

## Major Depressive Disorder: A Comparison of a Focused Psychodynamic Psychotherapy and Pharmacotherapy

Fateh Rahmani, PhD\* , Farzin Rezaei, MD\*\*\* , Marzie Nasuri, M.Sc\*\*

(Received: 6 Jun 2010 ; Accepted: 23 Feb 2011)

**Objective:** This study explored the therapeutic outcomes of psychodynamic psychotherapy for Major depressive disorder (MDD) in comparison with pharmacotherapy.

**Methods:** The focus of psychodynamic psychotherapy was on the superego pathology and its developmental backgrounds, while pharmacotherapy was done using SSRIs. A sample of 50 MDD patients was randomly selected by clinical interview using DSM-IV-TR. The presence and severity of the depressive symptoms were assessed using the MMPI-2 depression content scale as a symptom checklist, and the Beck Depression Inventory. Twenty five patients were selected for the psychoanalytic psychotherapy group and twenty five patients for pharmacotherapy. After 15 weeks, all the participants were assessed using the same instruments.

**Results:** The results indicated a comparable symptom reduction in the two groups.

**Conclusion:** Clinical observations confirmed the psychodynamic inferences about the role of the superego pathology in MDD.

**Declaration of Interest:** None.

**Clinical Trial Registration:** URL: <http://www.irct.ir/> Unique identifier: IRCT201011032935N5

**Citation:** Rahmani F, Rezaei F, Nasuri M. Major depressive disorder: A comparison of a focused psychodynamic psychotherapy and pharmacotherapy. *Iranian Journal of Psychiatry and Behavioral Sciences* 2011; 5(1): 37-44.

**Keywords:** Major Depressive Disorder • Psychodynamic Psychotherapy • Pharmacotherapy

### Introduction

Depression is a prevalent mental disorder with a high rate of recurrence (1). It induces disabilities and impairments in many areas, such as marital, family and interpersonal relationships, physical health and occupational functions (2-9). According to Rush (10), 33 to 50% of all outpatients with uncomplicated, non-chronic, non-resistant major depressive disorder (MDD) may achieve remission (i.e. the virtual absence of depressive symptoms). Amital et al (11) also argued that over 60% of patients with major depressive disorder do not respond fully to therapy and half of them will not respond at all. The World Health Organization

(WHO) has ranked depression fourth in the list of the most urgent health problems worldwide (1).

Psychotherapy is an important treatment choice for depression (10,12-15). However, the number of studies on treatment of depression is not evenly distributed. For instance, the efficacy of psychodynamic psychotherapies in the treatment of depression has not been well documented, since most of the studies have compared pharmacotherapy with cognitive behavior therapy (15,16). In spite of the fact that there are very few controlled studies that support superiority of the psychodynamic approach (e.g. 17,18), there are good reasons to believe the efficacy and the importance of its principles (19-21).

Despite the criticisms (22-24), psychoanalysis is an accepted, valid, scientific branch of psychology and psychotherapy (25-27). However, the available researches into the psychoanalytic therapies raised to treat depression are mainly restricted to psychodynamic interpersonal or

**Authors' affiliations :** \* University of Kurdistan, Sanandaj, Iran \*\* Department of Psychiatry, Kurdistan University of Medical Sciences, Sanandaj, Iran

• **Corresponding author :** Farzin Rezaei, MD, Assistant professor of Psychiatry, Department of Psychiatry, Kurdistan University of Medical Sciences, Sanandaj, Iran  
Tel : +98 918 3717839  
Fax : +98 871 6661340  
E-mail: [frezaie@yahoo.com](mailto:frezaie@yahoo.com)

psychodynamic supportive therapies (e.g. 17,18,28,29) and there is a need to fill the gap by other approaches.

Psychoanalytic therapies have an exploratory nature (30) with a lengthy duration; an important barrier for treatment outcome research. In contrast, short-term methods may be more appropriate for outcome research and may neglect the treatment processes, which are central to psychodynamic approaches (31). However, as Dekker et al. (14) pointed out, treatment outcome research is necessary for realizing the efficacy of psychodynamic therapies that are time limited. These methods actively apply interventions and interpret clinical observations according to theoretical ideas.

The psychoanalytic understanding of depression emphasizes depressive reactions to particular situations (which are the focus of the psychodynamic interventions). Object loss, in reality or in fantasy, and anger turned inward (32-36), the conflicting mental structures –the ego, the superego and the id (37-41)-, and the oedipal conflicts (42,43) are among the important theoretical considerations of psychoanalysis.

