

**REVIEW** 

The social prescribing of psychosocial interventions in the treatment of addictions and substance use disorders with military veterans: a reclamation of identity and belonging [version 2; peer review: 2 approved]

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#### **Abstract**

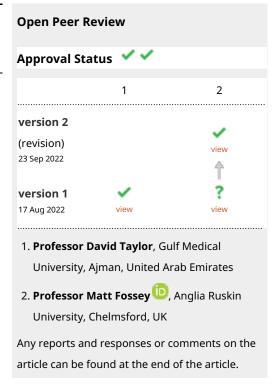
Social prescribing is a way of connecting individuals to a source of support within the community to help improve their health and wellbeing. Social prescribing programmes are being widely promoted within the United Kingdom (UK) and United States as nonpharmaceutical interventions for those living with addiction and substance misuse needs. These needs have been exasperated by the recent COVID-19 pandemic and global economic crisis, with emerging research indicating short-term and long-term detrimental effects on physical and mental health due to substance misuse and addictions. Psychosocial interventions utilize psychological or social factors rather than an overreliance on biological interventions to treat the health impacts of mental illnesses such as addictions and substance use disorder. In this paper, I will discuss the associated determinants of addictions and substance for the military veteran population, as well as how the social prescribing of psychosocial interventions could be used to reaffirm participant's identity and enhance their sense of belonging for military veterans, using a real-world example in Wales, UK.

#### **Keywords**

social prescribing, psychosocial interventions, addictions, substance misuse, military, veterans, identity, belonging



This article is included in the Addiction and Related Behaviors gateway.



**Corresponding author:** Richard Mottershead (richard@rakmhsu.ac.ae)

**Author roles: Mottershead R**: Conceptualization, Investigation, Methodology, Visualization, Writing – Original Draft Preparation, Writing – Review & Editing

**Competing interests:** Dr. Richard Mottershead has gifted his farm to Woody's Lodge for the support of military veterans, reservists and emergency service personnel and their families.

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#### **REVISED** Amendments from Version 1

I have assimilated the pertinent and welcomed feedback from the reviewers and I have included the 2<sup>nd</sup> reviewers own published work within the area of transition as this ensures a contemporary and relevant publication. Localised policy document have been included and how the proposed project links in with relevant stakeholders is emphasised.

Any further responses from the reviewers can be found at the end of the article

#### Introduction

Individuals with addictions and substance use disorders are known to face a number of challenges and needs associated with social determinants of health including medical, social, emotional, financial, legal and housing. These challenges require innovative care pathways that create solutions, in addition to evidence based treatment for substance use problems (EMCDDA, 2016). As highlighted previously by the author (Mottershead and Ghisoni, 2021) psychosocial interventions are crucial in supporting the recovery of military veterans. Psychosocial interventions can also be adopted through social prescribing for effective management of addiction and related issues, and can be successfully used as independent treatment methods as well as adjuncts to pharmacological treatment plans for military veterans. Public Health Wales (2018) describes social prescribing as a scheme that can involve a variety of activities which are usually provided by third sector services within the community and are accessible. These activities include but are not limited to - self-help, physical and social activities with an encouragement of hobbies that focus on the individual and not a specific illness.

The 21st Century has seen the continuation of armed conflict, exposing military personnel to the rigours of warfare and the challenges of transition back to a civilian identity. There has been a renewed realisation that there exists a sub-group of service-personnel leaving the Armed Forces with underlying mental health problems, including addictions and substance misuse disorders. These issues become apparent during the transition to a civilian life, and an overreliance and use of alcohol or substances can often become a maladaptive coping mechanism. Previously, the author (Mottershead, 2019) has expressed concern that there was evidence that once military service personnel are discharged, there appears to be no communication to relevant health and social services to allow for rehabilitation and treatment of mental health conditions, including addictions and substance misuse disorders. Research by Fear *et al.* (2010) states that the prevalence of heavy drinking is higher with serving personnel than with their civilian counterparts. Hossain *et al.* (2020) explained that this is a concern, as following a major crisis or trauma an individual may be at an increased risk of using substances to manage stress related anxiety. Johnsen *et al.* (2008) found that for those participants identified as homeless, these participants believed that there was a link between their current alcohol abuse and the drinking culture that they had been exposed to within the Armed Forces.

