Research on Unconscious Mental Functioning in Relationship to the Therapeutic Process

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Terry Waite endured 1,763 days as a hostage held in captivity in Beirut, Lebanon. When Waite first was captured, he had a dream that he was utterly unable to recall throughout his long years of imprisonment. The dream was as follows:

I am alone walking by the sea. It's dusk—I walk along the sand. The sea laps at my feet. Suddenly I am conscious of being alone. When I look up, I can no longer see land. The sea rolls in. I feel panic. I am going to be cut off. Unless I get off this beach quickly I will drown. Why can't I find my way? I see in the distance two figures coming towards me across the sand. I recognize two of my children. They take me by the hand as they would a blind man and guide me off the beach to the shelter of a familiar town. (Waite, 1993, p. 28)

of his life in solitary confinement can remember only a dream such safely returned to England and was reunited with his wife and apy Research Group, 1986). mental functioning (Weiss, Sampson, & the Mt. Zion Psychotherand Weiss, to conduct a series of studies focused on unconscious cisco Psychotherapy Research Group (formerly called the Mt. Zion of its subsequent recovery. This theory has inspired the San Franphenomena such as Waite's repression of his dream and the timing posed a theory, control-mustery theory (CMT), that helps to explain as this one once his ordeal has ended and he is returned safely to rescue. Why should it be that a man who spends more than 4 years two children that he was able to recall this dream of terror and Psychotherapy Research Group), under the leadership of Sampson the family he loves? Weiss (1993; Weiss & Sampson, 1986) has prohis recall of this dream eluded him. It was only after Waite had During all the years that Waite was held in solitary confinement

Introduction to the Higher Mental Functioning Paradigm

cally oriented psychotherapy. The unconscious mental functioning appraisals. The research we describe is concerned with fundamenchology of the unconscious mind's capacity always to be making growing appreciation in both psychoanalysis and cognitive psyprocesses that operate outside of conscious awareness. There is a to as the "higher mental functioning paradigm" (HMFP). hypotheses tested were based on what Weiss et al. (1986) referred tient who is undergoing either psychoanalysis or psychoanalytital laws governing the unconscious mental functioning of the pa-The purpose of this chapter is to describe research about mental

ate a situation of emotional or interpersonal danger. People may tent when they anticipate that experiencing the content would cresions. People typically maintain their repression of a mental conto be capable of exercising unconscious control over their represaccount of unconscious mental functioning, people are understooc lift their repressions and make the content conscious when they (1926/1964) seminal work, Inhibitions, Symptoms and Anxiety. In this The CMT of unconscious mental functioning is rooted in Freud's

> ments, anticipations, decisions, and beliefs play a central role in fering a comprehensive theory of the therapeutic process. Sampson, 1986) elaborated and expanded the HMFP, thereby of-HMFP has profound implications for how patients use treatment the unconscious regulation of defenses and in pathogenesis. The that higher mental functions, such as unconscious thoughts, judgjudge that they may experience it safely. This paradigm assumes beliefs, and their decisions and plans. CMT (Weiss, 1993; Weiss & in terms of their unconscious appraisals of safety and danger, their

psychology (Freud, 1914-1916/1953c). According to this view, much mental functioning developed before the ego psychology that unconscious mind functions. This is the theory of unconscious paradigm" (AFP), derived from Freud's early theory of how the that Weiss et al. (1986) referred to as the "automatic functioning ment when it was compared with an alternative set of hypotheses HMFP accounted for the patient's behavior in psychoanalytic treatmines behavior. According to this view, unconscious psychic forces dynamic-economic interaction of impulses and defenses, deternamic interaction of these unconscious forces, namely the charge and that are governed by the pleasure principle. The dyplay of psychic forces that are either seeking or preventing disof people's unconscious behavior can be understood as an interthe Papers on Technique (1911-1915/1953b), and the Papers on Meta-Freud presented in The Interpretation of Dreams (Freud, 1900/1953a), merely epiphenomena derived from these unconscious forces. are the basic causes of behavior, and thoughts and beliefs are The first series of studies we describe compared how well the

when each paradigm helps them to understand their patients bettent both the HMFP and the AFP and use their intuition to decide how much they rely on the AFP at one end and the HMFP on the ter. Psychoanalysts may be placed on a spectrum on the basis of Many contemporary psychoanalytic clinicians accept to some ex-

psychoanalytic case and use both the verbatim transcripts of the studies of a single patient. The data come from an audio-recorded treating analyst, who summarized the content of each session. treatment sessions and the detailed process notes made by the The research that we present involves a series of interrelated

The Case of Mrs. C

supported the idea. child guidance clinic at the time she sought treatment. During the had strongly urged her to do so, and her husband's analyst had marily because her husband, who had been in analysis for 2 years, intake interviews, the patient stated that she was seeking help pri-Eastern university and had been employed for several years at a lege. She earned a master's degree in social work from a prominent through high school, and then went to a prominent women's col-C. grew up in a comfortable suburb, attended public schools Her father, like her husband, was a successful businessman. Mrs. ing the patient's childhood, later devoted herself to civic causes Protestant New England family. Her mother, a social worker dura brother 6 years younger. She came from a highly conservative children, with a sister 2 years older, a sister 3 years younger, and years at the time she entered analysis. She was the second of four a professional woman in her late 20s, had been married for several We briefly describe Mrs. C., the patient who was studied. Mrs. C.,

Her major presenting problem was her inability to enjoy and reluctance to have sexual relations with her husband. In addition, Mrs. C. described a fear of simply being a nonentity, of existing as a maid to her husband, and of not occupying an equal position in the relationship. She also complained of feeling chronically tense, self-critical, overly anxious, and unable to relax and interact comfortably with others. At work she felt driven by a strong sense of obligation and duty. She also felt more distant from coworkers than she thought she should be.

In attempting to explain her sexual inhibitions to the intake worker, she mentioned that her family was controlled, unemotional, and unaffectionate. Mrs. C. felt she had deeply internalized her father's disapproval of sensuality. She characterized him as a stern, ascetic tyrant who rarely showed her any physical affection but who often punished her in violent outbursts of emotion.

The patient described herself to be much like her mother—efficient, overly organized, and afraid to show emotion. Like her mother, she felt unable to relax and enjoy herself. The patient expressed long-standing resentment toward her mother for not having protected her from her father's rage.

The patient remembered an incident from her childhood in which her older sister hit her in the stomach. She protested to her then-pregnant mother, who seemed uninterested. Mrs. C. reacted by punching her mother in the stomach even harder than her sister had hit her. Her mother, in a typical fashion, made no effort to defend herself or to discipline Mrs. C. Doubled over in pain, she simply went to her room to lie down. When her father came home, he had one of his characteristic anger outbursts. He beat Mrs. C. severely, making her feel that he might even want to kill her, and threw her into a closet and shut the door.

Mrs. C. believed her fear of sexual intercourse stemmed largely from an incident that occurred when she was 9 years old. She had been playing with her brother and accidentally fell on a long stick, sustaining an injury to her genital area that required stitches in the perineum. Many years later, during her first mother—daughter talk about sexuality, her mother warned her that, in addition to the danger of pregnancy, intercourse might be particularly painful because of the injury. Her mother told her that she might have been stitched up too tightly and therefore that an operation might be required before she could have intercourse. Although a doctor assured her after a premarital examination that this was not the case, the patient thought the effects of the injury were a major factor behind her fear of intercourse.

Mrs. C.'s childhood and adolescence were generally characterized as lonely years. Between the ages of 5 and 8, she knew that she had recurrent nightmares of something happening to her mother. Throughout her childhood she went to a friend's mother to confide her problems and receive affection. An early childhood memory of the patient was of using a wooden object in her play that represented a penis. Throughout childhood she wished she had a penis. During high school, Mrs. C. had one close female friend, but on the whole she considered her dates and friends to be uninteresting and inferior to those of her older sister. Mrs. C. always felt like an outsider to her family and currently lived some distance from them.

Mrs. C. had been diagnosed by the psychiatrist who referred her for analysis as a neurotic woman who was suffering from obsessive-compulsive difficulties. The analyst who treated Mrs. C. was highly experienced, was located in a distant city, and had no

process notes from this same period. are presenting made use of both the verbatim transcripts and the analyst wrote detailed process notes during the sessions. The first analysis was tape-recorded for research purposes. In addition, the conducted the analysis. With the consent of the patient, the entire knowledge of our research group's hypotheses at the time that he 100 hr of the analysis have been transcribed, and the studies we

an increased ability to enjoy her work and be effective at it, began observed that Mrs. C. became considerably more relaxed, acquired observations. These analysts were not informed of our group's hyalso felt that she was bringing out important material on her own to enjoy sex more, and was generally happier in her marriage. They improvement taking place during this period of treatment. They potheses. They concluded that there was clinical evidence of true group read the first 100 hr of the process notes and described their Two training analysts working independently from our research

The HMFP and the AFP: Two Theories of Unconscious Mental Functioning

anxiety or conflict and then be kept in consciousness without anxiety while being experienced vividly and used progressively. Moresciously that they may safely be experienced. Because patients may easily be explained by the HMFP. This research demonstrates that more, rather than less, in control of themselves. over, patients may, while bringing forth warded-off contents, feel before bringing it forth, warded-off contents may emerge without wait until they are no longer endangered by a particular content patients keep mental contents warded off until they decide uncon-We now describe a network of research findings that may most

their defenses against them, the analyst's interpretations are behave no control over these contents and are therefore unable to lift derstood to operate beyond patients' ego control. Because patients cations of pleasure and pain). These unconscious processes are unregulated in accordance with the pleasure principle (i.e., by indi-According to this paradigm, if a repressed mental content is not lieved to play the central role in making such contents conscious By contrast, the AFP assumes that repressed mental contents are