All of recent evidences from neuroscience and advanced imaging technology presented supports for some of the psychoanalytic major concepts including the unconscious and the key role of early life events (44). The relationship between different adverse life events and depression (45,49) support this view partially.

In this study, it was tried to fill the gap in psychotherapy of depression by comparing the effects of focused psychodynamic psychotherapy and pharmacotherapy. We tried to explore the effect of psychodynamic psychotherapy with a focus on the superego and the developmental background (i.e. the oedipal conflicts) for major depressive disorder. Accordingly, one of the treatment choices of psychiatrists for major depressive disorder is SSRIs. Our hypothesis is that psychotherapy is as effective as pharmacotherapy in removing or reducing depressive symptoms in MDD patients with a mild to moderate severity. The symptom reduction at the determined time will be reported as an attempt to indicate the effects of both the therapies.

## Materials and Methods

The current research was quasi-experimental with two comparison groups at their pretests and posttests. The study sample consisted of all the consecutive patients during 3 months, at two outpatient clinics, who accepted to be treated by either psychotherapy or pharmacotherapy. The main inclusion criteria were between 18 and 45 years of age, a minimum education of 10 years and DSM-IV-TR-defined major depressive episode (mild to moderate) with or without dysthymia. MMPI-2 depression content scale (DEP; 50) with baseline scores between 70 and 100, and 21-item BDI (51) with baseline scores between 17 and 63 points were also regarded as selection criteria. Patients were excluded if they had a history of bipolar disorder, psychotic symptoms, substance dependency, a mental disorder due to organic factors, or another axis I criteria of DSM-IV-TR (52).

The first source of information about the subjects was the regular clinical interview using DSM-IV-TR by professionals for every new client in the counseling centers. Through it, the eligible patients were selected from the lots of the clients. We needed two instruments for quantifying the diagnosis and assessing the severity in the baselines and treatment outcomes. MMPI-2 depression content scale (DEP; 50) is a good instrument for quantifying the diagnosis of depression and Beck Depression Inventory (BDI; 51,53,54) is one of the most common instruments for evaluating depression severity after a valid diagnosis.

**Table 1.** Demographic and clinical characteristics of the patients

	Psychotherapy (N=20) (n) %	Pharmacotherapy (N=22) (n) %
Sex		
Male	(7) 35	(7) 31.8
Female	(13) 65	(15) 68.2
Age		
18-30 yr	(11) 55	(9) 41
31-45 yr	(9) 45	(13) 59
Educational level		
<high school diploma	(3) 15	(4) 18.2
high school diploma>	(9) 45	(10) 45
high school diploma	(8) 40	(8) 36.3

The MMPI-2 is one of the most widely used psychometric instruments. The content

scales of MMPI-2 are composed of items that are related conceptually and statistically to the content areas that they are meant to assess. The interpretation of the MMPI-2 content scales is based on the assumption that participants want to reveal themselves through the test. As such, the subject's responses to content scale items are considered to be a direct source of information about that subject's thoughts and feelings. The Depression Content Scale has a very high test-retest reliability (ranging from 0.87 to 0.94), as well as strong empirical and face validity (55,50). MMPI and MMPI-2 were frequently used as the subjects of studies and the research instruments for a reliable and valid psychometry (56-59). No difference has been found between English and Farsi versions of MMPI-2 (60) and it has presented good psychometric properties (61).

BDI is also a widely used instrument for assessing depression with acceptable reliability and validity (54,62). It prepares a general assessment of depression and makes it possible to quantify its severity. BDI was widely used and evaluated in Iran. Fathi Ashtiani (1995) showed the validity of BDI in discriminating the depressed populations according to the performed researches in Iran. Its test-retest reliability was between 48% and 86%. Its correlations with Hamilton Test and with Zong scale were 73% and 76% respectively. Its assessed Alfa was 87%. Its internal consistency was evaluated to be between 23% and 68% and its splitting reliability using Spirman-Brown method was 81% (63,64).

From 65 patients suitable for the study, 50 were eventually randomized. The remaining 15 patients refused randomization and preferred to choose their treatment. Before the treatments, all the participants were evaluated using the MMPI-2 DEP scale and BDI. After starting the treatments, five patients of the psychotherapy group (N=5; 20%) and three patients of the pharmacotherapy group refused the treatments (N=3; 12%). These between-group differences were not significant ( $X^2=0.595$ ;  $df=1$ ;  $p=0.44$ ). The numbers of patients included in the per protocol analysis (patients actually continued the treatment) were 20 for the psychotherapy group and 22

for the pharmacotherapy group. After 15 weeks, all the participants were assessed using the same instruments.

