Post-deployment Social Support Predicting Successful Adjustment among Nigerian Military Returnees from Boko-Haram Insurgency

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Introduction

Globally, there has been a growing interest and concerns among military authorities and researchers in understanding association between military deployment and its association with subsequent psychological adjustment [1,2]. In Nigeria, for instance, research evidence suggests that a significant number of military personnel experience severe psychological problems after deployment [3,4]. However, most current knowledge of the postwar military adjustment process is has focused exclusively on psychological effects, particularly on the development of posttraumatic stress disorder [3,4]. Interestingly, research evidence suggests that apart from the usual distress experience by combatants, returnee military personnel experience several changes that impede adjustment and successful societal integration [5]. Post-deployment adjustment involves successful adaptation and positive functioning in meeting challenges and responding to changes in a social environment and workplace after homecoming [6]. This includes readjustment to personal, family, work life after long period of stay in a seemingly hostile combat environment. In a normal military and societal setting where military personnel has not experienced war, he may have more time and robust interaction with his family and work, experience less anxiety and physical health concerns and be more responsive to changes in his social environment and work setting. However, after a long detachment from the society and attachment to unpleasant and unique war environment, soldiers orientation may change, and as a result, recently returned members may feel isolated or disconnected from the rest of the world thus making adjustment difficult and societal reintegration difficult [5].

Returning from deployment typically involves rapid transportation home, allowing little time for the returning military members to decompress from the strains and high tempo of their mission. This time can be an extremely important period for personnel to put the events of their tour in perspective and allow them to do so with others who experienced similar events. Thus, a quick return home can be extremely dislocating for some military personnel and can, in some cases, exacerbate the various factors that increase homecoming stress. As a result, recently returned members may feel isolated or disconnected from the rest of the world, including co-workers, friends and family. This situation could lead to intra- and/or inter-personal changes that may influence the quality of their relationship with family, friends, and coworkers, as well as their attitudes concerning military career. At home, their children have matured while they were away, and these families may have developed new routines to which the returning military member must adjust by Thompson & Gignac in 2002. Similarly, returning military personnel usually come back to increased bureaucracy, red tape, and decreased work challenges, relative to the activity and purpose they felt during their deployment [7]. Returning home also can be associated with significant organizational disruptions (e.g., unit reconfigurations, postings). All these could pose a serious problem to social and work adjustment leading to poor productivity and efficient performance. Scholarly speaking, successful adjustment and reintegration of military personnel to societal life is key to their psychosocial wellbeing, workplace performance and productivity [8]. Military
personnel who experience adjustment problems have been found to show greater feelings of obligation (as opposed to desire) to remain in the military, higher levels of negative job-related affect (particularly in the work domain), and greater intentions to leave the military [9]. This suggests that for military personnel to perform optimally in the workplace and enjoy a robust social wellbeing after deployment, they have to adjust and be integrated fully into the society. Thus, identifying what enhance post-deployment adjustment is key for promoting reintegration and operational efficiency of military returnees from combat operations.

Interestingly, previous research have demonstrated that the support of family, friends and community members has a significant restorative role in the adaptation of military combatants [10]. [11] reported that military veterans with long-term adjustment problems are those who experience additional stress, high combat events and poor social support network. Moreover, Thompson and Gignac 2002 reported that if military members return to a unit where other members did not deploy, they may face a lack of support from their colleagues. This suggests that many returnees from the insurgency operation may be experiencing lack of social support from colleagues, especially that not every one of them was deployed. According to [4] many military personnel who have returned from the north-east have vehemently complained about lack of support and have also shown unusual aggression and cynicism, indulged in use of harmful drugs and have become a problem in their respective barracks. This suggest that, many of these personnel (with reported lack of support) may be experiencing adjustment problems, yet, little is known about the role that social support play in enhancing successful adjustment in this population. Furthermore, previous understanding on the problem of military adjustment comes from foreign studies, most of whom are conducted many years after homecoming [12]. This may make the problem unattended to for long, bringing imminent consequences on the health and inability to effectively handle prevailing situations. Short-term post-deployment adjustment is important because those who have returned needs to adapt swiftly and attend to other increasing security challenges facing the nation. Thus, short-term adaptation is crucial not just for the psychosocial wellbeing but also for its ability to guarantee rapid operational efficiency of military personnel in emerging security challenges. Incidentally, domestic studies implicate poor post-deployment social support to psychological distress among Nigerian security personnel [13]. This also suggests that inadequate social support to the returnee veterans may play a major role in their adjustment process.

