

## THERAPEUTIC USES OF ADVENTURE-CHALLENGE-OUTDOOR-WILDERNESS: THEORY AND RESEARCH

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### **RUNNING HEAD: TherapeuticsTHERAPEUTIC USES OF ADVENTURE-CHALLENGE-OUTDOOR-WILDERNESS: THEORY AND RESEARCH**

#### **Overview**

One of the emerging theories of therapy that appeals to me as a psychologist has its roots in the work of Milton Erickson (1980) and is labeled 'utilization'. I believe the theory is very respectful of all persons whether they be patients or clients, normal or dysfunctional, acute or chronic, temporarily, or differently abled. The respect evolves from an attempt on the helpers part to co-create a treatment plan with the person who comes to the therapeutic situation in order to facilitate solutions to real or imagined problems. Such an approach might utilize a person's past exposure with therapy to find out what did or did not work and utilize that information in mapping a way to health. The therapist might also plan a strategy that involves paradoxical directives or absurd tasks to utilize a client's resistance. Whatever the strategy, the therapist is open to assessing what the person brings to the environment where therapy takes place in order for a co-creation to be successful.

My task is to utilize my knowledge of diagnosed populations who participate in outdoor learning experiences as part of a therapy prescription and identify some adequately documented key work as well as recurrent and forthcoming findings.

In a quest to "walk my talk" or "practice what I preach," I have attempted to utilize expertise from past writers on outdoor learning experiences in order to co-create with them a list of what we know and what we need to know about my topic. I chose not to bore you with an evaluation of past research attempts that suffer from a lack adequate control groups, follow-ups, sample sizes, or other threats to both internal and external validity. I believe writings by Bandoroff (1990), Burton, (1981), Ewert (1987, 1989), Levitt (1982), and Shore (1977) as well as others cover a substantial amount of information on research into outdoor pursuits that includes references to therapeutic populations. The writings of Bacon (1983, 1987, 1988; Bacon & Kimball, 1989), Chase (1981), Gass, (1991), Kimball (1983, 1991), Haussman (1984), Roland, (Roland, et al., 1987), Schoel, Prouty, & Radcliffe, 1988; Stich (1983; Stich & Gaylor, 1983), and Witman, 1989 have also contributed significantly to this field. These writings are highly recommended by those seeking such research evaluation. I have chosen to limit my review to the past decade including the reviews mentioned above and additional work drawn from recent (1980-1991) available abstracts, articles, and documents obtained from CD-ROM and DIALOG searches of [ERIC](#), [PsychLit](#), and [Dissertation Abstracts International](#). I have also attempted to limit my search to empirical articles that specifically work with a population that would meet DSM-III-R (American Psychiatric Association, 1987) criteria or theoretical articles I judged to contribute to understanding or furthering the field of therapy in outdoor learning situations. I have also chosen to apply Kazdin's (1991) definition of

psychotherapy to my reading of our field. It states that

psychotherapy is ... an intervention to decrease distress, psychological symptoms, and maladaptive behavior or to improve adaptive and prosocial functioning. These ends are sought primarily through interpersonal sources of influence such as learning, persuasion, counseling, and discussion integrated into a specific treatment plan. The focus is on how clients feel (affect), think (cognition), and act (behavior). (p. 785)

As most of you know, comprehensive searching of this field is difficult and I apologize at this point for intentionally or unknowingly leaving out or including an article that you feel is worthy or unworthy. My aim is to be as inclusive as possible. This paper may be more global than you are wanting, but it is my goal to try to work within a realistic boundary. I also recognize that having realistic and clear boundaries is a goal many of us as therapists have with the clients and families with whom we practice. By defining my agenda, I hope to make a contribution to the field. (Have I covered all my bases?)

## Research Critique

The thrust of my article is to apply research critiques from the field of psychotherapy onto my topic area. For this I will make use of recent review work by Gelso and Fassinger (1990); Goldfried, Greenberg, and Marmar (1990); and Kazdin (1991). I wish to use selected recommendations they have made for research on psychotherapy as a guide to evaluate and advocate improvements in our field.