The use of psychosocial interventions is not a new revelation. In 1942 in Birmingham, United Kingdom (UK) at the Northfield Military Hospital, a controversial approach was adopted that sought to rehabilitate neurotic casualties of war (Bridger, 1985). This therapeutic community was short-lived due to its operating parameters, which were outside of the normal treatment plans of that time. This seminal work along with the previous success in the Peckham experiment in the 1930s, which saw the creation of an "unintentional therapeutic community" (Bridger, 1985) began to establish an evidence base for a shift away from the dominant medical model. In this article, the author will present, within a review of literature, how the social prescribing of psychosocial interventions could enhance self-image and create a sense of belonging for military veterans struggling to adjust to the transition of a civilian identity.

## Alcohol and substance misuse within the veteran population

Within western nations, there appears to be a culture of reliance and overuse of alcohol within military services. This is highlighted within the research of Ames and Cunradi (2005) and Fear et al. (2010) within the United States and UK. This research evidence shows that alcohol consumption rates in military service personnel exceed those of civilian counterparts across all age groups. This does not appear to be a camouflaged concern in so much as to say that military leaders are aware of the negative impact that excessive drinking has on the health of their troops, their effectiveness and wider reputation of Armed Forces (Ames and Cunradi, 2005; Iversen et al. 2007; Fear et al., 2010).

In 2018, a report published by Combat Stress indicated that substance misuse issues were found to be higher within the veteran community than civilian counterparts. Within the 743 participants (veterans) included within the study, 8.6% had posttraumatic stress disorder (PTSD) and 57.5% had a diagnosis of another mental health problem. Alarmingly, there were higher rates of alcohol related problems (81.6%), with a lower use of illegal substances at 16.8%, and 2% prescription medications (Ashwick and Murphy, 2018). Previously collaborative research between Help for Heroes and the Kings Centre for Military Health Research (KCMHR) noted that for those that had served within a 20-year period, there was a 10% prevalence of mental health illnesses. These illnesses included alcohol dependency and substance

misuse, which would need substantial interventions from health and social care providers (Help for Heroes & KCMHR, 2015). Recently, a qualitative research study commissioned by the Forces in Mind Trust (Bradley et al., 2021) undertook an exploration of substance misuse and service leavers as they navigate forced discharge due to failing a compulsory drug test (CDT). The authors acknowledge that there is a lack of data around drug use within the UK Armed Forces but that the US has a deeper pool to draw on due to the presence of a Health-Related Behavior Surveys. Interestingly, 65% of the sample had a pre-existing experience of substance use before joining the Armed Forces and this appears to have been a significant feature in returning to this behavior as a coping mechanism for adverse life challenging (Bradley et al., 2021). Within the same study, excessive alcohol consumption was seen as part of the culture and as long as an individual was still able to attend to their duties and refrain from activities that would be perceived as troublemaking, then excessive consumption was sanctioned and approved.

Indeed, the author's own research and role within the Government Review on former members of the Armed Forces and the criminal justice system on behalf of the Secretary of State for Justice (Phillips, 2014) indicated that alcohol and substance use were common features noted within the arrest profile of veterans entering the criminal justice system. The Defence Analytical Services and Advice (DASA, 2010) explored the issue of substance misuse and found that within England and Wales, male veterans were less than 50% likely to be imprisoned for drug-related offences than that of the general population but no explanation or sample size was provided. However, Bird (2007) reported that there has been a four-fold increase in the number of veterans who are being discharged due to random sampling tests. According to Gillan (2007), the Ministry of Defence (MoD) explained that these results were significantly lower than the 7% of civilian workforce statistics, although it is unclear how they arrived at this conclusion as the source of the civilian statistics was unclear.

