

Citation: Najavits LM, Weiss RD. Variations in therapist effectiveness in the treatment of patients with substance use disorders: An empirical review. *Addiction* 1994; volume 89, pages 679-688.

VARIATIONS IN THERAPIST EFFECTIVENESS
IN THE TREATMENT OF PATIENTS
WITH SUBSTANCE USE DISORDERS:
AN EMPIRICAL REVIEW

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Supported by Grant DA-05944 and Grant DA-07693 from the National Institute on Drug Abuse

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Abstract

Despite the widespread use of psychotherapy for patients with substance use disorders, the effectiveness of psychotherapists conducting such treatment has received little research attention. In this paper, empirical studies of therapists' differences in patient outcome and dropout rates are comprehensively reviewed. The main conclusions are that therapists show diverse rates of effectiveness, and that such differences appear independent of both therapists' professional background and of patient factors at the start of therapy. The primary therapist characteristic thus far associated with higher effectiveness is the possession of strong interpersonal skills. Guidelines for research on therapist effectiveness are presented.

Key words

Substance Use Disorders
Treatment
Psychotherapists
Counselors
Effectiveness

Psychotherapy and counseling are generally recognized as effective treatment for patients with substance use disorders (1, 2). Indeed, 97% to 99% of drug and alcohol treatment programs offer some form of psychotherapy or counseling (3, 4). Nevertheless, the role of the therapist in the treatment of substance use disorders has received little research attention (5-11). According to Imhof et al. (6, 7), "all major [treatment] reviews consistently omit the role of the therapist"(6)(p.492), focusing almost exclusively on differences in treatment techniques or patient variables. However, several authors have suggested that the therapist may be one of the most important factors in effective psychotherapy for patients with substance use disorders (7, 8, 12). In the general literature on psychotherapy research, therapists have shown wide-ranging differences in effectiveness (13-15) and patient outcome has been found more highly related to therapists' skill than to their theoretical orientation (13, 16).

Differences among therapists who treat substance use disorder patients may be even greater than among therapists in general. Cartwright (5) has observed that variations are typically greater among therapists who work with more difficult patient populations; patients with substance use disorders, on the whole, have greater difficulty than many other patients in life functioning (in areas such as family, employment, legal, housing, and health problems associated with addiction). Substance use disorder patients are also considered more difficult in the therapy setting than other patients due to their sometimes extreme emotional reactions (which may be associated with drug effects, withdrawal or recovery from psychoactive substances), high rates of comorbid psychiatric diagnoses, (17), and the difficulty of engaging them in effective treatment until abstinence is achieved (18). The typical lack of specific training for many therapists treating such patients (19), and the notoriously high dropout and relapse rates of such patients (20, 21) also suggest that therapists treating them may be particularly prone to variable rates of effectiveness.

Existing studies on psychotherapy for substance use disorders have typically studied the therapist, if at all, in two predominant ways. One is the comparison of "types" of therapists (e.g., paraprofessional versus professional, recovering versus non-recovering) (22). After over 50 studies of this sort, however, no significant differences among such categories of therapists have been found (22). The other major attempt to study therapists has been based on adherence ratings, in which therapists' conformity to manual-based treatments is assessed (8). However, adherence ratings are mainly used for research studies to standardize therapist performance, rather than to study therapists as they typically perform in clinical settings (23).

The purpose of this paper is to comprehensively review studies in the substance abuse literature on the effectiveness of therapists who are ostensibly similar (in training, experience, theoretical orientation, clinical setting, etc.). Greater knowledge of the naturalistic variability in therapist performance may be helpful in several ways. Clinical settings, for example, generally do not monitor the effectiveness of therapists. Yet increased attention to therapist performance could help raise the standard of care by identifying therapists for hiring or targeting therapists who may need additional training (24, 25). For research purposes, accurate knowledge of therapist factors can increase the validity of psychotherapy process and outcome studies (23, 26, 27) and can enhance theoretical attempts to understand successful treatment.

Four questions will be addressed:

- 1) How much do therapists vary in effectiveness when treating patients with substance use disorders?
- 2) What characteristics are related to therapist effectiveness (e.g., personality variables, sociodemographic characteristics, in-session behavior)?
- 3) How should research studies best be designed to study therapist effectiveness?
- 4) What therapist characteristics are hypothesized to increase effectiveness with substance abuse patients?