> disguised ways through symptoms and other compromise formainterpreted, it ordinarily remains unexpressed or is expressed in

content becomes intensified, it evokes intensified defensive efforts and repressed forces in favor of the repressed. When a repressed erful enough, may break through into consciousness in a relatively as it pushes toward consciousness. The repressed content, if powbecause of a shift in the dynamic balance between the repressing neously become conscious only in well-disguised compromise forattempt to repress it. More commonly, repressed contents sponta-Because the content is still dangerous to patients, they are likely to when the content emerges and to continue to feel conflict about it. undisguised form. In this instance, patients are likely to be anxious and do not come into intense conflict with it. Moreover, because defended against, patients do not feel anxious about its emergence mations. In this circumstance, because the content is still being advance their therapy. not understand its significance and cannot use insight into it to the true import of the emerging content is disguised, patients do An unconscious content may become conscious during analysis

Research That Compares the HMFP and the AFP

pleasure-unpleasure. The HMFP assumes that repressed mental assumes that mental contents are regulated automatically and that cause they lead to different predictions. As noted above, the AFP analysis. The two hypotheses may be compared empirically becould each account for observations about how warded-off conmer (1982, 1986) investigated how well the AFP and the HMFP In the first study we describe, Gassner, Sampson, Weiss, and Bruand that this regulation is based on appraisals of danger and safety. contents may be regulated by unconscious thoughts and decisions this regulation takes place in accordance with the criterion of tents emerged in the course of the first 100 hr of Mrs. C.'s psycho-The HMFP suggests a combination of expected findings that the warded-off contents without benefit of interpretations from the AFP cannot explain: that patients are able to bring forth previously

maintain conscious control over them. coming into conflict with them, or trying to ward them off; and to therapist; to report these contents without experiencing anxiety,

able to the patient and consequently warded off by defenses. analytic criterion that the contents had been previously unaccepttifying previously warded-off contents that also met the psychoaccompanied by conflict. To this end, we used a method for idenstudy the two psychoanalytic hypotheses that we have described tents that would not use clues about whether their emergence was in analysis, we needed a method for identifying warded-off con-To study the conditions under which warded-off contents emerge methods that the Mt. Zion Psychotherapy Research Group used to We describe this study in some detail to convey a sense of the

ments found in each family of thematic contents. ments had to be in direct proportion to the total number of state content. One hundred of the 500 statements were randomly sestatements were identified and were organized by their thematic through the process notes of the first 100 hr. More than 500 such of Mrs. C. The major procedural steps were as follows: All new witz, Sampson, Siegelman, Wolfson, and Weiss (1975) in the case for identifying previously warded-off contents devised by Horolected, with the constraint that the thematic contents of these state-Hours 1-40 were identified by two judges who independently read ideas that emerged in Hours 41-100 previously unexpressed in Gassner et al. (1982) used a modified version of a novel method

apply whatever criteria seem pertinent." of treatment. Other criteria may also occur to you. Feel free to would have been acceptable to the patient during the first 10 hours possible criterion, you might want to ask whether that content ever criteria would lead you to call a content warded-off. As one Use your clinical intuition to make this judgment, applying what whether you think that the content had been warded-off earlier during those hours. Please read each statement. We want to know ments come from hours 41-100; they appeared for the first time enced clinicians. Their instructions read as follows: "These statefirst 10 treatment hours, were presented to 19, all highly experi-The 100 selected statements, as well as the process notes of the

the degree of confidence they had that a content had been previ-Judges rated the 100 statements on a 5-point scale that indicated

> strong belief that the content had not been previously warded off. content had been previously warded off; a rating of 1 indicated a the patient in the course of the entire analysis, to make these judgbeen previously warded off, using all that he had learned about The treating analyst also rated which of the 100 statements had ously warded off. A rating of 5 indicated a strong belief that a

judges showed considerable agreement about which statements selected group of 9 judges' ratings with those of another group of ied, calculated by correlating the mean values of one randomly had been previously warded off. 10 judges, produced a correlation of .90, indicating that the clinical The split-half reliability coefficient for the 100 statements stud-

was emerging. had been warded off by considering how the patient felt while it avoided basing the judgment about whether a particular content demonstrating agreement among a group of judges. Second, we First, we established the reliability of our clinical judgments by ments were added that clinicians ordinarily do not have to meet: method for making such judgments, but two stringent require-These instructions encouraged judges to use the usual clinical

anxiety could not have been previously warded off. dicts, namely that an uninterpreted content that emerges without expected to have been repressed is calmly discussed, the content had never been repressed. We did not assume what the AFP prethe post hoc assessment that if a content that would have been Many practicing clinicians who are influenced by the AFP make

controls when her husband has an orgasm by whether she moves with the urge to see what she had done. (c) She knew how to work ceived a rating of 4 or higher are as follows: (a) She recalls wanting to kill her older brother. (b) She looked at her bowel movements highly warded-off statements. Examples of statements that reor higher. These statements made up the items considered to be her parents, their guilt, and their need to be absolutely fair. (d) She Thirteen of the 100 statements received a mean scale value of 4

what psychoanalytically informed clinicians mean when they refer to unconscious contents or warded-off contents. Nonetheless, because The set of contents judged previously warded off conformed to

our own psychotherapy research group. mation from both the patient and the treating analyst as well as ously warded off were clinically significant. We looked for inforfurther whether the contents that the judges identified as previadditional evidence by other means that would enable us to assess a distortion of the phenomenon under investigation, we sought we were aware that our measurement procedures might result ir

statistically significant at the .05 level. We concluded that the difference in the scale values for the two groups of statements was 3.96, whereas the mean of the noncued statements was 2.86. This that" was eliminated from the information that the judges received. condescending," the opening phrase "I've never let myself face it patient said, "I've never let myself face it that my brother is really the idea had been previously warded off. For example, had the we omitted all phrases that expressed the patient's judgment that saying that ..." and so on. To avoid giving the judges such cues let myself think ..."; "Suddenly I realize ..."; "I can't believe I'm warded off," statements that contained phrases such as "I've never content. Gassner et al. (1982) designated "cued as previously acknowledged the difficulty the patient had in facing the expressed the "cues-deleted statements." judges were fairly well able to identify as previously warded off The mean of the 7 cued as previously warded-off statements was Of the 100 statements judged, 7 contained phrases that directly

poses of any publications. and powerful that he asked us to disguise their contents for purments that our judges gave the highest ratings to be so revealing warded off. Moreover, the treating analyst considered the state-The treating analyst rated 11 of the 13 statements as previously

rectly connected to our own case formulation. These three conchildhood memories and ideas and that these contents were digroup felt that the statements judged to have been previously allow into consciousness for her analysis to progress well. Our of ideas, feelings, and memories that the patient would have to be warded off were indeed clinically meaningful verging lines of evidence suggested that the statements judged to warded off involved powerful impulses or significant painful its own case formulation. This formulation focused on the kinds Working independently of the judges, our research group made

> ments with the urge to see what she had done." had wanted it and enjoyed it." (c) "She looked at her bowel movethought how she and her husband had had intercourse and she follows: (a) "She recalls wanting to kill her older brother." (b) "She Examples of statements judged to be highly warded off are as

ously warded-off ideas the patient had subsequently expressed patient's previously warded-off contents. We found one such intermine whether anything he had said before the hour in which we were able to look at each of the analyst's interventions to decataloged all of the analyst's interventions. Drawing on their work, pretation by the analyst. terpretation made by the analyst that related to one of the previthis content emerged was related to the ideas expressed in the Twelve of the 13 statements emerged without any previous inter-Drucker (Shilkret, Isaacs, Ducker, & Curtis, 1986), independently Two members of our research group, Marla Isaacs and Carol

at any given moment in the treatment. The three techniques are et al., 1986) applied three techniques for rating the patient's anxiety tent Analysis Scale (Gottschalk & Gleser, 1969), and clinical ratings. Mahl's (1956) speech disturbance ratio, the Gottschalk-Gleser Conwas an increase in anxiety when they emerged. Brumer (Gassner We then studied these 12 statements to assess whether there

of speech disturbances to the total number of words spoken. Nuanxiety in patients by quantifying aspects of how they speak. quantification of anxiety and a reliably discriminating measure merous studies have shown that the Mahl measure is an objective can be obtained for any segment of speech by compiling the ratio pletions, and omissions are identified. A speech disturbance ratio intruding incoherent sounds, stutters, repetitions, sentence incom-Speech disturbances such as slips of the tongue, sentence changes, (Mahl, 1956, 1959, 1961). Mahl's (1956) speech disturbance ratio measures momentary

dition, defensive and adaptive manifestations of anxiety are intilation, guilt, shame, separation, and nonspecific anxiety. In adas evidence of the presence of anxiety in the speaker: death, mu-Phrases that focus on any of the following six contents are assessed diate anxiety by measuring manifest anxiety-related verbal content. ferred when the speaker (a) imputes anxiety or anxiety-motivated The Gottschalk-Gleser Content Analysis Scale assesses imme-

