Development of an indigenous scale on Resilience in Urdu

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ABSTRACT- The present study was conducted to construct an indigenous scale named Resilience scale. Resilience is ability to go back to a previous level of functioning before the negative impact of the trauma. An extensive exercise was undertaken to identify resilience in Pakistan by using both theoretical and empirical approaches. Initial draft was prepared by literature, expert opinion and personal observation. Then a pilot study was conducted. Suggestions were invited from participants. Exploratory analysis was conducted. Scree plot guided that this scale contain two subscales. Eagan value and rotated component matrices were visualized. The names of subscales were guided through literature research. During factor analysis, items reduced to 22. Subscales named as "positive support subscale" and "adaptive coping subscale." Positive support subscale has 13 and adaptive coping subscale has 9 items. There is no negative/reverse scoring. The item score ranges from 1 to 5, "1" shows strongly disagree, "2" disagree "3" uncertain "4" agree and "5" strongly agree. Minimum score on this scale will be 22 and maximum score will be 110. Higher score shows the high level of resilience and vice versa. This scale will be a strong tool for research and practical purposes.

Keywords: indigenous, Resilience, Urdu

I. INTRODUCTION

Like other countries, Pakistani people are facing continuous stress in the form of terrorism, poor economical conditions, and uncertainty due to natural and man-made disasters. People are facing lots of psychosocial issue. They do not seem to be satisfied with their job conditions, work environments and academic and family environments. A person who is in continuous stress and facing traumatic conditions with a low level of resilience seems to b unable to perform well in his daily life. The main objective of current study is to develop an indigenous scale for the measurement of resilience in Urdu language, which will further help to guide and council the people to deal with traumatic situations.

The standard meaning of resilience could be risky on the grounds that it doesn't adequately represent social and relevant contrast in how individuals or different frameworks communicated versatility (Ungar, 2004).

Strumpfer, 2001 depicted resilience as a mental movement which invigorates objective coordinated conduct, cognizance and feelings. The majority of the scales accessible on versatility are either in English or different dialects and when interpreted don't really convey a similar implication. There are some indigenous scales present on resilience in Pakistan and some scales are translated and validated as well. However, this scale will also be a credible hotspot for gathering data about strength. This scale will likewise be as per the way of life and exceptional goal to culture pertinent conduct.

A few people have a moderately decent result regardless of having encountered genuine anxieties or afflictions – their result being superior to that of different people who endured similar encounters. Quite a bit of his work depends on his initial investigation into offspring of guardians with schizophrenia. In this work, he was initially centered around psychological maladjustment and after that saw that a few youngsters were encountering the hazard yet rising generally safe. This urged him to look for skill in kids who had encountered misfortune, as opposed to his unique spotlight on pathways of psychopathology (Rutter, 2013).

Rutter adopts a life expectancy strategy to resilience, as he expresses that resilience may be "not the science existing apart from everything else" but rather something that might be more obvious at various circumstances in a single's life. He affirms that kids can be flexible in connection to a few dangers and not others, in this way extraordinary danger and natural changes can bring about a kid demonstrating resilience or absence of strength at various focuses in time. For instance, a youngster may indicate resilience amid their folks' separation yet not when they flop instructively. Rutter pronounces that individual contrasts (e.g. hereditary qualities, identity, and disposition) make contrasts in how every individual response to chance and defensive components.

Garmezy, (1991) was a clinical analyst and is regularly noted similar to the originator of research in resilience. His exploration started with an emphasis on schizophrenia and dysfunctional behavior and moved to examine on pressure opposition, capability and resilience. He was the organizer of Project Competence, a longitudinal report into positive results in danger kids. His exploration was based at the University of Minnesota in the United States of America. He also characterized resilience as, "not really impenetrable to pressure. Or maybe, strength is intended to mirror the limit with respect to recuperation and kept up resilient conduct that may take after beginning retreat or inadequacy after starting an upsetting occasion". He also reported that all kids encounter worry eventually, and resilient youngsters are not "gallant" looked at those kids who "meet comparable circumstances with withdraw, sadness, or turmoil". To be resilient, he states that one needs to demonstrate "useful ampleness (the support of equipped working notwithstanding a meddling emotionality) as a benchmark of flexible conduct under pressure".