"Therapist effectiveness" will be defined as the amount of patient improvement that can be attributed solely to the therapist, rather than to patient characteristics, type of treatment, or other influences (28). Clearly, these factors can be difficult to tease apart, and a full understanding of patient outcome must take into account all contributing aspects as well as their complex interaction. In this paper, however, we will pursue only that portion of the literature that addresses the therapist's impact on patient improvement. Two aspects of therapist effectiveness will be reviewed: effectiveness based on patient outcome ratings (symptomatic improvement from pre- to post-treatment) and patient dropout rate (premature termination of treatment). Both of these indices have been found to differentiate therapists in previous studies (28). Studies will be included in this review if they report data for each therapist in the study (rather than, as in most psychotherapy studies, simply averaging across all therapists) (13). Also, works will be limited to English-language studies of individual, adult psychotherapeutic treatment with patients whose primary diagnosis is a major psychoactive substance use disorder. Theoretical works will be included to highlight issues but will not be reviewed comprehensively.

I. How much do therapists vary in effectiveness when treating patients with substance use disorders?

Differences in outcome. We located three studies that reported outcome differences among therapists treating patients with substance use disorders; all three showed substantial variability in therapist performance. Miller et al. (29) studied nine paraprofessional therapists conducting short-term behavioral treatment with alcoholics. The outcome measure was patients' drinking at seven months. When outcome results for all patients within each therapist's caseload were averaged, the least effective therapist showed only a 25% rate of successful patient outcomes while the most effective therapist had a rate of 100%. Luborsky et al. (8) evaluated nine therapists in a study of three different forms of psychotherapy for opiate addicts in methadone maintenance treatment. There were significant differences between therapists on each of seven outcome measures, with therapists' average effect size for the patients in their caseloads ranging from .13 (the least effective therapist) to .74 (the most effective therapist). A later study by McLellan et al. (22) examined five counselors who had treated patients in a methadone maintenance program. One counselor was found to be significantly worse than the others, whereas another counselor was significantly better (based on five patient outcome measures). They concluded that "Some [counselors] promote rapid and sustained change in their caseloads and others actually detract from the effectiveness of the other components of treatment" (p. 430).

In the latter two studies (8, 22), the authors determined that patient factors at the start of treatment could not account for outcome differences reported among therapists. For example, Luborsky et al. (8) found that only four of 22 baseline patient variables differed across counselors, and deemed these differences insufficient to explain therapists' results. In the study by McLellan et al. (22), therapist caseloads were equivalent at baseline, including such characteristics as history and severity of substance use, prior treatment, number of arrests, and sociodemographic characteristics.

In all three of the reported studies, therapists were relatively homogeneous in professional background characteristics (to the extent that they were described). Thus, differences in outcome for therapists did not appear related to therapist training (8, 29), experience (22, 29), or theoretical orientation (8, 29). It is important to emphasize, however, that given the limited number and quality of studies in this area, such a conclusion must be verified by future research.

Differences in dropout rate. The phenomenon of a patient dropping out of treatment prematurely is a common occurrence in psychotherapy in general, and is even more prevalent in drug and alcohol treatment programs (30). We located four studies that reported on dropout rates for therapists working with substance use disorder populations. Similar to the outcome studies above, all four of these reports showed wide-ranging therapist differences, an absence of baseline patient variables that could account for the differential therapist effects observed, and relatively homogeneous therapist professional backgrounds.

Two early studies of this type were conducted at Boston City Hospital, one on inpatients and the other on outpatients. Raynes and Patch (31) found that inpatients with substance use disorders were more likely to leave treatment prematurely (either against medical advice, AMA, or without leave, AWOL), than other diagnostic groups. Moreover, AWOL rates among eight psychiatric residents studied during a one-year period ranged from 0% to 40% per resident. Two residents in particular had significantly more AWOL patients than the others. Patient sociodemographic characteristics were not related to AMA or AWOL status. The authors concluded that, "The resident appears to have a direct influence on this type of discharge, communicating his wish for noninvolvement with the patient, probably due to attitudes and countertransference problems" (p. 478). Rosenberg et al. (32) evaluated 16 alcohol counselors at Boston City Hospital, also during a one-year period. They found that counselors' average patient attendance rates ranged from 27% to 67% during 18 weeks of treatment. As early as nine weeks into treatment, a significant difference in dropout rate could be found among counselors. Neither patient variables nor completion of a one-year training program by the counselor affected retention rate.

