

Transtheoretical Model (TTM) of Change 1

TRANSTHEORETICAL MODEL (TTM) OF CHANGE AND THERAPEUTIC RECREATION

RCLS 445 Theory Paper

Transtheoretical Model (TTM) of Change and Therapeutic Recreation

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Abstract

An overview of the origins, evolution, debate, and current applications relevant to the Transtheoretical Model (TTM), also known as Stages of Change (SoC). Includes some of the debate about the viability, or argued lack thereof, for programs based on the TTM in any setting. The paper also includes suggestions for the potential relevance this model may have in the development and use of recreation education and therapeutic recreation interventions. Additionally, this paper includes some examples of potential implementations based on the TTM / SoC approach.

The inherently flexible and diverse nature of the Therapeutic Recreation field draws upon many other knowledge and professional domains, including psychological counseling theories and practices. One theory currently used in a number of counseling areas, is the Transtheoretical Model (TTM), also known as Stages of Change (SoC). Based on the existing research published in diet, exercise, and substance abuse counseling journals, there are a number of indicators that the TTM / SoC may be useful as a guide for leisure and physical education (Ciccomascolo and Riebe, 2008) and recreation therapy program development and implementation, and may be relevant in predicting success rates in conjunction with "grit" for moderate to higher levels of challenge. (Reed, Pritschet, and Cutton, 2012)

Though the use of the TTM / SoC is not without some detractors (West, 2005), many programs, including government agencies utilize the model in their publications (HHS, 1999), and some programs in other countries as recently as 2013. (Jones, Jancey, Howat, Dhaliwal, Burns, McManus, Hills, and Anderson)

Using the TTM as a guide from a TR perspective, it may be possible to develop a graduated series of role-playing gaming interventions for various populations.

The roots of the TTM could arguably be traced as far back as the earliest stages of psychiatry and psychology, beginning with Freud's

psychoanalytic approach, Jung's analytical psychology, and Rogers' humanistic approach "a relationship encompassing empathy, genuineness, and respect" (Carl Rogers 1957, Stumbo & Wardlaw, 2011, p. 117), developing the idea of a need for trust and respect in the client/therapist relationship as an important, though research shows not completely sufficient, component in a client's recovery prospects. (Stumbo & Wardlaw, 2011, p. 117)

Building upon five theories of helping, psychoanalytic, behaviorist, cognitive-behavioral, growth psychology, and positive psychology (Stumbo & Whitman, 2011, p. 116) as a beginning continued to take shape with "common factors" (Frank, 1973; Lambert, 1992; Weinberger, 1995; Stumbo & Whitman, 2011) the TTM model was evolving as a distinctly specific theory in the 1980's (Prochaska & DiClemente, 1982, 1983, 2005), progressing towards substantiation and subsequent publications by Prochaska, DiClemente, & Norcross, and others, with ongoing implementations based on the model published as recently as 2013 (Jones, Jancey, Howat, Dhaliwal, Burns, McManus, Hills, Anderson).

While TTM does not actually provide any specific techniques of implementation, it can provide a template for processes that can be used in a variety of therapeutic modalities, that map well to the stages of change addressed within the theory. Stumbo & Wardlaw (2011)

provide an example of a specific therapy that has been developed using the TTM to help clients achieve measurable change, with the Motivational Interviewing (MI) approach. (pp. 119-121)

There have been some detractors of the TTM/SoC model, claiming that it is too linear, assumes too much clarity of forethought by the clients, is too arbitrary in boundaries between stages, that the stages are of such divergent construct types they do not integrate coherently, that it ignores motivational underpinnings, and is ineffective in making accurate predictions. (West, 2006)

In the same above cited letter to the journal editor, while arguing against the continued use of TTM/SoC, Robert West points out just how widely used the model is for just one area of focus, for smoking cessation and other substance abuse "of 540 articles found in PubMed using the search phrase 'stages of change', 174 also had 'smoking' in the abstract or title, 60 had 'alcohol', seven had cocaine, two had 'heroin' or 'opiate' and one had 'gambling'."

The Stumbo & Whitman, claim that "TTM is the most popular health-behavior-change theory in the health literature", (2011, p. 131) and in the process of researching this paper, many stage-based interventions were easily found to be published, though many seemed focused on physical exercise and substance use/abuse cessation.

Despite the ongoing debate, the TTM/SoC model is frequently used

for dietary and physical exercise compliance (Durstine, Painter, Franklin, Morgan, Pitetti, and Roberts, 2005; Jones, et al, 2013), and has become standard for use in many substance abuse programs. (HHS; Prochaska, 2006)

While counseling techniques are important and useful for therapeutic recreation professionals, it is important to note however, according to Stumbo and Whitman (2011), there is a distinct difference between leisure education and leisure counseling. Leisure education has a specific and predetermined content, while the focus of which problems to address in counseling "... originates from the individual client."