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bility and the predictive validity of this measure and some eviattenuated form. Numerous studies have demonstrated the reliadiates or denies the affect of anxiety; or (c) reports the affect in any dence of its construct validity (Gottschalk, 1974a, 1974b; Gottschalk behavior to other people, animals, or inanimate objects; (b) repu-

erably more anxiety than were previously warded-off statements domly selected patient statements were accompanied by considbased on Mahl's speech disturbance technique showed that rannon-warded-off contents were emerging. The analysis of data at randomly selected times during the analysis or at times when emerging, or during the 5 min that preceded their emergence, than was any more anxious when previously warded-off contents were off contents and episodes containing the 20 control statements. with an interrater reliability coefficient of .80. An intraclass correand 91 randomly selected statements appeared. Four judges apmeasure to 103 episodes in which the 12 warded-off statements clinical judgments of anxiety. Interrater reliability was high for al None of the three methods showed any evidence that the patient the patient was expressing in episodes containing the 12 wardedtion between pairs of six raters who judged the amount of anxiety by the two judges who applied Mahl's (1956) speech disturbance The difference was statistically significant at the .025 level. lation coefficient of .74 was obtained for the average intercorrelaplied the Gottschalk-Gleser technique to the same 103 episodes three anxiety measures. A .91 reliability coefficient was obtained The third method to determine the patient's anxiety involved

psychotherapy and how they reflect on these feelings and use such on their ongoing flow of changing feelings as they occur during warded-off statements as well as to randomly selected statements Experiencing Scale (Klein, Mathieu, Gendlin, & Kiesler, 1970) to nificance of the previously warded-off contents, we applied the observations for problem solving. The scale is useful for micro-The Experiencing Scale assesses the degree to which patients focus To determine whether the patient was defending against the sig-

shifts in patient involvement (Klein et al., 1970). Four trained ments and to 91 randomly selected statements. Their interrater rejudges applied the Experiencing Scale to the 12 warded-off statescopic process studies because it has been found to be sensitive to

experiencing when warded-off contents were emerging than when measure was used, Mrs. C. showed a significantly higher level of randomly selected statements were being made (p < .05). The secing level of the therapy segment being studied. When the modal she was doing the progressive therapeutic work of allowing preticularly involved in the analytic process at just those times when psychoanalysis. Our measures suggested that the patient was parwith reflecting on the feelings associated with the warded-off conthe peak measure was applied, a similar result was obtained, althe highest scale level reached in the segment being studied. When ond Experiencing Scale measure is the peak score that describes One is the modal score, which characterizes the overall experiencviously warded-off contents into consciousness. tents than with the randomly selected contents chosen from her though the difference approached significance only at the .10 level These data indicate that the patient was actually more involved Two kinds of scores can be obtained from the Experiencing Scale

of observations. These findings support the idea that the patient has the capacity to lift her defenses, consistent with the HMFP. We know of no way that the AFP can explain this combination

group had concluded that Mrs. C. not only had considerable difemergence of a particular set of warded-off ideas, those concerning omnipotence fantasies about her power to hurt others. For these criticizing, blaming, and so forth were so troublesome. It was furgains, she would need to understand the reasons that fighting ficulty with fighting with others but also that, to make significant On the basis of the process notes of the first 10 hr, our research Mrs. C.'s unconsciously held beliefs about her own omnipotence hurting others and her unrealistic appraisal of her power to push purposes, omnipotence is defined as the patient's anxiety about ther hypothesized that her conflicts in this area resulted from her In a subsequent study, Shilkret et al. (1986) investigated the

Shilkret et al. (1986) developed a case-specific omnipotence scale

noted. ¹All significance levels reported are for two-tailed tests unless otherwise

order them sequentially. On the basis of a thorough reading of the patient's insight into these problems. these process notes, Shilkret et al. identified five different levels of identify all of Mrs. C.'s expressions of omnipotence and then to the first 100 hr of the patient's analysis. Their approach was to on the basis of a clinical inductive study of the process notes of

patient also feels weak, helpless, and impotent and is unable to way bad, harmful, or unable to be good, without qualification. The Stage 1 the patient expresses the general idea that she is in some awareness that she is troubled by these issues. For instance, at thoughts or actions. because she does not feel responsible for, or in control of, her does not want to do. She does not consciously experience guilt things she wants to do or feels compelled to do things that she exert control in interpersonal situations, so that she cannot do little or no recognition of either omnipotent fantasies or feelings or At the lowest level of the omnipotence scale, the patient displays

she is unaware of the omnipotent thoughts that are causing the insight at this stage is that she feels guilty for "something," but both) that she cannot account for or knows is unreasonable. Her recognizes a vague sense of guilt or responsibility for others (or At Stage 2, the patient still feels unable to exert control, but she

bothered that she can harm others by this control. She now unor actions. The patient now feels that she can control others and is her idea that she can control and thus harm people). derstands the cause of her feelings of excessive responsibility (i.e., feels responsible, guilty, or blameworthy because of her thoughts At Stage 3, the patient makes her concerns explicit—that she

guilty. She may even enjoy feeling powerful, strong, or controlling bothered by such feelings. She feels powerful without feeling At Stage 4, the patient feels she can control others without being

of her actions, even if this assessment is difficult to make actions, or she may attempt to anticipate the realistic consequences assessment, she may distinguish between her thoughts and her assess the extent of her ability to control others. As part of this At Stage 5, the patient is engaged in an attempt to realistically

hr and selected items that unambiguously pertained to the scale Once the scale was developed, six judges read through the 100

> statistically significant change in the predicted direction across the bility of .72. Each item was given the rating that two or more cording to the stage level, producing an average interrater reliaof the stages of the scale. Three judges then rated these items acments and determined that the 144 selected items represented all tion of 144 items, two experienced clinicians read through the stateof guilt, responsibility, and power to hurt others. After this selecexplicit, conscious thoughts she had about her irrational feelings into her omnipotence, the judges were instructed to identify any able to trace how Mrs. C. began to develop insight into a central others was accompanied by her acquisition of genuine insights into increases in Mrs. C.'s capacity to blame, criticize, and fight with judges agreed on. The mean ratings for the 10-hr blocks showed a Because the intent of the scale was to measure Mrs. C.'s insight ple and her conflicts about having power or strength of any kind. unconscious conflict, namely her unconscious fears of hurting peoher problems with omnipotence. Thus, Shilkret et al. (1986) were her problems of omnipotence. The results of this study suggest that 100 hr, providing evidence for the patient's increasing insight into

entire scale again, as applied to the analyst's interpretations, we nipotence scale of Shilkret et al. to investigate the analyst's interacquired without interpretation. They adopted the five-stage omstudy, investigated whether Mrs. C. gained these insights into her alyst's interpretations were catalogued. define a few points to provide some indication about how the anpretations into this same area of conflict. Without describing the conflicts because they were interpreted to her or whether they were Isaacs and Drucker (Shilkret et al., 1986), building on the Shilkret

she wanted to do or felt compelled to do things that she did not want to do relative to other people. At Stage 3, the analyst pointed the realistic extent of the patient's ability to control others. felt bothered by that feeling. At Stage 5, the analyst pointed out to the patient's feeling that she could control others and that she tions. He may have interpreted that she could not do things that weak, helpless, or unable to exert control in interpersonal situa-At Stage 1, the analyst interpreted that the patient was feeling

tions not included in this study included direct questions, oneinterventions were found to be interpretations. The other interven-In the first 100 hr of the analysis of Mrs. C., 153 of the analyst's

over omnipotence. A final sample of 21 analyst interventions was reliability was .82. identified that were given ratings of 1-4. The overall interrater any statements that in any way alluded to the patient's conflicts with the case read the 153 interventions with instructions to select word responses, business matters, and so on. Two judges familiar

reached that level of insight on her own (Shilkret et al., 1986). her progress, even though the interventions came after she had first the same level as those of the patient facilitated and accelerated level. There also was evidence that the analyst's interpretations at insight before the analyst's making an interpretation at that same It was found that the patient reached each of the five levels of

she was while expressing these ideas resented a controlled emergence we needed to study how anxious poses of mastery. Although we know her omnipotent ideas came sented a pathogenic belief from which she wanted to free herself. forth regularly and without interpretation, to confirm that they repto lift her defenses against the expression of these ideas for purher thoughts and actions, she became relieved and felt safe enough As the patient learned that she was not hurting the analyst with hypothesizes that the patient's ideas about omnipotence repreher wish to be all powerful and to push others around. The HMFP pressions of omnipotence as the result of the analyst's frustrating terpretation, the unconscious AFP would explain the patient's expatient's ideas about omnipotence emerged regularly without inlikely to account for these findings in different ways. Because the The unconscious AFP and the unconscious HMFP would be

ity to fight and to be close during the first 100 treatment hours of Horowitz (1979), who demonstrated Mrs. C.'s increasing capac psychoanalytic paradigms we have described. could in and of themselves be accounted for by each of the two sion during these 100 hr. First, however, we describe the research These changes, too, like the increase in insight about omnipotence, Later we describe a study that examined Mrs. C.'s level of ten-

to follow from the patient's unconscious sense of increased safety the HMFP hypothesizes that these changes could be understood flict, stimulated by the analyst's interpretative work and the frustration of the patient's unconscious libidinal wishes. By contrast, The AFP would explain these findings as a mobilization of con-

> adigms accounted for the combination of observations. with our other studies can we distinguish how well the two parand closeness. Only after we consider this study in combination exercise greater control in how directly she could express fighting patient's increased sense of safety, she was able unconsciously to with the analyst. In keeping with this explanation, because of the

stances were identified. with, or opposed another person). One hundred ninety such inall instances in which the patient blamed, criticized, disagreed the first 100 hr and identify all instances of fighting behaviors (i.e., Horowitz (1979) had three clinicians read the process notes of

sible ratings expanded from 1 to 4.5. one was rated 4. An additional 0.5 was added to the scale value if someone else, the rating was 3; and a direct confrontation of some-2; if the blame or criticism of one person was expressed directly to blame or criticism was expressed and then undone, the rating was blame or criticism was implied, the scale value was at 1; if the patient was able to blame, criticize, disagree, or oppose. If the of four clinicians who had no other information about the case. the event occurred in the present tense, and thus the range of pos-The judges applied a 4-point rating scale to assess how directly the These 190 passages were presented in random order to a panel

expressed. A corresponding 4-point rating scale was devised for scribing behavior that expressed closeness or intimacy. There were these closeness items. 106 instances in which confiding, cooperating, and loving were A comparable procedure was used to identify all passages de-

change in the patient's capacity to directly describe her experiences of closeness behaviors, there also was a statistically significant were 18 statements that directly referred to the patient's sexual growth usually associated with a learning curve. Note that there ness measures, the change across hours revealed the type of each 10-hr block were computed; for both the fighting and closewith Bill, she feels as though she wants to hurt him. She just that sometimes when she is trying to make herself have intercourse with sexual intercourse. For example, in Hour 33 the patient said her presenting complaint of sexual frigidity. For this subcategory behavior. These were studied separately because they referred to Both sets of passages were reliably rated. The mean ratings for