Psychodynamic psychotherapy includes a wide range of therapy interventions that focus on the different psychodynamic aspects of the affective, behavioral and cognitive factors (14). The new psychoanalytic approaches focus on attachment, object-relations and the self-theory (65). In this research, we concentrated on the punitive superego as a metaphor for particular mental functioning and the oedipal conflicts as the emotional base of depressive symptoms. Our main aim was to uncover the oedipal conflicts. An appropriate choice for such an aim is Davanloo's Intensive Short-Term Dynamic Psychotherapy. One of the aims of this method was to uncover the oedipal feelings (66). Della Selva (67) did modifications on this technique to facilitate this purpose. Hence, the applied method of psychodynamic psychotherapy in this research was the modified form of Davanloo's intensive short-term dynamic psychotherapy according to Della Selva, with the aim of uncovering the oedipal conflicts. The sessions were supervised based on the audiotaped materials. The trained students of M.Sc. degree of clinical psychology did the evaluations, and the researchers did the therapeutic interventions (either psychotherapy or pharmacotherapy).

Pharmacotherapy was carried out using citalopram 40 mg (mean daily dosage). Patients had fortnightly appointments with psychiatrists. Fifteen weekly sessions were determined as the total length of the psychotherapy in this research. The time of psychotherapy might change according to the psychodynamic approach and the patient's mental state. However, this time was appropriate for pharmacotherapy to show its effects.

ANCOVA analyses were used to test inter-group differences including differences in baseline parameters as co-variants. Pearson Chi-square calculations were used to compare the dropout rates. Data-analyses were performed on the sample, which consisted of all patients who actually started and finished the treatments. Efficacy was defined as the inter-group differences at first and last

sessions and was expressed in terms of differences in mean scores. Dropout was defined as stopping medication intake or changing the doctors in the pharmacotherapy group, while it was defined as discontinuing the treatment, cancelling or irregularity in the appointments in the psychotherapy group.

## Results

Table 2 presents the analysis of covariance to compare the effects of the treatments on participants' depressive symptoms. The independent variables were the treatments and the dependent variables were BDI scores and MMPI-2 DEP scale, administered after the specified period of time for the treatments. The participants' scores in the pretests were used as the covariate in this analysis. Preliminary checks were conducted to ensure that there was no violation of the assumptions of normality, linearity, homogeneity of variances and homogeneity of regression slopes. After adjusting for pretest scores, there was no significant difference between the two groups in BDI posttest,  $F(1,39) = .43$ ,  $p = .837$ ,  $\eta^2 = .002$  and the posttest of MMPI-2 DEP scale,  $F(1,39) = 2.532$ ,  $p = .123$ ,  $\eta^2 = .083$ . There was not a strong relationship between the pretest and posttest scores on both the scales, as indicated by the eta-squared values.

## Discussion

The history of depression is possibly as long as human history. Likewise, there has always been a need for documented therapeutic methods. This study compared the effects of psychoanalytic psychotherapy and pharmacotherapy in the treatment of patients with major depressive episodes. Our psychotherapy choice was focused psychoanalytic therapy because the efficacy

of these methods seemed to be overlooked by many of clinicians and our major focus was on the superego and the oedipal conflicts to pay a special attention to etiological concepts of depression. Our comparison group was pharmacotherapy because it is among the first-line treatments for depression (68). It seems that mono-therapy is more helpful for exploring the effects of treatments. The outcome instruments did not detect between-group differences. There was not a significant difference between the MMPI-2 DEP scores and BDI scores of subjects in the comparison groups after controlling pre-scores. Even though this study was short to show full potentials of psychodynamic psychotherapy, a relation has been supported between early response to therapy and eventual therapeutic outcome (14,69,70).

Our findings generally agree with the idea that psychodynamic psychotherapy is effective in reducing depression in outpatients with mild to moderate severity (17-19,71,72). Accordingly, the results present assumptions of a similar value for psychodynamic psychotherapy of depression with SSRIs.

