A study to examine the uses of personal strength in relation to mental health recovery in adults with serious mental illnesses: a research protocol

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Abstract

This study will explore the relationships among strengths self-efficacy, resourcefulness, stigma experience and mental health recovery in community-dwelling adults with serious mental illnesses. Mental health practices have focused on psychopathophysiology. Stigma heavily plagued clients with mental illnesses and is one of the greatest barriers to mental health recovery. Personal strengths like strengths self-efficacy, people’s confidence in using their personal strengths, and resourcefulness, the ability to carry out daily activities, have been linked to positive mental health. However, the linkage between strengths self-efficacy, resourcefulness and mental health recovery remains uncharted.

A cross-sectional, descriptive, mixed methods study will be conducted. A funded study by the Sigma Theta Tau, Upsilon Eta Chapter, August 2013, involving a convenience sample of 100 participants is planned. Included are community dwelling adults between 21 to 65 years old having been diagnosed with serious mental illnesses. Clients with current co-occurring substance abuse will be excluded. Participants complete questionnaires and undergo an interview. Correlations among the study variables will be examined. Regression analysis will determine if recovery can be predicted by strengths self-efficacy, resourcefulness and stigma experience. Interview data will be transcribed and analyzed by thematic analysis. This study will look beyond clients’ disability to focus on their recovery and healing capacities such as strengths self-efficacy and resourcefulness. Findings will expand our knowledge about mental health recovery and positive concepts such as strengths self-efficacy and resourcefulness.

Approaching mental illnesses positively may help to reduce stigma that impedes recovery. Knowledge gained from this study may pave the way for future nursing strategies to aid recovery and inform the development of positive, strengths-based interventions.

Introduction

Mental illnesses are a cause of concern. Internationally, across countries in America, Europe, Middle East, Africa, and Asia, nine to 17% of the population surveyed had some episodes of mental illnesses in the previous year. In the USA, about 57.7 million people, 26% of adults aged 18 years and older had at least one mental illness in any given year. Mental illnesses contribute to health burden and disability around the world. The World Health Organization reported that an estimated 873,000 people committed suicide yearly, and more than 90% of all cases of suicide were associated with mental disorders. The situation can worsen with the global burden resulting from mental illnesses expected to rise from 12.3% in the year 2000 to 14.7% in the year 2020.

Serious mental illnesses (SMI), like schizophrenia or major depression, significantly increase the risk of early mortality. Every year, more people in Singapore die from suicide than from traffic accidents. In Singapore, about one in 16 people have experienced major depressive disorder some point in their lives while alcohol abuse and obsessive compulsive disorders affect one in 29 and one in 33 people respectively. The situation is worsen as stigma associated with mental illnesses inhibits the public in Singapore less willing to pay for mental healthcare services, and often leads to the segregation of people with mental health conditions away from the public.

Background

Influenced by the mass appeal of the Diagnostic and Statistical Manual of Mental Disorders (DSM), mental health practices are heavily aligned with pathological thinking, focusing on human problems and failures. In the past, serious mental illnesses were viewed pessimistically, with the course of illness being deteriorative and treatment being stabilization of the illness condition at best even if outcomes were not all bad. Little attention has been given to positive approaches to enhance mental health. As health providers paint a gloomy picture of SMI as chronic and irreversible, people with SMI...
also view themselves negatively. Many of them internalize the stigma and perceive themselves negatively, leading to decreased psychological health (e.g. lowered self-esteem) and impaired role performance.

Recovery from mental illnesses has to be the guiding vision for mental health services. The National Institute of Mental Health states promotion of recovery, not merely the reduction of symptoms, as their ultimate goal. For people with mental illnesses, recovery gives them a sense of hope that they can continue to lead normal lives despite their illnesses. However, psychopathology is still very much evident in mental health practices today and we are still a distance away from achieving the vision of recovery.

Stigma is one of the biggest barriers to recovery. America’s Surgeon General stated that stigma should not be tolerated to reduce the illness burden and improve recovery. The mental health blueprint in Singapore highlights the need to build resilience and reduce stigma to achieve recovery.