A crucial factor to consider is that once military service personnel are discharged, there appears to be no communication to relevant health and social services to allow for rehabilitation and treatment for the offending behaviour, which is often linked to alcohol consumption. Indeed, no information was given to be able to ascertain how many of the reported 7% were veterans. Johnsen *et al.* (2008) found that for those participants identified as homeless, these participants believed that there was a link between their current alcohol abuse and the drinking culture that they had been exposed to within the Armed Forces. In support of this argument, Fear *et al.* (2010) stated that the prevalence of heavy drinking is higher with serving personnel than with their civilian counterparts.

Fear et al. (2010) identifies Early Service Leavers (ESLs) as experiencing an elevated risk of suicide and heavy alcohol consumption over that of longer serving veterans. Within Wales, UK, the Health Inspectorate of Wales (HIW, 2012) has expressed concerns that some ESLs had been discharged back into civilian life as the result of disciplinary issues, including substance misuse, without adequate liaison with statutory services and support from the MoD. There is a consensus that this group represents the most vulnerable and ineffectual at circumnavigating their transition back into civilian life especially for those exposed to combat related trauma. Kitchiner et al. (2012) undertook an analysis of 29 randomised controlled trials, examining the efficacy of psychosocial interventions for military veterans, and found psychosocial interventions to be beneficial for the treatment of depression and those at risk of alcohol consumption.

Exposure to armed conflict has a significant impact on those involved and can lead to PTSD. Iribarren *et al.* (2005) provides a historic account of 30 years of studies and explains that PTSD, whilst not confined to military combat, it has a higher rate for those that may have witnessed a life-threatening event or engaged in extended combat tours in warzones. Hoge *et al.* (2006) warns that anxiety and substance misuse are common comorbidities with military veterans. Similarly, Rytwinski *et al.* (2013) discusses within their research that there was a comorbidity rate of 52% with alcohol abuse being present with depression and PTSD. Sareen (2014) explains that a feature of PTSD with military veterans is the prevalence of physical health problems that are often aligned with excessive alcohol and substance misuse. Collaborating this evidence is Kessler *et al.* (1995) who notes that alcohol abuse is commonly associated with depression and PTSD within former members of the Armed Forces. The author (Mottershead, 2019) has previously called for the need for a greater understanding of the problems faced by those who have been exposed to military culture, particularly in relation to alcohol abuse, which becomes a common feature within veteran's life stories as they struggle with transiting to a civilian identity. The social prescribing of psychosocial interventions offers a bespoke and holistic treatment pathway to enhance resilience and develop coping mechanisms for stress, which as the literature (Wemrell *et al.*, 2020) indicates, can lead to a dependency on addiction and misuse of substances.

#### Psychosocial interventions in the reclamation of identity and belonging

A psychosocial intervention is a broad term used to describe different ways to support people to overcome challenges within their life and maintain good mental health (O'Shea *et al.*, 2017). Psychosocial interventions have had success to aid in the normalization of the treatment process and this has relevance with military veterans who may have issues around stigma and associated shame in seeking assistance and struggling to relate to non-veteran civilian counterparts. This can

be understood through Social Identity Theory (Tajfel and Turner, 1986) which highlighted the boundaries between 'normals' and 'others'. Abrams and Hogg (1990) provide further insight and explain that these theories describe a psycho-social process by which individuals categorise themselves and others into groups in order to place comparative values on themselves, thus ranking their relative position in the social hierarchy. Such ranking enables self-monitoring and potentially facilitates the reclamation of self-image. The current author (Mottershead, 2019) has previously explained that issues around social identity are evident from his research with veterans in relation to stigma, as these individuals may strive to protect their veteran identities even if this means not mixing with non-veterans. He goes on to explain that language is important in enabling the division of individuals into categories, such as veteran and non-veteran, as the distinction can be made to 'in' groups and 'out' groups, which effectively categorises 'us' and 'them' who are divided by impenetrable boundaries that can inhibit a sense of belonging (Mottershead, 2019).

