت للمعالج بالطرق التقليدية المعروفة في العلاج النفسي. العلاج

The Effect of Bibliotherapy in Reducing Test Anxiety Among Jordanian College Students

Adnan M. Farah*

Firas A. Hammouri**

Abstract

The purpose of this study was to investigate the effect of bibliotherapy upon reducing test anxiety among Jordanian college students. Fifty five (55) Participants were randomly assigned either to experimental or controlled group. Students in the experimental group were exposed to a specially designed self-help bibliotherapy training program. The content of the program includes six areas thought to be important to overcome test anxiety. The study called for pre-post two group experimental design. An adapted Arabic version of Sarason's Anxiety Test was administered as a pre and post test to participants. T-Test was used to determine the equivalence of the experimental and the control groups before treatment. Analysis of Covariance was used to test differences between groups at the post and follow-up test. statistical analysis revealed a significant difference between the two groups on the post test sores. The results of this study indicated that the bibliotherapy program did significantly help the experimental group to lower their test anxiety. The findings also suggest that test anxiety can be effected by various means of counseling and psychotherapy.

Introduction

During the last few years, several studies have documented that people in nonwestern countries underutilized mental health services (Tsai, Teng, & Sue, 1980; Atkinson, Ponterotto, & Sanchez 1984; Tracey, Leong, & Glidden, 1986; Atkinson, Whiteley, & Gim, 1990; and Farah, 1992). One explanation for the under utilization of mental health services in these countries is the shame and stigma associated with psychological problems that leads to

Dept. of Mental health University of Qatar

Dept. of Psychology Yarmouk University

seek help from other help providers (Atkinson et al. 1990).

Therefore, to provide psychological help, it is very important for counselors and psychologists in these countries to utilize different types of interventions and techniques other than individual or group psychotherapy.

One Technique that could be utilized to overcome the cultural barriers and stigma associated with seeking psychological help is bibliotherapy. Bibliotherapy is defined as "The application of selected literature as a therapeutic tool to help individuals develop desirable attitudes and make satisfying personal and social adjustments" (Corsini, 1987). The process of Bibliotherapy consists of three stages: (1) identification- readers see a character, setting, or situation as being real; (2) catharsis- readers recognize that others have problems or questions similar to their own; (3) insight-readers realize that something can be done and one or more solutions are possible (Baruth & Phillips, 1976). The focus of bibliotherapy can remedial or developmental (Schrank, 1980). Remedial be bibliotherapy involves the clinical use of guided reading with individuals experiencing emotional or behavioral problems. Developmental bibliotherapy refers to the use of guided reading with regular readers as a dynamic interaction between a reader's personality and literature.

Historically, bibliotherapy has been practiced in two distinct forms. The first, and oldest, was classified as the reactive form of bibliotherapy (Gladding & Gladding, 1991). It dates back to 1930s, where any written material that helps individuals modify their thoughts, feelings, or behaviors was considered potentially therapeutic (Gambrill, 1985). The second and the newer form of bibliotherapy according to Hynes and Hynes-Berry (1986) is the

interactive bibliotherapy, where the process of growth, change and healing that occur in clients is attributed not so much in reading of material by individuals as in the guided dialogue about the material between the client and the counselor.

Bibliotherapy first gained popularity in counseling and psychotherapy as a technique used by trained counselors and psychotherapists to treat hospital patients (Lindemann & Kling, 1968-69). More recently, however, bibliotherapy has become an important technique in Counseling and Psychotherapy to help individuals who seem to be reluctant or angry and refuse to talk about personal issues. It is also considered helpful with students who are shy or quiet and need information to begin talking more fully about what they consider a sensitive topic. Therefore, using books within school guidance and counseling program can be a valuable aid for the school counselor who can have a readily available library that includes a widely varied topics to help students to develop better understanding of themselves and their problems (Timmerman, Martin, & Martin, 1989).

Interest in the field of bibliotherapy has largely grown out of it's promise and cost effectiveness in terms of staff, time and money. Further, the potential stigma attached to traditional psychotherapeutic technique may be prevented because most of the work is completed away from therapy or counseling sessions and therapeutic encounters are brief.

