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Beliefs about Addiction, Locus of Control and Relapse Proneness in Persons with Substance Use Disorders (PSUD's)

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Preface

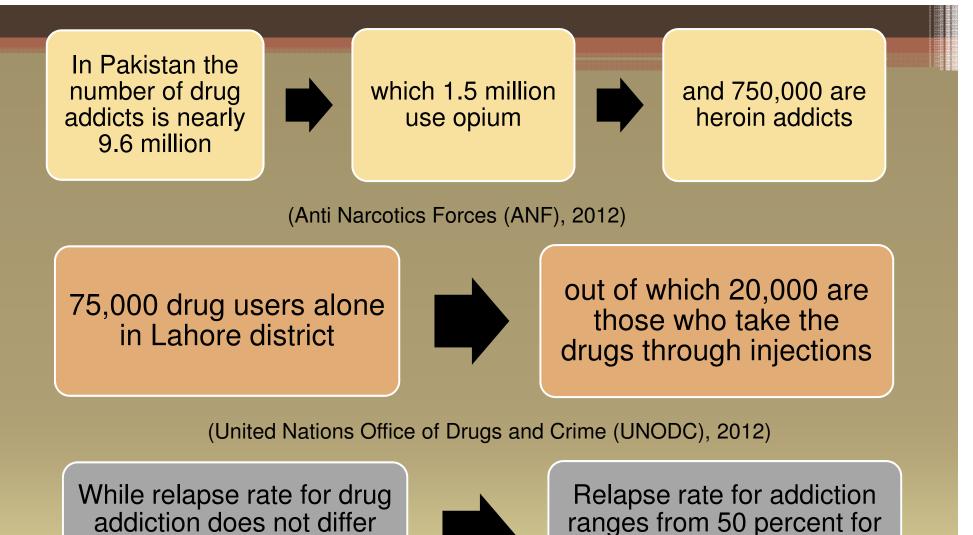
When I first started working in the field of drug addiction, I had trouble figuring out how the various perspectives in this extensive field fit together. I felt like it was a whole paradigm shift from the concept of street addicts to users belonging to the noble families, having history of bright careers.

I realized that the missing piece in my perspective was a focus on the science of drug addiction. Putting aside the social context the perspectives about addiction among drug abusers played a significant role.

PSUDs (persons with substance used disorder) reported their experiences regarding beliefs of counselors and how their own beliefs regarding addiction changed based on their counselors' beliefs.

This Study: aims to understand beliefs about addiction and drug use, perception regarding control in drug abuse and the relation of these to relapse proneness. The beliefs of treatment providers and beliefs of PSUDs and locus of control beliefs of PSUDs in relation to the relapse proneness were tested.

The goal of present research work is to contribute in increasing awareness among society, PSUD's, their families and service providers about role of addiction beliefs and locus of control in recovery. Moreover to highlight these factors that may increase risk of relapse. Once these factors have been highlighted preventions and interventional strategies can better support recovery



significantly from rate for other chronic diseases

(National Anti-Drug Agency (NADA), 2009)

Relapse rate for addiction ranges from 50 percent for resumption of heavy use to 90 percent for a brief lapse