Lambert (1992) claimed the greatest factor in predicting a client's compliance and success with therapy is "preexisting client qualities (such as length of time and level of impairment)." (Stumbo & Whitman, p. 117)

A favorite quote of this author is from the TR Introduction textbook by Austin & Crawford, "Holistic medicine ... treats the person rather than the disease. ...concern lies with the 'whole person' and with permitting individuals to assume self-responsibility for their own health (Austin 1999), Ardell (1977) ... Whereas illness is the sole concern of traditional medicine, well medicine deals with wellness or health promotion." (page 6, Austin/Crawford). The TTM addresses this

approach as a multi-facted model that "harnesses knowledge about specific ways that people change (change processes), based on different levels of readiness to change (stages of change), while attending to relationship factors best suited for differential readiness to change." (Stumbo & Whitman, p. 118), with the stages of change really being client-centric in their definition.

Prochaska et al. (1992) initially defined five stages in the Transtheoretical Model of Change, later adding Termination as a sixth stage. (Prochaska & Norcross, 2001) These six stages are Precontemplation, Contemplation, Preparation, Action, Maintenance, and Termination.

In the Precontemplation stage, the client is unaware in part or in whole of any need for change. (Stumbo & Whitman, 2011, p. 118)

When the client is in the Contemplation stage, the client is aware of issue(s) and the possible need for change, but has not yet taken any action, typically the RTS might in this stage encourage the client to explore and choose his/her own options. (Prochaska & Norcross, 2001)

While in the Preparation stage, the client is aware there is an issue, understands the need to take action, and has made some preliminary plans toward taking action relevant to the desired outcomes. At this stage the RTS could assume the role of a coaching

relationship, providing guidance and ideas at regular intervals.

(Prochaska & Norcross, 2001)

Once the client is in the Action stage, to various degrees, this is the stage when the client actually engages in the activities necessary to cause change towards the desired outcomes. At this stage, the RTS may be directly engaged, or may step aside and act more in a consulting role. This is the most clearly obvious stage for the client, but the TTM viewpoint states that this stage would not be possible without the previous stages first taking place to some degree. (Stumbo & Whitman, 2011, p. 118).

At some point the client achieves the Maintenance stage, the TTM view is that just as clients are variable in mood and drive to get to the first 4 stages, maintaining the activity over time will likely have variability as well. The RTS provides contact information to the client, and encourages the client to utilize the RTS in an ongoing consultation role as needed.

Though Robert West (2006) argues that the TTM is too linear, and while the TTM/SoC are considered to flow more effectively when performed in a more linear fashion, the TTM does allow for the non-linear nature of individuals' motivation and action levels, due to people's variability in drive and behavior, allowing that there will be ups and downs, setbacks, and unforeseen challenges. The TTM allows

for cycling through stages to varying degrees.

An Example of a Theoretical Application Using Graduated Role-Playing
Game Formats for At-Risk Youth and Young Adults

As a theoretical application of the TTM, the following series of recreational activities are proposed to address a population of at-risk youth, and/or juveniles in the legal system, that may have issues with aggressive behavior, maladaptive problem solving approaches, or other antisocial issues. The intervention considered is a series of graduated role-playing game (RPG) variants with specific adventure scenarios focused on alternative approaches to problem solving rather than resorting to violence, crime, or other anti-social behavior.

In the precontemplation stage, the client does not initially really see a reason, need, or have any desire, to address currently maladaptive problem-solving skills, but it may be "on the radar" due to recent encounters with law enforcement (or other authorities), indicating there might be something that needs addressing, however the client does not yet have any intention to make an effort to change his/her current behavior. In this stage, it is recommended that the RTS act as a guide, emulating a trusted individual who helps the client consider options (Prochaska & Norcross, 2001), introducing the client to the concept that there might be other approaches to

problem solving that could be more productive toward clients' intended long-term life goals (moving out of parents/guardian home, having own residence, getting a job, staying out of jail, having opportunities for travel, purchasing and maintaining an automobile, etc.), and that various forms of role-playing games may be able to help the client learn more constructive approaches.

As the client increases awareness in the Contemplation stage, the client may have been "nudged" into this stage by receiving a warning from school that they face potential suspension, or received an edict for court ordered fines/restitution/service, to address behavioral issues within the next 6 months. Though the client may be angry, the RTS could provide some positive motivators to consider using role-playing games to improve the current stress situation. If the client already enjoys video games or adventure movies, the RTS could introduce the client to solo problem-solving-centric computer-based role-playing games, then graduate towards some socially cooperative computer RPGs (MUSH, MUD, MMORPG, etc.). The RTS could also discuss the ideas of tabletop and live-action role-playing (LARP) gaming for consideration "down the road" to further refine their basic problem solving skills that will be introduced in computer-based RPG, as well as the positive physical outlet and exercise.

Once the client acknowledges that something needs to be done, now in the Preparation phase, and agrees to some of the suggestions by the RTS, the therapist can help the client create a proposed schedule, devise acquisition of resources, and establish some specific goals, first with computer-based RPG, then migrating toward tabletop RPG, and LARP.

