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Skill Development and Motivational Enhancement to Change Drinking Behavior in Sabah Borneo Asong Joseph¹ and Nanthakumar Tamilselvam² ¹ City University Malaysia

Received: 14 December 2019 Accepted: 1 January 2020 Published: 15 January 2020

7 Abstract

5

Alcohol is the third highest risk factor for disease prevalence in the world and threatens the 8 quality of life of people and societies. Consumption of alcohol is a challenge in a few of the 9 native communities of Sabah and Sarawak with the highest prevalence of risky drinking in 10 Malaysia. This study aimed to compare drinking refusal self-efficacy (DRSE) and quality of 11 life (QOL) between the experimental group and the control group before and after the 12 Motivational Enhancement Intervention (MEI); and to compare DRSE and QOL of the 13 experimental group before and after the MEI. A quasiexperimental design was used to assess 14 the effectiveness of MEI at baseline and three months follow-up by using pretest and posttest 15 design. A total of 56 villagers in the West Coast Division of Sabah participated in this study. 16 Purposive sampling by using Alcohol Use Identification Test (AUDIT) was applied to select 17 hazardous and harmful drinkers between age 18 to 56 years old. Data was analyzed by using 18 IBM SPSS version 26.0. The result found a significant difference in DRSE and QOL in the 19 intervention group before and after MEI. A significant difference in these measures was also 20 found between the intervention and control groups after MEI. The study results are significant 21 to provide direction for the next action plan for intervention purposes aimed to increase the 22 ability to resist drinking alcohol in various situations and to improve the QOL among the 23 indigenous communities of Sabah. 24

25

28 1 Introduction

lcohol is the third highest risk factor for disease burden globally (WHO, 2018). Alcohol is one of the most popular 29 psychoactive substances in the world (Morgan et al., 2013). The harmful use of alcohol ranks among the top 30 five risk factors for disease, disability, and death throughout the world (WHO, 2018). Alcohol has been linked to 31 more than 200 diseases and injury conditions ??WHO, 2014; ??ehm et al., 2012). Alcohol has effects on every 32 organ in the body but these effects depend on the individual's Blood Alcohol Concentration (BAC) over time 33 34 (Zakhari, 2006). The BAC level and the individual's reaction to the BAC is influenced by their gender, age, 35 weight, metabolism, frequency of drinking, the duration of drinking, amount of alcohol and the amount of food 36 in the stomach prior to drinking ??WHO, 2015).

According to the World Health Organization (WHO, 2011) and National Institute on Alcohol Abuse and Alcoholism (2018), there were more than 2 billion people worldwide consuming alcoholic beverages and 76.3 million had an alcohol use disorder. Malaysia is reported to be the tenth largest consumer of alcohol in the world (Arshad et al., 2015; ??HO, 2011). Each year, Malaysian adults spend a total of USD 500 million on alcohol (WHO, 2011). Mutalip et al. (2014) reported that one in two current drinkers in Malaysia engaged in harmful drinking patterns. The highest prevalence of alcohol consumption in Malaysia is found among 18 to 39-year-olds

Index terms— drinking refusal self-efficacy; alcohol consumption; quality of life; motivational enhancement;
 indigenous communities.

which found 49.5% of all the risky drinkers. Sabah is reported as having a higher prevalence of high-risk drinkers
with 18.4%, after Kuala Lumpur (20.3%) and Sarawak (19.7%). Some groups of the indigenous communities in
Sabah (such as Kadazandusun, Murut, Sungai, and Rungus) consider alcohol to be part of everyday life and a
way to maintain their culture (Joseph et al., 2020;Lasimbang et al., 2015;Jamali et al., 2009). Various forms of
traditional liquor are easily available and can be bought at a house whose owner had been producing them in
small quantities, at the village sundry shops and at restaurants or eating stalls (Jamali et al., 2009).