said that this weekend she and Bill had intercourse, and she was and feeling close to him and not all wrapped up in herself. thinking how different it can be when she is thinking about him feeling nothing toward him suddenly. By contrast, in Hour 67 she does not understand it. She will go from feeling very warm to

the first 100 hr (Curtis et al., 1986). the patient seemed to maintain a constant level of tension during tient's level of relaxation over time. Curtis et al. (1986) found that et al. measure, the Freedom-Beleaguerment Scale, assessed the paprogressing in the ways that we have described so far. The Mayer level of tension during the course of the first 100 hr, while she was hoff, Sampson, Brumer, & Bronstein, 1986) investigated Mrs. C.'s To distinguish the AFP from the HMFP, Mayer (Curtis, Ranso-

ing herself ("I have to") and other times took the form of her feelcan't." Mrs. C.'s difficulties asserting herself or expressing her agdifficulties with closeness were typically expressed in the form "I as "I have to" or "I can't." Two hundred forty-eight such com-C. expressed compulsions or inhibitions regarding closeness and drive. They identified all instances in the process notes where Mrs. havior and her corresponding difficulty with feeling in control of both these ways, she was describing the driven quality of her being unable to express what she wished to convey ("I can't"). In gression sometimes took the form of her having difficulty restrainto fighting and 56 statements referring to closeness. The patient's plaints were identified, among which were 60 statements referring fighting. These complaints were typically expressed in terms such Horowitz et al. (1975) studied changes in the patient's level of

the transcripts (Curtis et al., 1986). first 100 hr. Francis Sampson verified this finding working from the patient's expressions of driven behavior over the course of the Horowitz et al. (1975) found a statistically significant decrease in

them within her personality. (b) The patient developed insights, often without increased anxiety or conflict and kept these ideas in especially into previously omnipotent ideas, ideas that she could consciousness, experiencing them emotionally and integrating (a) The patient became conscious of previously unconscious ideas rived at the following conclusions. Our research demonstrated that Based on the research that we have described heretofore, we ar-

> developed an increased ability to experience sexual pleasure. (d) became more direct in her expression of aggression and love and less driven and was feeling more in control of her behavior. While these changes were taking place, the patient was becoming All of these changes took place largely without interpretation. (e) magically harm others by her thoughts and actions. (3) The patient

of herself. Whereas this combination of findings cannot be parsimade, the patient was becoming less driven and more in control into her omnipotent ideas. Finally, while these gains were being ceding either the emergence of warded-off contents or her insights changes occurred largely without the analyst's interpretations presome insight into her problems with omnipotent ideas. These ing during the course of these hours, and the patient was gaining sexual intercourse in particular. Warded-off contents were emergwishes, feelings, and ideas about closeness in general, including more directly. Likewise, she became less obsessive about her provements. She became able to express her ideas and feelings defensive forces that have been mobilized by the analytical process moniously explained as the result of an interplay of instinctual and concerning fighting, blaming, criticizing, and opposing others During the first 100 hr, the patient made some symptomatic imthese findings can be readily accounted for by the HMFP. The HMFP can readily account for this combination of findings

our findings were not influenced by research bias, a fortuitously chosen case, or other errors. Replication by other investigators is needed to demonstrate that Research findings such as these should be viewed cautiously

Research That Demonstrates the Predictive and Explanatory Power of CMT

situations (Weiss, 1997). The most consequential of these beliefs are and self-fulfillment. Pathogenic beliefs typically arise in the context developmental strivings toward independence, intimacy, success, of others, despair about the future, and a renunciation of normal CMT places a major emphasis on the unconscious pathogenic bethose that lead to unconscious guilt, impaired self-esteem, distrust liefs that children develop in their efforts to adapt to traumatic

come their convictions in their pathogenic beliefs through a process causal relationships and tend to blame themselves for anything and others because they have a limited understanding of accurate called testing. tenet of CMT is that in a well-conducted treatment, patients overtraumatic that happens to them or other family members. A major highly vulnerable to developing false theories about themselves of the child's relationships with parents and siblings. Children are

Introduction of the Concept of Testing

fects, and wishes that the patient cannot yet face. scious because it is connected to traumas, pathogenic beliefs, aftherapeutic relationship. The patient's testing is usually uncondanger and to elicit needed corrective emotional experiences in the ryday life (Weiss, 1989; Weiss & Sampson, 1986). It is a patientinitiated activity that uses trial actions to test one's expectations of Testing in therapy is an extension of normal reality testing in eve-

solving activities cally follows from Weiss's (1990b) view of the unconscious mind patients develop a reasonable unconscious plan for mastery logisessment of the therapist's capacity to help them. The notion that own and the therapist's strengths and weaknesses, and their as their therapeutic goals, their pathogenic beliefs, their view of their conscious plan for mastery (Weiss, in press) that takes into account as containing adaptive goals and engaging in high-level problem (Weiss, 1990a). Patients test in accordance with a reasonable un-Testing is a crucial part of the patient's efforts at adaptation

genic beliefs with the therapist, in the hope that the therapist their problems. The patients' plans are for testing their pathoassumes, too, that patients make and carry out plans for solving by disproving the pathogenic beliefs that underlie them, and it chotherapy, including psychoanalysis, is to solve their problems by unplanned unconscious forces. The present paper challenges this view. It assumes that the primary motive of patients in psy-The patient's behavior is thought to be governed to some extent view is not extended to the behavior of the patient in therapy, sense for most human activities. However, this common sense The idea that people plan their behavior is considered common

> plans throughout the therapy. (Weiss, in press, p. 2) and that patients work consistently in accordance with these tients' plans from their behavior at the beginning of therapy, search Group we demonstrated that we can reliably infer pastudies carried out by the San Francisco Psychotherapy Rewill not react to their tests as their beliefs predict. In research

scious intentions toward them, and create opportunities to identify signed to different problems the patient wishes to master. Within with strengths in the therapist that they want to acquire. peutic relationship, discern their therapists' conscious and uncongenic beliefs, assess conditions of safety and danger in the theratheir testing behavior, patients attempt to disprove their pathounconscious work patients engage in throughout therapy. Through Weiss's (1989, 1993) theory, testing is considered to be the primary danger (Sampson, 1989; Weiss et al., 1986) and by the priority as-The patient's testing is guided by considerations of safety and

of danger and therefore tend to be followed by increased anxiety Consistently passed tests result in positive therapeutic outcomes. result in therapeutic retreats and negative therapeutic outcomes. tests before giving up on an important goal. Repeatedly failed tests failed tests and give the therapist other opportunities to pass their and defensiveness. Patients generally "coach" the therapist after tic progress. Failed tests increase the patient's unconscious sense increased confidence in the therapist, and indications of therapeutend to be followed by decreased anxiety, lessened defensiveness, mentarily, the patient's unconscious sense of danger and therefore if the therapist passes the test. Passed tests decrease, at least motional risk, it tends to produce strain in the patient that is relieved testing more boldly. Because testing entails some degree of emo-Patients typically begin by testing cautiously and progress to

core pathogenic beliefs. to have an important testing function. Tests vary considerably in havior or that call for some response from the therapist are likely of testing. Actions that contrast sharply with a patient's usual bethough certain behaviors stand out as particularly clear examples parent instances of transference, resistance, and acting out, altheir complexity, intensity, duration, and centrality to the patient's Any behavior can be used for testing purposes, including ap-

Patients unconsciously adjust their testing to accommodate to

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awareness that they are being tested. apist's response. Therapists typically pass and fail tests without patient's tests can be gauged by the patient's reaction to the therin a variety of ways. Whether the therapist is passing or failing a may pose tests in numerous ways, therapists can pass or fail tests as to the length of time they expect to be in therapy. Just as patients their perception of the therapist's strengths and weaknesses as well

testing strategies to disconfirm a single prominent pathogenic bements of both testing strategies. Patients typically use a variety of able to learn how to deal with rejection. Many tests contain eletitude may act rejecting toward the therapist in the hope of being ample, patients who were traumatized by a parent's rejecting atbehaviors that patients found traumatizing as children. For exchance to identify with the therapist's capacity to handle parental way. For example, a patient might pose a transference test to prove matized child. Transference tests are intended to prove that some matizing parent and place the therapist in the position of the traubehavior that resulted in their being traumatized as a child. In the that the therapist will not withdraw if the patient expresses loving feared consequence will not occur if the patient behaves a certain form called passive into active, patients take the role of the trautesting. In the form called transferring, patients repeat some past feelings. Passive-into-active tests are undertaken to give patients a Weiss (1993; Weiss et al., 1986) has described two basic forms of

strate the predictive power of the testing concept by studying conchotherapy Research Group has been able to successfully demonstand a patient's tests accurately, one must have a comprehensive spicuous and pertinent examples of tests in the therapeutic process meaning of the therapist's interventions. The San Francisco Psylens through which a patient will attempt to decode the "true" therapeutic goals. The patient's testing provides an unconscious grasp of the patient's childhood traumas, pathogenic beliefs, and Testing can best be studied on a case-specific basis. To under-

Research on Testing

of a wider investigation into the emergence of formerly warded-The first empirical study of testing (Horowitz et al., 1975) was part