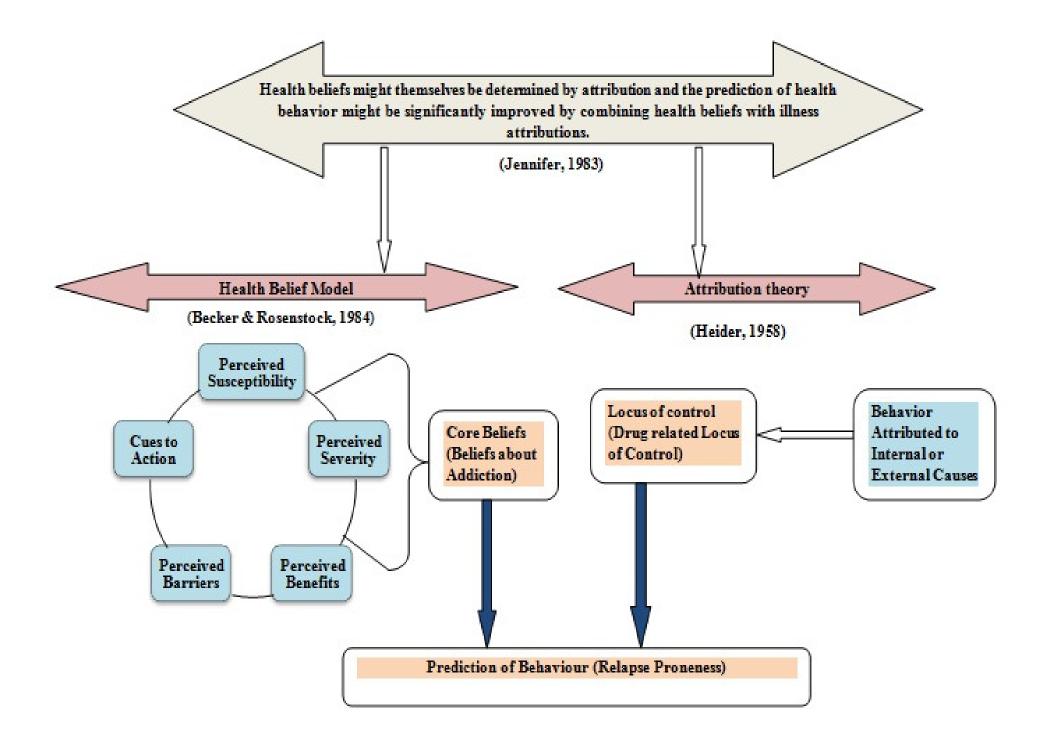
(National Survey on Drug Abuse (NSDA), 2010)

- Understanding addiction beliefs can be useful for ensuring treatment adherence and recovery outcomes.
- Persons with varying sets of addiction beliefs may differ in preferred choice of treatment settings or programs, treatment compliance, treatment satisfaction, and treatment outcome.
- Evidence indicates that the subjective views of health professionals may be communicated to the patient, and subsequently influence the patient's health outcomes (McNeil et al., 1982).

- Moyers and Miller (1993) found that therapists who endorsed a psychosocial model of addiction were less likely to incorporate client treatment goals into treatment plans, while those endorsing a disease model of addiction were more likely to encourage lapsed clients to return to treatment.
- Addiction attitudes may influence behavior toward those with substance use disorders (SUDs) and personal decisions regarding use (Trafimow, 1996), and individual acceptance of new addictionrelated information. For example, moralistic attitudes about addiction reduce tolerance and increase stigma toward those with substance use disorders (SUDs; Caplehorn, Irwig, & Saunders, 1996a; Luoma et al., 2007; Peele, 1998). Such stigma may generate a barrier to individual acceptance of personal substance abuse dependency thereby delaying onset of treatment.

 Recent findings by the National Survey on Drug Use and Health (SAMHSA, 2009) provide an example of the influence of addiction attitudes. Of the 23 million individuals (8.3% of the total U.S. population age 12 and older)meeting diagnostic criteria for substance abuse disorders during 2008, 21 million did not receive treatment at any specialty clinic, including hospitals (inpatient only), mental health centers or substance abuse rehabilitation facility (SAMHSA, 2009). When questioned, 3.7% agreed they needed treatment but made no effort to obtain help and 95.2% refused to believe they needed treatment. Thus, user beliefs and attitudes acted as a barrier to actually receiving treatment. Research has also suggested that psychologically healthy individuals have a greater sense of control than those suffering from psychological distress or impairment. Further, these healthy individuals have been found to overestimate the amount of control that they have in a situation, to be more optimistic about their ability to achieve control, to overestimate their invulnerability, and to underestimate risk in certain situations (Lewinshon, Mischel, Chaplin, & Barton, 1980; Seligman, 1991; Taylor & Brown, 1988).

research has shown that those who believe that there is something they can do about their disease or the resulting stresses have a more positive psychological adaptation than do those who do not have such beliefs (Shapiro et al., 1996). Findings revealed that external locus of control was associated with higher levels of actual stressors, higher levels of neuroticism, the use of more emotion directed coping behaviors, and higher levels of perceived stress (Horner, 1996). Further, reported illness was predicted by locus of control, neuroticism, and the stressors examined in the study. This study concluded that external locus of control beliefs are related to the experience of illness, suggesting a strong link between external locus of control and illness (Horner, 1996). These findings support the link between stress and illness and provide additional information with regard to the relationship between locus of control and illness.



Relapse does not occur within a vacuum. There are many contributing factors, as well as identifiable evidence and warning signs which indicate that a patient may be in danger of returning to substance abuse.