Drinking alcohol is known to have some benefits such as helping to celebrate and socialize, and enhancing 49 the joyfulness of ceremonies (Fortin, et al., 2015; Hoops, 2011; Jamali et al., 2009). It is also used as part of 50 social, business, and family life, an enjoyable and habitual accompaniment to food and celebrations. In Sabah, 51 alcohol is considered to be a part of traditional culture, especially for some indigenous groups (Shoesmith et al., 52 2016;Lasimbang et al., 2015). Some indigenous communities in Sabah, such as Kadazandusun, Murut, Sungai, 53 and Rungus (Jamali et al., 2009), consider alcohol to be part of everyday life and is one key factor in maintaining 54 the culture and traditions (Jamali et al., 2009). Drinking alcohol to the point of intoxication has never been part 55 of any tradition among these indigenous groups (Asmat, 2018). This abuse of alcohol can destroy the aim of the 56 indigenous group cultures and traditions, where it was used to welcome people as well as enjoying ceremonies. 57

58 The government of Malaysia has acknowledged the harmful effects of alcohol on the community and has 59 introduced various strategies to address these problems. However, it needs the voluntary people to go to the 60 rehab center or hospital for further treatment, while people will only go to the hospital or rehab center when they are sick. According to Di Clemente et al. ??1999), motivation is a key factor in alcohol use disorder treatment 61 by influencing clients to seek, comply and complete treatment for long-term successful reduction or cessation in 62 their drinking. Motivational interviewing (MI) (Miller et al., 2012) is a person-centered counseling style aimed 63 at helping clients to explore and resolve ambivalence for change. This method works on facilitating and engaging 64 motivation within the client in order to change behavior. This approach is an evidence-based communication 65 style that highlights the importance of motivation, ambivalence, and resistance for behavior change. 66

The Motivational Enhancement Intervention (MEI) by Joseph et al. (2019) aimed to reduce the negative impact of drinking behavior for individuals and communities. The MEI is designed to enhance participants' motivation to change their drinking behavior. It uses multimethod approaches including focus group discussion and peer support groups to increase participants' motivation to change their drinking behavior. The module provides guidelines, suggested activities, planning templates and information regarding alcohol related benefits and harm.

The MEI method combines Motivational Interviewing (MI) (Miller, 2012) with the brevity of less intensive intervention. The intervention comprises 4 sessions over 12 weeks, each running for between 60 to 90 minutes. In the first session, the facilitator works on identifying and naming ambivalence using the Diamond Dialogue tool, building motivation for change and constructing a decisional balance for a change. During session 2, the facilitator concentrates on developing a change plan with the participant. This involves setting behavioral goals and strengthening the participants' commitment to change by using MI approaches that are appropriate for the participants' stage in the change process. It also entails helping the participants develop a specific plan for change

 $_{\rm 80}$ (e.g., what he or she will do, how he or she will do it, and who can help).

During sessions 3 and 4, the facilitator focuses on reviewing participants' progress and renewing motivation and commitment. This involves discussing and overcoming challenges and solving ambiguities as well as exploring the level of self-strength that the participant has about changing their desired behavior. Termination of the treatment and future plans are also discussed at the end of session 4, which incorporates a summary of the treatment progress. The facilitator reviews motivational themes, summarizes the participants' stage of change, elicits self-motivational statements for maintaining change, and explores future areas of change and resources for help.

88 2 III.

⁸⁹ 3 Hypothesis

90 H1a: There is no significant difference in drinking refusal self-efficacy between the experimental group and the 91 control group before the experiment.

H1b: There is a significant difference in drinking refusal self-efficacy between the experimental group and the control group after the experiment.

H2: There is a significant difference in drinking refusal self-efficacy of the experimental group before and after
 the Motivational Enhancement Intervention implementation.

H3 a: There is no significant difference in the quality of life between the experimental group and the control
 group before the experiment.

98 4 H3 b:

⁹⁹ There is a significant difference in the quality of life between the experimental group and the control group after ¹⁰⁰ the experiment.

H4: There is a significant difference in the quality of life of the experimental group before and after the
 Motivational Enhancement Intervention implementation.

103 IV.

¹⁰⁴ 5 Method a) Participants and Location

Purposive sampling was used to select hazardous and harmful drinkers from the Sabah indigenous communities. 105 According to Babor et al. ??2001), hazardous and harmful drinkers are recommended for brief education and short 106 107 intervention to reduce alcohol-related harm. Understanding the impacts of drinking style on alcohol-related harm will indeed help to promote effective approaches for further study. Assessment through Alcohol Use Identification 108 Test (AUDIT) was performed to identify participants who scored between 8 to 15 (hazardous drinker) and 16 to 109 19 (harmful drinker) based on AUDIT. Data has been collected during a community meeting, 'Leaders United 110 Event of indigenous people of Sabah' at Partnership of Community Organization (PACOS-Trust)) located in 111 Penampang, Sabah. PACOS-Trust is a communitybased organization dedicated to the support of indigenous 112 communities in Sabah. A sample of 171 respondents form the Sabah indigenous communities represented by the 113 Sabah West Coast Division were screened and only 56 villagers who were at the level of hazardous and harmful 114 drinkers were eligible and had agreed to participate in the assessment. 115