It has been noticed that families have their own particular novel arrangement of remedial forces. That keeping in mind the end goal to beat emergencies, families meet people's high expectations and thus, turn out to be more firm and reinforce relational bonds (Marsh et al., 2011; Rungreangkulkij, 2000).

These are the components that represent a risk to parental figure strength and , cases of these incorporate components, for example, shame, seclusion and word related limitations (Zauszniewski, Bekhet & Suresky, 2009). In connection to comprehension, a case of a hazard factor could be if a parental figure choses to evaluate their circumstance as dangerous, oppressive and distressing (Zausniewski, Bekhet & Suresky, 2010).

Objective of the study:

The objective of the current study is to develop an indigenous scale of Resilience in Urdu for Pakistani population.

II. METHODS

Participants

Research includes different categories of people i.e. educationist, doctors, businessmen, students from different government and private organizations to establish the tool by using phenomenological approach for the construction of item pool. Data is collected from a sample of n=50 individuals. Another sample to establish reliability and validity of the scale includes n=200 individuals. An age ranges criterion of the participants is above 18 years.

Item Generation and Procedure

The process of item generation was conducted in multiple phases. The first phase was included reviewing the literature related to the constructs. 2ⁿᵈ step was involved the process of exploring phenomenology that was also include gathering information from literature, experts, doctors, psychologists, businessmen and students from different settings.

40 Expert from different fields (i.e. doctors, psychologists, teachers, businessmen and students) was given an open ended questions form asking basic questions. All the experts were approached individually by the

researcher. In that questions they was ask about resilience and other questions to inquired how they have seen the resilience in their day to day practice and experience.

Permission was taken from the head of departments or the concerned body via proper channel.

In the 3rd step, after collect immense data related to resilience from literature and experts a large number of items pool was gathered. The first item pool was reviewed by institutional experts and proper categorizations of the items were made. After compilation and construction of the first draft of the scale then the pilot study was carried out to see the effectiveness of the items, difficulty level of the items and length of the items. Suggestions were invited by the researcher from the participants. Initial draft of 60 items was limited to 30 items.

In 4th step, this raw scale was administered on 200 samples for tryout to see their effectiveness of the items. The scale was designed very carefully keeping in mind the user friendliness of the layout, the font size, clearly written instructions, items and options. Subsequent changes were made and after finalizing the items statistical analysis were applied to finalize the item pool. Then exploratory factor analysis was conducted through SPSS 22 and Principal Component Analysis was used in this case. Those items that were significantly correlated with each other were selected for final scale.

In the current research, Principal Component Factor Analysis with Varimax Rotation was performed of 30 items from which 22 items are selected. Then we applied 22 item resilience scale on 400 population to see the reliability.

This process established the internal consistency or inters item correlation as well. Eagan value, communalities and rotated component matrices were also visualized in this regard. Scree plot guided that this scale contain two subscales. The names of the subscales were guided through literature research. During factor analysis the items reduced to 22. The items score ranges from 1 to 5, "1" option indicating rarely, "2" sometimes "3" uncertain "4" often and "5" very often. High score shows the high level of resilience of the individual and vice versa.

Statistical Analysis

Exploratory Factor Analysis (EFA) by Spearman (1904) have been used through Statistical Package for Social Sciences version 23.

III.   RESULTS

Table 1

A test of sphericity was conducted on 22 items, the result of KMO is reliable and its value is .924, which is above the required value that is .59. Furthermore the test of sphericity is also significant and its value is 0.000.

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.924
Bartlett's Test of Sphericity	Approx. Chi-Square	1972.882
	Df	231
	Sig.	.000

Table 2

Rotated Component Matrix

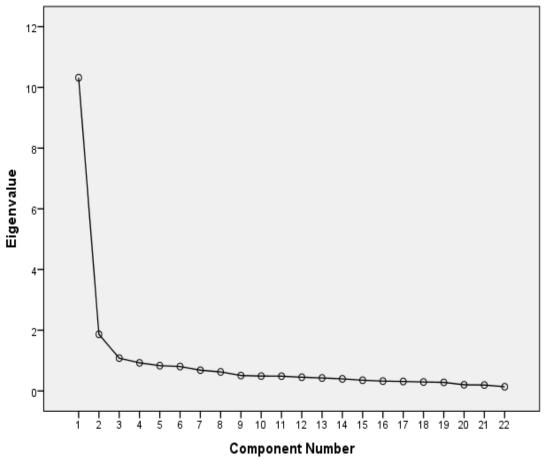| Positive support subscale		Adaptive coping subscale	
Item no	**RCM Value**	**Item no**	**RCM value**
Item no 1	.556	Item no 2	.610
Item no 3	.788	Item no 7	.555
Item no 4	.749	Item no 8	.532
Item no 5	.729	Item no 9	.721
Item no 6	.730	Item no 10	.627
Item no 11	.562	Item no 16	.572
Item no 12	.650	Item no 17	.803
Item no 13	.581	Item no 18	.779
Item no 14	.652	Item no 19	.706
Item no 15	.623		
Item no 20	.482		
Item no 21	.798		
Item no 22	.574		

