

## Regular Articles

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# Characteristics of Empirically Supported Treatments

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*This study presents a survey of general characteristics of empirically supported treatments (ESTs) identified by the American Psychological Association Division 12 Task Force on the Promotion and Dissemination of Psychological Procedures. Results indicate that the ESTs share the following characteristics: they involve skill building, have a specific problem focus, incorporate continuous assessment of client progress, and involve brief treatment contact, requiring 20 or fewer sessions. Traditional assessment methods, such as intelligence testing, projectives, and objective personality tests such as the MMPI-2, are rarely used in these treatments. Although it is recognized that these findings are in part an artifact of sociological factors present in contemporary psychotherapy development and research, the findings may also serve as a heuristic aid in the development of therapies.*

(The Journal of Psychotherapy Practice and Research 2000; 9:69–74)

In 1995 the American Psychological Association Division 12 Task Force on the Promotion and Dissemination of Psychological Procedures was formed and charged with identifying psychotherapies with proven efficacy. The rationale was partly to educate those who might become involved (e.g., potential clients, third-party payors, and treatment providers) about the benefits that could be derived from psychotherapy. The task force included members with a variety of theoretical preferences in an attempt to minimize the intrusion of antecedent theoretical commitments. The committee agreed on standards for the adequacy of research evidence to warrant the positive judgment that the treatment was “empirically validated” or “empirically supported.” The 1995 task force identified 18 well-established empirically supported treatments (ESTs) and 7 probably efficacious treatments.<sup>1</sup> The 1998 task force updated this list and found 16 well-established treatments and 56 probably efficacious treatments.<sup>2</sup>

Although at each step the task force has attracted a great deal of controversy, its findings serve an important purpose because it is the first time in the history of psychotherapy that some consensus has emerged across psychologists with differing theoretical orientations re-

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garding what psychotherapies have evidential support. This list of ESTs is an interesting data set in itself. It can be examined in an attempt to identify trends or commonalities among these treatments. Modern psychotherapies range widely in their assumptions on issues such as the importance of the psychotherapeutic relationship in the change process, the exact role of assess-

ment and psychodiagnostics, the length of therapy, and the roles of skill building versus personality restructuring, among other issues. Trends in these relatively successful therapies might be useful in evaluating assumptions about the nature of effective therapy as well as a heuristic aid in the discovery of other effective therapies.

**TABLE 1. Empirically supported treatments for which data were requested (data were not received from those in bold)**

<b>Well-established treatments</b>	<b>Cue exposure adjunctive to inpatient treatment for alcohol dependence</b>
Behavior modification for developmentally disabled individuals (1995)	Project CALM for mixed alcohol abuse and dependence
Behavior therapy for erectile dysfunction (1995)	Social skills training adjunctive to inpatient treatment for alcohol dependence
Token economy programs (1995)	Brief dynamic therapy for depression
Cognitive-behavioral therapy (CBT) for panic disorder with and without agoraphobia	Cognitive therapy for geriatric patients with depression
CBT for generalized anxiety disorder	Reminiscence therapy for geriatric patients with depression
Exposure treatment for agoraphobia	Self-control therapy for depression
Exposure/guided mastery for specific phobia	Social problem-solving therapy for depression
Exposure and response prevention for obsessive-compulsive disorder (OCD)	<b>Behavior therapy for childhood obesity</b>
<b>Stress inoculation training for coping with stressors</b>	CBT for binge eating disorder
Behavior therapy for depression	<b>CBT adjunctive to physical therapy for chronic pain</b>
Cognitive therapy for depression	CBT for chronic low back pain
Interpersonal therapy for depression	Electromyographic biofeedback for chronic pain
Behavior therapy for headache	<b>Hypnosis as an adjunct to CBT for obesity</b>
CBT for bulimia	Interpersonal therapy for binge eating disorder
Multicomponent CBT for pain associated with rheumatic disease	Interpersonal therapy for bulimia
Multicomponent CBT with relapse prevention for smoking cessation	Multicomponent cognitive therapy for irritable bowel syndrome
Behavior modification for enuresis	Multicomponent CBT for pain of sickle cell disease
Parent training programs for children with oppositional behavior	<b>Multicomponent operant behavior therapy for chronic pain</b>
Behavioral marital therapy	Scheduled, reduced smoking adjunctive to multicomponent behavior therapy for smoking cessation
<b>Probably efficacious treatments</b>	Thermal biofeedback for Raynaud's syndrome
Lewinsohn's psychoeducational treatment for depression (1995)	<b>Thermal biofeedback plus autogenic relaxation training for migraine</b>
Applied relaxation for panic disorder	Emotionally focused couples therapy for moderately distressed couples
Applied relaxation for generalized anxiety disorder	<b>Insight-oriented marital therapy</b>
CBT for social phobia	Behavior modification of encopresis
Cognitive therapy for OCD	CBT for anxious children (overanxious, separation anxiety, and avoidant disorders)
Couples communication training adjunctive to exposure with agoraphobia	<b>Exposure for simple phobia</b>
Eye movement desensitization and reprocessing for civilian posttraumatic stress disorder (PTSD)	Family anxiety management training for anxiety disorders
Exposure treatment for PTSD	Hurlbert's combined treatment approach for female hypoactive sexual desire
<b>Exposure treatment for social phobia</b>	<b>Masters and Johnson's sex therapy for female orgasmic dysfunction</b>
Stress inoculation training for PTSD	<b>Zimmer's combined sex and marital therapy for female hypoactive sexual desire</b>
Relapse prevention program for OCD	Behavior modification for sex offenders
Systematic desensitization for animal phobia	Dialectical behavior therapy for borderline personality disorder
Systematic desensitization for public speaking anxiety	<b>Family intervention for schizophrenia</b>
Systematic desensitization for social anxiety	Habit-reversal and control techniques
Behavior therapy for cocaine dependence	<b>Social skills training for improving social adjustment of schizophrenic patients</b>
Brief dynamic therapy for opiate dependence	Supported employment for severely mentally ill clients
Cognitive-behavioral relapse prevention therapy for cocaine dependence	
<b>Cognitive therapy for opiate dependence</b>	
CBT for benzodiazepine withdrawal in panic disorder patients	
Community Reinforcement Approach for alcohol dependence	