¹¹⁶ 6 b) Materials and Procedures

There were three measurements used in this study. First, Alcohol Use Identification Test (AUDIT) by Saunders 117 et al. (1993) was used to identify the drinking pattern of participants. The AUDIT consists of a 10-items self-118 report tool that measures the amount and frequency of alcohol consumption (item 1 to 3), alcohol dependence 119 (item 4 to 6), and alcohol problems related to alcohol consumption (item 7 to 10). Scores range from 0 to 40, 120 and the generally accepted cut-off point of the scale to identify potentially hazardous alcohol intake is 8. For 121 the purpose of this study, those who scored between 8 to 19 on AUDIT were eligible to participate in this study. 122 Second, Drinking refusal self-efficacy questionnaire-revised (DRSEQ-R) was modified by Oei et al. (2005) to 123 measure the participant's ability to resist drinking alcohol in various situations. It consists of a 19item self-report 124 questionnaire that uses a 6-point scale response with the following choices from 1 (I am very sure I would drink) 125 to 6 (I am very sure I would NOT drink) with a higher score reflecting their DRSE. The measure incorporates 126 three subscales reflecting drinking refusal self-efficacy relating to social pressure (item 1 to 5), emotional relief 127 (item 6 to 12) and opportunity to drink (item 13 to 19). This DRSEQ-R new factor structure with confirmatory 128 factor analysis found the DRSEQ-R Alpha reliability to range from .87 to .94, and test retest reliability range 129 from .84 to .93 (Oei et al., 2005). An example item for DRSEQ-R is "When I am out for dinner ?". 130

131 Third, Personnel wellbeing index -Adult (PWI-A) which was developed by the International Wellbeing Group of Australia (Cummins et al., 2013) to measure an individual's quality of life in accordance with his or her wellbeing. 132 The PWI-A contains 8-items of well-being assessed by the PWI-A which are: standard of living; personal health; 133 achieving in life; personal relationships; personal safety; community-connectedness; future security; spirituality 134 and religion. This widely used 8question survey has an 11-point response set. The possible responses are anchored 135 on each end with the responses completely dissatisfied at the zero points and completely satisfied at the 10-point 136 end of the scale. The Cronbach alpha for the PWI-A, in Australia and overseas, is stated to be between 0.70 and 137 0.85 (Cummins et al., 2013). 138

This study started with screening by using AUDIT to select participants which have scored between 8 to 19 on AUDIT or were known as hazardous and harmful drinkers. Those who were eligible and agreed to participate were then asked to complete the consent form and answer a set of questionnaires. A set of the questionnaire consists of demographic questions, DRSEQ-R and PWI-A was given for the pretest propose. Participants then went through the Motivational Enhancement Intervention (MEI) which aimed to increase their DRSE and to improve their QOL. Posttest data were collected at baseline and three months followup. The internal consistency of the DRSEQ-R as measured using Cronbach's alpha was .862 while PWI-A was .931.

¹⁴⁶ 7 c) Data Analysis

Data was analyzed by using IBMSPSS.26.0 according to the objectives of this study. Statistic descriptive was 147 used to measure the demographics of participants. The participants were characterized by using basic frequencies 148 and means, while baseline characteristics of the experimental and control groups were compared using a non-149 parametric test. Nonparametric statistics such as Mann-Whitney U Test and Wilcoxon Signed-Rank Test were 150 used to test the hypothesis. The Mann-Whitney U test was used to measure the comparison of drinking refusal 151 and quality of life between experimental groups and control groups before and after the experiment. The Wilcoxon 152 Sign Rank Test was used to measure the comparison of drinking refusal self-efficacy and quality of life before and 153 after the intervention of the experimental groups. 154 155 V.

156 8 Result

157 The results and discussions are reported according to the objectives of this study as follow:

The differences in drinking refusal self-efficacy and quality of life between the experimental group and the control group before the Motivational Enhancement Intervention Implementation.