The field of Bibliotherapy is expanding and appears to be gaining wider acceptance as a therapeutic tool. During the last few years, the mental health and counseling literature (Craighead, McNamara, & Horn, 1984; Riordan, & beggs, 1987; Timmerman,

Martin, & Martin, 1989; Daisy, 1993) has reflected greater recognition of Bibliotherapy.

Bibliotherapy is sometimes practiced on a one-to-one or group basis in hospitals, schools, clinics, and in gerontological, mental health, and correctional settings. It has been employed to overcome several adjustment and psychological problems including depression, self-concept, stress management, maturation, alcohol abuse (Mahalik & Kivlighan, 1988; Calhoun, 1987; Powell, & Enright, 1990; Jalongo, 1983; and Gaydish, 1988)

Although several studies have been conducted on Bibliotherapy, no attempts have been made to investigate it's use in the Arab world. On the other hand, the phenomenon of test anxiety has been investigated by many researchers and several intervention strategies have been used to help students overcome this problem (e.g., Hembree, 1988; Hill & Wigfield, 1984; D'Alelio & Murray, 1981; and Tryon, 1980).

In Middle East, several studies have been carried out on test anxiety as related to different variables such as achievement motivation (Alsafti, 1995), muscle relaxation (Alrehani, 1981), rational and irrational beliefs (Farah, Atoum, and Al-Ali, 1992), and self-esteem (Shuaib, 1988).

The present study was conducted to assess the efficacy of bibliotherapy in aiding a sample of Jordanian college students to reduce their test anxiety. The purpose of the current study was to examine the effect of bibliotherapy in reducing test anxiety. More specifically, the study addressed the following two questions:

- 1. Are there any significant differences between the experimental and the control groups on post-test anxiety scores as a result for the application of self-help Bibliotherapy training program.
- 2. Are there any significant differences between the experimental and the control groups on the follow-up test anxiety scores as a result for the application of self-help Bibliotherapy training program.

METHOD

Participants

Potential participants for this study were 329 undergraduate students at Yarmouk University who were screened for test anxiety by completing an adapted version of Sarason test Anxiety Scale (STAS) (Sarason, 1980). To be eligible, the participant had to indicate interest in participating in a self-help treatment program on reducing test anxiety, not to be involved in psychotherapy during the time of the study, and meet the STATS criterion cutoff score of 22. Because the mean score for the overall sample was (17.64) with a standard deviation of (4.72).

The final sample included 55 participants (17 men and 38 women). Six different majors were represented and class distribution was as follows: 9 % freshmen, 26 % sophomores, 38 % juniors, and 27 % were seniors. The participant's average age was 19.5 years. The participants were randomly assigned either into an experimental group (N=28), or a control group (N=27).

Measures

An adapted Jordanian version of Sarason test Anxiety Scale (STAS) (Oadeh,1988) was used as a pretest ,post-test and a follow-up assessment instrument. The test is a 33-item scale designed to measure test anxiety. The mode of response to items was a yes/no format, with 1=Yes, 0=No Scores range from 0 (the lowest level of test anxiety) to 33 the highest level of test anxiety.

The Cronbach alpha reliability for the STAS was reported to be .81 Evidence of criterion validity was obtained by correlating the STAS with an adapted version of Suinn Test Anxiety Behavior Scale (Suinn, 1969) The correlation was 0.73.

Manual

The bibliotherapy manual consisted of six subjects thought to be important to overcome test anxiety. The content was implemented on the basis of the reactive form of bibliotherpay, where participants did not meet with researchers while using the self-help manual. The manual included the following components:

- (a) the nature of test anxiety and stress management (Powell & enright, 1990).
- (b) Relaxation training (Cormier, 1992).
- (c) Presentation of cognitive strategies, namely positive self-talk (Rathus, 1987); distraction (Powell & Enright, 1990) and thought stopping (Cormier, 1992).
- (d) time management (Suttertley & Donnelly, 1981).
- (e) Good and bad reading habits (Hamam, 1984).
- (f) test taking strategies (Sumner, 1985).

Procedure

Participants were randomly assigned either into an experimental group (N=28) or a control group (N=27). Both groups were administered the STAS as a pre assessment measure prior to 1st college exam. Participants in the experimental group received the treatment manual, and were informed by written memorandum that the manual is a self-help bibliotherapy manual especially designed to reduce the level of test anxiety they have demonstrated previously on the test anxiety scale.