While stigma impedes recovery, personal strengths have been linked to mental health. Personal strengths are the person’s positive traits that either create a sense of personal accomplishment or enhance their abilities to provide near perfect performance in a specific task. A large-scale web-based study found that recovery from psychological disorders was associated with greater personal character strengths. Additionally, results from another study suggested that clients engaged in a recovery oriented program that emphasized the development and use of personal strengths had better recovery.

Resourcefulness, the ability to carry out daily activities by themselves (personal resourcefulness) or by seeking help (social resourcefulness), has also been linked to improvements in mental health. In a study of 104 cognitively intact elders dealing with the stressor of relocation, resourcefulness made the relocation process more psychologically pleasant. In two studies relating resourcefulness, relocation process more psychologically pleasant, resourcefulness made the relocation process more psychologically pleasant, resourcefulness, and whether they influence mental health recovery.

Personal strengths are newer concepts in the psychiatric arena and the findings may be a step towards expanding the knowledge base for positive concepts such as strengths self-efficacy, resourcefulness, and mental health recovery. Approaching mental illnesses positively may also help reduce stigma that impedes mental health recovery. Knowledge gained from this study may pave the way for future nursing strategies to aid mental health recovery.

Theoretical framework
The Community Vulnerability (CV) framework guides this study. The CV model has three main constructs: stressors, assets and outcomes. Stressors and assets both impact the outcome. When assets are low and stressors are high, the community becomes vulnerable to adverse outcomes. If assets are strong enough to overcome stressors, then the outcome can be favorable. In this study, the CV model is applied to individuals in the community with mental health recovery as the outcome. Stigma is conceptualized as a stressor that hinders recovery while personal strengths like strengths self-efficacy and resourcefulness are conceptualized as human assets that when sufficient are able to overcome the effects of stressors, leading to desirable outcome like recovery.

Significance
This study goes beyond the symptoms and disabilities of people with SMI to focus on their recovery and healing capacities. The focus is on positive attributes such as strengths self-efficacy, resourcefulness and whether they influence mental health recovery.

Personal strengths are newer concepts in the psychiatric arena and the findings may be a step towards expanding the knowledge base for positive concepts such as strengths self-efficacy, resourcefulness, and mental health recovery. Approaching mental illnesses positively may also help reduce the stigma that impedes mental health recovery. Knowledge gained from this study may pave the way for future nursing strategies to aid mental health recovery.

The study
Aims
This study aims to examine if the use of personal strengths influence mental health recovery in adults with serious mental illnesses. The major variables under study are: i) strengths self-efficacy, ii) resourcefulness, iii) stigma experience and iv) mental health recovery.

The following research questions will be addressed. In community-dwelling adults with serious mental illnesses (SMI): i) What are the associations among strengths self-efficacy, resourcefulness, stigma experience and mental health recovery? ii) Do strengths self-efficacy, resourcefulness, and stigma experience predict mental health recovery? iii) If predictions are significant, do the predictions still hold after controlling for related socio-demographic covariates? iv) How do participants use their personal strengths pertaining to their mental health?

Design
A cross-sectional, descriptive, predictive, mixed methods design will be used in this study that is set in the Singapore community. Literature on the variable strengths self-efficacy is limited, and mental health recovery and stigma experience has not been examined much from the patients’ perspective. Since little is known about the phenomenon, a descriptive study design allows a large amount of information to be collected quickly and economically. However, one setback of a descriptive design using surveys, is that information collected can be superficial. Hence, this study will include a qualitative component as part of a mixed method study design so that words or narrative information generated from the study can complement the quantitative analysis of surveys. A cross-sectional study design measures all the variables at a single time point. It is well-known that people with mental illnesses often have trouble adhering to treatment and follow-up regime. The attrition rates of participation may be high and the power of the study diminishes with decreasing sample size if this was to be a longitudinal study. In addition, the main outcome of interest, recovery, in the study though may fluctuate but does not change greatly over a short period of time, hence a cross-sectional study design will be able to capture the phenomenon.

This study will also involve a mixed-methods approach. The quantitative aspect of the study will explore relationships among strengths self-efficacy, resourcefulness, stigma experience, and mental health recovery. The prediction of mental health recovery from the variables strengths self-efficacy, resourcefulness and stigma experience will also be examined. Secondary research questions will be answered using qualitative descriptive methodology in which participants will be asked open-ended questions regarding the use of their personal strengths. The qualitative data collected will be used to complement the quantitative data collected to describe participants’ personal strengths and the use of their personal strengths pertaining to their mental health.