During the Boko-Haram operation, military personnel were faced with devastating situations ranging from killings, witnessing death of colleagues, exposure to improvised explosives [4]. These events are extraordinary because they may overwhelm the ordinary human adaptations to life and produce profound and lasting changes in physiological arousal, emotion, cognition that may affect social life and occupational functioning. In addition, given their intense nature, traumatic experiences can alter individuals’ psychological, biological, and social equilibrium making a adaptation difficult [14]. However, published researches have focused majorly on how exposure to these experiences has affected the physical and psychological health symptoms [13]. There have been little research examining the impact of psychological factors, particularly, on the role post-deployment that post-deployment social support play in military personnel’s adjustment to major areas of family work and the society. Given the deleterious effects that poor adjustment portends for the military personnel, their families and the general security of the country, and existing paucity of research especially in Nigeria where there is high number of military returnees in recent times, this paper empirically examined

1. The relationship between combat exposure, post-deployment social support and post-deployment adjustment among military returnees from Boko-Haram insurgency
2. whether combat exposure and post-deployment social support will have a significant joint influence on short-term (6-12-months) adjustment among military personnel who had returned from the insurgency operation
3. We hypothesized that military personnel who experienced combat events but reported higher levels of post-deployment social support would experience better adaptation within one year of homecoming.

**Method**

**Participants**

Participants in this study represented a sample of the active duty military service personnel who had returned from the Boko-Haram operation in the north-east. A total of 322 military personnel were purposively sampled in a cross-sectional survey at six different military locations within Bauchi, Gombe and Plateau states. Demographic information revealed that 88(27.3%) were single, 226(70.2%) married while 8(2.5%) were divorced. Analysis on participants’ rank revealed that 70(21.7%) were corporal, 46(14.3%) Lance corporal, 92 (28.6%) corporal, 72 (22.4%) sergeant, 10(3.1%) staff sergeant 32(9.9%) belong to the other ranks. Concerning location of deployment, a total of 98(30.4%) were deployed to Bornu, 200(62.1%) went to Yobe, while 25(7.5%) went to other locations. Participants’ length of deployment ranged between 1 to 3 years and all of the participants have been deployed for more than two times for the operation.

**Measurement**

**Demographic variables**

Participants demographic data were obtained using a section of the questionnaire which requested information on age, rank, marital status, location of deployment, number of deployments and cumulative duration that each participant spend in the deployment.

**Combat exposure**

Combat exposure was measured using 7-item self-report combat exposure scale [15]. This a widely used measure that assess...
combat exposure specifically among military and paramilitary personnel. The scale was designed to measure all forms of combat situations such as wars, peacekeeping operations and terrorism. Items are rated on a 5-point frequency (1 = no or never to 5 = more than twelve times a week). Scores above the mean (Mean=18.39) indicates high combat exposure while scores below it indicates low combat exposure. The scale has been widely used among military veterans and found to be a sound psychometric measure with Cronbach alpha of .80 reported (Keane, Caddell, & Taylor; 1988). In Nigerian military population, the scale has been used and found to be good measure of combat exposure [4].

Post-deployment social support

Post-deployment social support was measured using the post-deployment social support scale [16], which is a 10-item self-report measure that assess the level of emotional and instrumental assistance provided to a combatant by his family, friends and significant others upon returning from combat operations. Respondents indicated how much they agreed or disagreed with a set of statements related to social support after deployment. Items were rated on a 5-point Likert scale with ranges that ranged from 1 = strongly disagree to 5 = strongly agree. Respondents were asked to “Please decide how much you agree or disagree with each statement and circle the number that best fits your choice. Sample questions include: “My family and friends understand what I went through in the Armed Forces”, “My family members or friends would lend me money if I needed it”. High scores indicate high social support while scores below the mean was used to infer low social support. Internal consistency as reported by the authors is 74 [16].