First, there are a variety of forms of what can be labeled as 'psychotherapy.' Our field also suffers from definition problems as others (Roland, Keene, Dubois & Lentini, 1988) have noted. The novice and experienced reader is faced with various terms such as adventure therapy (e.g., Gass, 1991; Stich & Senior, 1984), adventure-based counseling (Maizell, 1988; Shoel, Prouty, & Radcliffe, 1988), experiential-challenge (Roland, Summers, Freidman, Barton, & McCarthy, 1987), outdoor-adventure pursuits (Ewert, 1989), therapeutic adventure programs (Wichmann, 1991), therapeutic camping (Rice, 1988; Walton, 1985), wilderness therapy (e.g., Bacon & Kimball, 1989; Berman & Anton, 1988; Levitt, 1982), and wilderness-adventure therapy (e.g., Bandoroff, 1990) to name the primary labels attached to what many of us do. Our field also uses different environments (e.g., camps or wilderness settings) and activities (e.g., traditional residential camp activities, rock climbing, cross country skiing, and ropes courses). It is even difficult to limit this field to what takes place only in the out-of-doors, since many writers (myself included, i.e., Gillis & Bonney, 1986, 1989) are bringing activities from outdoor settings into traditional psychotherapy settings. But we should not be held up in settling on one name or label.

Ewert (1987, 1989) notes a "theme" of therapeutic intervention "subsumed" in research on outdoor pursuits. He, along with others, cites global findings such as improved self concept, social attitudes, and behavior along with reduced emotional problems as evidence of (implied therapeutic) effectiveness. However, there still does not appear to be one clearly defined and researched method of conducting psychotherapy in outdoor learning experiences, in wilderness adventure settings, or in using adventure-based activities that can be assessed for effectiveness. To correct this problem, we need specific treatment manuals, such as those required in training grants by the National Institute of Mental Health (NIMH) (Goldfried, Greenberg, and Marmar (1990), to provide protocols of psychotherapy. To gain respect in the research field and also provide practitioners with "how-to-guides", these protocols need to spell out exactly what is done in therapy. Such guides will allow for replication and can be assessed quantitatively for effectiveness. In addition qualitative evaluation can offer an understanding of how these programs work with homogeneous diagnostic populations while being compared with (a) no-treatment control groups, (b) traditional methods of working with similar populations, (c) alternative methods of doing the same thing, and (d) different personality types experience levels of leaders, including both formally and on-the-job trained. If such training manuals are developed, they need checks and balances to insure treatment integrity (through supervision and video-taped sessions) (Kazdin, 1991). Such specificity, coupled with research, may be able to (a) revitalize the experiential tradition of psychotherapy, which according to Goldfried, Greenberg, and Marmar (1990) is "either in danger of becoming extinct, or ... (of) being absorbed by other approaches" (p. 666), (b) gain more recognition and respect among traditional psychotherapy researchers and practitioners, and (c) contribute significantly to the advancement and integration of our field with traditional psychotherapy. It is difficult, however, to envision how such extensive training manuals will be developed and evaluated across populations and therapists unless some of our larger organizations (e.g., Outward Bound and Project Adventure) fund such an in-house endeavor or some person or team of persons is federally or privately grant funded to be able to afford the time and energy necessary to carry out such an enormous project.

Secondly, our field, like that of psychotherapy, has used (a) diverse measures (e.g., self-report and behavioral measures), (b) various environments (mentioned above) and activities (Rohnke, 1984, 1988, 1989, 1991), and (c) different levels of participant functioning (i.e., fully and differently abled (e.g., Ewert, 1989; McAvoy, Schatz, Stutz, Schleien, & Lais, 1989; Robb & Ewert, 1987; Roland, 1982); inpatient (e.g., Berman & Anton, 1988; Stich & Senior, 1984; Voight, 1988) and outpatient (Berman & Davis-Berman 1989), assessed at different times (pretest posttest, and follow-up) for different lengths of treatment (Bandoroff, 1990, Burton, 1981, Ewert, 1987, Levitt, 1982, and Shore, 1977). As Kazdin (1991) notes, the use of different and multiple measures, at different times, for different definitions results in alternative outcome criteria to decide what indeed does work.