In our study, the results were as significant as they were expected. However, both of groups had problems in rates of remission according to the dropout rate (5 and 3 from psychoanalytic therapy and pharmacotherapy groups respectively). The subjects who leave a therapy could not probably be helped through it. It can make hesitant the generalizability of the conclusions. It was not possible for us to classify the subjects according to their demographic conditions or symptoms because of their low frequency. The necessity of adapting to the therapeutic situation for the clients may be important for an appropriate course of therapy. However, its problems may come from factors such as interactions among the therapeutic strategies, reciprocities of personality traits and types of mental disorders.

**Table 2.** Descriptive statistics of pretest and posttest of both groups and Analysis of Covariance of the effects of the therapies on the depression scales

Variable	Psychotherapy				Pharmacotherapy				F	$\eta^2$
	Pretest		Posttest		Pretest		Posttest			
	M	SD	M	SD	M	SD	M	SD		
MMPI-2 DEP scale	80.73	6.86	58.6	16.2	84.06	8.87	57.87	15.67	2.532	.083
Pretest									.214	.008
BDI	30.27	8.19	13.13	8.42	34.44	10.36	13.44	9.67	.43	.002
Pretest									1.79	.06

It is not possible to speak about psychodynamic psychotherapy without referring to its view on the etiology. The results may encourage us to discuss some etiological assumptions about depression from a psychoanalytic view. It is not methodologically reasonable to conclude the etiology of the mental disorders or the truth of the psychodynamic concepts from treatment. However, it is reasonable to speak about some psychotherapy concepts from this approach. Psychopathology concepts point to etiological factors and psychotherapy concepts refer to ideas which are applied for therapeutic purposes (and do not necessarily discriminate etiology). Hence, we can conclude some causality legitimately between the therapeutic tasks and symptom remission. In other words, we may be able to conclude useful psychotherapy concepts which may modulate changes in the patients' psychopathology. There are a number of documented psychotherapy concepts for depression in various approaches (73-79).

Our study had some shortcomings in the low sample size, low therapists' number, lack of a follow up of the treatment outcomes and few comparison groups. We had also limitations, in this research, on restricting the treatment to single therapy methods and the control group. First, it is not ethical to restrict the patients to a single treatment for a long time, especially for the patients who do not respond conveniently. Second, even though there is no longitudinal assessment for validating the achieved results, evidence shows that early response is related to the maintenance of treatment gains (70,71). Third, in spite of the importance of a control group, we saw it unethical to postpone the treatment of a group of patients. Therefore, this study had only two comparing groups.

## References

1. Rihmer Z, Angst J. Mood disorders: Epidemiology. In: Sadock BJ, Sadock VA, editors. Kaplan and Sadock's Comprehensive textbook of psychiatry. New York: Lippincott Williams and Wilkins; 2005. Vol.2. p. 1575-81.
2. Catipovic-Veselica K, Galic A, Jelic K, Baraban-Glavas V, Saric S, Prlic N, et al. Relation between major and minor depression and heart rate, heart-rate variability, and clinical characteristics of patients with acute coronary syndrome. *Psychological Reports*, 2007; 100(3 Pt 2): 1245-54.
3. Wise TN, Sheridan MJ. Relation of fatigue with alexithymia and depression in psychiatric outpatients. *Perceptual and Motor Skills* 2007; 105(2): 539-545.
4. Lester D, Yang B, Spinella M. Depression, anxiety, and personal finance behavior: implications for the classical economic conception of humans as rational decision-makers. *Psychological Reports*, 2006; 99(3): 833-4.
5. Akiskal HS. Mood disorders: Historical introduction and conceptual overview. In: Sadock BJ, Sadock VA, editors. Kaplan and Sadock's Comprehensive textbook of psychiatry. New York: Lippincott Williams and Wilkins; 2005. Vol. 2. p. 1559-74.
6. Richelson E. Pharmacology of antidepressants. *Mayo Clin Proc* 2001; 76(5): 511-27.
7. Rioto M. Depression in the workplace: Negative effects, perspective on drug costs and benefit solutions. *Benefits Q* 2001; 17(2): 37-48.
8. Albin RS. The psychology of injury. *Trial* 1999; 35: 52-59.
9. Ereshefsky L. Antidepressant pharmacodynamics, pharmacokinetics, and drug interactions. *Geriatrics* 1998; 53 (Suppl 4): S22-33.
10. Rush AJ. Mood disorders: Treatment of depression. In: Sadock BJ, Sadock VA, editors. Kaplan and Sadock's Comprehensive textbook of psychiatry. New York: Lippincott Williams and Wilkins; 2005. Vol.2. p. 1652-60.
11. Amital D, Fostick L, Silberman A, Beckman M, Spivak B. Serious life events among resistant and non-resistant MDD patients. *Journal of Affective Disorders* 2008; 110(3): 260-4.
12. Imel ZE, Malterer MB, McKay KM, Wampold BE. A meta-analysis of psychotherapy and medication in unipolar depression and