11 OBJECTIVE 1: COMPARING THE DRINKING REFUSAL SELF-EFFICACY OF THE EXPERIMENTAL GROUP BEFORE AND AFTER THE MOTIVATIONAL ENHANCEMENT INTERVENTION

IMPLEMENTATION COLLECTIVE COMPARABING STHE CORING LING of life of the 160 REFLISTAL TERREFERENCIACTE FTWEENig THEATEXPERIMENTAL CROUP--.295, 161 AND)THEUCIONTROL GROUP BEFORE AND AFTER THE EXPERIMENT. 162 of the experimental group control group was 29.14 and 27.86 respectively. Meanwhile, the mean rank of the 163 pretest quality of life score for the experiment group and control group was 29.98 and 28.02 respectively. The 164 close mean rank of the groups in the pretest indicated that before the implementation of the MEI Module, the 165 experimental and control groups had somewhat equal pretest in drinking refusal self-efficacy and quality of life 166 levels. Therefore, the hypothesis H1a 167 Volume XX Issue X Version I 168

¹⁶⁹ 9 (H)

and H3a were supported. The summary of the results showed in Table 1. The differences in drinking refusal
 self-efficacy and quality of life between the experimental group and the control group after the Motivational
 Enhancement Intervention Implementation.

The results of Mann Whitney U test for the posttest in drinking refusal self-efficacy and quality of life of the 173 participants in the experimental and control group showed a significant difference drinking refusal selfefficacy 174 (U = -3.829, p > .05) and quality of life (U = -2.208, p > .05). The mean of the posttest drinking refusal 175 self-efficacy score of the experiment group was 20.16, while the participants in the control group had a posttest 176 drinking refusal self-efficacy score mean rank of 36.84. The mean rank of the posttest quality of life score of the 177 experiment group was 33.30, while the participants in the control group had a posttest quality of life score mean 178 rank of 23.70. The close mean rank of the groups in the posttest indicated that before the implementation of 179 the MEI Module, the experimental and control groups had no equal posttest in drinking refusal self-efficacy and 180 181 quality of life levels. Therefore, hypothesis H1b (there is a significant difference in drinking refusal self-efficacy between the experimental group and the control group after the experiment) and H3b (there is a significant 182 difference in the quality of life between the experimental group and the control group after the experiment) were 183 supported. The summary of the results showed in Table 2. The differences in drinking refusal self-efficacy and 184 quality of life of the experimental group before and after Motivational Enhancement Intervention implementation. 185 Wilcoxon Signed-Rank Test was used to test the difference in drinking refusal self-efficacy and quality of life of 186 the experimental group before and after the Motivational Enhancement Intervention (MEI) module. The result 187 of the Wilcoxon Signed-Rank Test for the pretest and posttest in drinking refusal self-efficacy and quality of life 188 of the participants in the experimental group showed significant differences in drinking refusal self-efficacy (Z 189 = -3.846, p < .05) and quality of life (Z = -2.369, p < .05). The results explained that the MEI Module has 190 successfully increased drinking refusal selfefficacy and quality of life of participants. Therefore, the hypothesis 191 H2 (there is a significant difference in drinking refusal self-efficacy of the experimental group before and after the 192 Motivational Enhancement Intervention implementation) and H4 (there is a significant difference in the quality 193 of life of the experimental group before and after the Motivational Enhancement Intervention implementation) 194 were supported. The summary of the results showed in Table 3. 195

196 10 Discussion

The aim of this study is to examine the effectiveness of the Motivational Enhancement Intervention (MEI) Module towards the intervention group. Specifically, this study addressed increasing drinking refusal self-efficacy and quality of life of indigenous communities of Sabah. Discussion is presented according to the research objectives.

²⁰⁰ 11 Objective 1: Comparing the drinking refusal self-efficacy of
 the experimental group before and after the Motivational
 ²⁰² Enhancement Intervention implementation. Objective 2:
 ²⁰³ Comparing the drinking refusal self-efficacy between the
 ²⁰⁴ experimental group and the control group before and after
 ²⁰⁵ the experiment.

206 The result of 12 weeks Motivational Enhancement Intervention (MEI) Module implementation showed a 207 significant difference in drinking refusal selfefficacy (DRSE) of the experimental group before and after the 208 experiment. This study also showed that there is no significant difference in drinking refusal selfefficacy between 209 the experimental group and the control group before the experiment, however, there is a significant difference found after the experiment. It explains that the MEI has succeeded in improving participants' ability to refuse 210 from drinking in a hazardous and harmful way. On the other hand, this study explains that participants were 211 able to refuse from drinking in hazardous and harmful way when they were with someone (e.g. friends, spouse, 212 family member), or while doing some activity (e.g. watching television, reading, having lunch/dinner, after sport, 213 at club/pub), or in emotionally problem (e.g. stress, down, anxiety, upset, angry, worried, sad, nervous). This 214

concept also refers to the concept introduced by Oei et al. (??005) that explains the DRSE as an ability of individuals to resist drinking in various circumstances.