Post-deployment adjustment

Post-deployment adjustment was assessed using the Post-deployment Readjustment Inventory [17]. This is a 36-item self-report measure on which respondents rated their agreement with how true they were able to adjust in four major domains of functioning since returning from deployment. These areas include adjustment to personal life (i.e., feeling like oneself again), family (i.e., feeling like a member of the family again), work (i.e., adjusting back to normal military worklife), and cultural or social adjustment. All the items were rated on a 5-point Likert scale (1 = not at all to 5 = completely). Participants were required to rate how true each of the items was related to them since their return from the operation. All items were scored and summed for a total score that could range from 36 to 180 with higher scores indicating greater or better post-deployment adjustment/reintegration. The instrument has been widely used among military population and found to have very sound psychometric properties with cronbach alphas for the whole items (domains) ranging between .78 to .89, suggesting that, in line with past findings, moderate to high internal consistency of the scores (Blaise, Thompson & McCreary,2006).

Covariates

The covariates that were measured were selected because they represent factors that from a military standpoint were likely to be an added source of poor adjustment or have the potential to affect adjustment of military personnel in the society. These covariates included number of deployments and the cumulative length of deployment experienced by each veteran.

Procedure

After obtaining approval from the relevant military authorities, the researchers approached the participants in their respective locations for screening interview. One of the researchers, a military officer, who actively participated in the insurgency operation, conducted the recruitment and screening exercise. The exercise took place six different military units that cut across Bauchi, Gombe and Plateau states and included only members who returned between six months and one year period. The reason for choosing military barracks within these states was due to the fact that a sizeable number of returnees resides within these zones for emergency purposes. All service members who met inclusion criteria were provided with a participant information sheet that contained a written description of the study including the study purpose, procedures, duration, risks, benefits, and the right to withdraw at any time without penalty. Participants who read and indicated interest were provided with a standardized questionnaire to fill under a conducive atmosphere.

In all, three hundred and twenty-two (322) respondents were purposively sampled across the six barracks. The reason for using purposive sampling was because the study specifically targeted only military personnel who actively participated in the counter insurgency operation and met other inclusion criteria. Also, due to the security situation in the country at the time of conducting this study and the nature of military job, the use of a randomized technique was practically impossible. Out of the four hundred questionnaires administered, only three hundred and twenty-two were properly filled. Questionnaires not properly filled were discarded. The study spans for about two weeks after which completed questionnaires were retrieved and subjected to data analysis.

The Pearson r correlation statistics was used to establish the relationships between study variables. Statistical Package for Social Sciences (SPSS-20) was used to analyse data. Particularly, Hierarchical multiple regression statistics was used to test for the independent role of combat exposure and social support on post-deployment adjustment. The moderating effect of social support in the relationship between combat exposure and adjustment was also tested with hierarchical regression analysis.

Ethical consideration

The study was approved by the Nigerian military authorities in the various locations sampled. Also, through the information provided on the questionnaire, respondents were informed that participation was voluntary and that the data obtained would be treated with absolute confidentiality. Participants were duly consented and briefed about the study before given questionnaires to fill. To ensure confidentiality and anonymity, all the questionnaire
copies administered were coded without any form of identification. Only relevant information were collected so as to avoid unnecessary invasion of their privacy. Participants were not subjected to any form of physical or psychological harm throughout the study period.

Results

(Table 1)

Table 1: Zero-order correlation showing relationship between the independent, moderating and the dependent variable.

<table>
<thead>
<tr>
<th>Variables</th>
<th>x̅</th>
<th>S. D</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Adjustment</td>
<td>106.93</td>
<td>22.82</td>
<td>-</td>
<td>-372*</td>
<td>.438*</td>
<td>-0.024</td>
<td>-0.103</td>
</tr>
<tr>
<td>Combat exposure</td>
<td>18.59</td>
<td>5.17</td>
<td>-</td>
<td>.216*</td>
<td>0.042</td>
<td>-1.32*</td>
<td></td>
</tr>
<tr>
<td>Social support</td>
<td>33.63</td>
<td>9.58</td>
<td>-</td>
<td>-.256**</td>
<td>-31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of deployments</td>
<td>4.06</td>
<td>3.69</td>
<td>-</td>
<td>-</td>
<td>0.086</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration of deployments</td>
<td>3.44</td>
<td>3.93</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**. Correlation is significant at the 0.01 level (2-tailed)
*. Correlation is significant at the 0.05 level (2-tailed)

Table 2: Summary of Hierarchical Regression Analysis Showing the Moderating role of Social support in the influence of Combat Exposure on Post-deployment Adjustment.