Participants
A convenience sample will be obtained. Participants included are community-dwelling adults having been diagnosed with SMI. Selecting the sample from the community keeps the bias of acute psychotic symptoms from affecting participants’ perception of their recovery.

Power analysis was conducted a priori based on a medium effect size as attained from previous studies, using G*Power. A total of 67 participants is required, assuming an alpha level of P=0.05 and a power of 0.80. To be conservative with the aim of recruiting a larger sample size, the sample size was set at 76 participants. The sample size was calculated using the CV model with the variables recovery, strengths self-efficacy and resourcefulness, stigma experience and mental health recovery. The CV model was used to determine the sample size, as it is the most appropriate model for this study, as it considers the interplay of stressors, assets and outcomes. The CV model is also the most appropriate model for this study, as it considers the interplay of stressors, assets and outcomes.
sample and to account for attrition, we aim to recruit 100 participants.

Inclusion criteria
To be included in this study, participants should be community-dwelling individuals. People in the community have fewer unmet needs in the areas of psychological distress and psychotic symptoms than those in hospital-based facilities. Participants included in this study are adults 21 to 65 years old (both inclusive) having been diagnosed with having SMI. Participants should be mentally stable enough to understand the nature and purpose of the study. They should also be able to read the questionnaire or understand what is spoken to them from the questionnaire. Their capacity to understand will be assessed by giving them information regarding the study to read or after listening to the researcher read the information, followed by them giving an account of what the gist of the study is. The information is based on the patient information sheet written in English and can be explained verbally in other languages.

Exclusion criteria
People who are currently abusing substances are excluded from the study. It has been well established that the prevalence of psychoactive substance abuse is high among people with mental illnesses like schizophrenia. Research indicates that people with co-occurring substance abuse are highly prone to relapse to substance abuse, even after they have attained full remission of their mental illnesses. They may also lack independent housing, meaningful activities and social support which could be necessarily for recovery. Hence, the recovery of people with SMI and co-occurring substance abuse may be affected. Since this study examines recovery after mental illness, people with current substance abuse are excluded from the study.

Instruments
Strengths self-efficacy will be measured by the Strengths Self-efficacy Scale (SSES) that was developed by Chaichanasakul et al. Content validity of SSES was assessed independently by four experts in positive psychology. SSES was tested with 214 participants in the community, and yielded a high level of internal consistency (reliability) Cronbach’s alpha is 0.97.

Resourcefulness will be measured by the Resourcefulness Scale (RS) developed by Zauszniewski et al. RS’s items had been examined in conjunction with the Self-control Schedule and the Help Seeking Resource Scale, well-known measures of personal and social resourcefulness respectively giving RS its construct validity. RS was tested on 451 chronically ill elders yielding a high level of internal consistency (cronbach’s alpha=0.85).

Perception of personal mental health recovery will be measured by the Mental Health Recovery Measure (MHRM) developed by Young et al. MHRM had content validity clients since it was developed using narrative data provided by clients with psychiatric disabilities. Convergent validity of MHRM has been demonstrated with instruments assessing empowerment, resilience and community living ability. MHRM is suitable for use with the ethnically diverse population in Singapore, as it has been tested with clients from several ethnic groups with no significant differences in mean MHRM scores between different ethnic groups. Good internal consistency has been demonstrated with 279 clients (cronbach’s alpha=0.93).

Stigma experience will be measured by the Stigma Scale (SS) developed by King et al. The SS assesses stigma experienced by the person with mental illness themselves rather than from a third person’s viewpoint. The SS is a valid measure for the person with mental illness as it was developed after in-depth interview with 46 clients in community mental health services. Discriminant validity was shown when SS was negatively correlated with global self-esteem. As in this study, where participants are recruited from the community with different SMI diagnoses, the SS had also been tested on 193 participants with varied settings and diagnoses. Good internal consistency has been demonstrated with 193 clients (cronbach’s alpha=0.87).