> warded-off contents (N hours). Each session was divided into thea "discomfort quotient"), which had an interjudge reliability of .97, anxiety using a modified version of Mahl's measure of speech dismatically distinct "episodes" of patient speech that were rated for tents (W hours) with the six sessions containing the least highly Mr. B.). Using an innovative methodology, the investigators comoff contents in the first 100 hr of a recorded analysis (the case of pared the six sessions containing the most highly warded-off con-12 W and N hours. gauged the effect of the analyst's passing and failing tests in the ruptions (Kasl & Mahl, 1965). The anxiety measure (referred to as

considered to be testing when he openly disagreed with the anasponse to them were not defined in a case-specific way. Mr. B. was mained neutral or said nothing. an intention to do something self-destructive and the therapist re-In other cases, a test might be badly failed if the patient announced response to them were defined happened to fit Mr. B.'s psychology. findings because the generic way in which tests and the analyst's mains neutral or silent, this study produced statistically significant passed test. Although some tests will be failed if the analyst re-"neutral." The analyst's remaining silent was always considered a the analyst. Passing a test was defined as the analyst's remaining Weiss's (1971) development of CMT, tests and the analyst's relyst, expressed anger at the analyst, or demanded something from For purposes of this study, which took place at an early stage in

a high level of agreement. The episodes in which passed and failed ordered the analyst's responses (for the degree of neutrality) with patients become more anxious while testing and less anxious if previously warded-off contents. The opposite was true for failed were significantly more likely to be followed by the emergence of whereas failed tests gave rise to increased anxiety. Passed tests also tified 23 tests with perfect agreement. Three other judges rankpendently read the transcripts of the 12 W and N hours and idenmore failed tests. There also was evidence for the proposition that tests. The W hours contained more passed tests and the N hours first was that passed tests were followed by a drop in anxiety, followed. Several statistically significant findings emerged. The tests occurred were compared with the episodes that immediately In the Horowitz et al. (1975) method, two psychologists inde-

ing episodes was higher than the mean discomfort quotient for the likely to drop following passed tests and to rise following failed hour. The patient's discomfort quotient was also significantly more their test is passed. The patient's discomfort quotient during test-

esis that a patient will feel less anxious and become more productests should be followed by increased distress and signs of retreat before the study was undertaken. Silberschatz tested the hypothwas unfamiliar with CMT and had terminated Mrs. C.'s treatment script of the first 100 hr of the case of Mrs. C. The treating analyst quences of passed and failed "key tests" using the verbatim tranmethod for identifying significant tests and judging whether the tive following significant passed tests. Conversely, significant failed therapist had passed or failed them.2 He examined the conseout the first empirical study of testing that used a case-specific Silberschatz (1978; Silberschatz, Fretter, & Curtis, 1986) carried

satisfaction (Dahl, 1978). Silberschatz found that the patient besystem that measured the patient's level of fear, anxiety, love, and the therapist passed a key test. Passed tests correlated positively came significantly more involved, productive, and relaxed wher were the Experiencing Scale (Klein, Mathieu, Gendlin, & Kiesler, of judges applied several different rating scales to measure changes Relaxation Scale (Curtis et al., 1986), and an affect classification 1970), the Boldness Scale (Caston, Goldman, & McClure, 1986), the in patient behavior immediately after each key test. Those scales gree to which the analyst passed or failed each test. Other groups scribed Mrs. C's therapeutic goals, pathogenic beliefs, and likely the control-mastery case formulation to reliably determine the dejudges as instances of a key test. A second group of judges used A set of 46 patient-therapist interactions was selected by all three flected Mrs. C.'s working to disconfirm a central pathogenic belief 87 potential tests and identified those examples of testing that retesting strategies. One group of three judges reviewed a sample of Judges were given a control-mastery case formulation3 that de-

true for failed tests. with increased experiencing (r = .33, p < .05), boldness (r = .32, p(r = -.34, p < .05) and anxiety (r = -.29, p < .05). The opposite was < .05) and satisfaction (r = .15, p < .05), and negatively with fear < .05), relaxation (r = .35, p < .05), and feelings of love (r = .37, p

could tolerate her being in control in the sessions. The analyst's test, the patient was attempting to find out whether the analyst her ideas for him to maintain his sense of authority. In the failed minish herself to make the analyst (and others) feel superior to her tempting to disconfirm her pathogenic belief that she had to di-Silberschatz's (1978) study. In the passed test, the patient was atresponse conveyed a demand that she submit to his authority. The analyst's response implied that he did not need her to belittle The following examples of passed and failed tests are taken from

Example of a passed test

Patient: (Silence) It's funny. I just, when I finished saying what about it, it, I just sort of feel, well, of course, there's no what you're thinking. point in even saying it. Or perhaps I'm feeling that's thing to have realized. And now today when I think was thinking about it, it just seemed such an important the trouble is or what's important, last night when I I said about um, the way I'm emphasizing what, what

Analyst: Ah (patient laughs) I was going to just say that here thought it, that kind of feeling grading it immediately. It can't be worth much if you you are again sort of taking away from yourself, de-

Example of a failed test

Patient: (Silence) Is it better to force yourself to say something that you feel sort of not ready to say?

Well, what was the rule I told you? Or what did I say was your job?

Patients were seen by an independent evaluator for an initial inferred and screened to ensure their suitability for brief treatment from the Mt. Zion Brief Therapy Research Project, were self-retesting behavior in short-term therapy. Their participants, drawr ing repeated measures, single-case research design to the study of Silberschatz and Curtis (1993) subsequently applied the forego-

²Parts of Silberschatz's study are described in a chapter by Weiss and Sampson (1986) that appears in Volume 2 of this series.

³Caston (1986) developed a new methodology for obtaining good rater

reliability in the preparation of control-mastery case formulations

conducted after the completion of treatment. ment, 6 months after termination, and 1 year after termination. The unaware of the hypotheses being investigated. The research was who represented different schools of brief dynamic therapy, were therapists, experienced clinical psychologists and psychiatrists take interview and for follow-up interviews on completion of treat-

partial correlations between the mean test-passing scores and the creased experiencing immediately following each test. The semiorder to three new groups of judges who rated the segments on mulations included a description of the patient's problems and hisusing a revised version of Caston's (1986) method for achieving apists and the independent evaluators. Diane was seen for 16 sesplayed significant positive correlations between test passing and for Diane and .40 (p < .01) for Gary. Only Diane, however, dismean residualized gain scores for experiencing were .35 (p < .01) both patients, test passing was significantly correlated with inton et al., 1986), and the Relaxation Scale (Curtis et al., 1986). For the Experiencing Scale (Klein et al., 1970), the Boldness Scale (Caswere excerpted from the transcript and presented in randomized ments of patient speech immediately before and after each test therapist passed or failed the patient's tests. (d) Three-minute segjudges used a 7-point Likert scale to rate the degree to which the tified in the case of Gary and 69 in the case of Diane. (c) The same testing a central pathogenic belief). Forty-five key tests were idenformulation to select the key tests (i.e., instances of the patient's and presented to a new group of four judges who used the case potential test was then excerpted from the transcript, randomized, therapy session and identified all possible instances of testing. Each tests. Five experienced clinicians read verbatim transcripts of each ful to the patient. (b) A two-step process was used to identify key was likely to test the therapist, and insights most likely to be helpimpeding the attainment of those goals, ways in which the patient tory, the patient's goals for therapy, the central pathogenic beliefs Curtis, Silberschatz, Sampson, Weiss, & Rosenberg, 1988). The forinterrater reliability (Curtis, Silberschatz, Sampson, & Weiss, 1994; both cases: (a) A control-mastery case formulation was prepared sions and Gary for 12. The following procedures were followed in apeutically successful by the patients themselves and by the ther-The two cases studied (Gary and Diane) were judged to be ther-

> effect as well. peutic progress. Thus, the therapist's reaction to tests has not only passing scores were characterized by more indications of theraindicating that sessions in which the therapist received higher testhour were correlated with each of the mean patient shift scores for ing, boldness, and relaxation. The mean therapist scores for each the therapist scores and the residualized shift scores for experiencthe therapist's passing or failing tests by averaging, for each hour failed tests, the investigators measured the cumulative impact of .01). In addition to assessing the immediate impact of passed and increased boldness (r = .45, p < .01) and relaxation (r = .37, p < .01) an immediate effect on the patient's functioning but a cumulative that hour. The same pattern of significant correlations emerged,

significant positive correlation (r = .54, p < .01) between passed of adaptive regression to the 5-min segments of patient speech that described above. Bugas (1986) had three judges apply a measure short-term therapy that had an unsuccessful outcome (the case of speech that correlate highly with stress, emotion, and psychopaspeech. The LTVS systematically analyzes acoustic components of trum (LTVS), to the pre- and posttest audio segments of patient applied an electronic measure of anxiety, the long-term voice speccontrolled primary process material after passed tests. Kelly (1986) tests and adaptive regression, indicating that the patient had more Rorschach test) for use with transcript material. Bugas found a measuring primary process manifestations and their control on the Holt's (1977) Adaptive Regression Scale (which was designed for immediately preceded and followed each key test. Bugas adapted Fran). Fifty-eight key tests were identified using the procedures tween test passing and the PCIRS, indicating that the patient deplayed in each of the pre- and posttest segments of patient speech. rating scale (the Plan Compatibility of Insight Rating Scale ter passed tests. Linsner (1987) developed a case-specific insight indicating that the patient's anxiety level immediately dropped afp < .01) between passed tests and the LTVS measure of anxiety, thology. Kelly obtained a significant negative correlation (r = -.62, veloped more useful insight immediately after a key test was He obtained a significant positive correlation (r = .52, p < .01) be [PCIRS]) to measure the level of pro- and antiplan insight dis-Three other testing studies were carried out on a 16-session

gress or the lack thereof. adaptive regression (r = .58, p < .001) and negatively with the LTVS tween passed and failed tests and immediate signs of patient projority of the patient's tests), there is still a lawful relationship bean unsuccessful treatment (in which the therapist is failing the ma-(r = -.28, p < .05). These three studies demonstrate that even in and a lower level of anxiety. The PCIRS correlated positively with with a higher level of ego control (over primary process material) passed. Linsner also found that proplan insights were associated

Linsner (1987) discussed the following example of a passed test:

Test segment. (The patient, who recently separated from her husband shortly after having his child, has just visited his par-

Patient: sympathize with them but I don't—they don't bring of easy. I almost feel guilt because I feel so good. And of an effort to think positively but now it's really kind good for myself you know. I mean at first it was sort Yeah, yeah. I know they didn't know what to say (about in touch now with the power to make things turn out going to have a good time too. I just feel like I'm really had this time, you know. You know I decided I was with Stan, but actually I had the best time that I ever know, because I had been there five other times before and talk about it since we were all thinking about it. So me down, so—I just— —you know things that go on around me, I mean I can I was kind of depressed when I first went there, you their son's marital difficulties), but you still gotta try

Analyst: Why do you suppose you should feel guilty about feeling so good?