Now that the client has "buy in" and is willing to take action, the RTS facilitates the client, engaging the client initially with controlled solo computer-based RPG with specific problem-solving scenarios. The client is guided through processing what was learned from different outcomes of various adventure scenarios as each is completed, building on these introductory skills with increasingly challenging adventures, and may later be introduced to online variants, interacting with other player characters, experiencing the consequences of solo-versus-cooperative play (the client learns he/she can't complete the quest or beat the "Boss" without help and ideas from others), and the increasing need for others to help the client achieve more challenging (and more rewarding) goals.

At the appropriate time, the RTS introduces the client to tabletop RPG, maybe at first just as a one-on-one with the RTS acting as Game Master / Game Facilitator, and then later with a larger group of 3 to 6 other players. Using what was previously learned as

concepts in RPG (creation of a character, rules for resolution of action, approaches to problem solving, etc.), the client now engages in a fully local (rather than online, in-person, social situation, working to cooperatively achieve mutual and personal goals. Beginning at first with simpler adventure challenges, but gradually increasing the challenge, and subsequent rewards realized within the game setting.

Finally, when the client has shown significant improvement in individual and socially cooperative problem-solving skills, the RTS introduces the client to Live-Action Role-Playing (LARP), either combat/action-centric, or drama-centric (non-combat) style, depending on propensities, physical coordination abilities, behavioral control, and the individual interests of the client, engaging in even more socially complex cooperative and competitive scenarios.

In the Maintenance stage, the client continues to iterate between computer-based, tabletop, and live-action, role-playing gaming as appropriate to client needs and success levels. The RTS will help the client realize and illustrate all that he/she has learned, guiding the client to see the "social liberation" that his/her "social norms are changing in the direction of supporting the healthy behavior change" (Stumbo & Whitman, 2011, p. 133), by having the client explain to the RTS, and potentially other participants,

what he/she has learned through the process, what worked well, what did not, what was more motivating, and what was discouraging. Using the clients own feedback, the RTS would help the client develop an ongoing maintenance schedule for sustaining the current levels of progress, and potential continued growth, through regular gaming group sessions, established schedules, etc.

At some point the client may reach the Termination stage, when the legal, educational, social, physical, financial, health, or other issues have been resolved in one form or another, and the client may no longer have the external pressures to engage in the activity, the client may choose to continue on his/her own for the enjoyment and intrinsic motivation towards growth, or the client may choose to discontinue the activities, either abruptly or gradually over time, without the external forces if the motivation was mostly extrinsic.

References

- Austin, D. R., Crawford, M. E. (2001). *Therapeutic Recreation, An Introduction. Third Edition.* Needham Heights, MA. Allyn & Bacon.
- Ciccomascolo, L., & Riebe, D. (2008). Stages of Change and Physical Education Assessment. *Journal of Physical Education, Recreation & Dance, 79.1.* 13-15.
- Durstine, J.L., Painter, P., Franklin, B.A., Morgan, D. Pitetti, K.H., & Roberts, S.O. (2000). Physical Activity for the Chronically Ill and Disabled. *Sports Medicine, 30 Issue 3.* 207-219.
- HHS Center for Substance Abuse Treatment. Abuse and Mental Health Services Administration. (1999). *Enhancing Motivation for Change in Substance Abuse Treatment. Treatment Improvement Protocol (TIP) Series, No. 35.* HHS Publication No. (SMA) 12-4212. Rockville, MD. Retrieved May 17, 2014, from <http://www.ncbi.nlm.nih.gov/books/NBK64967/pdf/TOC.pdf>
- Jones, C., Jancey, J., Howat, P., Satvinder, D., Burns, S., McManus, A., Hills, A.P., & Anderson, A. S. (2013). Utility of Stages of Change Construct in the Planning of Physical Activity Interventions Among Playgroup Mothers. *Western Australian Centre for Health Promotion Research, School of Public Health, Curtin University, Western Australia, Perth, Australia BMC Research*

Notes, 6. 300.

Prochaska, J. (2006). Moving Beyond the Transtheoretical Model.

Addiction, 101 Issue 6, 768-774.

Publication Manual of the American Psychological Association (5th

ed.). (2005). Washington, DC. American Psychological

Association.

Reed, J., Pritschet, B. L., & Cutton, D. M. (2012). Grit,

Conscientiousness, and the Transtheoretical Model of Change for

Exercise Behavior. *Journal of Health Psychology*, 18. 612.

Stumbo, N. J., & Peterson, C. A. (2009) *Therapeutic Recreation*

Program Design, Principles & Procedures. Fifth Edition. San

Francisco. Pearson Benjamin Cummings.

Stumbo, N.J., & Wardlaw, B. (2011). *Facilitation of Therapeutic*

Recreation Services, An Evidence-Based and Best Practice

Approach to Techniques and Processes. State College, PA. Venture

Publishing.

West, R. (2006). The Transtheoretical Model of Behaviour Change and

the Scientific Method. *Addiction*, 101 Issue 6 (Letters to the

editor), 774-779.