- dysthymia. *Journal of Affective Disorders* 2008; 110(3): 197-206.
13. Karasue TB. *Psychotherapy for depression*. 1<sup>st</sup> ed. Northvale; Jason Aronson Inc; 1990.
  14. Dekker JJ, Koelen JA, Van HL, Schoevers RA, Peen J, Hendriksen M, et al. Speed of action: the relative efficacy of short psychodynamic supportive psychotherapy and pharmacotherapy in the first 8 weeks of a treatment algorithm for depression. *J Affect Disord* 2008; 109(1-2): 183-8.
  15. de Maat S, Dekker J, Schoevers R, de Jonghe F. Relative efficacy of psychotherapy and pharmacotherapy in the treatment of depression: a meta-analysis. *Psychother Res* 2006; 16(5): 566-578.
  16. Bhar SS, Gelfand LA, Schmid SP, Gallop R, DeRubeis RJ, Hollon SD, et al. Sequence of improvement in depressive symptoms across cognitive therapy and pharmacotherapy. *J Affect Disord* 2008; 110(1-2): 161-6.
  17. Knekt P, Lindfors O, Laaksonen MA, Raitasalo R, Haaramo P, Järvikoski A. Effectiveness of short-term and long-term psychotherapy on work ability and functional capacity—a randomized clinical trial on depressive and anxiety disorders. *J Affect Disord* 2008; 107(1-3): 95-106.
  18. Leichsenring F. Comparative effects of short-term psychodynamic psychotherapy and cognitive-behavioral therapy in depression: a meta-analytic approach. *Clin Psychol Rev* 2001; 21(3): 401-19.
  19. Karon BP. Recurrent psychotic depression is treatable by psychoanalytic therapy without medication. *Ethical Hum Psychol Psychiatry* 2005; 7(1): 45-57.
  20. Sadock BJ, Sadock VA. *Kaplan and Sadock's synopsis of psychiatry: Behavioral sciences/Clinical psychiatry*. 4<sup>th</sup> ed. New York: Lippincott Williams and Wilkins; 2007.
  21. Auld F, Hyman M. *Resolution of inner conflict: an introduction to psychoanalytic therapy*. 1<sup>st</sup> ed. Washington: American Psychological Association; 1991.
  22. O'Brien MT. If Freud's theory be true. *Psychol Rep* 1992; 70(2): 611-20.
  23. Block P. Unconscious content. *Psychol Rep* 1985; 56(3): 891-901.
  24. Baker CA, Annis LV. Citations of articles on psychoanalysis and behavioral psychology in educational index. *Percept Mot Skills* 1979; 48(1): 94.
  25. Poland WS. *Melting the darkness*. 1<sup>st</sup> ed. Northvale: Jason Aronson Inc; 1996.
  26. Fine R. Psychoanalysis as a scientific systematic psychology. *Psychol Rep* 1981; 49(10): 483-95.
  27. Grotjahn M. Psychoanalysis twenty-five years after the death of Sigmund Freud. *Psychol Rep* 1965; 16: 965-8.
  28. Callahan KL, Price JL, Hilsenroth MJ. A review of interpersonal-psychodynamic group psychotherapy outcomes for adult survivors of childhood sexual abuse. *Int J Group Psychother* 2004; 54(4): 491-519.
  29. Gottdiener WH. The utility of individual supportive psychodynamic psychotherapy for substance abusers in a therapeutic community. *J Am Acad Psychoanal*. 2001; 29(3): 469-81.
  30. Greenson RR. *The technique and practice of psychoanalysis*. 1<sup>st</sup> ed. New York: International University press; 1974.
  31. PDM Task Force. *Psychodynamic diagnostic manual*. Silver Spring, MD: Alliance of Psychoanalytic Organizations; 2006. Alliance of Psychoanalytic Organizations. PDM Task Force, *Psychodynamic diagnostic manual*. Silver Spring, MD; 2006.
  32. Freud S. *Mourning and melancholia*. Standard edition 14. London: Hogarth press; 1917, 243-258.
  33. Markowitz JC, Milrod B. Mood disorders: Intrapsychic and interpersonal aspects. In: Sadock BJ, Sadock VA, editors. *Kaplan and Sadock's Comprehensive textbook of psychiatry*. New York: Lippincott Williams and Wilkins; 2005. Vol. 2. p. 1603-10.
  34. Abraham K. Notes on the psychoanalytical investigation and treatment of manic-depressive insanity and allied conditions. In *selected papers of Karl Abraham on psychoanalysis*. 1<sup>st</sup> ed. London: Hogarth press; 1948.
  35. Hartmann H. *Ego psychology and the problems of adaptation*. 1<sup>st</sup> ed. New York: International University press; 1958.