Rather than relying on the use of medication, psychosocial interventions can be delivered through in person face-to-face as high intensity psychological therapy or in a low-intensity format via the use of Cognitive Behavioural Therapy, self-help interventions, or a combination of these support modalities (O'Shea *et al.*, 2017). For veterans the benefits of psychosocial interventions is that they allow for a process of engaging in therapy, but with a therapeutic intervention designed around a proactive activity. This has the positive outcome of allowing the veteran to see an output for their engagement. Crucially, these psychosocial interventions can be group-based, which allows shared veteran identity to support an establishment of belonging through the familiarity of comradeship, yet empowers confidence to explore and form ownership of new identities.

This need to belong is also a feature found within Social Identity Theory, as attested by Tajfel and Turner (1986). They explain that social identity consists of "those aspects of an individual's self-image that derive from the social categories to which he perceives himself as belonging" (Tajfel and Turner, 1986 p.16). This inherent need to belong for military veterans could be seen to be indicative of the findings of Steger and Lopez (2011) who observed a continuing process to establish meaning through belonging. Indeed, Barron, Davies and Wiggins (2008) identify comradeship and associated societal support to be crucial in promoting a sense of belonging for military veterans. This is supported by Burnell et al. (2006) who cite the importance of comradeship in service personnel returning home and transitioning back to postmilitary identities as civilians. Indeed, the current author's research infers that the absence of a sense of belonging can lead veterans into crime and often as a result of alcohol and substance misuse (Mottershead, 2019). Within a more recent study (Mottershead and Alonaizi, 2021), it was demonstrated that comradeship with fellow veterans support a reclamation of identity due to the shared life experience of a culture uniquely developed and understood by veterans within the Arabian Gulf. The results of this study have clear parallels with the UK and be understood through the use of Social Identity Theory. Additionally, this could lead to further understanding of Goffman's (1961) mortification of self and perhaps desire to return to a pre-existing identity of veteran over other less favourable or less influential identities such as the civilian identity, which the individual may struggle to establish a sense of belonging to this transitioning identity. Consequently, the misuse of alcohol and substances become a coping mechanism within the life stories of post-military identities that fail to establish a belonging to a civilian identity.

#### **Future considerations**

It is the intention of the author that the review of this literature will inform the development of social prescribing for existing psychosocial interventions for military veterans, reservists, emergency service personnel and their families within Wales, UK. The author believes that this care pathway will support the well-being and rehabilitation of these subgroups, and have a positive impact on their families. This is timely as in July 2022 the Welsh Government announced a consultation on developing a framework for social prescribing. Figures in Wales indicate that from 2018 to 2021 there was an increase from 10,000 to 25,000 people benefiting from social prescribing (Welsh Government, 2022).

This therapeutic alliance utilizes the countryside and invites the participants to join one of the regional rural hubs of the award-winning national charity - Woody's Lodge. These rural hubs are at Ty Gwalia in North Wales, Penlan Farm in West Wales Amelia Farm in South Wales, and a recent development on Flat Holme Island within the Bristol Channel. Research by Detweiler *et al.* (2015) and Reisman (2016) supports the evidence base practice of using the countryside, gardens, greenhouses and other psychosocial interventions to facilitate relationship developments and social interaction. In addition, the sharing of real-life experiences of the challenges of combating alcohol and substance misuse will assist in developing healthy coping habits that will have a positive impact on physical and mental wellbeing (Detweiler *et al.*, 2015). Research by Hall *et al.* (2020) and Tanagra *et al.* (2013) provides further reassurance that teamwork around a physical activity can have a positive impact on self-esteem and confidence for veterans who are transitioning to a civilian identity. This charity already has regional collaborative arrangements with NHS Trusts and Health Boards with a national collaboration with Veterans NHS Wales.

Woody's Lodge network of rural hubs support and mentor veterans, emergency service personnel, reservists and their families in safe, quiet and informal surroundings. This is achieved through the use of the shared veteran identity as an ability to create effective veteran peer-support schemes centered around the social prescription of psychosocial interventions that built on a belonging to this shared veteran identity. This process is an aid to those living with addiction and reliance on substances, whose traditional hospital admissions have not been effective. The project is carried out by the registered UK charities Woody's Lodge and Wintergreen UK – CIC which collectively provide the psychological and social support holistically. Both organisations offer complementary psychosocial interventions, free of charge to people with lived experience of health and social care challenges. This approach uses an evidence base to create bespoke psychosocial interventions to personalise recovery without needing further access to increased medical or other interventions (Cipriani *et al.*, 2017).