<table>
<thead>
<tr>
<th>Predictors</th>
<th>β</th>
<th>t</th>
<th>P</th>
<th>R</th>
<th>R^2</th>
<th>ΔR^2</th>
<th>F</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N. of Deployments</td>
<td>-0.06</td>
<td>-0.27</td>
<td>&gt;.05</td>
<td>0.1</td>
<td>0.01</td>
<td>0.104</td>
<td>1.758</td>
<td>&gt;.05</td>
</tr>
<tr>
<td>D. of Deployments</td>
<td>-0.1</td>
<td>-1.82</td>
<td>&gt;.05</td>
<td>0.1</td>
<td>0.01</td>
<td>0.104</td>
<td>1.758</td>
<td>&gt;.05</td>
</tr>
<tr>
<td>Model II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N. of Deployments</td>
<td>0.03</td>
<td>0.59</td>
<td>&gt;.05</td>
<td>0.5</td>
<td>0.27</td>
<td>0.26</td>
<td>29.838</td>
<td>&lt;.01</td>
</tr>
<tr>
<td>D. of Deployments</td>
<td>-0.02</td>
<td>-4.8</td>
<td>&gt;.05</td>
<td>0.5</td>
<td>0.27</td>
<td>0.26</td>
<td>29.838</td>
<td>&lt;.01</td>
</tr>
<tr>
<td>Combat Exposure</td>
<td>0.29</td>
<td>5.97</td>
<td>&lt;.05</td>
<td>0.5</td>
<td>0.27</td>
<td>0.26</td>
<td>29.838</td>
<td>&lt;.01</td>
</tr>
<tr>
<td>Social Support</td>
<td>0.37</td>
<td>7.22</td>
<td>&lt;.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model III</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N. of Deployments</td>
<td>0.06</td>
<td>-1.82</td>
<td>&gt;.05</td>
<td>0.5</td>
<td>0.27</td>
<td>0.26</td>
<td>29.838</td>
<td>&lt;.01</td>
</tr>
<tr>
<td>D. of Deployments</td>
<td>-0.02</td>
<td>-4.8</td>
<td>&gt;.05</td>
<td>0.5</td>
<td>0.27</td>
<td>0.26</td>
<td>29.838</td>
<td>&lt;.01</td>
</tr>
<tr>
<td>Combat Exposure</td>
<td>0.1</td>
<td>2.56</td>
<td>&lt;.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Support</td>
<td>0.04</td>
<td>0.8</td>
<td>&gt;.05</td>
<td>0.5</td>
<td>0.27</td>
<td>0.26</td>
<td>29.838</td>
<td>&lt;.01</td>
</tr>
<tr>
<td>Combat*Social Support</td>
<td>-0.15</td>
<td>-2.93</td>
<td>&lt;.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key: N= Number of Deployments, D.=Duration of Deployments. Df1= 2,319; df2= 2,317; df3=1,316.

(Table 2)

Results on the above table reveals that, in the first model (model I), variables that has the potential to influence post-deployment adjustment were entered into the model as covariates and result indicated that number of deployments (β = -.06, t= -.27; p > .05) and cumulative length of deployment (β = -.10, t= -1.82; p > .05) has no independent nor joint influence [F(2,319 ) = 1.758; R^2=.01; p>.05] on post-deployment adjustment. In the second model containing the main independent variable and moderator (model II), result indicated that combat exposure (β = .29, t= 5.97; p <.05) and post-deployment social support (β = .37, t= 7.22; p <.05) are significantly associated with and have joint influence [F(2,317 ) = 29.838; R^2=.27; p<.01] on post-deployment adjustment. These influences are independent of number of deployments and duration of deployments (covariates) whose results were still insignificant. This establishment of a significant relationship implies that a moderation relationship may exist. Thus, in the third model (model III), the interaction term between combat exposure and social support was included and result indicted a significant interaction effect [ΔR^2=2.9, ΔF (1, 316) =.26.163p <.01; β*= -.15, t= -2.93]. This result means that post-deployment social support moderated the negative influence of combat exposure on post-deployment adjustment of the military personnel.