An interview guide was developed with open-ended questions for the qualitative component for this research study. A prior review of the literature was done to identify the phenomenon that needed further exploration using qualitative methodology. Questions were developed in the interview guide to examine the phenomenon of mental health recovery from participants’ point of view. The literature offered supporting evidence regarding the contributions of personal strengths towards positive outcomes, but little is known about personal strengths in people with mental illnesses. Even more scarce was evidence linking personal strengths directly to the recovery of people with mental illnesses. Hence, the interview guide also included questions exploring situations that participants use their personal strengths and the relationships between these strengths and their mental health recovery. These questions were developed by the principal investigator for this research study and reviewed by an experienced qualitative researcher, and a faculty member at a renowed university to ensure its validity to the purpose of this study.

Data collection
After obtaining ethical clearance to commence the study, a pilot study will be conducted on about 5 to 10 people with serious mental illness who meet the inclusion and exclusion criteria to test the feasibility of using the instruments in this study and the feasibility of conducting the full-scale study. They will fill up the instruments and provide their opinions about the instruments. Following which, the researchers will get together as a team to review the feedback of respondents to the pilot study. The research team will decide if changes to the instruments were needed. If changes to the instruments were needed, the modified instruments will be sent back to the original authors of the instruments for their review and the ethics review board will be informed of the amendments to the study. Study amendments will also be done if the instruments were found not to be feasible for this study and new instruments were to be used. If no changes were made to the instruments and the researchers find that it is feasible to continue, the full scale study will be conducted.

With permission, posters will also be put up and flyers distributed at community mental health agencies like day care centers, or clubhouses, outpatient clinics around Singapore. These agencies only accepts patients who have been diagnosed with serious mental illnesses. Researchers just provide their contact information without seeking the records of potential participants. Potential participants who were interested in the study contact researchers on their own accord. This minimizes coercion of participating in the study.

Potential participants will approach the researchers directly or express their interest to participate through telephonic or electronic communication after reviewing the posters and flyers. The principal investigator will then screen the potential participants for their eligibility to participate in the study based on the inclusion and exclusion criteria. Only the principal investigator will be involved in the screening to minimize bias. If the potential participants were eligible and were interested to participate, they will meet with a researcher at a mutually agreed upon time and venue for informed consent taking and data collection.

The researcher will be trained prior to commencement of the study obtain consent, administer the instruments and conduct interviews with participants. The instruments will also be administered to all participants in a specified order to control for testing effects. The Mental Health Recovery Measure which assesses recovery, the main outcome of interest will be administered first. This is followed by the Strengths Self-Efficacy Scale. Participants will be shown the definition of personal strengths and then asked to list their strengths. If they have difficulty identifying their strengths, they will be asked to think about situations when they have felt having
accomplished something. Then, participants will answer questions regarding the use of their personal strengths in different situations. Subsequently, the Resourcefulness Scale and the Stigma Scale will be administered to the participants, followed by the questionnaire to assess their socio-demographic information. All the instruments will be administered in the form of a structured interview where the researcher or data collectors will read out the questions and record participants’ response. Administering the questionnaires in the form of a structured interview greatly increased the response rate about 80% as compared to mailed or web-based questionnaires that typically obtained responses rates of 50% or lower. In addition, the structured interview also gives researchers control over the orders which questions are answered and minimize the possibility of having missing responses, thus reducing bias in the results.

Should the participant ask for clarification, the researchers or data collectors will only repeat the questions or define the terminology in a pre-determined manner but refrain from giving further interpretation. This is to ensure that the same information will be transmitted to the participants in a similar manner whether it is the principal investigator, researchers or data collectors who will be meeting with the participants. It is also for this reason that inter-rater reliability will not be assessed as the questions are already stated in the instruments and the researchers or data collectors are merely present to deliver the instruments to participants.

A short interview will follow the questionnaires administration. The principal investigator or her representative will ask participants’ questions according to the interview guide. Participants are again asked to base their answers according to the interview guide. The principal investigator or her representative will ask participants’ questions according to the interview guide. Participants are again asked to base their answers on the answers of their own views and to answer truthfully without any concern for incorrect answers as there are no right or wrong answers. Having such reassurance may increase the chance that participants will respond truthfully, thus enhancing the chance that data valid to the participants are collected. To further increase the validity of the data, researchers will verify his/her understanding of participants’ response verbally before the responses are recorded, thus giving the participants an opportunity to correct any errors before records are finalized. This provides an opportunity for participants to recognize the responses to be true to them, hence increasing the credibility of the findings later on. Ethical considerations