Patient: Why should I feel guilty?

Analyst: What's the crime?

Post-test segment

for me, and they are real supportive of it. Some people feel, they are real happy about it. They are real happy don't know. But everybody I talk to about how good I I don't know. . . . I mean, I don't really feel guilty, but (Pause) I don't feel like there's a crime but it's just that feel like I should, you know what I mean? I just . . . !

> egotistical or whatever, but the people that care about so I was always afraid ... well, I feel good now, but me are really glad to see it. And I feel real good because might get down on it and think that I was just being feel that way anyway. I just feel like I can do anything, the next mood I'm going to crash you know, but I don't feel like ... well, I tend to be a sort of moody person, I really feel that I have that strength inside, and I don't it's not something I'm faking, you know what I mean? essarily drag me down. you know, and I don't feel that other people can nec-

She is testing to see if the therapist will support her attempts to important accomplishment—that of overcoming her guilt at bedepressed and helpless) in order to maintain the relationship with and confirmed associated beliefs that she must fail (i.e., remain mother's lack of confidence in the patient's ability to advance, ness at losing the relationship, he would have recapitulated her along the lines that her feeling good was a defense against sadthe lifting of her depression and guilt, for example by interpreting biguous and his support for her in question. Had he questioned therapist remained silent, his intent would have appeared ambe dour and pessimistic about her ability to succeed. Had the master her guilt, or whether the therapist, like her mother, will ing better off than her husband --- and is feeling proud of herself draws on past experiences with her mother. She is reporting an important parental figures (i.e., the therapist).4 Commentary. The patient is posing a transference test that

Pro- and Antiplan Intervention Studies

and move toward their therapeutic goals are considered to be "proof safety in the therapeutic relationship and help them feel more plan"; interventions that reinforce a patient's pathogenic beliefs also facilitate the therapeutic process through their interventions entitled to pursue their goals. Antiplan interventions do the optiplan." Proplan interventions generally increase patients' feelings and thereby impede therapeutic progress are considered to be "an-Interventions that help patients disconfirm their pathogenic beliefs Therapists not only help patients by passing their tests but they

author. *From Linsner (1987, pp. 168-169). Reprinted with permission of the

Weiss (1993). help or impede patients in their efforts to carry out their plans, see posite. For a full exposition of the various ways interventions can

proplan interventions but not measurably set back by antiplan ininterventions. These findings suggest that Mrs. C. was helped by compatibility and insight or boldness across the range of antiplan proplan interventions, but there was no relationship between plan p < .005) as well as insight (r = .47, p < .005) across the range of tive correlations between plan compatibility and boldness (r = .37, partially supported their hypothesis. There were significant positerventions would be followed by the opposite. Their results only immediate increases in insight and boldness, whereas antiplan inthe hypothesis that proplan interpretations would be followed by mediately before and after each intervention. Caston et al. tested sessed the patient's level of insight and degree of boldness imlytical interventions. Another group of four judges reliably asor antiplan each intervention was) of 81 randomly selected anaclinical judges to reliably assess the plan compatibility (how prorater agreement. The resulting plan formulation was used by four a procedure for diagnosing Mrs. C.'s unconscious plan with good on the first 100 hr of Mrs. C.'s analysis. Caston (1986) developed of pro- and antiplan interventions (Caston et al., 1986) was based The first empirical study that we know of of the immediate effect

resistance to termination was primarily a defense against loss and C.'s resistance to termination. For the treating analyst, Mrs. C.'s alyst's understanding and a control-mastery understanding of Mrs. renunciation. The plan formulation prepared by the investigators ventions. They also were interested in comparing the treating anselected for study were all highly relevant to the patient's plan for scribed. They expected to find a lawful relationship between the notes because the latter part of the analysis had not yet been tranthe patient's feelings about termination because the interventions plan compatibility of the analyst's termination interventions and termination and spanned a wide range of pro- and antiplan interterventions. Their research used the analyst's detailed process tance to termination was affected by the analyst's termination inlast 114 hr of Mrs. C.'s analysis, examined how the patient's resis-An intervention study by Bush and Gassner (1986), using the

> defensive reaction to her fear of hurting the analyst by wishing to leave him and establish her independence. considered Mrs. C.'s resistance to termination to be primarily a

of readiness for, or opposition to, termination. Both sets of judges given a plan formulation for the last 14 sessions and asked to rate pothesis. All interventions that bore on termination were included (r = .44, p < .0001) strongly supported the hypothesis that Mrs. C. ized Attitude Toward Termination scores. The obtained correlation lating the mean plan compatibility scores with the mean residualof the analyst's termination interventions was measured by correachieved good rater reliabilities (.80 and .83). The immediate effect termination intervention. This scale assessed the patient's feelings nation Scale to segments of patient speech before and after each him. Two other judges applied a 5-point Attitude Toward Termiwould not be hurt by the patient's leaving and no longer needing Plan compatible interventions conveyed the idea that the analyst 112 termination interventions on a 7-point plan compatibility scale in the study. Four experienced therapists familiar with CMT were more resistant to termination following antiplan interventions. would feel more ready to terminate after proplan interventions and The following procedure was used to test the investigators' hy-

scores over 19 blocks of six sessions each. The correlation between ated with the plan compatibility of the analyst's termination interpatibility of the analyst's interventions. Over time, the analyst's resistance to termination fluctuated in tandem with the plan comblocks of sessions was .66 (p < .01), indicating that the patient's ratings of the patient's attitude toward termination for the 19 the pooled scores for the therapist's interventions and the pooled ventions over longer time periods, we averaged patient and analyst felt increasingly ready to terminate. interventions became progressively more proplan and the patient To assess how the patient's attitude toward termination fluctu-

coming her resistance to termination: the last 100 hr that illustrate the patient's way of working on over-Bush and Gassner (1986) described two testing sequences from

block of 10 sessions (the first 10 of the last 100 hours of her taneously and successfully carried out with the analyst over a We will describe here two interrelated tests that Mrs. C. simul-

stead of agreeing to it. sible rationale for this accusation was that if the analyst really minating her analysis. She carried out this test by accusing the active in an attempt to disconfirm her unconscious belief that cared about her, he would actively oppose her termination inanalyst of heartlessly rejecting and abandoning her. The ostenshe was cruelly rejecting and abandoning the therapist by terbasis. The second test involved a form of turning passive into continue seeing the analyst after termination on a once-a-week repeatedly asking if she could rescind the termination date or by claiming that she did not feel ready to terminate and by dent upon him and involved with him. She carried out the test belief that the analyst desperately needed her to remain depenanalysis). The first test involved an attempt to disconfirm her

The analyst passed both tests by acting perfectly comfortable with the patient's demands and accusations. In other words, he tempting to make him feel guilty and sorry for her. was trying to manipulate him into letting her stay on by atdifferent basis after termination. Moreover, he told her that she changing the termination date or continuing to see him on a ing painful feelings of rejection and requesting a postponement. mination to proceed as scheduled even though she was expressacted as though it was reasonable and appropriate for her ter-He never responded to her questions about the possibility of

quence of her leaving. come aware of thoughts about the analyst dying as a conseter, to express feelings of readiness for termination, and to be-Following this testing sequence the patient started to feel bet-

comes: excellent, good, and poor tions. The patients selected for study represented a range of outterm dynamic therapy and held different psychoanalytic orientaand inhibitions. The therapists had specialized training in shortwere each diagnosed as suffering from chronic neurotic depression audio-recorded therapy cases were randomly selected from the Mt. subclass of interventions, namely interpretations. Three brief concept to predict patients' immediate reactions to an important ilar with respect to the severity and nature of their problems. They Zion Brief Therapy Research Project. The three patients were sim-Another series of studies demonstrated the ability of the plan

vey insight). It also attempted to compare the predictive power of pretations were considered to be interventions that attempt to conwhether the dimension of plan compatibility could predict a padirected at the patient's feelings about the therapist or the therapy emotional content beyond what the patient had already said. Foltation or a noninterpretation, depending on whether it added an gory of interpretation (transference vs. nontransference) using a the plan compatibility concept with the predictive power of catetient's immediate reaction to the therapist's interpretations (intertransference or nontransference depending on whether they were lowing Malan, all interpretations were then further categorized as judges read the entire verbatim transcript and categorized every typology devised by Malan (1963, 1976). For each case, four clinical therapist intervention (i.e., all therapist comments) as an interpre-The initial study (Fretter, 1984; Silberschatz et al., 1986) examined

genic beliefs that inhibit the patient from pursuing those goals, mulations (also referred to as "plan formulations") following the it was necessary first to prepare reliable control-mastery case forgoals, .90 for pathogenic beliefs, .82 for tests, and .86 for insights. each case formulation on the basis of the intake interview and the may find useful. A team of five experienced clinicians prepared formulation specifies the patient's therapeutic goals, the pathomethod described by Curtis et al. (1988, 1994). This type of case the components of the patients' plan formulations were .89 for first two therapy sessions. The average interjudge reliabilities for tests that the patient is likely to pose, and insights that the patient To assess the plan compatibility of the therapists' interventions,

mean plan compatibility ratings for the three cases ranged from dependently. The reliability coefficients (coefficient alphas) of the Plan Compatibility of Interventions Scale. Each judge worked informulation to assess the therapist's interpretations on the 7-point actions). For each case, four to six judges used the patient's plan be influenced by order effects or by the patient's subsequent redifferent groups of control-mastery judges (so that they would not the verbatim transcripts and presenting them in random order to pists' interpretations entailed excerpting all interpretations from The procedure for assessing the plan compatibility of the thera-