Kleinman et al. (33) studied therapists' rates of retaining cocaine-addicted patients in treatment for four or more sessions. They found rates ranging from 14% to 81% among seven therapists. Indeed, therapist assignment was found to be the strongest predictor of early dropout from treatment; no patient characteristic (ethnicity, age, number of arrests, education, global SCL-90 score, severity of marijuana or cocaine use) was a significant predictor. All therapists used manually guided treatments, and conducted either family therapy or supportive-expressive therapy. Finally, McCaul and Svikis (24) found that successful patient discharge status among seven therapists at an outpatient drug clinic ranged from 17% to 54% during one year under study.

Summary and critique of outcome and dropout studies

All seven studies reported above document widely ranging rates of therapist effectiveness. In the four studies that assessed patient characteristics at baseline, these did not account for the differences found among therapists. Moreover, varying rates of effectiveness were found despite the use of therapists who appeared relatively homogeneous within studies (in training, theoretical orientation, experience, and clinical setting). These studies are notable for their use of multidimensional assessments of both therapists and patients, and their diversity of therapists and settings: inpatient (31) and outpatient (24); paraprofessionals (29) and professionals (8); novices (31) and experienced therapists (22); behavioral therapists (29), supportive-expressive and family therapists (33) and substance abuse counselors (22, 32).

Nonetheless, the studies have numerous methodological limitations that render their findings suggestive but not yet conclusive. For example, all of the studies except one (32) were retrospective rather than prospective. Assignment of patients to therapists was not random by design in any study, and the number of cases assigned to each therapist often varied or sometimes was not reported. In addition, most of the studies provided only limited descriptions of the therapists, therapist sample sizes were generally quite small, and most studies used either trainees or paraprofessional therapists. No study has yet reported on therapist effectiveness using both outcome and dropout rates. It is also quite difficult to disentangle treatment modality effects from therapist effects (8, 23, 26) since most studies did not employ manualized treatments nor measure adherence to a particular model. Crits-Christoph et al. (23) have pointed out the importance of these steps in minimizing differences among therapists.

How do results regarding therapists' contribution to outcome and retention within the substance use disorder literature compare with the general psychotherapy field? Overall, they are highly consistent in several respects. First, the general psychotherapy field, while slightly more advanced in this area, also neglected the topic of individual therapist differences until relatively recently. Luborsky et al. (13) observed that among over 500 psychotherapy outcome studies published prior to 1986, virtually none analyzed the therapist as an independent factor; the myth of the "uniformity of therapists" (34) was prominent in that area as well. Second, once the topic was addressed, substantial differences among therapists' effects were found (8, 13, 28). (See Lambert (15) for a review.) In the most thorough metaanalysis available on this topic, Crits-Christoph (35) found an average effect size in the "moderate" range for therapists across 15 psychotherapy outcome studies, with results for particular studies ranging from no differences among therapists up to 48.7% of the outcome variance accounted for by therapists. Whether therapist professional characteristics contributed to such therapist differences is unclear, however. Both Luborsky (13) and Crits-Christoph (35) found that the therapist contribution was greater than that of theoretical orientation. Crits-Christoph et al. (35) found that experience level related to outcome only for less experienced therapists.

Do therapists of patients with substance use disorders show wider divergence than other therapists? It is too premature to answer this question, given the paucity of outcome studies and the need to compare results for therapists in comparable ways across studies. (Therapist outcome results are variously reported, for example, as per cent improved, per cent worsened, average mean on outcome measures with caseloads, and average effect sizes.)

However, Luborsky et al. (13) did provide a direct comparison of therapist effects in four outcome studies, of which one, the VA-Penn Study, targeted substance use disorder patients; the other three studies sampled heterogeneous outpatients. It was found that the VA-Penn Study had the second highest rate of outcome variance accounted for by therapists (summarized in Lambert (15)). With regard to retention rates, however, we know of no comparison between therapists in the substance use disorder field and other therapists.

II. What characteristics are related to therapist effectiveness?

Since therapists appear to show substantial differences in effectiveness, a natural question is **why**. In this section, we will review studies that have empirically linked therapist characteristics to effectiveness. The studies are divided into two sections below: first, studies that show therapists' behavior during treatment; and second, studies that evaluate pre-existing therapist characteristics (e.g., personality, sociodemographic data). Using the model of therapist variables described by Beutler et al. (36), the former might be called "therapy-specific" and the latter "extratherapy" characteristics.