Treatment success and relapse among drug abusers have been studied extensively (Brewer, et al., 1998; Hubbard, Craddock, Flynn, Anderson & Etheridge, 1997; Fletcher, Tims& Brown, 1997; Prendergast, Podus, & Chang, 1998; Simpson, Savage, & Lloyd, 1979). Some clear predictors of relapse have emerged; however, most are gross measures of a client's demographic status, psychiatric status, or program attendance. For instance, a recent meta-analysis of treatment for opiate PSUD's shows that unemployment, high levels of use, no prior abstinence, depression, association with drug-using peers, short treatment duration, and leaving treatment prior to completion are predictive of relapse (Brewer, et al., 1998). Longer treatment participation and participation in aftercare has been shown to improve relapse rates (Hubbard, et al., 1997; Miller, et al, 1997).

Studies conducted to investigate about Beliefs regarding addiction in general population and of treatment providers and the role of beliefs about addiction in determining future health outcomes.

Name of authors and year	Participant	Sample size	Outcome variable	Other variable	Measures	Findings
Geoffrey T. H., Julie A. P., Jeewon, C., Craig T. N. (1998)	Alcohol using college students	203	Compulsive Alcohol use	Irrational Beliefs, Behavioural Misregulation, Life Stress, Impulsivity, , and Depression	L	Impulsivity found to be significantly predicting both alcohol use and problems, stress, compulsivity, irrational beliefs, and depression were found to only be significant predictors of alcohol use problems.
Krystle M. B. (2005)	University students and drug/alcohol treatment center	University students (n=81) and drug/alcohol treatment center (n=14)	Beliefs about Addiction	N.A	Addiction Belief Inventory (ABI)(Luke, Ribisl, Walton, & Davidson, 2002).	

Studies conducted to investigate the role of Locus of Control in determining future Health Outcomes in general population, population with Chronic Illness and PSUD's.

Name of authors and year	Participant	Sample size	Outcome variable	Other variable	Measures	Findings
Brendan, P. B., Michael, G., Chris, R. B., Grania, P., & Lynette, G. (1992)	PSUD's of Opiates	80 participants	Relapse	Perception of Control (Attributions)	Measures of generalized attributions of responsibility for positive outcome (RPO) and responsibility for negative outcome (RNO), Attribution of past relapse, and Attribution of future relapse (Brewin& Shapiro, 1984).	PSUDs who at admission attributed to themselves greater responsibility for negative outcomes and who attributed relapse episodes to more personally controllable factors were subsequently (at 6-month follow-up) more likely either to be completely abstinent or to contain temporary lapses.
Jennifer, M. R. (2009)	young adult population	136 participants	Healthy life	Attribution style and health locus of control	Multidimensional Health Locus of Control scale (Wallston, Stein, & Smith, 1994). Self made questions to measure attribution style and Healthy life.	The results inferred that Willingness to lend healthy life is effected by the perceived controllability of the illness.

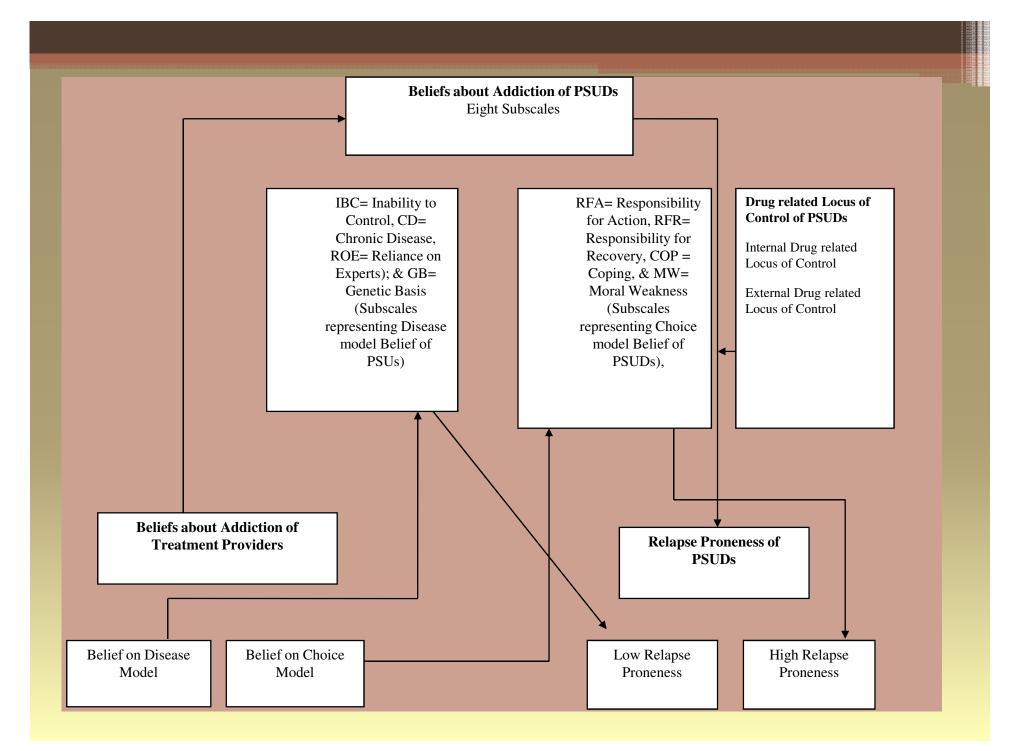
Studies conducted to investigate the role of Locus of Control in determining future Health Outcomes in population with Chronic Illness and PSUD's.