## METHODS

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### Participants

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Participants in this study were authors of studies cited as supporting the inclusion of the treatment as a “well-established” empirically supported treatment or a “probable” EST in the APA Division 12 Task Force reports on empirically supported treatments.<sup>1,2</sup> For each EST, the Task Force cited either one or two articles that were used to support the conclusion regarding efficacy of the treatment. In cases where one study was cited, attempts were made to locate both the first and the second author. If this could not be done, additional authors (third, fourth, etc.) were contacted. In cases where two studies were cited, attempts were made to locate the first author of each study. If these individuals could not be located, additional authors were contacted, with the goal of contacting one author from each study. As can be seen in Table 1, a total of 76 distinct well-established and probably efficacious ESTs were identified, 4 from the 1995 Task Force report and 72 from the 1998 report. Overall, we distributed in this way 120 of the questionnaires described below.

### Procedures

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An 11-item questionnaire designed to assess various characteristics of ESTs was mailed to each participant. Specific questions can be found in Table 2. The response format for eight questions was “yes-no-other.” However, three questions (#1, #5, and #8) required respondents to give a specific quantified response. The questionnaire included a cover letter explaining the purpose of the study, instructions concerning how to complete the questionnaire, and the name of the EST. After approximately 6 weeks, if at least one response had not been received concerning a particular EST, another questionnaire was sent to the author(s).

Our goal was to obtain one completed questionnaire for each full and probable EST, although often two authors for a particular EST were sent questionnaires in order to increase the likelihood of obtaining a completed questionnaire. If two completed questionnaires were received for an EST, one questionnaire was randomly chosen and that one was used to gather data; this occurred 11 times. Questions #1, #5, and #8 required respondents to provide quantitative answers.

When these answers included a range of numbers, the median of these two numbers was the datum used in the results.

### Reliability

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Fortuitously, two sets of data were collected for a total of 11 ESTs, and interrater reliability was calculated by using percentage agreement [agreements/(agreements + disagreements)]. Interrater reliability for this data set was 76%.

When examining the reliability data further, we found that a greater number of disagreements occurred for questions #6, #8, and #11 (each of these having nearly equal numbers of agreements and disagreements). Question #6 concerned the importance of the therapeutic relationship, question #8 concerned the frequency of assessment, and question #11 concerned the importance of knowing a client's history for treatment planning. It is impossible to know exactly why more disagreements occurred for these questions, but it could be due to the ambiguity of the question, different interpretations of the question, or simple disagreements among professionals.

## RESULTS AND DISCUSSION

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Overall, the response rate was 80% (61 of 76 ESTs). Responses for questions with a “yes-no-other” format are presented in Table 2. Specific trends derived from these data indicate that ESTs, in general, share certain characteristics. For instance, responses to question #3 indicate that homework is a component of most ESTs (85%). In addition, responses to question #4 show that traditional assessment devices (e.g., the Minnesota Multiphasic Personality Inventory [MMPI] or the Rorschach test) are generally not used because they do not aid in treatment planning; 92% reported not using these devices.