Therapy-specific characteristics. The most frequently studied therapist characteristic found to be associated with therapists' effects has been in-session interpersonal functioning. In the study by Miller et al. (29) reviewed above, "accurate empathy" on the Truax Scale (rated by therapists' colleagues) was found to account for 67% of the therapists' outcome results. Therapists' experience level was not related to either empathy or outcome. Similarly, Luborsky et al. (8) (also described above) found that the development of a "helping alliance" was correlated with outcome. In one of the most rigorous studies of this topic, Valle (11) found a strong positive association between the interpersonal functioning of eight alcohol counselors and their patients' abstinence from drinking 6 to 24 months after treatment. Interpersonal functioning referred to "empathy, genuineness, respect, and concreteness" based on counselors' written responses to stimulus statements (a method previously validated). Valle observed that the counselors ranged widely on interpersonal functioning, reinforcing the finding in the previous section of this review that ostensibly similar, experienced therapists may vary considerably in performance. This study was notable for a high sample size (247 patients) and random assignment of patients to counselors.

Another domain of interest has been negative affects conveyed by therapists. Milmoie et al. (37) determined, on the basis of audiotape ratings, that the level of anger and anxiety in doctors' voices (n=9) during an initial interview was inversely proportional to the likelihood that patients would follow through on alcoholism treatment.

Finally, in the study by Luborsky et al. (8) described above, outcome was associated with therapists' "purity" of techniques (the degree to which therapists conformed to a treatment manual and only to that treatment manual). Purity was related to better outcome across all therapists in the study and within therapist caseloads, highlighting the interaction that can occur between the therapist and the treatment techniques the therapist uses.

Extra-therapy characteristics. Only a few studies exist on this topic, and they use such different measures that it is difficult to draw even preliminary conclusions. In the study by Rosenberg et al. (32) described above, therapists completed a battery of three personality measures prior to the study and

provided sociodemographic data. They found that counselors with higher patient retention rates were female, older, and more introverted on the Eysenck Personality Inventory. Snowden and Cotler (38) studied 25 recovering counselors on the staff of an urban drug counseling center. Counselors participated in an extensive battery of five measures, including the MMPI; their effectiveness was measured by three patient outcomes-- missed medications, random urine screen results, and attendance at counseling. They found unusual results on the MMPI: the best counselors were more hypochondriacal, paranoid, manic, and were lower in ego strength. The authors concluded that, "It can be inferred from the present study that certain factors, usually regarded as non-adjustive or even pathological, may include characteristics which are adaptive and promote success in counseling heroin addicts" (p. 336). The more effective counselors were also lower on the "can't say" scale of the MMPI (suggesting non-defensiveness). No other measures were significant.

Thrower and Tyler (39) studied the counseling staff at five addiction treatment centers (all recovering paraprofessionals). Peers and supervisors of the counselors provided effectiveness ratings. The authors found that therapists who appeared more "dominant" and less "deferential" on the Edwards Personal Preference Schedule (EPPS) were more effective. Other significant results in this study were a positive association between effectiveness and EPPS subscale "heterosexuality" and a negative correlation with the subscale "order".

Summary and critique of studies of therapist characteristics

Research on therapist characteristics in relation to effectiveness is, at this stage, quite limited. The only consistent finding has been that therapists' in-session interpersonal functioning is positively associated with greater effectiveness (8, 11, 29). This finding mirrors results for the general psychotherapy literature, in which therapists' individual outcome and retention rates have been found related to their capacity to establish an alliance (8, 28), as well as to other facets of interpersonal functioning such as their warmth and friendliness, affirmation and understanding, helping and protecting, and an absence of belittling and blaming (28). All other results reviewed above were unique to a particular study and require further validation: negative affects conveyed by therapists' voice (37), conformity to a treatment manual (8), sociodemographic characteristics (32), and personality characteristics (32, 38, 39). Indeed, the number of results that were not significant across these studies far outnumbers those that were significant. It is also difficult to make comparisons with the general psychotherapy literature for these other variables due to the scant findings. However, Crits-Christoph et al. (35) found that use of a treatment manual was associated with less of an effect size for therapists (that is, less divergence among their results) in their metaanalysis of 15 outcome studies. This complements the finding of Luborsky et al. (8) that better outcomes were associated with the use of a treatment manual, and suggests that use of manualized treatment can lead to both better outcomes and less divergence among therapists. There are few in-depth process studies in the general psychotherapy field related to individual therapist effects, and all use different measures than the few substance use disorder studies. (See, for example, Lafferty et al. (14) and Najavits and Strupp (28)).