Factor analysis was conducted to see the factors as well as the Eagan value of all these subscales. Initially KMO and Bartlett's test was performed. Scree plot guided us that there are two subscales in this scale. Communalities are also checked. Items are arranged into their subscale respectively by checking their rotated component matrix.

The item no 1 lies in positive support subscale and its rotated component matrix value is .556. The item no 3 lies in positive support subscale and its rotated component matrix value is .788. The item no 4 lies in positive support subscale and its rotated component matrix value is .749. The item no 5 lies in positive support subscale and its rotated component matrix value is .729. The item no 6 lies in positive support subscale and its rotated component matrix is .730. The item no 11 lies in positive support subscale and its rotated component matrix is .562. The item no 12 lies in positive support subscale and its rotated component matrix is .650. The item no 13 lies in positive support subscale and its rotated component matrix value is .581. The item no 14 lies in positive support subscale and its rotated component matrix value is .652. The item no 15 lies in positive support subscale and its rotated component matrix value is .623. The item no 20 lies in positive support subscale and its component matrix value is .482. The item no 21 lies in positive support subscale and its rotated component matrix value is .798. The item no 22 lies in positive support subscale and its rotated component matrix value is .574.

The item no 2 lies in adaptive coping subscale and its rotated component matrix value is .610. The item no 7 lies in adaptive coping subscale and its rotated component matrix value is .555. The item no 8 lies in adaptive coping subscale and its rotated component matrix value is .532. The item no 9 lies in adaptive coping subscale and its rotated component matrix value is .721. The item no 10 lies in adaptive coping subscale and its rotated component matrix value is .627. The item no 16 lies in adaptive coping subscale and its rotated component matrix value is .572. The item no 17 lies in adaptive coping subscale and its rotated component matrix value is .803. The item no 18 lies in adaptive coping subscale and its rotated component matrix value is .779. The item no 19 lies in adaptive coping subscale and its rotated component matrix value is .706.

Figure 1

Scree plot showing that this scale has two subscales.

IV. DISCUSSION

The present study was conducted to construct an indigenous scale names as Resilience scale. Resilience consists of coping strategies which help people go back to a previous level of functioning before the negative impact of the traumatic event. Relevant literature searched for this purpose. Different international and indigenous scales are identified and checked in this regard. Firstly the concept of resilience is completely conceptualized; help was taken from literature search and expert opinion in this regard. Initial draft was prepared with the help of literature, expert opinion and personal observation. Then a pilot study was conducted to see the effectiveness of the items, difficulty level of the items and length of the items. Suggestions were invited by the researcher from the participants. Initial draft of 60 items was limited to 30 items. Then exploratory analysis was conducted through SPSS. Scree plot guided that this scale contain two subscales. Eagan value and rotated component matrices were also visualized in this regard. The names of subscales were guided through literature research. During factor analysis the items reduced to 22 with the reliability of .941. The subscales named as positive support subscale and adaptive coping subscale. Positive support subscale has 13 items and adaptive coping subscale has 9 items. There is no negative/reverse scoring. The item score ranges from 1 to 5, "1" shows strongly disagree, "2" shows disagree "3" uncertain "4" shows agree and "5" shows strongly agree. The minimum scale on this scale will be 22 and maximum score will be 110. Higher score shows the high level of resilience and vice versa. This scale will be a strong tool for research and practical purposes.

13 components of factor 1 sending intrinsic along with surface shielding actions along with optimistic assist procedure and additionally psychologically and mentally cleverness, situation dealing with

capabilities and additionally capability put up with stress and anxiety. As a consequence your variable was first defined as "positive support". It component certainly denotes that will who find themselves heavy duty get optimistic sociable assist.