Other clear trends that emerged from the data show that ESTs generally 1) focus on skill building, not insight or catharsis (#7; 85%); 2) involve continuous assessment to monitor a client's progress (#9; 77%); and 3) are problem-focused (#10; 90%).

Trends were less clear concerning three questions. First, the necessity of knowing the history of a client's presenting problem for treatment planning showed no clear trend (#11). More specifically, 54% of respondents reported that knowing a client's history was not essen-

tial for treatment planning, whereas the other 46% either indicated that knowledge of the history was important or provided an “other” response. The necessity of making a DSM-IV diagnosis for treatment planning (question #2) is also somewhat less clear because responses were more evenly divided between “yes” and “no” responses. The majority of responses obtained (61%) indicated that diagnosis was not essential for making treatment decisions, but it appears that for at least a substantial minority of ESTs (38%), a DSM-IV diagnosis is an important aspect of treatment planning. Finally, 54% of respondents indicated that the formation of the therapeutic relationship was an important mechanism of change (#6), whereas 46% responded either “no” or “other.”

Responses for question #1, concerning the total number of sessions required for the treatment, are presented in Figure 1. The vast majority of ESTs (80%) require 20 or fewer sessions. Responses of “other” to this question indicated that certain ESTs require very large amounts of time so a specific number could not be given (e.g., behavior modification for developmentally disabled individuals).

Figure 2 shows data regarding the number of hours

a client must devote to treatment both in and outside of the session per week. It was found that all ESTs require some out-of-session work, with a large percentage requiring between 2 and 5 hours per week (59%). “Other” responses to this question usually indicated that it would be difficult to calculate the actual number of hours because of large between-subject variability (as in token economy programs or interpersonal therapy for bulimia).

Responses to question #8, concerning the frequency of assessment during treatment, are summarized in Table 3. A variety of responses were given to this question. In general, though, it is evident that most ESTs involve periodic assessment throughout the treatment process. This finding contradicts the common notion among the general public that assessment is a process that occurs prior to treatment and then stops. It cannot be concluded, however, that continuous assessment is essential for positive treatment outcomes; it may be the case that continuous assessment is part of the research protocol used to evaluate many ESTs.

The response rate to the questionnaire was 80%, which leaves 20% of ESTs unaccounted for. As is always the case, it could be argued that had data been collected

TABLE 2. Questionnaire items and responses

Item	Response, <i>n</i> (%)		
	Yes	No	Other
1. Please estimate how many 1-hour sessions, on average, this therapy takes before completion (this can be a rough estimate). <sup>a</sup>			
2. Is a DSM-IV diagnosis essential for making treatment decisions?	23 (38)	37 (61)	1 (2)
3. Is homework (i.e., structured tasks for the client to complete outside of therapy sessions) an essential component of this therapy?	52 (85)	8 (13)	1 (2)
4. Are traditional assessment devices (e.g., MMPI, Rorschach) used for the purpose of treatment entry or planning?	4 (7)	56 (92)	1 (2)
5. Please estimate how many hours per week a client must devote to treatment (both in and out of session) for optimal outcome. <sup>b</sup>			
6. Is the formation of the therapeutic relationship a key process variable (i.e., one of the important mechanisms of change necessary for successful outcome) in this therapy?	33 (54)	19 (31)	9 (15)
7. Is the primary in-session activity discussion of client problems, leading to insight or catharsis, and the history of those problems (as opposed to teaching of skills)?	7 (11)	52 (85)	2 (4)
8. Estimate the frequency with which assessment (i.e., some sort of measurement beyond the unstructured clinical interview) is conducted. <sup>c</sup>			
9. Does assessment (as defined above) occur continuously throughout therapy?	47 (77)	8 (13)	6 (10)
10. Would you say that therapy is problem-focused (i.e., building skills) as opposed to focused on restructuring the client's personality?	55 (90)	2 (3)	4 (7)
11. Is knowledge of the client's history (i.e., origins of the presenting problem) essential for treatment planning or necessary for successful outcome?	19 (31)	33 (54)	7 (11)

<sup>a</sup>See Figure 1. <sup>b</sup>See Figure 2. <sup>c</sup>See Table 3.

for these particular ESTs, the results of this study might have been somewhat different. Table 1 lists in boldface the ESTs for which no data were collected. These ESTs do not appear to differ in any important way from those for which responses were obtained. For instance, the majority of these therapies are behavioral or cognitive-behavioral, and they address a number of different problems (e.g., opiate dependence, obesity, sexual dysfunction). Therefore, we conclude that the data reported here are representative of ESTs in general.