Studies of therapy-specific characteristics have been somewhat more rigorous than studies of extra-therapy characteristics in that they have used measures specifically designed to assess therapist qualities: e.g., the Truax

Scale (29), helping alliance and conformity to a treatment manual (8), and interpersonal functioning scores (11). Studies of extra-therapy characteristics typically used personality scales with no previously validated relevance to therapists, no theoretically grounded rationale, and no a priori hypotheses (32, 38, 39). One exception was the use of the Marcus Alcoholism Questionnaire (32), a previously validated scale to assess treaters' attitudes towards alcoholics. It is likely that as greater attention is directed to therapist effects in outcome and dropout studies, more refined assessment of therapist characteristics may occur.

Studying the therapist: Guidelines for research

It is clear from the studies reviewed above that the unique qualities of therapists may influence treatment outcome in patients with substance use disorders. Further delineation of those characteristics that are most helpful in working with this group of patients is needed, and may represent an opportunity to help improve treatment outcome in this population. Adequate study of therapist factors must include, however, rigorous research design as well as a careful selection of variables of study. Guidelines are suggested in these two domains.

Designing a study: methodological issues. In designing a psychotherapy study of substance abusers, it is highly recommended to test for therapist effects even if the main question of interest is not therapist differences. Studies that do not do so can lead to erroneous conclusions about the efficacy of treatments (23, 26). As many therapists as possible should be included to maximize statistical power to detect inter-therapist differences. A wide a range of therapists from the community is also desirable; many studies sample only highly motivated, well-trained therapists, producing a skewed sample and restriction of range. An alternative is to minimize therapist performance differences via training, adherence measurement, supervision, and careful selection of therapists (23), although this would not allow the study of therapists, but only of treatment types. The therapists should also be as homogeneous as possible in professional background characteristics (for example, theoretical orientation, training, and experience) unless those variables are of major interest and enough therapists of the different types can be included to assess between-group differences. Therapists should be described in detail (40); in some studies reviewed above, even the most basic information is lacking, such as years experience and training. If the primary goal of a research project is the study of therapist differences, patient samples should be relatively homogeneous (e.g., diagnosis, severity), and assignment of therapists to cases should be randomized. Lambert (15) also suggests that a useful design for studying therapists would be to select therapists who have a reputation for excellence, and to compare them with an unselected group of therapists. Whether or not therapists are the main object of study, one should evaluate therapist caseloads at pre-treatment for possible differences in the patient samples assigned to them, particularly if the study is not randomized. Otherwise, outcome differences may be based on an initial bias in assignment of cases. Most of the studies in section I above conducted such an analysis. Therapist differences will also be most visible when patients are difficult (5) and in the early phase of the patients' treatment (9) since most dropouts and relapses occur early.

A few statistical caveats are also advised. According to Martindale (41) Crits-Christoph et al. (23), the therapist has mistakenly been treated as a fixed rather than random factor in most outcome studies. They recommend that the

therapist should be tested as a random factor (which changes the significance testing and degrees of freedom), so that results about therapists can be validly generalized to other populations of therapists. Murphy (42) adds that therapists should be a random factor nested within treatments, using a hierarchical design. The consistency of therapist results within caseloads should also be assessed, although no study reviewed above addressed this issue. That is, while seeking a summary score of effect for each therapist, the range of therapist's results within caseloads is also important (comparable to obtaining the standard deviation in addition to the mean). A therapist may have several good cases mixed with several poor ones to attain a moderate total score; or the same moderate score could be obtained by the therapist consistently having only moderate results-- two quite different scenarios with potentially different training and supervision implications. The consistency of therapists can also be tested using the intraclass correlation, a statistic commonly used to evaluate reliability (43). Finally, if particular patient variables are different at pre-treatment among therapist caseloads (as discussed above), it may help to statistically control for those variables. One should also control for the number of sessions patients attended (42).

Designing a study: therapist variables to consider. Following our definition of therapist effectiveness (observable improvement or deterioration in the patient which can be attributed to the therapist), the evaluation of therapists' effects could include any outcome measure believed to reflect change in the patient. In the studies reviewed above, effectiveness variables included changes in symptoms on paper-and-pencil measures (e.g., SCL-90, MMPI), behavioral indices such as urine screens, medication compliance, rehospitalization, length of stay in treatment (or, conversely, dropout rate), substance abuse relapse, AMA/AWOL discharges, and negative outcomes (cases that show deterioration during treatment). Other variables believed related to effectiveness include competence (a minimum standard on some test, such as a state licensing exam), experience (number of years in practice), expertise (a therapist's reputation as an expert), and consumer satisfaction (the degree to which the patient reports satisfaction with the therapist) (44).