36. Richards AD, Lynch AA. From ego psychology to contemporary conflict theory: A historical overview. In: Ellman CS, Grand S, Silvan M, Ellman SJ, editors. *The modern Freudians: Contemporary psychoanalytic technique*. Northvale: Jason Aronson Inc; 1998. Vol. 1<sup>st</sup>. p. 3-23.
37. Freud S. The Ego and the Id. Standard edition 19. London: Hogarth press; 1923, 3-66.
38. Rado S. The problem of melancholia. *Int J Psycho Anal* 1928; 91: 420-438.
39. Klein M. Morning and its relation to manic-depressive states. *Int J Psycho Anal* 1940; 21: 125-53.
40. Ehrenwald J. Morning depression. *Am J Psychother* 1948; 2(2): 198-214.
41. Ruti M. From melancholia to meaning: How to live the past in the present. *Psychoanal Dialogues* 2005; 15(5):637-660.
42. Freud S. Female sexuality. Standard edition 21. London: Hogarth Press; 1931, 225-263.
43. Abraham K. The influence of oral eroticism on character formation. In *Selected papers of Karl Abraham*. London: Hogarth press and institute of psychoanalysis; 1927.
44. Bornstein SR, Wong ML, Licinio J. 150 years of Sigmund Freud: what would Freud have said about the obesity epidemic? *Mol psychiatry* 2006; 11(12): 1070-2.
45. Uhrlass DJ, Gibb BE. Childhood emotional maltreatment and the stress generation model of depression. *J Soc and Clinic Psychol* 2007; 26(1): 119-31.
46. Cohen RA, Hitsman BL, Paul RH, McCaffery J, Stroud L, Sweet L, et al. Early life stress and adult emotional experience: an international perspective. *Int J Psychiatry Med* 2006; 36(1): 35-52.
47. Keller MC, Neale MC, Kendler KS. Association of different adverse life events with distinct patterns of depressive symptoms. *Am J Psychiatry* 2007; 164(10): 1521-9.
48. Patton GC, Coffey C, Posterino M, Carlin JB, Bowes G. Life events and early onset depression: cause or consequence? *Psychol Med* 2003; 33(7): 1203-10.
49. Aral N, Gursoy F, Dizman H. A comparison of depression in children with and without mothers. *Psychol Re* 2006; 99(2): 619-29.
50. Butcher JN, Graham JR, Williams CL, Ben-Porath YS. Development and use of the MMPI-2 content scales. 1<sup>st</sup> ed. Minneapolis: University of Minnesota press; 1990.
51. Beck AT, Ward CH, Mendelson M, Mock J, Erbaugh J. An inventory for measuring depression. *Arch Gen Psychiatry* 1961; 4(6): 561-71.
52. American Psychiatric Association Diagnostic and Statistical Manual of mental disorders—Text Revision (4th ed.). Washington, DC: APA; 2000.
53. Beck AT. Beck depression inventory. San Antonio, TX: The Psychological Corporation (Manual); 1978.
54. Beck AT, Steer RA. Beck depression inventory. San Antonio, TX: The Psychological Corporation (Manual); 1993.
55. Butcher JN, Williams CL. Essentials of MMPI-2 and MMPI-A interpretation. 2<sup>nd</sup> ed. Minneapolis: University of Minnesota press; 2000.
56. Marie SM. [A study of correlation between Beck's depression inventory and global scale and subscales of depression in MMPI-2.] [Dissertation]. Tehran University 1999. Persian.
57. Raghibi M. [A study of using MMPI for detecting personality features of non-clinical subjects.] [Dissertation]. Shiraz University; 1981. Persian
58. Talimi A. [Psychological profile of 18-50 years old patients attending Boo Ali hospital from September 2008 to June 2009 using short form of MMPI.] [Dissertation]. Islamic Azad University of Tehran Medical Branch; 2009. Persian
59. Tavakoli AH. [Survey of prevalence of various personality features among high school students of Kahrizak and Bagher Abad using MMPI.] [Dissertation]. Tehran University of Medical Sciences; 1998. Persian.
60. Nezami E, Bernous B, Ghassemi MA. A bilingual study of Farsi translation of the MMPI-2. Paper presented at the International Association of Applied Psychology. San Francisco, CA. 1998. In: Cuellar I, Paniagua FA. *Handbook of*