Table 3: Descriptive table showing the mean scores on post-deployment adjustment based on interaction between combat exposure and social support.

<table>
<thead>
<tr>
<th>Combat Exposure</th>
<th>Post-social support</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>Low</td>
<td>88.81</td>
</tr>
<tr>
<td>High</td>
<td>Low</td>
<td>110.32</td>
</tr>
<tr>
<td>Low</td>
<td>High</td>
<td>116.47</td>
</tr>
<tr>
<td>High</td>
<td>High</td>
<td></td>
</tr>
</tbody>
</table>

To determine the direction of the moderation, a table of mean scores that shows the conditional effect of combat exposure on adjustment at two levels of social support is presented in (Table 3).
As shown in Table 1 and Figure 1, military combatants who were exposed to high combat but received high post-deployment social support reported better adjustment compared to those with high combat exposure but low social support. This result indicates that when there is high presence and provision of social support to returnees combatants, the traumatic experiences from combat exposure would be buffered and this will help the returnees adjust better in their families, work and society in general. A graphical illustration is shown in (Figure 1).

Discussion

The purpose of this study was to examine the relationship and to ascertain if social support can predict better adjustment among Nigerian military personnel exposed to Boko-Haram insurgency. Specifically, the study investigated if there is significant relationship between combat exposure and post-deployment adjustment and whether this relationship can be moderated by post-deployment social support. From the results of correlational analysis, it was found that combat exposure has a significant negative relationship with post-deployment adjustment while social support was found to have a significant positive association with the criterion variable. This finding implies that the higher military personnel experience combat events during deployment, the poorer they will tend to adjust to societal life. Further results revealed a significant positive relationship between social support and post-deployment adjustment, implying that an increased in provision of post-deployment social support from family, military leaders and colleagues to returnee combatants will lead to immediate improvement in their adjustment to family, work and social life. In all, these results appear to align with [12] findings which reported that military veterans with long-term adjustment problems were those who experience additional stress, high combat events and poor social support network.

In addition, result revealed that combat exposure and social support are related and have a significant joint influence on short-term post-deployment adjustment of returnee combatants. This result implies social support and combat exposure has the capacity to influence adjustment among military veterans. In other words, the availability of social support has a role in determining how returnee military combatants would adjust successfully into the society. This result also aligns with [12] which found poor support and experience of high combat events as key factors that affect adjustments among military personnel.

Interestingly, the negative association between combat exposure and post-deployment adjustment was moderated by social support in this study. Though exposure to high combat events was found to negatively impact post-deployment adjustment, social support moderated this impact. Specifically, personnel who reported high social support were found to adjust better irrespective of their level of combat exposure. On the other hand, those who reported lower support from family, friends and military leadership scored very low on adjustment, meaning that poor support to these personnel can affect their ability to quickly adjust and prepare for future challenges. The findings from this study provided empirical evidence that increased availability of emotional and instrumental support from military leaders and colleagues to traumatized combatants immediately after deployment can increase their ability to swiftly adapt and integrate fully into the society. Empirically, this result enjoys support from [10] which found support of family, friends and community members as having a significant restorative role in the adaptation of military combatants.

Conclusion

The paper therefore concluded that increased combat exposure can decrease soldiers’ ability to adapt in the society, especially in the first year of homecoming; however, providing emotional and instrumental support to them could buffer the negative impact of combat, thereby enhancing their adaptation to family, work and social life. Therefore, Nigerian military authorities, colleagues and friends of the personnel should always provide sufficient and timely support to soldiers and officers who are returning from the insurgency so as to help them adjust quickly and continue to render effectively, indispensable security services to the nation.

Acknowledgement

None.
Conflict of Interest

No conflict of interest.

References