The study of process variables-- what therapists do during treatment that relates to their ultimate effectiveness-- has received relatively little attention for substance use disorder populations. In the general psychotherapy literature, a few process variables have been found related to individual therapist effects, and may be a guide for research within the substance use disorder field. Variables associated with more effective therapists include empathy, supportiveness, valuing of intellectual goals (14), warmth, affirmation and understanding, helping and protecting (28), effort, support of patients' autonomy, and effective use of resources outside of therapy (45). Less effective therapists are associated with variables such as valuing comfort and stimulation (14), depression, withdrawal, feeling overwhelmed (45), and negative ways of relating to patients, such as watching and managing, belittling and blaming, ignoring and neglecting, and attacking and rejecting (28). Also, an intriguing set of findings indicates that less effective therapists provided more positive self-ratings than more effective therapists (on supportiveness, the involvement of patients in treatment (14) and ratings of the quality of sessions) (28). Other process variables studied thus far in relation to individual therapist effects include skill ratings (ratings of the quality of the therapist's interventions, such as how carefully interpretations are made),

adherence (the degree to which the therapist conforms to a particular treatment manual), and purity of orientation (how much a therapist performs only a specified treatment and not others). Broadly, one might categorize six basic domains for studying therapist process variables: knowledge (of techniques, substance abuse, etc.); emotional attitudes (liking of patients, interest in helping); general personality style (extravert/introvert, humorous/serious); relational style during treatment (degree of alliance, use of support, confrontation); sociodemographics (years of experience, training, sex, age), and job characteristics (salary, job satisfaction, perceived power and responsibility) (46). Most of these have not yet been studied in relation to individual therapist effects.

Some writers have suggested that therapists working with substance use disorder patients may require a set of traits uniquely necessary for this population (12, 39). The therapist must be more active than with other patients (12, 47); more able to tolerate anger and to control one's own anger (6); less rigid (48); more patient and more insistent on imposing values such as AA (18); more charismatic, emotional and inspiring (12, 49); and more conscious of averting power struggles (50, 51). The appropriate use of confrontation is also emphasized due to the high degree of denial characteristic of substance dependent patients (49, 50). The therapist should enjoy working with addicts (52), be able to handle issues associated with addiction such as poverty, AIDS, and Axis II disorders (25), and be resistant to burn-out (24). It is also hypothesized that with substance use disorder populations, negative countertransference may be more easily triggered than with other patients, although we are aware of no data on this topic as yet. Negative countertransference toward substance dependent patients would include viewing them as outcasts, manipulative, or deserving special indulgence due to their sometimes severe psychosocial histories (6). Signs of negative countertransference include indifference to the patient's complaints, cynicism, assuming the patient to be a liar, hostility, a wish to control the patient, "slippage" in ground rules of treatment, such as the therapist's chronic lateness, missed sessions, or laxity in enforcing limits, boredom, oversolicitousness, premature ending of treatment, withdrawal or burnout, and intense or unstable feelings about the patient (6, 50, 53).

In summary, research on therapist effects with substance use disorder patients is at an early stage of development. The development of more rigorous studies and new measures of therapists' process variables will be needed to more accurately gauge and understand therapists' impact on this patient population.