After 5 weeks, prior to 2nd exam, the treatment manual was drawn and participants were retested with the STAS. Additionally, participants were given the STAS again prior to the final exam as a follow-up assessment to determine the long-term effectiveness of treatment.

Research Design and Data Analysis

This Study used a pre-post two group experimental design (Campbell & Stanley,1966) T-test was utilized to determine the equivalence of the experimental and the control groups before treatment. Analysis of Covariance (ANCOVA) was conducted to test differences between the two groups at the post-test and follow-up test, using the pretest scores as the covariate (Porter & Raudenbush,1987).

RESULTS

Means and standard deviations of the experimental and the control groups for test anxiety scores at the three assessment times are presented in table 1.

TABLE 1

Means and Standard Deviations for Test Anxiety Scores
at Three Times of Assessments for
the Experimental and the Control Groups

Times of	Experimenta	l Control
Assessment	M SD	M SD
Pretest	24.61 1.7	5 24.44 1.81
post-test	20.57 3.12	2 23.63 2.57
follow-up	19.89 3.64	23.19 2.99

Table 1 shows that the mean total scores for the experimental group in the post-test (M=20.57) and follow-up test (M=19.89) were lower than those scores for the control group in both assessment times (M=23.63) at the post-test, (M=23.19) at the follow-up test.

Experimental and control groups were compared by means using t-test analysis based on pretest scores on the STAS. Results revealed no statistically significant differences between groups before treatment (see Table 2). t = 0.34 p < 0.736 which indicated that the two groups were equivalent on the anxiety measure.

TABLE 2
T-Test Analysis of Test Anxiety for Experimental and Control Group on the Pretest

Group	Mean	t-Value	р
Experimental (N=28)	24.61	0.34	0.736
Control (N=27)	24.44		

To determine the effectiveness of the treatment upon the experimental group a post-test was conducted one month after the pretest (see Table 3). the analysis of Covariance was utilized to test differences between the experimental and the control group, using the pretest scores as the covariate.

TABLE 3
Analysis of Covariance for
Test Anxiety Scores on the Post-Test

Source	df	SS	MS	F	р
Treatment	1	135.951	135.951	18.421	.05*
Error	52	383.769	7.38		
Total	53	563.709			

^{*} Significant at p<.05.

Table 3 displays the results of the ANCOVA comparing the test anxiety scores of the participants on pre and post assessment for the two groups. Inspection of results revealed a significant main effect for treatment, and the experimental group scored significantly lower on test anxiety as compared to the control group, F(1,52)=18.421, p<.05 which indicated that the treatment did lower the test anxiety level among participants in the experimental group.

Further, to determine the long-term effectiveness of the treatment upon the experimental group a follow-up test was conducted one month after the post-test and the analysis of Covariance was utilized to test differences between the experimental and the control group, using the pretest scores as the covariate.

TABLE 4
Analysis of Covariance for test anxiety scores on the Follow-up test

Source	df	SS	MS	F	р
Treatment	1	158.63	158.63	16.38	.05*
Error	52	514.329	9.891		
Total	53	737.745			

^{*} Significant at p<.05.

Results as shown in table 4 revealed a significant main effect for treatment, F(1,52) = 16.38, p<.05, which suggests that the participants in the experimental group had a lower test anxiety scores (M=19.89) than the participants in the control group.

DISCUSSION

Results of this study suggests that bibliotherapy has a significant impact on reducing test anxiety. Results of ANCOVA indicated that participants in the experimental group demonstrated a lower level of test anxiety, as compared with participants in the control group.

Findings of this study are consistent with previous research such as (Cutforth, 1980; Saltzberg, 1981; and Register et al., 1991), but not with other studies such as (Kohutek, 1983; and Smith, 1992).

One of the many limitations of this study, however, was the sample size. Duplications of similar studies in a larger and different sample would further add to the significance of this effort.

Despite the limitations of the study, apparently the findings have several practical implications. First, for the counselors, there are clear implication with respect to the use of bibliotherapy as a helping tool to assist client to overcome psychological and adjustment problems. Second, for counselor educators, self-help manuals such as that used could be incorporated into professional preparation of school counselors and other mental heath professionals.