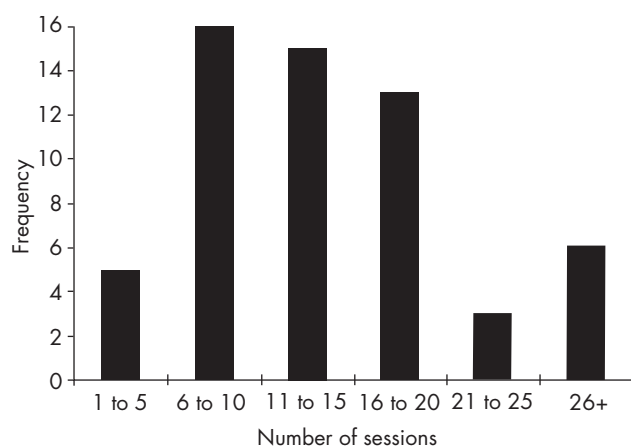
Trends could, in theory, be different for the well-established ESTs versus the probably efficacious ESTs. To test this hypothesis, data for well-established and probably efficacious ESTs were compared for each of the “yes-no-other” questions. As can be seen in Table 4, the trends discussed above for the entire data set seem

to apply equally well to the well-established ESTs and the probably efficacious ESTs. Furthermore, when data for particular questions are compared among the two sets of data, no appreciable differences emerge. Overall, the two sets of data show similar trends.

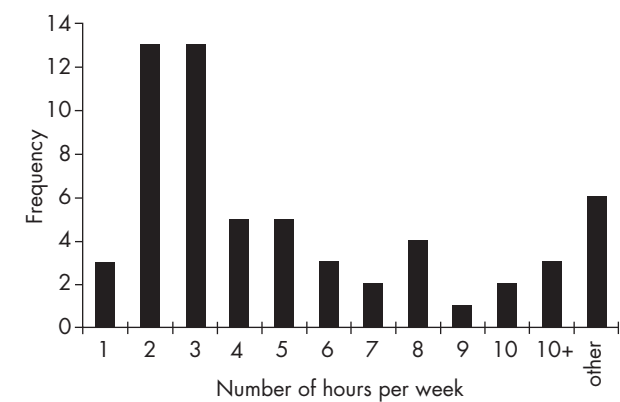
The trends found thus far in these relatively effective therapies tend to vindicate assumptions that an effective therapy is one in which the treatment is short-term; the emphasis is present- and problem-focused; skill building is stressed; the therapeutic relationship is considered to be important; homework is assigned; assessment is periodic; and traditional psychological tests such as intelligence testing, the MMPI-2, and the Rorschach are superfluous. However, there was some variation to this general pattern.

Philosophers of science have suggested that there is no logic of discovery; that is, in the context of discovery, “anything goes.”<sup>3</sup> We do not disagree with this. How-

**FIGURE 1. Total number of sessions required for empirically supported treatments (N=58).**



**FIGURE 2. Number of total hours clients must devote to therapy in and out of session per week (N=60).**



**TABLE 3. Responses to question #8 (frequency of assessment)**

Response	Frequency
Weekly	14
Every session	12
Daily	7
Ongoing	3
None	1
1-2 times	2
3-4 times	12
5-6 times	1
7-8 times	1
9+ times	2
Other	4

**TABLE 4. Data for well-established versus probably efficacious empirically supported treatments**

Question #	Percentage					
	Well-Established (n=18)			Probably Efficacious (n=43)		
	Yes	No	Other	Yes	No	Other
2	33	67	0	40	58	2
3	89	5.5	5.5	84	16	0
4	6	94	0	7	91	2
6	50	33	17	56	30	14
7	11	83	6	12	86	2
9	78	11	11	78	14	9
10	100	0	0	86	5	9
11	39	56	6	28	54	19

ever, we believe that the pattern of similarities that we have identified across therapies for a wide variety of problems (e.g., enuresis, depression, coping with stressors, bulimia, oppositional children, headache, and marital problems) is important to acknowledge because it can serve as a guide in the numerous choice points the researcher faces in therapy development.

We also want to offer one caveat. This trend may be partly an artifact of certain sociological factors that pertain to contemporary psychotherapy development and research. That is, the individuals who are meeting

the research burden indicated by the Task Force are largely cognitive and behavioral researchers who generally adhere to the trends we have identified. Moreover, contemporary evaluative methods fit better with some types of therapies than others (e.g., short-term therapies). Still, this is an interesting sociological sketch regarding this discipline at this point in time. The future will show whether those with other, radically different positions regarding the nature of effective psychotherapy can vindicate those positions in reasonably designed outcome research.

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## REFERENCES

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