RESILIENCE SCALE FOR ADULTS (RSA) looked at highly by simply Windle, Bennett, and even Noyes (2011), came to be as a result of Friborg et al. (2003) to provide a self-report range aimed at grown-ups. Experts recommend pertaining to easily use in a safety along with analysis and mental faculties study human population. This specific machine comes with a few reviewing issues which usually look into the two intrapersonal and also relational protecting issues which usually go up adjusting in order to bad luck. That game designers. He discovered the crucial features in which boost in a big way handy men and women, get hold of family unit assist plus bond, surface sentimentally supporting cpa affiliate networks, and even dispositional demeanors and even routines, how the climb issues will be demonstrated in. They are really: Own Experience, Communal Experience, Communal Guidance, Family unit Coherence, Own Building. An important soon after survey completed by Friborg et al. (2005) put to use your RSA so that you can know the link involving credit, education, and even strength. Some people determined many relationships among the personality and even energy aspects, just like, that bureau involving bigger private conditioning and even elevated excited solidity. There has been, prove useful. Very little fundamental findings revealed by means of mental quantity.

This is often as outlined by Windle et al. (2011), who seem to reasoned the fact that the RSA is normally exceedingly of great help for researching your shielding factors which in turn restrain and also give you a sustain vs. emotional scatters.

9 components of thing only two sending mentally solid components, recognition in adjust, problem management techniques, living style. As a consequence this specific variable is normally defined as "adaptive coping".

RESILIENCE SCALE is definitely the nearly all organized range about our own lowdown having said that will be being employed just by a variety of experts. That Strength Range, having to do with Wagnild and even Small around 1993, is built plus endorsed using certainly a lot more veteran grown-ups (matured 53 to be able to ninety five years). This approach range covers 40 issues additionally; the benefits are actually identified for you to absolutely keep company with real bodily healthiness, mood, and even everyday life happiness, even while in a harmful way related by using despair. Your machine is normally required to assess potency because involving several essential qualities: Heart-felt Everyday life (or Purpose), Persistence, Self-Reliance, Equanimity, and Existential Aloneness. A lot of these six qualities will be re-evaluated applying a few subscales, that 17-thing Personalized Skill subscale additionally, the 8-thing Status involving Own along with Living subscale. Producing consent belonging to the continuum just last year by simply Wagnild reaffirmed the nation's on the inside uniformity and also acquire legitimacy, promoting it has the proceeded by means of viability being a guitar in the value determination involving durability. However the best 25-thing range, there is always a strong abbreviated 14-thing continuum containing moreover turned into something huge along with trustworthy inside calculating variety (Abiola and additionally Udofia, 2011).

An indigenous scale developed on Resilience against Terrorism (Rehana Ilyas, 2015) in University of Sargodha. A broad exercise was embraced to recognize particular develops covering flexibility in Pakistani social setting while at the same time utilizing both hypothetical and experimental methodologies. At first a reasonably huge pool of things was produced with the assistance of the concentration gatherings, interviews with specialists, understudies and writing out of which 74 things were held. To assess it exactly, 276 guys and 218 females were reached from all kinds of different backgrounds and everywhere throughout the nation including individuals who have seen a psychological oppressor assault also, the individuals who have heard it however haven't seen it. Rule part factor examination was directed to choose things for RAT and decide its developing legitimacy which gave four components arrangement (Pessimism, Self efficacy, Good faith and Sanctity and Education). The scale involved 52 things chose based on factor stacking no less than.35. Inward consistency of the scale with 52 things was exceptionally critical (α = .82).

At the end of the discussion almost all subscales and complete scale as well much will already developed scales. Therefore, present scale overall has a good attempt to measure resilience in our society. Generally speaking appraisal of the scale demonstrates that it has sound psychometric properties. This scale highlights incredible incentive in the local culture as through this scale we come to realize that despite the

fact that there are numerous strength scale accessible comprehensively however they can't gauge the said develop as precisely in our way of life as this scale could do on the grounds that the path individuals in west portray their strong highlights fluctuates definitely from the route individuals in Pakistani culture do. Individuals in Pakistan have an alternate method for communicating their worries. This scale would be a decent instrument in the hands of analysts, clinical professionals and all inclusive community too.