Randomized clinical trials comparing treatment and control groups or alternative treatments on outcome measures have dominated the psychotherapy research. Such research has continued to be controversial due to "no-difference" findings which may be related to a lack of statistical power (i.e., small sample sizes and "weak" assessment instruments) (Kazdin, 1990) when assessing how findings among solicited clients in clinical laboratory settings at major research universities impact day-to-day practitioners whose clients often solicit them (Goldfried, Greenberg, & Marmar, 1990). For traditional psychotherapy, the use of regression techniques for targeting treatment-relevant patient attributes instead of analysis-of-variance research designs is suggested to move beyond the "no-differences" findings. More field based research is also called for to make laboratory findings more practically relevant.

Due to cost, time consumption, comparable outcomes of various treatments, and internal and external validity issues, such outcome research is slowly giving way to the study of process as it relates to outcome in psychotherapy. Even global meta-analysis has fallen by the way in psychotherapy research and is being reserved only for specific populations or treatment approaches. A focus on significant change events in psychotherapy and a data base for collecting results of therapy (as Ewert, 1987, 1989 suggest a database for research in our field) across different therapists is currently seen as a more fruitful avenue for researchers to contribute to practitioners (Goldfried, Greenberg, & Marmar, 1990).

Another evaluation criteria we should consider is offered by Jacobson and Truax (1991). They coined the term "clinical significance" to describe the ability of an approach or model to impact an individual's level of functioning following treatment so that they would (a) fall outside of the range of dysfunction, (b) fall within the range of the normal population, and (c) be closer to the mean of the normal population than the dysfunctional one.

Research specifically on therapeutic populations in adventure-challenge-outdoor-wilderness programming is subject to many of the same criticism documented for other populations. These are the general lack of randomization, the use of non-equivalent control groups and "in-house" evaluations, and the lack of adequate follow-ups, resulting in generally positive but contradictory findings (e.g., changes in self-report measures but no-differences in behavioral measures) (Bandoroff, 1990; Burton, 1981; Ewert, 1987, 1989). It would however be difficult to criticize our research for lack of a field base since it appears nearly all of it is conducted within the natural (outdoor) environment. We, like our fellow sojourners in traditional group approaches to counseling (Gelso & Fassinger, 1990) could be criticized for a narrow focus on outcome measures and research designs that utilize t-test and ANOVA evaluations instead of regression models for predictors of success (Goldfried, Greenberg, & Marmar, 1990). Such models are beginning to emerge in recent dissertation work, (c.f., Rice, 1988; Wichmann, 1990) where relationships between predictors variables and dependent variables has yet to be firmly established (c.f., Gibson, 1981).

Our field could benefit from both a global and specific meta-analysis of existing research on diagnosed populations instead of the numerous annotated bibliographies mentioned by Ewert (1987, 1989). Such an analysis might add credibility to our field especially if augmented by Jacobson and Truax's (1991) clinical significance criteria. We could also benefit from using our randomized treatment versus placebo controlled studies to identify how an approach works instead of whether it is effective as noted by Parloff (cited in Goldfried, Greenberg, & Marmar, 1990).

Thirdly, and most related to the goal of this paper, Kazdin believes the real question for psychotherapy research is best summed by a quote from Paul (cited in Kazdin, 1991) who asks "**What** treatment, by **whom**, is most effective for **this** individual (group/family in many of our cases) with **that** specific problem, under **which** set of circumstances?" (p. 786) The **what** question is difficult to answer due to the definition problem mentioned above. With respect to Bacon (1983, 1987, 1988, Bacon & Kimball, 1989), Gass (1991), Project Adventure (Shoel, Prouty, & Radcliffe, 1988), Roland (Roland, et al. 1987) and Wichmann (1991) there still does not appear to be a clearly stated and consistently tested method of how to conduct psychotherapy in our field. Perhaps the models just mentioned might fit well into Bacon's

(1987) division of three different adventure programming models: (1) "mountain speak for themselves", (2) "Outward Bound Plus", and (3) "metaphoric". But, as mentioned earlier, comparisons among well documented models need to be tested. One wonders, however, even if treatment integrity is insured, if such comparisons will only reveal the same "no-difference" results (e.g., Gillis, 1986) found in psychotherapy research (Goldfried, Greenberg, & Marmar, 1990; Kazdin , 1991). Our focus should be on how they work and with whom.