This study was designed to enhance validity without compromising the feasibility of conducting the study. Employing a cross-sectional study design with convenience sampling in this study would provide researcher little control over events that occurred, unlike an experimental study, it can overcome several threats to the internal validity of the study to show that the link (relationships or predictions, if established) between the independent variable and dependent variable is true without the interference of other events. According to Polit and Beck, pre-test post-test study design is most likely to be affected by the threat to history, maturation, testing and instrumentation while experimental study can most likely to be affected by the threat to mortality. Although the cross-sectional design limits the examination of changes over a period of time, such a design prevents many of these other threats to the internal validity of the study. External validity deals with whether the results of the study can be generalized to other persons, places or times. However, controlling for one type of validity interferes with the possibility of achieving another type of validity. For example, having a homogenous sample in the study strengthens internal validity but can limit external validity. In this study, convenience sampling will be used without excessive control over the characteristics of participants to be included in the study, so that participants still bear some characteristics of the target population of adults with serious mental illnesses. Furthermore, this study will take place largely in the natural setting without manipu
loration of variables as in an experimental study, further enhancing the generalizability of the results.

The rigor of study data could also be determined by its credibility, dependability, confirmability and transferability. A mixed method study design allows for qualitative data to complement the superficial information that are typical in a survey instrument, further enhancing the credibility of the study. Self-reported data collected in this study could be most valid to the participants’ experiences and researchers taking the extra step of verifying participants’ responses (also known as member checking) enhanced the credibility of the results.

The same research team will analyze the data to enhance internal consistency and helped to ensure that the results of analysis remained stable for every participant, hence enhancing its dependability. With regards to confirmability, the methods for conducting this study will be stipulated in the protocol prior to study commencement and will be closely adhered to. This will leave an audit trail for future researchers to replicate the study to confirm the findings further.

Transferability of the data can be enhanced when researchers give a detailed explanation of the results including the socio demographic characteristics of the participants in this study later on in the research report so that future researchers can get a sense of what kind of context or population the results can apply to.

Discussion

It is well documented that the experience of stigma has been plaguing people with mental illnesses and impeding their recovery. This study will not only examine stigma and recovery from the perspective of people with mental illnesses as opposed to a third party but also allow the examination of positive concepts such as strengths self-efficacy and resourcefulness capabilities of people with mental illnesses. However, research participants may not benefit directly from participating in this study. Hence, in promoting the study to potential research participants, this would have to be presented to participants. Nevertheless knowledge gained from this study may pave the way for positive strengths-based nursing strategies to be developed to aid mental health recovery, possibly leading to a more comprehensive recovery program for people with mental illnesses. This may in turn benefit participants in future when patients can choose from a greater variety of treatment strategies.

Despite this being a non-invasive study, participants risks associated with daily living may still be expected to occur during the study. Participants will be advised beforehand to inform the principal investigator or her representative if they feel uncomfortable or become distressed while answering a certain question. If participants were to become distressed in the process of answering questions for the research study, they would be given a break till they are ready to continue or decide to withdraw from the study. Participants may also be given contact information of mental health services where participants can approach for help when they need it.

Limitations

There are limitations inherent to convenience sampling in the local setting. In particular, with the limited sample size and use of convenience sampling in the local setting, generalizing the findings of the study beyond the context requires further scrutiny. As the study will be conducted in the community setting, participants may not be hidden from the public’s eye. Participants are asked to choose a private venue where they are comfortable with filling up the questionnaires and undergoing the interview.

Conclusions

The personal strengths of human beings may be illuminated in adversities like mental illnesses. After years of studying human weaknesses and psychological pathology, this study represents a preliminary attempt in the scientific pursuit of human strengths that brought about positive outcome in adversities. Findings could expand our knowledge about recovery from mental illnesses by focusing on personal strengths and positive concepts such as strengths self-efficacy, resourcefulness and mental health recovery.

Findings from this current study could aid in propelling the field of psychiatry away from deficit preoccupation to positive qualities of individuals with mental health issue such as strengths self-efficacy and resourcefulness. Approaching mental illnesses positively could help to reduce the stigma that impeded the recovery of people with mental illnesses.

References