- Multicultural Mental Health. San Diego, California: Academic Press; 2000.
61. Butcher JN, Williams CL. Personality Assessment with the MMPI-2: Historical Roots, International Adaptations, and Current Challenges. *Applied Psychology: Health and Well-Being* 2009; 1(1): 105–35.
  62. Lykke J, Hesse M, Austin SF, Oestrich I. Validity of the BPRS, the BDI and the BAI in dual diagnosis patients. *Addict Behav* 2008; 33(2): 292-300.
  63. Fathi Ashtiani, A. [Self-image, self-esteem, anxiety and depression among brilliant adolescents and adolescents with normal IQ.] [Dissertation]. Tarbiat Modares University; 1995. Persian.
  64. Ali Pour A. [Relationship between mood and immune system function.] [Dissertation]. Tarbiat Modares University; 1999. Persian
  65. Ellman CS, Grand S, Silvan M, Ellman, Steven J. The modern Freudians: Contemporary psychoanalytic technique. 1<sup>st</sup> ed. Northvale: Jason Aronson Inc; 1998.
  66. Ursano RJ, Norwood AE. Brief psychotherapy. In: Sadock BJ, Sadock VA, editors. *Kaplan and Sadock's Comprehensive textbook of psychiatry*. New York: Lippincott Williams and Wilkins; 2000.
  67. Della Selva PC. Intensive short-term dynamic psychotherapy: Theory and technique. Chichester: John Wiley and Sons; 1996.
  68. Ravindran L, Kennedy SH. Are antidepressants as effective as claimed? Yes, but. *Can J Psychiatry*. 2007; 52(2): 98-9.
  69. Haas E, Hill RD, Lambert MJ, Morrell B. Do early responders to psychotherapy maintain treatment gains? *J Clin Psychol* 2002; 58(9): 1157-72.
  70. Van H, Schoevers RA, Peen J, Dekker J. Does early response predict outcome in psychotherapy and combined therapy for major depression? *J Affect Disord* 2008; 105(1-3): 261-5.
  71. Busch FN, Rudden M, Shapiro T. Mood disorders: Psychodynamic treatment of depression. 1<sup>st</sup> ed. American Psychiatric Publishing; 2004.
  72. Teixeira MA. Psychoanalytic theory and therapy in the treatment of manic-depressive disorders. *Psychoanalytic Psychotherapy*, 1992; 11(1): 81-95.
  73. Bowlby J. Attachment and loss. 1<sup>st</sup> ed. New York: Basic Books; 1980.
  74. Bifulco A, Kwon J, Jacobs C, Moran PM, Bunn A, Beer N. Adult attachment style as mediator between childhood neglect/abuse and adult depression and anxiety. *Soc Psychiatry Psychiatr Epidemiol* 2006; 41(10): 796-805.
  75. Klerman G, Weissman MM, Rounsaville B, Chevron E. Interpersonal psychotherapy of depression. 1<sup>st</sup> ed. New York: Basic Books; 1983.
  76. Klerman G, Weissman MM. New applications in interpersonal psychotherapy. 1<sup>st</sup> ed. Washington: American Psychiatric Press; 1993.
  77. Longmore RJ, Worrell M. Do we need to challenge thoughts in cognitive behavior therapy?. *Clin Psychol Rev* 2007; 27(2): 173-87.
  78. Hofmann SG. Common misconceptions about cognitive mediation of treatment change: A commentary to Longmore and Worrell (2007). *Clin Psychol Rev*. 2008; 28(1): 67-70.
  79. Lewinsohn PM, Youngren MA, Grosscup SJ. Reinforcement and depression. In: Dupue RA, editor. *The psychobiology of depressive disorders: Implications for the effects of stress*. New York: Academic Press; 1979. Vol. 1<sup>st</sup>. p. 291-316.