The "by **whom**" question is also difficult since training manuals do not exist nor has any research been found that assesses therapist competency in our field by comparing experienced versus novice therapist or formally trained versus on-the-job/"naturally" trained therapist. My hypothesis, based on experience training traditional counselors and adventure-based counselors, is that our field would find (as does psychotherapy) that "some therapist are better than others - regardless of training" (Goldfried, Greenberg, & Marmar, 1990, p. 663). But we need to test this ourselves instead of just debating the needs and merits of traditional psychotherapy training as a prerequisite to doing psychotherapy outdoors.

The effectiveness for different individuals, groups, and even families with specific diagnosis, under different circumstances and environments is probably the most interesting (and most difficult) question to many of us. As seen in Table 1 there have been numerous studies with different diagnostic populations since 1980 although the preponderance of delinquent studies remains. We must note the addition of programs with couples and families in this table as well as diagnostic specific groups such as victims of rape and incest. The lack of repeated studies on similar populations is also obvious from viewing the table.

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 Insert Table 1 about here  
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Further reading will reveal that measurement continues to be focused on global outcome changes without looking specifically at the process of such change or the context in which the change occurred. As Ewert (1990) noted in "revisiting" self esteem in outdoor settings, rock climbers feelings of self esteem related to climbing skills did not transfer to more global feelings of valuing themselves. He feels the findings were mediated by feelings of competence in self. However the question remains whether global changes in self esteem or other commonly measured outcome attitudes in our field translate to specific therapeutic context of persons in various diagnostic categories, who may also be of different (e.g. in gender, race, class, or national origin) than has been the norm for our field.

More extensive and focused review studies are needed at the depth of Bandoroff's (1990) review of 42 studies on conduct disordered/delinquent populations. I would like to briefly touch on Bandoroff's major findings as an example of what can and needs to be done in this field. Consistent support was found for (1) changing self perception of participants to become more realistic, (2) changing social attitudes towards others to become more positive and increasing participant's sense of belonging, and (3) lowering recidivism rates despite definition problems among researchers as to just what constitutes recidivism. Secondly, Bandoroff noted inconsistent findings among variables such as locus of control, problem solving, behavior change, durability of change, and finding a group of delinquents for which adventure therapy works best (e.g., first offenders or repeat offenders). His review ends with many of the same recommendations made in this presentation including the need to know what is causing the therapeutic effects: program elements or instructor variables. I agree with Bandoroff that process evaluation of the delinquent/conduct disordered diagnostic category is sorely needed in this field. Hopefully more researchers will build on Bandoroff's analysis and recommendations for this population and expand their work into specific adult diagnostic groups as well as populations such as couples, families, and the elderly.

**Recommendations**

My attempt at contributing has been to overlay criticism and forecasting in the field of psychotherapy onto our field. The results have been that although we may fall behind in sheer numbers of studies, many of the trends in psychotherapy research offer helpful suggestions to guide further research. My recommendations include the following:

1. Someone needs to conduct a meta-analysis on therapeutic aspect of adventure-challenge-outdoor-wilderness that includes the criteria of clinical significance along with traditional methods of effect size.
2. Instead of spending time agreeing on a particular term or phrase to describe what we do, let's put energy in writing specific how-to training manuals that can be shared, and tested using quantitative and qualitatively methods with research designs focused on multiple measures and predictor models. The models need to be tested on across numerous homogeneous diagnostic populations and in multicultural settings to better understand their strengths (when indicated) and limitations (when contraindicated).
3. As one or more models emerge that show some research promise, training issues can be addressed to better understand how to teach traditionally trained psychotherapist to do whatever it is we do and how to ethically train experientially based outdoor leaders and paraprofessionals to work in our powerful manner.
4. Our writing needs to be more easily available to one another through an agreement to share resources and reference one another. Perhaps a common accessible database of theoretical information will allow dissertations to move beyond traditional pre-post, treatment-control, outcome designs and offer more information on how and with whom, what(ever) we do, works.
5. Finally we need to also focus on sharing what we do with traditional therapists in traditional psychotherapy journals and at the traditional therapists' regional and national conferences. Such sharing may lead to our theory, practice, and findings being cited more in traditional reviews of drug prevention (e.g., Tobler, 1986) and the treatment of juvenile offenders (Basta & Davidson, 1988).