Name of authors and year	Participant	Sample size	Outcome variable	Other variable	Measures	Findings
MalgorzataA.B. & Anna, A. (2012).	Patients with (Graves- <u>Basedow</u> and Hashimoto diseases)	68 patients with Graves disease and 54 patients with Hashimoto disease.	Acceptanc e of illness	Health Locus of Control	Multidimensional Health Locus of Control Scale. (Wallston, B.S. &Devellis, D., the Acceptance of Illness Felton, B.J., Revenson, T.A. &Hinrichsena, G.A., 1999).	A statistically significant positive correlation occurred between the age of patients and external (i.e., in other persons) <u>health</u> locus of control.
Maure, A. W., Felipe, G. C., & Elizabeth, H. B. (1994).	PSUD's	97 participants	Abstinence , lapses and relapse	Attributions questions which were answerable on five-point Likert scales	Selfmade three questions which were answerable on five-point Likert scales	Abstainers made more internal, stable, and global attributions regarding their abstinence (as compared to lapsers following their slip). Abstainers' attributions for their success in remaining abstinent tended to be similar to the attributions made by relapsers for their failure to remain abstinent (i.e. for their relapse).
Millet, P. (2005).	Swedish Employees	143 participants	Working Life	Locus of control	Rotter Locus of control Scale (1966)	Locus of control was found to exert a notable influence on the differences between the individuals in the study sample, with persons of external locus of control having a less favorable point of departure at the start of vocational rehabilitation compared to other groups.

Based on theoretical background and literature it was conceptualized (Figure1)

Beliefs about addiction of the treatment providers will be associated with behavioural outcomes (relapse proneness) of the PSUDs.

Beliefs about addiction of PSUDs will also be associated with relapse proneness of PSUDs. Whereas, locus of control is the attribution that can influence the behavioural outcome and will determines the association between beliefs about addiction of PSUDs and relapse proneness of PSUDs.



Method

Sample

Treatment providers sample size was 17 that was contingent upon presence and availability of treatment providers of respective rehabilitation centers and hospitals 120 PSUDs were taken as sample from different Rehabilitation Centers and hospitals in Lahore, Pakistan.

The data of the treatment providers was used in replication for all the PSUDs of the particular treatment provider.

Inclusion criteria.

•Only Professionally expert treatment providers(doctors, psychiatrists, psychologists, counselors, social workers and supporting nursing care staff) was taken as sample of treatment providers.

•Only those PSUD's seeking treatment in complete supervised settings (a setting that provides high clinical standards, sustained professional expertise by doctors, psychiatrists, psychologists, counselors, social workers and supporting staff) and have gone through the process of detoxification (process of neutralizing or eliminating drugs from the body) was included in the sample. This inclusion criteria was followed to reduce the effects of extraneous variables and to ensure that sample participants are in the stage of their recovery process from drug addiction at the time of data collection.

Exclusion criteria.

•PSUD's with any other psychiatric illness or comorbid diagnosis (presence of two disorders or illnesses occurring simultaneously in the same person; substance use disorders with any other mental illness) was excluded from the sample. This exclusion criteria was followed to reduce the effects of overlapping symptoms of other mental illnesses that may made a person prone for relapse beyond the effects of drug addiction after taking drug addiction treatment.

