DEVELOPING AND VALIDATING A TOOL TO ASSESS EMPOWERMENT FOR TOBACCO CONTROL

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Background

Tobacco, a major cause for morbidity and mortality, a product that kills 50% of its users, still remains a legal trade (WHO, 2013). With an industry infamous for its influences on policies and legislations, the need for community involvement in tobacco control is advocated globally (Gilmore et al, 2015). Empowerment (Box 1), is known to be associated with community involvement, both as a determinant, and, as an outcome (Zimmerman, 1985). Evaluating tobacco control interventions that aim to empower individuals is a challenge.

Methods

(Study Period: 2013 November – 2014 March)

1. Developing the tool (Table 01)
   Indicators were operationalized based on Zimmerman’s psychological empowerment definition (Zimmerman, 1985). The interviewer-administered tool was developed using the methods in Table 01.

2. Tool validation (Construct validity – Exploratory Factor Analysis)
   Study design – Descriptive study
   Study setting – Badulla district
   Study Population: Individuals aged 15-59 years
   Sample size: Item to participant ratio = 1:5 (N=180)
   Sampling: PHM areas – Random sampling (3 areas)
   Households – cluster sampling
   Data Collection: Pre-trained data collectors
   Data analysis: Delphi panel determined the factor structure based on communalities, Scree test, Eigenvalues and interpretability. Internal consistency and test-retest reliability were assessed using Cronbach’s alpha and Cohen’s kappa coefficient respectively.

Results

Final tool = 27 items, 100 marks

Intrapersonal Domain (22 marks)

Perceived mastery and motivation to involve in tobacco control
1. Feel responsible to involve in tobacco control
2. Feel a need to help users quit tobacco
3. Feel a need to stop selling tobacco products to children
4. Feel a need to stop smoking in public places
5. Have skills to discuss tobacco with others
6. Have skills to discuss tobacco with policy makers
7. Have skills to work for tobacco control

Perceived competence to control tobacco within network
8. Can prevent family members from using tobacco products
9. Can prevent friends/peers from using tobacco products
10. Can work to eliminate use of tobacco products
11. Can work effectively against activities of the tobacco industry

Interactional Domain (39 marks)

Perceived awareness regarding tobacco control
12. Aware: adverse effects of tobacco smoking
13. Aware: adverse effects of exposure to passive smoking
14. Aware: adverse effects chewing tobacco
15. Aware: effective ways to help a person to quit tobacco use
16. Aware: effective ways to prevent youth and children from initiating the use
17. Aware: rules and regulations to control tobacco in Sri Lanka
18. Can identify violations of above rules and regulations
19. Aware: promotion strategies used by the industry
20. Can identify promotion strategies in day-to-day settings

Perceived efficacy for tobacco control
21. Have skills to work in a team for tobacco control
22. Have skills to involve/lead others in tobacco control

Awareness and mobilization of resources for tobacco control
23. Aware of the resources available in the community for tobacco control
24. Can use those resources for tobacco control

Objectives

To develop and validate a tool to measure empowerment for tobacco control

Table 01: Steps in the tool development process with objectives

<table>
<thead>
<tr>
<th>Steps</th>
<th>Objective</th>
<th>No. of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary tool</td>
<td>To select the items and to decide the wording and translation</td>
<td>27</td>
</tr>
<tr>
<td>Iteration 1</td>
<td>To select items and name factors</td>
<td>27</td>
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<tr>
<td>Iteration 2</td>
<td>To reach consensus on the items</td>
<td>27</td>
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<tr>
<td>Pretest</td>
<td>To improve wording to suit the local context and order of the questions</td>
<td>27</td>
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<tr>
<td>Iteration 3</td>
<td>a. To select items and name factors based on factor analysis results</td>
<td>27</td>
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<tr>
<td></td>
<td>b. To formulate the scoring scheme</td>
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</tbody>
</table>

Conclusion and Recommendations

Developed tool can be used in similar contexts to measure empowerment for tobacco control. If used in different contexts (cultural and socio-political) appropriateness and wording should be assessed, preferably via a Delphi technique and cognitive interviews as in the present study.

References


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