## Summary

Following the presentation of ideas from this paper, a discussion ensued over my recommendation that someone write down exactly how they conduct adventure therapy in order for others to replicate that method. The term 'cookbook' was brought into the discussion to describe what some in the audience apparently perceived as being told **the** way to do adventure therapy as opposed to **a** way of conducting adventure therapy that could then be replicated in different parts of the country with different populations in order to test the efficacy of a model.

Building on the cookbook metaphor, some in the audience noted that a cook will closely follow a recipe until they are accomplished at what they do and then will deviate and experiment with ingredients to fit their particular preferences and taste. Others wanted to know just what level of detail would be included in an adventure therapy cookbook and how could one model be appropriate to the nuances of different populations under different situations with different dynamics. A suggestion made from the audience that I feel was very practical in helping the replication issue asked that writers in our field, limited by journal editors to briefly describing their particular procedure, offer to provide the reader with a more detailed description of exactly what activities were done with the population and the type and nature of the group discussion that accompanied the activities or experiences.

Integrity, credibility, and reliability are the cornerstones for an effective therapeutic adventure program. It is my hope that this paper and the ensuing discussion will be "food for thought" (pun intended!) for more fruitful research and practice of adventure therapy.

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**Table 1**

**Author Date Diagnosis Population**

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**Banaka &** Chronic Adult

**Young** 1985 Psychiatric

Inpatient

**Bandoroff** 1992 Delinquent Adolescents &

their Families

**Boudette** 1989 Delinquent Adolescent

**Berman &**

**Anton** 1988 Inpatient

Psychiatric Adolescent

**Callahan** 1989 Delinquent Adolescent

**Clagett** 1989 Delinquent &

emotionally

disturbed Adolescent

**Clapp &**

**Rudolph 1990** Outpatient Families

**Creal &**

**Florio 1986** Inpatient Adolescents &

their Families

**Davis-**

**Berman & 1989** Outpatient

**Berman** acting out Adolescent

**Deal 1983** Alcoholics Couples

**Duhaime 1982** Learning-

Disabled Adolescent

**Freed 1991** Emotionally-

impaired Adolescent

**Freeman,**

**et al. 1982** Behavioral

problems Children

**Gass & 1990** Substance

**McPhee** Abusers Adolescent & Adult

**Gaus 1981** Delinquent Adolescent

**Gerstein &**

**Rudolph 1989** Non-distressed Families

**Gibson 1981** Delinquent Adolescent

**Gillis 1986** Non-distressed Couples

**Goodwin &**

**Talwar 1989** Incest victims Adult

**Kirpatrick 1983** Alcoholics Couples

**Gugino 1987** Delinquent Adolescent

**Kjol &**

**Weber 1990** Sex offenders Adolescent

**Kuhn 1982** Behavior

disorders Adolescent

**Maizell 1988** Delinquent Adolescent

**Mason 1980** Non-distressed Couples

**McAvoy . 1989** Fully &

**et al** Differently Abled Adult

**McClung 1984** Inpatient

psychiatric Adult

**Minor 1988** Delinquent Adolescent

**Nunley 1983** Delinquent Adolescent

**Nurenberg 1985** Borderline Adolescent

**Pfirman 1988** Rape

Victims Adult

**Rice 1988** Delinquent Adolescent

**Sakofs 1991** Delinquent Adolescent

**Roland &**

**Hoyt 1984** Physically Adolescents &

disabled their families

**Schwartz 1983** Emotionally

disturbed Children

**Stich &**

**Sussman 1981** Inpatient

psychiatric Adult

**Walton** 1985 Inpatient Adolescent

**Weeks** 1985 Delinquent Adolescent

**West** 1989 Emotionally

disturbed Children

**Wichmann** 1990 At-risk Adolescent

**Witman** 1989 Inpatient

psychiatric Adolescent

**Wright** 1982 Delinquent Adolescent

**Ziven** 1988 Inpatient

psychiatric Adolescent

**Zwart** 1988 Delinquent Adolescent