A Study on The Validity and Reliability of Basic Needs Questionnaire

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ABSTRACT

The aim of this study is to measure the validity and reliability standard of Basic Needs questionnaire designed by William Glasser. This study also attempts to determine if the Basic Needs questionnaire has the high validity and reliability criteria suitable to be applied in Malaysia. Five expert panels from the counseling discipline and 119 students from two different schools were chosen for group sampling. The instrument used in this study was the questionnaire with 85 items among 5 subscale category. The data was analyzed using cronbach alpha and test-retest analysis. The result showed that half of the items in this instrument were of significantly higher quality. In the first phase, the needs coefficient scores .885, and the second phase the coefficient scored is .899. In general, the result proves that this instrument possesses a high validity and reliability standard for application in Malaysia. Several implications and suggestions are also proposed.

INTRODUCTION

Malaysia is a rapidly developing country in terms of economic, social, cultural, educational, scientific and technological developments. These rapid developments have brought beneficial as well as adverse consequence on our society. While we have to acknowledge the material wealth that these developments have brought, they also have undesirable impact on our social stability. Malaysian students are also affected by these developments especially in terms of the decline of their morality standard. One of the most significant sources for this troubling trend is due to the negligence in fulfilling their individual needs causing them to suffer from identity crisis phenomenon.

According to Choice Theory, all human behaviors are driven by the attempt to satisfy his or her basic needs (Glasser, 1984; 1998; 2001). The knowledge of which needs are not being met in an individual’s life is important in understanding his or her behaviour. That knowledge can therefore be used to determine the kind of intervention needed to create a needs-satisfying environment. Glasser (1984; 1998; 2001) describes five basic needs that must be met for physiological and psychological health. The physiological needs for survival is represented by biological desires, need for food, water, shelter and reproduction, as well as the need for safety and security. Humans also attempt to satisfy the four psychological needs for power, freedom, fun and belonging.

The Power need relates to the desire for status, dominance, respect, and achievement. They are the needs that are the most difficult to satisfy. Belonging refers to the need to be with others, to feel cared for, and to be in cooperative relationships. Freedom, a need which often conflicts with Power and to some extent Belonging, is the desire to do what one wants to do and to be able to make choices. Finally, the need for Fun is the desire to play, laugh, and to seek enjoyment. It is hypothesized to be linked to the ability to learn (Glasser, 2001).

Social problems, that include the rising crime rate, are a constant worry in our society. Statistics released by Bukit Aman Police Headquarters (2009) showed a worrying crime trend especially among the young people and children. As an indicator the statistic below shows the number of crime-related incidence involving young people and children- teenagers 16-18 years old (6435 responses), teenagers 13-15 years old (2227 responses), children 7-12 years old (147 responses). In terms of distribution of crimes committed among the races is Malay (72.7% - 6401 people), Indian (10% - 876 people), and Chinese (7.3% - 641 people). All these social problems occur because there is no single tool that is suitable to be used in Malaysia to determine an individual's basic needs.

The objective of this research is to determine the validity of the basic needs in secondary schools and to determine the reliability standard among secondary school students.
METHODOLOGY

PARTICIPANTS

The participants of the study were five expert panels from the counseling discipline and 119 Form Four (sixteen years old) students from two schools in Perak.

PROCEDURE

PHASE I:
A questionnaire of basic needs from William Glasser was constructed according to the process flow measurement instruments by Brown 1983:34 in Sidek 2005.

PHASE II:
The questionnaire was examined by five expert panels from the counseling discipline. They were Associate Professor Dr. Abdul Malek bin Abdul Rahman (UPSI), Dr. Nasir Bistamam (UPSI), Mr. Roslee Ahmad (UTM), Dr. Robert Wubbolding (The William Glasser Institute) and Associate Professor Dr. Zuria Mahmud (UKM). The selection panels were chosen due to their knowledge in Choice Theory Reality Therapy (CTRT) as well as their academic authority in the more general field of counseling.

PHASE III:
Reliability is the consistency of assessment data and can be most straightforwardly estimated by giving the same test twice and correlating the resulting scores (Murphy & Davidshofer, 2001). However, estimates of internal consistency establish an upper limit on reliability. Therefore, internal consistency was estimated by computing a coefficient alpha for the 85 items and for the 17 items within each area subscale among the 119 student participants. Test-retest reliability analysis was also examined by administering the questionnaire a second time to the same group of students. A two-week interval occurred between the initial assessment and the later assessment.