The Experiencing Scale (Klein et al., 1970) was used to assess the

permission. From Bush and Gassner (1986, p. 404 [Appendix 26]). Reprinted with

to measure shifts in experiencing following each interpretation. cases ranged from .80 to .86. Residualized gain scores were used reliability coefficients of the mean experience ratings for the three the therapist's interventions or the outcome of the treatments. The riencing Scale. The raters worked independently and did not know in randomized order to six raters trained in the use of the Expeinterpretation were excerpted from the transcripts and presented Three- to 5-min speech segments immediately before and after each patient's immediate response to the therapist's interpretations

3, r = .57, p < .05). nificant (Case 1, r = .78, p < .01; Case 2, r = .54, p < .05; and Case each session (the number of sessions varied between 12 and 14). and Case 3, r = .25, p < .05). To gauge the cumulative impact of all three cases (Case 1, r = .54, p < .001; Case 2, r = .28, p < .01; a case-by-case basis. The resulting correlations were significant for plan compatibility ratings with residualized experiencing scores on The correlations between those hourly mean scores also were sigplan compatibility scores and residualized experiencing scores for pro- and antiplan interpretations across sessions, we averaged the mediate effects of pro- and antiplan interpretations, we correlated The data analysis was conducted as follows: To assess the im-

est percentage of proplan interpretations (50%). proplan interpretations, the patient with the second best outcome pist's interpretations. Among the three cases studied, the patient on patient progress in the manner prescribed by CMT. Proplan (80%), and the patient with the poorest outcome received the lowreceived the second highest percentage of proplan interpretations with the best outcome received the highest percentage (89%) of was related to the overall level of plan compatibility of the therations. There also was suggestive evidence that therapeutic outcome Decreases in experiencing tended to follow antiplan interpretainterpretations tended to be followed by increases in experiencing interpretations had both an immediate and a cumulative impact These results clearly demonstrate that the plan compatibility of

shifts in experiencing after transference and nontransference interpretations. For two patients, there were no significant differences in three ways. In the first analysis, t tests were used to compare transference versus nontransference interpretations were analyzed The data concerning the differential therapeutic effectiveness of

> a high negative correlation (r = -.81, p < .005) between transference and mean residualized experiencing. For the third case there was correlations between the proportion of transference interpretations ond analysis, the proportion of transference interpretations per sesencing scores. For two of the cases, there were no significant sion was correlated with the mean-per-hour residualized experimore experiencing after nontransference interpretations. In the secperiencing scores. For the third patient, there was significantly ence interpretations. The investigators concluded that plan comexperiencing after proplan transference and proplan nontransferanalysis, another series of t tests was performed using only proplan is incorrectly interpreted to be a manifestation of unconscious than nontransference interpretations. (If nontransference material this patient transference interpretations were far more antiplan interpretations and residualized experiencing, indicating that for between the two types of interpretations on the residualized expatibility of interpretations has a predictable therapeutic effect but tations. Again, there were no significant differences in residualized transference interpretations and proplan nontransference interpretolerate being left out of the patient's emotional life.) In the third transference feelings, the patient may feel that the therapist cannot ference interpretations does not. that the categorical distinction between transference and nontrans-

erential Activity Scale measures how well intellectual awareness is reliabilities of the judges' ratings ranged from .65 to .75. The Reftivity Scale to the same pre- and postintervention segments. The coefficient alpha rater reliabilities for the insight scales ranged from tion segments that had been previously rated for experiencing. The scribed earlier. Broitman (1985) had nine experienced clinicians aptwo additional measures of therapeutic progress to the study deintegrated with sensory and emotional experiences. .81 to .95. Bucci (1987) had three judges apply the Referential Ac-Insight Scale (Broitman, 1985) to the same pre- and postintervenply the seven Morgan (1977) Patient Insight Scales and a Global (Fretter, Bucci, Broitman, Silberschatz, & Curtis, 1994) that added The preceding findings were reinforced by subsequent research

tivity). The results were essentially identical to those previously two new measures of patient progress (insight and referential ac-The previously described data analyses were repeated using the

significant differences in patient progress after transference versus compared with plan-compatible nontransference interpretations showing more signs of progress after nontransference interpretanontransference interpretations were in the direction of patients' and referential activity (Case 1, r = .25, p < .05; Case 2, r = .32, p < .05) tions correlated significantly with residualized insight (Case 1, r =assigned to transference interpretations in psychoanalytic therapy challenge the special therapeutic importance that has often been insight or referential activity. These findings lend further support tions. When plan-compatible transference interpretations were .45, p < .01; Case 2, r = .32, p < .05; and Case 3, r = .35, p < .05) reported. The plan compatibility ratings of the therapists' intervento the explanatory and predictive power of the plan concept and (using t tests), there were no significant residualized differences in .05; and Case 3, r = .34, p < .05) for all three patients. The only

emotional meaning beyond what the patient had said, or that were the Mt. Zion Brief Psychotherapy Research Project for whom plan ville, Sampson, and Weiss (1996). They used seven patients from tions affects outcome in short-term therapy was obtained by Norhypothetical constructions. interventions that were explanatory in nature, that suggested an tions in Hours 1, 5, 8, 11, and 14. Interpretations were defined as tified all therapist statements that could be considered interpretaformulations had been prepared. Two judges independently iden-Evidence that the plan compatibility of the therapist's interven-

measure was developed by Nathans (1988; Silberschatz, Curtis, & outcome measure called "Plan Attainment." The plan attainment scripts and rated for plan compatibility by different sets of judges, therapy interview. The interrater reliabilities averaged .73 for the therapy interview, the patient's plan formulation, and the post-6-month follow-up interview. Each judge read the patient's prepatient for plan attainment at the conclusion of therapy and at the goals for therapy. Groups of four experienced clinicians rated each Nathans, 1989) to assess the degree to which patients achieve their each of whom worked independently. The reliability coefficients .83 to .92. Each patient also was evaluated on a patient-specific for the mean plan compatibility ratings for each case ranged from (who had 90% agreement) were extracted from the verbatim tran-All interventions identified as interpretations by both judges

> plan attainment ratings at the end of therapy and at the 6-month follow-up.

compatibility of therapeutic interpretations influences long-term as 6 months after termination. These results strongly suggest that plan with plan attainment at termination and .70 with plan attainment and at the 6-month follow-up. For the sample of seven cases, both well as immediate therapeutic outcome in brief psychotherapy. Plan compatibility of the therapist's interpretations correlated .69 correlations were significant at the .05 probability level (one-tailed). bility ratings with the global plan attainment scores at termination The data were analyzed by correlating the mean plan compati-

Conclusion

erned by considerations of safety and danger (the reality principle). to external reality. Our findings instead support a model of the governed by the pleasure principle, operates in accordance with support Freud's early conception of an unconscious mind that is and scientifically testing fundamental assumptions about the naducting rigorous, quantitative research on the therapeutic process unconscious that contains powerful adaptive motives and is govinstinctual impulses that continually seek discharge without regard primary process modes of thinking, and is dominated by primitive ture of unconscious motivation and thinking. Our findings do not The studies we have described demonstrate the feasibility of con-

of a treatment and used as a guide for understanding their testing conscious plans for mastery can be inferred from the initial sessions ogy stems from trauma-born pathogenic beliefs and that patients tances to treatment, our theory leads to a collaborative model of sical psychoanalysis, which leads one to focus on patients' resisinterpretations and interventions that fail their tests. Unlike clastervenes in proplan ways. Conversely, they are set back by antiplan therapy to the extent that the therapist passes their tests and inand formulating helpful interventions. Patients make progress in the therapist to disconfirm their pathogenic beliefs. Patients' ununconsciously make plans for mastering their problems by testing the therapeutic process in which the therapist works with patients Our research also supports the assumptions that psychopathol-

these things on their own (i.e., unaided by the therapist's interpretations, as long as the therapist passes their tests). their pathogenic beliefs. Moreover, they will strive to accomplish repressions, overcome their inhibitions, and acquire insight into hypotheses that patients are unconsciously motivated to lift their are trying to avoid. Our findings provide clear support for the ence of the therapeutic relationship than focusing on what patients what patients are trying to accomplish leads to a different experito pass their tests and support their goals. Giving consideration to

therapy). term therapy, individual and group therapy, and child and adult patients and a variety of therapeutic modalities (long- and shortour patients, correct for our mistakes, and be maximally helpful. tests. In this manner, the theory helps us stay closely attuned to are being pro- or antiplan and are passing or failing the patient's we use their responses to our interventions to gauge whether we stance that will help disconfirm patients' pathogenic beliefs, and To date, CMT has been successfully applied to a wide range of liefs that prevent their attainment. We then develop a therapeutic eses about our patients' therapeutic goals and the pathogenic befailed tests and pro- and antiplan interventions. We form hypothto the research designs we use to study the effects of passed and Control-mastery therapists follow their cases in a manner similar

ings with confidence would provide an additional basis for viewing our reported findsented will be replicated by other investigations. Such replications dence to support it. We hope that the research that we have prethe therapeutic process and has a growing empirical body of evi-Weiss et al., 1986). The theory leads to testable predictions about opment, psychopathology, and therapy (Weiss, 1971, 1990b, 1993; CMT provides an integrated model of mind, personality devel-

References

Broitman, J. (1985). Insight: The mind's eye—An exploration of three patients' processes of becoming insightful. Dissertation Abstracts International, 46. (University Microfilms No. 85-20425)