V.   Conclusion

The present study was conducted to construct an indigenous scale named as Resilience scale. Resilience consists of coping strategies which help people go back to a previous level of functioning before the negative impact of the traumatic event. Relevant literature searched for this purpose. Different international and indigenous scales are identified and checked in this regard. Firstly the concept of resilience is completely conceptualized; help was taken from literature search and expert opinion in this regard. Initial draft was prepared with the help of literature, expert opinion and personal observation. Then a pilot study was conducted to see the effectiveness of the items, difficulty level of the items and length of the items. Suggestions were invited by the researcher from the participants. Initial draft of 60 items was limited to 30 items. Then exploratory analysis was conducted through SPSS 23. Scree plot guided that this scale contain two subscales. Eagan value and rotated component matrices were also visualized in this regard. The names of subscales were guided through literature research. During factor analysis the items reduced to 22. The subscales named as positive support subscale and adaptive coping subscale. Positive support subscale has 13 items and adaptive coping subscale has 9 items. There is no negative/reverse scoring. The item score ranges from 1 to 5, "1" shows strongly disagree, "2" shows disagree "3" uncertain "4" shows agree and "5" shows strongly agree. The minimum scale on this scale will be 22 and maximum score will be 110. Higher score shows the high level of resilience and vice versa. This scale will be a strong tool for research and practical purposes.

REFERENCES

1. Abiola, T., &Udofia, O. (2011).Psychometric assessment of the Wagnild and Young'sresilience scale in Kano, Nigeria. *BMC Research Notes*, *4*(1), 509.
2. Friborg, O., Barlaug, D., Martinussen, M., Rosenvinge, J. H., &Hjemdal, O. (2005).Resilience in relation to personality and intelligence. *International journal of methods in psychiatric research*, *14*(1), 29-42.
3. Friborg, O., Hjemdal, O., Rosenvinge, J. H., &Martinussen, M. (2003). A new rating scale for adult resilience: what are the central protective resources behind healthy adjustment?.*International Journal of Methods in Psychiatric Research*, *12*(2), 65-76.
4. Ilyas, R., & Malik, F. (2016).Development of a Scale of Resilience against Terrorism. *Pakistan Journal of Social and Clinical Psychology*, *14*(1), 15.
5. Luthar, S. S., Cicchetti, D., Becker, B. (2000). *The construct of resilience: A critical evaluation and guidelines for future work.* Child Development, 71, 543-562
6. Marsh, D., Lefley, H., Evans-Rhodes, D., Ansell, V., Doerzbacher, B., LaBarbera, L., &Martin-Breen, P. Anderies, JM. (2011) 'Resilience: *A Literature Review' Bellagio Initiative,* Brighton:IDS
7. Rungreangkulkij, R.N., &Gilliss., C.L. (2000) Conceptual approaches to studying family caregiving for persons with severe mental illness. *Journal of Family and Nursing, 6*(4)   , 341-366.
8. Rutter, M. (1987).Psychosocial resilience and protective mechanisms.*American Journal of Orthopsychiatry*, *57*(3), 316.
9. Rutter, M. (2013). Annual research review: resilience–clinical implications. *Journal of child psychology and psychiatry*, *54*(4), 474-487.
10. Spearman, C. (1904)." General Intelligence," objectively determined and measured. *The American Journal of Psychology*, *15*(2), 201-292.
11. Strümpfer, D. J. W. (2001).Psychometric properties of an instrument to measure resilience.
12. Ungar, M. (2004). *A constructionist discourse on resilience*. Youth & Society, 35, 341-365.
13. Wagnild, G. (2009). *The Resilience Scale User's Guide for the US english version of the Resilience Scale and the 14-Item Resilience Scale (RS-14).* Worden, MT: The Resilience Center.
14. Windle, G., Bennett, K. M., & Noyes, J. (2011). A methodological review of resilience

15. Zausniewski, J.A., Bekhet, A.K., &Suresky, M.J. (2009). Effects on resilience of women family caregivers of adults with serious mental illness: The role of positive cognitions. *Archives of Psychiatric Nursing*, *23*(6), 412-422.
16. Zausniewski, J.A., Bekhet, A.K., &Suresky, M.J. (2010) Resilience in family members of persons with serious mental illness. *The Nursing Clinics of Northern America*, *45*(4), 612-626.