References

1. Pickens, R., Fletcher, B. (1991) Overview of treatment issues, *National Institute on Drug Abuse Research Monograph*, 106, pp 1-19.
2. Tims, F., Fletcher, B., Hubbard, R. (1991) Treatment outcomes for drug abuse clients, *National Institute on Drug Abuse Research Monograph*, 106, pp 93-113.
3. Onken, L. (1991) Using psychotherapy effectively in drug abuse treatment, *National Institute on Drug Abuse Research Monograph*, 106, pp 267-278.
4. London, P. (1990) Research priorities for psychotherapy and counseling in the treatment of drug abuse: The psychotherapy research perspective, *National Institute on Drug Abuse Research Monograph*, 104, pp 121-127.
5. Cartwright, A. (1981) Are different therapeutic perspectives important in the treatment of alcoholism?, *British Journal of Addiction*, 76, pp 347-361.
6. Imhof, J., Hirsch, R., Terenzi, R. (1983) Countertransference and attitudinal considerations in the treatment of drug abuse and addiction, *International Journal of Addiction*, 18, pp 491-510.
7. Imhof, J. (1991) Countertransference issues in alcoholism and drug addiction, *Psychiatric Annals*, 21, pp 292-306.
8. Luborsky, L., McLellan, A. T., Woody, G., O'Brien, C. (1985) Therapist success and its determinants, *Archives of General Psychiatry*, 42, pp 602-611.
9. Miller, W. (1985) Motivation for treatment: A review with special emphasis on alcoholism, *Psychological Bulletin*, 98, pp 84-107.
10. Onken, L., Blaine, J. (1990) Psychotherapy and counseling research in drug abuse treatment: Questions, problems, solutions, *National Institute on Drug Abuse Research Monograph*, 104, pp 1-8.
11. Valle, S. (1981) Interpersonal functioning of alcoholism counselors and treatment outcome, *Journal of Studies on Alcohol*, 42, pp 783-790.
12. Flores, P. (1988). *Group Psychotherapy with Addicted Populations*. (New York, Haworth).
13. Luborsky, L., Crits-Christoph, P., McLellan, A., et al. (1986) Do therapists vary much in their success? Findings from four outcome studies, *American Journal of Orthopsychiatry*, 56, pp 501-512.
14. Lafferty, P., Beutler, L., Crago, M. (1989) Differences between more and less effective psychotherapists: A study of select therapist variables, *Journal of Consulting and Clinical Psychology*, 57, pp 76-80.

15. Lambert, M. (1989) The individual therapist's contribution to psychotherapy process and outcome, *Clinical Psychology Review*, 9, pp 469-485.
16. Fiedler, F. (1951) Factor analyses of psychoanalytic, non-directive, and Adlerian therapeutic relationships, *Journal of Consulting Psychology*, 15, pp 32-38.
17. Mirin, S. M., Weiss, R. D. (1991) Substance abuse and mental illness. In: R. J. Frances, S. I. Miller (Ed.) *Clinical textbook of addictive disorders*. (New York, Guilford).
18. Kaufman, E., Reoux, J. (1988) Guidelines for the successful psychotherapy of substance abusers, *American Journal of Drug and Alcohol Abuse*, 14, pp 199-209.
19. Levy, M. (1987) A change in orientation: Therapeutic strategies for the treatment of alcoholism, *Psychotherapy: Theory, Research and Practice*, 1987, pp 786-793.
20. Craig, R. (1985) Reducing the treatment drop out rate in drug abuse programs, *Journal of Substance Abuse Treatment*, 2, pp 209-219.
21. Carroll, K., Rounsaville, B., Keller, D. (1991) Relapse prevention strategies for the treatment of cocaine abuse, *American Journal of Drug and Alcohol Abuse*, 17, pp 249-265.
22. McLellan, A., Woody, G., Luborsky, L., Goehl, L. (1988) Is the counselor an "active ingredient" in substance abuse rehabilitation? An examination of treatment success among four counselors, *Journal of Nervous and Mental Disease*, 176, pp 423-430.
23. Crits-Christoph, P., Beebe, K., Connolly, M. (1990) Therapist effects in the treatment of drug dependence: Implications for conducting comparative treatment studies, *National Institute on Drug Abuse Research Monograph*, 104, pp 39-49.
24. McCaul, M., Svikis, D. (1991) Improving client compliance in outpatient treatment: Counselor-targeted interventions, *National Institute on Drug Abuse Research Monograph*, 106, pp 204-217.
25. Gustafson, J. (1991) Do more...and do it better: Staff-related issues in the drug treatment field that affect the quality and effectiveness of services, *National Institute on Drug Abuse Research Monograph*, 106, pp 53-62.
26. Crits-Christoph, P., Mintz, J. (1991) Implications of therapist effects for the design and analysis of comparative studies of psychotherapies, *Journal of Consulting and Clinical Psychology*, 59, pp 20-26.
27. Nathan, P., Lansky, D. (1978) Common methodological problems in research on the addictions, *Journal of Consulting and Clinical Psychology*, 46, pp 713-726.
28. Najavits, L., Strupp, H. (1994) How do psychodynamic therapists differ in their effectiveness with patients? A process-outcome study, *Psychotherapy*, In press.
29. Miller, W., Taylor, C., West, J. (1980) Focused versus broad-spectrum behavior therapy for problem drinkers, *Journal of Consulting and Clinical Psychology*, 48, pp 590-601.