DRSE is highly related to alcohol consumption which can influence the drinking pattern of an individual. 217 It is an important variable to be included in intervention when it focuses on reducing hazardous and harmful 218 drinking patterns ?? Oei et al., 2006). DRSE as a predictor of alcohol consumption ?? Oei et al., 2006) and it 219 was negatively related to both volume and frequency of drinking ??Hasking et al., 2002). DRSE is related to 220 selfawareness which represents the ability to control or limit drinking (Foster et al., 2014). The individuals with 221 high self-awareness are predicted to have less drinking ??La Brie et al., 2008). Based on these findings, this study 222 223 can explain that participants who have high DRSE will automatically reduce their alcohol consumption which 224 ranges from hazardous and harmful risk to low risk of alcohol consumption. This supported the study finding 225 which showed the increase of DRSE before and after the MEI Module implementation.

226 Increasing DRSE among the indigenous communities of Sabah becomes an interesting focus in this study as 227 alcohol plays an important role in these communities. Among the indigenous communities of Sabah, alcohol is considered as a key ingredient in their happiness and overall well-being that used to improve their social 228 connectedness and social activities, whereas without alcohol their life is so uninteresting (Shoesmith et al., 2018). 229 It can be explained by using action-network theory (ANT) by Law (1991). According to ANT, alcohol is a part 230 of the network of relationships in the indigenous communities of Sabah. In fact, these communities enjoy alcohol 231 when being in a community gathering, family parties and even consume more during festive seasons, weekends 232 and when with peer groups (Jamali et al., 2009). It is explained that alcohol is an agent in the social setting of 233 drinking culture which participates in social interaction and working with people to create joyfulness. 234

This study found that there is a contradiction about drinking alcohol in these communities. These communities drink alcohol to maintain their culture but somehow, they also realize the negative effects caused by alcohol in their community. It can be explained by the theory of cognitive dissonance (Festinger, 1957) that clarifies the contradiction between their belief and current action. This situation explains the dissonance that happened when they want to maintain their culture of drinking but at the same time, they also want to avoid the negative consequences of alcohol. According to Festinger (1957), the greater the dissonance in someone, the more he or she will be motivated to resolve it. On the other hand, the greater the dissonance Volume XX Issue X Version I

$_{^{242}}$ 12 (H)

behavior of the participants in this study, the more they are motivated to resolve it. This contributes to greater success in DRSE in this study because the MEI Module is working on resolving ambivalence by changing action (drinking behavior) to fit with their current belief (thinking that their drinking pattern causes harm). Besides, the use of the MI approach is also playing an important role in resolving ambivalence that leads participants to change (Miller & Rollnick, 1991) by enhancing participants' motivation to change their drinking behavior.

Objective 3: Comparing the quality of life between the experimental group and the control group before and after the experiment. Objective 4: Comparing the quality of life of the experimental group before and after the Motivational Enhancement Intervention implementation.

251 The results clearly showed that the quality of life (QOL) of participants in the experimental study have been 252 increased after the Motivational Enhancement Intervention (MEI) Module implementation. Besides, there was no significant difference in the quality of life between the control group and the experimental group before the 253 experiment. However, a significant difference in the quality of life was found between the control group and the 254 255 experimental after the experiment. It explains that the MEI has succeeded to improve the well-being of the indigenous communities of Sabah after the 3 months follow-up. It can conclude that participants who are able to 256 refuse from drinking in a hazardous or harmful way in various situations, would be beneficial to reduce the risk 257 of drinking as well as improving their QOL. A similar result was also found in previous studies which stated that 258 participants who reduced their alcohol consumption were reported with high QOL (Walters et al., 2009;Deappen 259 260 et al., 2014; Frischknecht et al., 2013).