Future researchers might benefit from focusing on several issues such as: (a) the effectiveness of bibliotherapy compared with other counseling approaches such as individual or group counseling. (b) the effect of some variables on the effectiveness of bibliotherapy (i.e., self-concept, locus of control personality type). (c) the differential impact of bibliotherapy for different kinds of clients, as well as the assessment of a longer term impact of this strategy.

In conclusion, the findings of this study support the assumption that test anxiety can be effected by various means of counseling and psychotherapy Therefore, the utilization of bibliotherapy in the helping relationship is significantly important, specially in some nonwestern cultures where the stigma is still associated with the traditional counseling techniques.

REFERENCES

- Alrehani, S., (1981). The effect of muscle relaxation on achievement and test anxiety. *Arab Journal for Educational Research*, (in Arabic) 2 (2), 138-148.
- Alsafti, M., (1995). Test Anxiety and its relation to achievement: a cross-cultural study between high school students in Egypt and Arab Emirates. *Journal of Psychological Studies*, (in Arabic) 5 (1), 71-106.
- Atkinson, D., Ponterotto, J., & Sanchez, A. (1984). Attitudes of Vietnamese and Anglo-American students toward counseling. *Journal of College Student Personnel*, 25 (5), 448-458.
- Atkinson, D., Whiteley, S., & Gim, R. (1990) Asian-American acculturation and preferences for help providers. *Journal of College Student Development*, 31 (2) 155-161.
- Baruth, L. G., & Phillips, M.W. (1976). Bibliotherapy and the school counselor. *The school counselor*, 23, 191-99.
- Calhoun, G. (1987). Enhancing self-Perception through bibliotherapy. *Adolescence*, XXII (88), 939-943.
- Campbell, D., & Stanley, J. (1966). Experimental and quasi experimental designs for research. Boston: Houghton Maifflin.

- Cormier, S. (1992). Life guide: *Keys to emotional strength*. Bradenton, Florida: TAB Books.
- Corsini, R. (1987). *Concise encyclopedia of psychology*. John Wiley & Sons: New York.
- Craighead, L., McNamara, K., & Horn, J. (1984) *Perspectives on self-help and bibliotherapy*: You what you read. In S. D. Brown & R. W. Lent (Eds.) The Handbook of Counseling Psychology (pp. 878-929). New York: Wiley.
- Cutforth, N. (1980). The effect of group bibliotherapy in reducing the anxieties of children in grades one, two and three. (Doctoral Dissertation, North Illinois University, (1980). dissertation Abstract International, 41, 932-A.
- D'Alelio, W. A., & Murray, E.J. (1981). Cognitive therapy for test anxiety. *Cognitive therapy and research*, 5, 299-307.
- Daisy, P.(1993) Three ways to promote the value and the use of literacy at any age. *Journal of Reading*, 36 (6), 436-440.
- Farah, A. (1992). Guidance and counseling in The Hashemite Kingdom of Jordan: Some Observations. International Journal for the Advancement of Counseling, 15 (1) 17-26.
- Farah, A., Atoum, A., & Al-Ali, N. (1992). Test anxiety and rational and irrational beliefs. *Journal of Psychology*, (in Arabic) 26, 26-32.

- Gambrill, E. (1985). Bibliotherapy. In A. S. Bellack & M. Hersen (Eds.), *Dictionary of behavior therapy techniques* (pp. 48-51). New York: Pergamon.
- Gaydish, J. (1988) Self-control Bibliotherapy as a secondary prevention strategy with heavy drinking college students. (Doctoral Dissertation, Washington State University, 1987).
- Gladding, S., & Gladding, C. (1991). The ABCs of bibliotherapy for school counselors. *The school counselor*, 39, 7-13.
- Hammam, T. (1984). *How to study*. (in Arabic). Amman: Dar-Elfurgan.
- Hembree, R. (1988). Correlates, causes, effects, and treatment of test anxiety. *Review of Educational Research*, 58 (1), 47-77.
- Hill, K., & Wigfield, A. (1984). Test anxiety: A major problem and what can be done about it. *The Elementary School Journal*, 85 (1), 105-126.
- Hynes, A. M., & Hynes-Berry, M. (1986). *Bibliotherapy-the interactive process: A handbook. Boulder*, GO:
 Westview Press.
- Jalongo, M. (1983) Bibliotherapy: Literature to promote socioemotional Growth. *The Reading Teacher*, 36, 796-803.