30. Craig, R. J. (1985) Reducing the treatment drop out rate in drug abuse programs, *Journal of Substance Abuse Treatment*, 2, pp 209-219.
31. Raynes, A., Patch, V. (1971) Distinguishing features of patients who discharge themselves from psychiatric ward, *Comprehensive Psychiatry*, 12, pp 473-479.
32. Rosenberg, C., Gerrein, J., Manohar, V., et al. (1976) Evaluation of training in alcoholism counselors, *Journal of Studies on Alcohol*, 37, pp 1236-1246.
33. Kleinman, P., Woody, G., Todd, T., et al. (1990) Crack and cocaine abusers in outpatient psychotherapy, *National Institute on Drug Abuse Research Monograph*, 104, pp 24-38.
34. Kiesler, D. (1966) Some myths of psychotherapy research and the search for a paradigm, *Psychological Bulletin*, 65, pp 110-136.
35. Crits-Christoph, P. (1991) Meta-analysis of therapist effects in psychotherapy outcome studies, *Psychotherapy research*, 1, pp 81-91.
36. Beutler, L., Crago, M., Arizmendi, T. Therapist variables in psychotherapy process and outcome. In: S. Garfield, A. Bergin, ed. *Handbook of Psychotherapy and Behavior Change*. 3rd ed. New York: Wiley, 1986: 257-309.
37. Milmoie, S., Rosenthal, R., Blane, H., et al. (1967) The doctor's voice: Postdictor of successful referral of alcoholic patients, *Journal of Abnormal Psychology*, 72, pp 78-84.
38. Snowden, L., Cotler, S. (1974) The effectiveness of paraprofessional ex-addict counselors in a methadone treatment program, *Psychotherapy: Theory, Research and Practice*, 4, pp 331-338.
39. Thrower, J., Tyler, J. (1986) Edwards Personal Preference Schedule correlates of addiction counselor effectiveness, *International Journal of Addiction*, 21, pp 191-193.
40. Beutler, L. (1990) Methodology: What are the design issues involved in the defined research priorities?, *National Institute on Drug Abuse Research Monograph*, 104, pp 105-120.
41. Martindale, C. (1978) The therapist-as-fixed-effect fallacy in psychotherapy research, *Journal of Consulting and Clinical Psychology*, 46, pp 1526-1530.
42. Murphy, G. (1987) Assessing therapist success (reply to Luborsky et al., 1986), *Archives of General Psychiatry*, 44, pp 195-196.
43. Shrout, P., Fleiss, J. (1979) Intraclass correlations: Uses in assessing rater reliability, *Psychological Bulletin*, 86, pp 420-428.
44. Najavits, L. M. (August, 1990) Research on therapist effectiveness: Implications for training. Paper presented at the annual meeting of the American Psychological Association (Boston, MA).

45. Ricks, D. (1974) Supershrink: Methods of a therapist judged successful on the basis of adult outcomes of adolescent patients. In: D. Ricks, A. Thomas, M. Roff (Eds). *Life History Research in Psychopathology*. vol. 3, pp.275-297 (Minneapolis, University of Minnesota).
46. Najavits, L. M. On the quality of therapists: High- vs. low-effectiveness psychodynamic therapists [Dissertation under the direction of Steven D. Hollon, PhD]. Vanderbilt University, 1990.
47. Yalisove, D. (1989) Psychoanalytic approaches to alcoholism and addiction: Treatment and research, *Psychology of Addictive Behaviors*, 3, pp 107-113.
48. Khantzian, E. (1985) Psychotherapeutic interventions with substance abusers-- The clinical context, *Journal of Substance Abuse Treatment*, 2, pp 83-88.
49. Wallace, J. (1985) Working with the preferred defense structure of the recovering alcoholic. In: S. Zimberg, J. Wallace, and S. Brown (Eds.), *Practical Approaches to Alcoholism Psychotherapy* (2nd ed.) (New York, Plenum).
50. Washton, A., Stone-Washton, N. (1990) Abstinence and relapse in cocaine addicts, *Journal of Psychoactive Drugs*, 22, pp 135-147.
51. Zweben, J. (1989) Recovery-oriented psychotherapy: Patient resistances and therapist dilemmas, *Journal of Substance Abuse Treatment*, 6, pp 123-132.
52. Woody, G. E., McLellan, A. T., Luborsky, L., O'Brien, C. P. (1990) Psychotherapy and counseling for methadone-maintained opiate addicts: Results of research studies, *National Institute on Drug Abuse Research Monograph*, 104, pp 9-23.
53. Vannicelli, M. (1989) *Group psychotherapy with adult children of alcoholics: Treatment techniques and countertransference considerations*. (New York, Guilford).