RESULTS

VALIDITY

The table 1 shows the improvement in overall comments given by the expert evaluators. Overall, the experts gave positive comments and helped in improving the questionnaire.

<table>
<thead>
<tr>
<th>Expert</th>
<th>Improving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expert 1</td>
<td>All items fit unless I tick *. These items are extreme, or double-bind (not positive or negative). There may be out-liers in the data later. These are just suggestions. May be appropriate if the sample consisted of student discipline problems.</td>
</tr>
<tr>
<td>Expert 2</td>
<td>There are some items that I mentioned to the amendments to suit the sub-constructs, and in accordance with the age of the respondents. On the whole item can be used. However, please express that to the item rating 7 and below.</td>
</tr>
<tr>
<td>Expert 3</td>
<td>On the whole sub-item constructs are accepted. Just there are some terms that can be repaired. Great efforts to produce quality instruments to measure CTRT in Malaysia.</td>
</tr>
<tr>
<td>Expert 4</td>
<td>In general, the items can be used to measure the constructs and sub-constructs in Choice Theory.</td>
</tr>
<tr>
<td>Expert 5</td>
<td>I suggest not to make any changes for the questionnaire.</td>
</tr>
</tbody>
</table>
RELIABILITY

A coefficient alpha was computed for the 85 items of the scale and resulted in a score of .885. An alpha was also computed for the seventeen items within each subscale, which was found to have coefficients of .688 for survival, .526 for belonging, .828 for power, .552 for freedom, and .731 for fun.

A test-retest reliability estimate was computed by correlating the first score with the second set of scores obtained two weeks later with a Pearson Product Moment. The resulting coefficients were .899 for the total score, .617 for survival, .482 for belonging, .806 for power, .572 for freedom and .825 for fun.

There were 38 items deleted because the items were bigger than standardized item alpha and the items were not significant. A test-retest reliability estimate was computed again by the second score with the third set of scores obtained three weeks later with a Pearson Product Moment. The resulting coefficients were .871 for the total score, .780 for survival, .653 for belonging, .845 for power, .762 for freedom, and .793 for fun.

DISCUSSION

The study finds that all expert panels agree that the needs questionnaire fulfills the theoretical aspects as suggested in the Choice Theory. The validity method corresponds with studies conducted by other researchers such as Roberson (1999), Sidek & Marzuki (2007) and Ahmad Jazimin (2006). Also, suggestions and recommendations proposed by the expert panels have been acknowledged and acted upon in order to further improve the design of the questionnaire.

The study also shows that the reliability coefficient manages to attain a good score. In the first phase, the needs coefficient scores .885. In the second phase the coefficient scored is .899. Although there are some differences in the reliability coefficient for survival, love and belonging, power, freedom and fun in the second phase, the differences are not so significant as to impact on the overall result. This is in line with Kerlinger (1979), Syaharom (1990), Majid (1998) and Othman (2001) who suggest that a coefficient of .60 and above are acceptable as a tool of measurement. This shows that the needs questionnaire possesses a high validity and reliability standard in measuring students’ needs.

Based on the results obtained further recommendation is also suggested. What is important is more work needs to be done to improve on weak items identified in the basic needs questionnaire. This is in order for the questionnaire to reach the acceptable level of validity and reliability before it can be used in the Malaysian context. One suggestion is to use other methods such as using split-method strategy to test the reliability of measuring instruments of Basic Needs. This method is not only convenient but also cheaper, faster and more practical (Sidek, 2005).

In addition, practitioners of psychology and counseling are recommended to review significant measuring devices used by other practitioners overseas so as to evaluate their suitability for use in Malaysia. Practitioners of psychology and counseling are also recommended to develop their own tool for the same purpose.

Finally, practitioners of psychology and school counselors in particular can use the basic tool for students' needs in order to improve communication thereby reducing problems that occur inside or outside of school. Also, future research should focus on the validity of this instrument using a larger sample so that the validity and reliability of this instrument can be improved and used within Malaysian context.

CONCLUSION

Overall, this study evaluates the validity and reliability of the basic needs questionnaire. The findings showed that this measure has good reliability values when tested using the Cronbach Alpha. The findings also indicate that the test device is suitable for use in the context of Malaysia as this measure has good reliability quality.
REFERENCES