- Bucci, W. (1987). Instructions for scoring referential activity (RA) in transcripts of spoken narrative texts. Unpublished manuscript, Derner Institute, Adelphi University, Philadelphia.
- Bugas, J. S. (1986). Adaptive regression and the therapeutic change process chology, Menlo Park, CA. Unpublished doctoral dissertation, Pacific Graduate School of Psy-
- Bush, M., & Gassner, S. (1986). The immediate effect of the analyst's terical testing (pp. 299-320). New York: Guilford Press. Weiss, H. Sampson, & the Mt. Zion Psychotherapy Research Group mination interventions on the patient's resistance to termination. In J. (Eds.), The psychoanalytic process: Theory, clinical observation and empir-
- Caston, J. (1986). The reliability of the diagnosis of the patient's uncon-Research Group (Eds.), The psychoanalytic process: Theory, clinical observation and empirical testing (pp. 241-255). New York: Guilford Press. scious plan. In J. Weiss, H. Sampson, & the Mt. Zion Psychotherapy
- Caston, J., Goldman, R. K., & McClure, M. M. (1986). The immediate effects of psychoanalytic interventions. In J. Weiss, H. Sampson, & the cess: Theory, clinical observation and empirical testing (pp. 278-298). New Mt. Zion Psychotherapy Research Group (Eds.), The psychoanalytic pro-York: Guilford Press.
- Curtis, J. T., Ransohoff, P., Sampson, F., Brumer, S., & Bronstein, A. (1986). alytic process: Theory, clinical observation and empirical testing (pp. & the Mt. Zion Psychotherapy Research Group (Eds.), The psychoan-Expressing warded-off contents in behavior. In J. Weiss, H. Sampson, 187-205). New York: Guilford Press.
- Curtis, J. T., Silberschatz, G., Sampson, H., & Weiss, J. (1994). The plan formulation method. Psychotherapy Research, 4, 197-207.
- Curtis, J. T., Silberschatz, G., Sampson, H., Weiss, J., & Rosenberg, S. E. (1988). Developing reliable psychodynamic case formulations: An illustration of the plan diagnosis method. Psychotherapy, 25, 256-265.
- Dahl, H. (1978). A new psychoanalytic model of motivation: Emotions as appetites and messages. Psychoanalysis and Contemporary Thought, 1,
- Fretter, P. B. (1984). The immediate effects of transference interpretations tation Abstracts International, 46. (University Microfilms No. 85-12112) on patients' progress in brief psychodynamic psychotherapy. Disser-
- Fretter, P., Bucci, W., Broitman, J., Silberschatz, G., & Curtis, J. (1994). How Research, 4, 58-72. the patient's plan relates to the concept of transference. Psychotherapy
- Freud, S. (1953a). The interpretation of dreams. In J. Strachey (Ed. and work published 1900) mund Freud (Vol. 4, pp. 339-627). London: Hogarth Press. (Original Trans.), The standard edition of the complete psychological works of Sig-
- Freud, S. (1953b). Papers on technique. In J. Strachey (Ed. and Trans.), The standard edition of the complete psychological works of Sigmund Freud (Vol.

- pp. 83-171). London: Hogarth Press. (Original work published 1911-1915)
- Freud, S. (1953c). Papers on metapsychology. In J. Strachey (Ed. and work published 1914-1916) mund Freud (Vol. 14, pp. 105-259). London: Hogarth Press. (Original Trans.), The standard edition of the complete psychological works of Sig-
- Freud, S. (1964). Inhibitions, symptoms, and anxiety. In J. Strachey (Ed. inal work published 1926) Sigmund Freud (Vol. 20, pp. 257-269). London: Hogarth Press. (Origand Trans.), The standard edition of the complete psychological works of
- Gassner, S., Sampson, H., Weiss, J., & Brumer, S. (1982). The emergence of warded-off contents. Psychoanalysis and Contemporary Thought, 5,
- Gassner, S., Sampson, H., Weiss, J., & Brumer, S. (1986). The emergence clinical observation and empirical testing (pp. 171-186). New York: Guilchotherapy Research Group (Eds.), The psychoanalytic process: Theory, of warded-off contents. In J. Weiss, H. Sampson, & the Mt. Zion Psy-
- Gottschalk, L. A. (1974a). The application of a method of content analysis to psychotherapy research. American Journal of Psychotherapy, 28,
- Gottschalk, L. A. (1974b). Quantification and psychological indicators of emotions: The content analysis of speech and other objective measures of psychological states. International Journal of Psychiatric Medicine, 5,
- Gottschalk, L., & Gleser, G. (1969). The measurement of psychological states through the content analysis of verbal behavior. Berkeley: University of California Press.
- Holt, R. R. (1977). A method for assessing primary process manifestations and their control in Rorschach responses. In M. A. Rickers-Ovsiankina (Ed.), Rorschach Psychology (pp. 263-315). New York: Krieger.
- Horowitz, L. (1979). On the cognitive structure of interpersonal problems treated in psychotherapy. Journal of Clinical and Consulting Psychology,
- Horowitz, L. M., Sampson, H., Siegelman, E. Y., Wolfson, A., & Weiss, J. chology, 84, 545-558. (1975). On the identification of warded-off mental contents: An empirical methodological contribution. Journal of Abnormal Social Psy-
- Kasl, S. V., & Mahl, G. F. (1965). Disturbance and hesitation in speech. Journal of Personality and Social Psychology, 1, 425-433.
- Kelly, T. (1986). Voice stress measure and therapists' interventions. Unpub-
- Klein, M. H., Mathieu, P. L., Gendlin, E. T., & Kiesler, D. J. (1970). The experiencing scale: A research and training manual (Vols. 1 and 2). Madison, WI: Psychiatric Institute, Bureau of Audio Visual Instruction.
- Linsner, J. P. (1987). Therapeutically effective and ineffective insight: The im-

- New York, New York, NY. dynamic therapy. Unpublished doctoral dissertation, City University of mediate effects of therapist behavior on a patient's insight during short-term
- Mahl, G. F. (1956). Disturbances and silences in the patient's speech in psychotherapy. Journal of Abnormal Social Psychology, 53, 1-15.
- Mahl, G. F. (1959). Measuring the patient's anxiety during interviews from Science, 21, 249-257. "expressive" aspects of his speech. Transaction of New York Academy of
- Mahl, G. F. (1961). Measures of two expressive aspects of a patient's speech in two psychotherapeutic interviews. In L. Gottschalk (Ed.), (pp. 91-114). New York: International Universities Press. Comparative psycholinguistic analysis of two psychotherapeutic interviews
- Malan, D. H. (1963). A study of brief psychotherapy. London: Tavistock. Malan, D. H. (1976). Toward the validation of dynamic psychotherapy: A replication. New York: Plenum.
- Morgan, R. W. (1977). The relationships among therapeutic alliance, therapist facilitative behaviors, patient insight, patient resistance, and treatment outdissertation, University of Miami, FL. come in psychoanalytically oriented psychotherapy. Unpublished doctoral
- Nathans, S. (1988). Plan attainment: An individualized measure for assessing outcome in psychodynamic psychotherapy (Doctoral dissertation, California School of Professional Psychology, 1988). Dissertation Abstracts International, 49, 08B.
- Norville, R., Sampson, H., & Weiss, J. (1996). Accurate interpretations and brief psychotherapy outcome. Psychotherapy Research, 6, 16-29.
- Sampson, H. (1989). How the patient's sense of danger and safety influence the analytic process. Psychoanalytic Psychology, 7, 115-124.
- Shilkret, C., Isaacs, M., Drucker, C., & Curtis, J. T. (1986). The acquisition of insight. In Weiss, J., Sampson, H., & the Mt. Zion Psychotherapy vation and empirical testing (pp. 206-217). New York: Guilford Press. Research Group (Eds.), The psychoanalytic process: Theory, clinical obser-
- Silberschatz, G. (1978). Effects of the analyst's neutrality on the patient's tional, 39, 3007B. sertation, New York University, 1978). Dissertation Abstracts Internafeelings and behavior in the psychoanalytic situation (Doctoral dis-
- Silberschatz, G., & Curtis, J. (1993). Measuring the therapist's impact on the patient's therapeutic progress. Journal of Consulting and Clinical Psychology, 61, 403-411.
- Silberschatz, G., Curtis, J., & Nathans, S. (1989). Using the patient's plan to assess progress in psychotherapy. Psychotherapy, 26, 40-46.
- Silberschatz, G., Fretter, P., & Curtis, J. (1986). How do interpretations influence the process of psychotherapy? Journal of Consulting and Clinical Psychology, 54, 646-652.
- Weiss, J. (1971). The emergence of new themes: A contribution to the psy-Waite, T. (1993). Taken on trust. San Diego, CA: Harcourt Brace Jovanovich.

- choanalytic theory of therapy. The International Journal of Psychoanalysis, 52, 459-467.
- Weiss, J. (1989). The nature of the patient's problems and how in psycho-2, 105-113. analysis the individual works to solve them. Psychoanalytic Psychology,
- Weiss, J. (1990a). The centrality of adaptation. Contemporary Psychoanalysis 26, 660-676.
- Weiss, J. (1990b, March). Unconscious mental functioning. Scientific American, 103-109.
- Weiss, J. (1993). How psychotherapy works: Process and technique. New York: Guilford Press.
- Weiss, J. (1997). The role of pathogenic beliefs in psychic reality. Psychoanalytic Psychology, 14, 427-434.
- Weiss, J. (in press). The patient's unconscious plans for solving his prob lems. Psychoanalytic Dialogue.
- Weiss, J., & Sampson, H. (1986). Testing alternative psychoanalytic explaof psychoanalytic theories (Vol. 2, pp. 1-26). New Jersey: The Analytic nations of the therapeutic process. In J. Masling (Ed.), Empirical studies
- Weiss, J., Sampson, H., & the Mt. Zion Psychotherapy Research Group (1986). The psychoanalytic process: Theory, clinical observation and empir ical testing. New York: Guilford Press

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