- Kohutek, K. (1983). Bibliotherapy with a correctional setting. *Journal of Clinical Psychology*, 39, 920-924.
- Lindmann, B.,& Kling, M. (1968-69). Bibliotherapy: definitions, uses and studies. *Journal of the School of Psychology*, Vol 1 (December/January) 36-41.
- Mahalik, J., & Kivlighan, D. (1988). self-help treatment for depression: Who succeeds? *Journal of Counseling Psychology*, 35 (3), 237-242.
- Oadeh, A. (1988) The effect of item response changes of multiple choice items on students' scores, and it's relation to test anxiety and item difficulty. *Journal of Dirasat: University of Jordan*, (in Arabic) 25 (1),68-80.
- Porter, A. C., & Raudenbush, S. (1987). Analysis of covariance: Its model and use in psychological research. *Journal of Counseling Psychology*, 34, 383-403.
- Powell, T., & Enright, S. (1990) *Anxiety and stress management*. London: Routledge & Winston.
- Rathus, S. (1987) Psychology. New York: Rinehart.
- Register, A., Beckham, J., May, J., & Gustafson, D. (1991).

 Stress Inoculation bibliotherapy in the treatment of test anxiety. *Journal of Counseling Psychology*, 38, 115-119.

- Riordan, R., & beggs, M.(1987) Counselors and self-help groups. *Journal of Counseling and Development*, 65 (8), 427-434.
- Saltzberg, L. (1981). A Comparison of RET group therapy with bibliotherapy, and bibliotherapy only treatments. (Doctoral Dissertation, Texas A & M University, (1980). dissertation Abstract International, 41, 3018-A.
- Sarason, I. (1980) Test anxiety: *Theory, research and application*. New Jersey: Lawrence Erlbaum Associates Publishers.
- (Schrank, F. (1980). Bibliotherapy outcomes: the effects of guided reading for education counseling and therapy. Ph. D. dissertation, University of Wesconson-Madison, 1980.
- Shuaib, A. (1988). Modeling of causal relationship between self-esteem, anxiety and achievement among adolescents in Saudi Society. (in Arabic) *Journal of Social Sciences*, 16 (2) 135-156.
- Smith, G. (1992). An investigation of bibliotherapy as a strategy to reduce stress related to standardized testing. (Doctoral Dissertation, Arizona State University, (1991). *Dissertation Abstract International*, 52, 4306-A.
- Suinn, R. (1969) The STABS, a measure of test anxiety for behavior therapy. Normative Data. *Behavior Research* and *Therapy*, 7, 335-339.

- Suinn, R. (1969) The STABS, a measure of test anxiety for behavior therapy: Normative Data. *Behavior Research* and *Therapy*, 7, 335-339.
- Sumner, S. (1985). *Test taking tips*, (handout). New York: Krell Software.
- Suttertley, D., & Donnelly, G. (1981). *Coping with stress*. Rockville, Maryland: Aspen Systems Corp.
- Timmerman, L., Martin, D., & Martin, M. (1989) Augmenting the helping relationship: The use of bibliotherapy. *The school Counselor*, 36, 293-296.
- Tracey, T., Leong, F., & Glidden, C. (1986). Help seeking and problem perception among Asian Americans. *Journal of Counseling Psychology*, 33, 331-336.
- Tryon, G. S. (1980). The measurement and treatment of test anxiety. *Review of Educational Research*, 50 (2), 343-372.
- Tsai, M., Teng, L., & Sue, S. (1980). Mental Status of Chinese in the United States. In A. Kleinman & T. Y. Lin (Eds.), Normal and deviant behavior in Chinese culture. Hingham, MA: Reidel.

ورد البحث للمجلة في ١٩٩٦/٧/١٥ أعيد بعد تعديله في١٩٩٦/١١/١٣ أجيز للنشر في ١٩٩٦/١١/٢٤