Beliefs about Addiction. Beliefs about Addiction are defined in the terms of a person's view point favoring a specific model of addiction. An individual if score high on the details of a specific model then the individual hold a belief about addiction particular to that specific model (Schaler, 1995; Luke, Ribisl, Walton, & Davidson, 2002).

Beliefs (Disease model)

- Addiction is a chronic disease that does not get better.
- The only chance for management is abstinence.
- Most addicts don't know they have problem and must be forced to recognize they are addicts.
- Addicted persons cannot regulate their alcohol/drug use.

Beliefs (choice model)

- Addiction has more to do with the environment people live in than the drugs they are addicted to.
- drug addiction is a way of life people rely on to cope with the world.
- Addicts have a character flaw.

Locus of control

Locus of control is defined in terms of internal versus external control as the degree to which a person expect that an outcome of behavior is contingent on one's own behavior or personal characteristics versus the degree of chance, luck or fate (Hall, 2001)

Some of the sample items are "A. I feel so helpless in some situations that I need to get high; B. Abstinence is just a matter of deciding that I no longer want to use drugs", "A. Drugs aren't necessary in order to solve my problems; B. I just cannot handle my problems unless I get high first".

Relapse proneness

Relapse is characterized by some warning signs that an individual go through. An individual scoring high on these warning signs is predictable for relapse (Miller & Harris, 2000). Some of the sample items are "I feel nervous or unsure of my ability to stay sober", "Things don't work out well for me", I feel like things are so bad that I might as well do drugs", and "I lie to other people".

Measures	No of items	Rating and scoring
1. Addiction Belief Scale (Schaler, 1995)	18	ABS has 5point Likert scale that ranges from 1 (strongly disagree) to 5(strongly agree)
2. Addiction Belief Inventory (Luke, Ribisl, Walton, & Davidson, 2002)	30	Likert type, 5-point rating scale: 1 (strongly disagree) to 5(strongly agree)
3. Drug Related Locus Of Control Scale (Hall, 2001)	15	Forced-choice measure
4. Aware Questionnaire (Miller and Harris, 2000)	28	likert type, 7-point rating scale: 1= Never, 2= Rarely, 3= Sometimes, 4= Fairly often, 5= Often, 6= Almost always, 7= Always

Analyses

A series of partial correlations were conducted to find the relationship between beliefs about addiction of treatment providers, beliefs about addiction of users, locus of control of users and relapse proneness of users.

In order to interpret a partial correlation between beliefs about addiction of treatment providers and beliefs about addiction of users, <u>zero-order (bi-variate) correlation</u> was conducted initially then partial correlation was conducted for the variables by controlling the effect of predetermined variables according to the proposed hypothesis.

Findings

A series of partial correlations analyses revealed association between beliefs about addiction of treatment providers on disease model and beliefs about addiction of users on inability to control aspect of disease model when controlling for education of treatment providers and education of users.

Beliefs of the treatment providers influence the beliefs of the users while there are some variables that play role in this association as number of relapses, history of drug use as well as personal drug use history of the treatment providers also influence the beliefs of treatment providers and in turn influence the beliefs of the users.

Findings

Hierarchical regression analyses revealed that the relationship between beliefs about addiction of treatment providers and relapse proneness of users was mediated by inability to control, responsibility for action, responsibility for recovery and genetic basis aspect of the users' beliefs about addiction and the relationship between users' beliefs and relapse proneness was moderated by drug related locus of control.

- beliefs of the treatment providers are associated with the relapse proneness of the users
- > this association is arbitrated by the beliefs of users
- > the beliefs of the users are also associated with Relapse proneness
- Drug related Locus of control buffers this association.

Discussion

The Beliefs of the treatment providers influence the beliefs of the users under treatment. when a user has external locus of control and attributes his lack of control over drug use to external causes, his beliefs have a more significant influence on bringing him closer to relapse. This has been supported by earlier recent studies in Pakistan (Tanveer, Amjad and Rafique, 2013; Liagat & Amjad 2014)

Questions to take forward

What is the best way to work on beliefs of users and Beliefs of the treatment providers ? What are mechanisms for shifting locus of control ?

What about other factors linked to relapse proneness ?

Implications - According to these findings...

it is important to ...

- focus on drug use related beliefs especially among young persons at risk for first time use Work on drug related locus of control during interventions
- Train the treatment providers for appropriate beliefs that influence their patients
- Address the specific aspects of beliefs that lead to increased relapse proneness

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