261 Quality of life becomes an individual umbrella in the concept of human beings. This concept is defined as 262 a complete physical, mental and social well-being ??WHO, 1985). The ability of an individual to develop and 263 improve QOL will significantly impact his or her health and well-being (Yamaguchi, 2015). In conclusion of this 264 study, people who able to refuse from drinking in risky behavior (hazardous and harmful pattern), would also be able to avoid alcohol-related harm and it significantly impacts on their life satisfaction which includes standard 265 of living, health, life achievement, personal relationships, safety feeling, being part of community, security, and 266 religion. This study area is important to measure social health, emotional health, and relationships with other 267 people and our environment, including values and attitudes (Educanda, 2018). It also helps to reduce the 268 tendency of an individual to be involved in substance abuse. 269

Overall results of this study supported previous findings that found the brief motivational intervention to enhance motivation showed effective to change drinking behavior (DiClemente et al., 1999;Saunders et al., 1993; ??abor et al., 1992;Miller et al., 1991). In fact, this study has proven that the adaptation of Motivational Enhancement Therapy (by DiClemente et al., 1999) with Motivational Interviewing approach (by Miller et al., 1991) that have suited the culture of indigenous communities of Sabah showed effective to increase readiness to change, drinking refusal self-efficacy. At the same time, it's also succeeded in reducing the risk of drinking and alcohol-related harm as well as improving well-being in life satisfaction among hazardous and harmful drinkers.

277 13 VII. Conclusion and Direction for

278 Future Research

This study has shown a significant difference in drinking refusal self-efficacy (DRSE) and quality of life (QOL) 279 in the intervention group before and after motivational enhancement intervention (MEI) implementation. A 280 significant difference in these measures was also found between the intervention and control groups after the 281 implementation of MEI. Those results are significant to provide direction for the next action plan for intervention 282 purposes which aimed to increase the ability to resist drinking alcohol in various situations and to improve 283 the QOL among the indigenous communities of Sabah. This finding adds evidence-based data to the existing 284 literature that by enhancing motivation to change drinking behavior in the intervention succeed to increase 285 drinking refusal selfefficacy and quality of life of the participants. 286

This study proposes some directions for future research. First, a support group at the community level would 287 be an interesting topic to be studied. The support group at the community level would be able to help the 288 community with alcohol problems to provide supportive care and make it sustainable. Future research may 289 include collaborative networks between professional or stakeholder groups in the community-based intervention 290 to reduce alcohol-related harm. The research should focus on modifying drinking cultures that could affect 291 change in local policies, structures, and systems, for example improving local policies on alcohol, strengthening 292 collaborative networks between professional or stakeholder groups, or involving local communities in efforts to 293 achieve change. Ensuring the sustainability of the effectiveness program requires changes in behaviors and social 294 structures to be embedded in local policies, cultures, and practices. Therefore, collaborative networks between 295 professional and stakeholder groups can be powerful mechanisms to address alcohol problems in communities as 296 well as making its sustainable program. Follow-up intervention Year 2020 297

Skill Development and Motivational Enhancement to Change Drinking Behavior in Sabah Borneo of alcohol use between current beliefs and actual after 3 months would also be interesting to study to examine the sleeper effect after the termination of the intervention.

³⁰¹ 14 a) Ethics Approval

This study was given ethical approval by the Ethics Committee at Universiti Malaysia Sabah with ethical approval code JKEtika3/17(3).

³⁰⁴ 15 b) Conflict of Interest

Author has declared that no competing interests exist.¹

1

Scale Drinking efficacy	refusal	self-	Group Experimental	N 28	Mean Rank 29.14	U 295	Sig .768
Quality of li	ife		Control Experimental Control	28 28 28	27.86 29.98 28.02	222	.825

Figure 1: Table 1 :

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		,	
	c		

Scale			Group	Ν	Mean Rank	U	Sig
Drinking efficacy	refusal	self-	Experimental	28	20.16	-3.829	.000
Ŭ			Control	28	36.84		
Quality of	life		Experimental	28	33.30	-2.208	.027
			Control	28	23.70		

3						
Scale Drinking refusal self- efficacy	Treatment Before	N 28	Median 43.00	Z -3.846	Sig .000	Hypothesis Supported
Quality of life	After Before After	$28 \\ 28 \\ 28$	$34.00 \\ 59.00 \\ 62.00$	-2.369	.018	Supported
VI.						

Figure 3: Table 3 :

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305 .1 Acknowledgement

This study was financially supported by the Ministry of Education, Malaysia through the scholarship Mybrain15. I would like to thank my supervisors (Prof. Dr. Helen Benedict Lasimbang, Assoc. Prof. Dr. Chua Bee Seok and Sandi James) for help and guidance in doing this study, and to the head of villages for giving the permission to conduct this study in their village. I also appreciate all villagers for participation and information given in this study.

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