#### **Conclusions**

This review has highlighted an awareness of the benefits of psychosocial interventions, as a therapeutic treatment option for addictions, substance misuse and wider mental health. However, 21st Century practices persist to treat the health needs of military veterans with predominantly pharmaceutical interventions. The author advocates for a biopsychosocial approach as realised through the care pathway of the social prescribing of psychosocial interventions. The author also advocates for a broader approach that dovetails medical prescribing alongside social prescribing so that personal health needs link to the importance of acknowledging social relationships and their impact on personal health needs of military veterans.

The author has sought to highlight that military veterans with addiction- and substance-related problems can be treated using non-medical interventions that can be socially prescribed. A real-world solution has been presented with the presentation of a national project that uses psychological treatments and interventions to support improved mental health. This paper acknowledges the strength of the military identity and how transitional challenges can create an entrenched social identity, which can inhibit a sense of belonging to new roles and identities within civilian life. Through the proposed use of veteran peer-support structured around psychosocial interventions, the rural hubs of Woody's Lodge will empower veterans and their families through the adoption of the proposed therapeutic framework. The use of psychosocial interventions via the rural hubs has the potential to become a fully integrated pathway for primary care and social prescribing practices in Wales for the veteran community. This integrated approach between healthcare providers, community, voluntary and statutory services means that there will be opportunities for cost-saving as well as multi-disciplinary collaboration and cooperation around addictions with military veterans. Given the degrading economic climate within the UK and post-pandemic fallout it is likely that there will be a detrimental effect on veterans' mental health.

This paper seeks to present alternatives to the traditional use of pharmaceutical treatments and how the additional use of psychosocial interventions through social prescribing will allow for an early intervention and support the rehabilitation of addictions for military veterans. The addition of social prescribing arms the health profession with an additional asset via access to community-based treatments and improved access to psychosocial therapies. The author advocates for interventions that seek to address the wider determinants of impoverished self-image and to create an awareness that embedded within veterans is a need to belong. A sense of belonging creates a positive self-image, which can lead to the development of a new civilian identity and a rewarding life.

#### **Data availability**

No data are associated with this article.

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## **Open Peer Review**

**Current Peer Review Status:** 





## Version 2

Reviewer Report 26 September 2022

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## Professor Matt Fossey 🗓

Veterans and Families Institute, Faculty of Health, Social Care and Education, Anglia Ruskin University, Chelmsford, UK

Thank you for giving me the opportunity to review the revised version of this paper. The author has addressed the primary points raised in my original review. This paper now presents more of an authoritative account of the use of psychosocial interventions with veterans with addictions and substance use disorders. The Welsh example of best practice in this field offers an important opportunity for further research into the outcomes for veterans who use the service and also an exploration of how services using a similar model could be utilised for other groups who have been through challenging transitions e.g. care leavers etc.

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** I am a social scientist with an extensive portfolio of research with the military, veterans and their families

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

#### Version 1

Reviewer Report 02 September 2022

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## Professor Matt Fossey

Veterans and Families Institute, Faculty of Health, Social Care and Education, Anglia Ruskin University, Chelmsford, UK

Thank you for giving me the opportunity to review this paper. The subject matter is of great importance as the NHS seeks to increase and improve its psycho-social healthcare provision for veterans with the emergence of the Op Courage programme.

The debate in this article is stilted somewhat by the tight word-limit, which is a shame, as the author has quite a lot to say about a significant topic and this is a challenge within this restriction.

I believe that this article is suitable for publication with a number of changes, that I will outline below. I hope that these changes will not take away from the substance of the argument that the author is trying to make, rather enhance it:

- 1. It would be helpful to give a clearer definition of social prescribing -it's worth looking at some of the excellent material developed by the Kings Fund What is social prescribing? | The King's Fund (kingsfund.org.uk). However, this paper does not really focus on "social prescribing" per se, rather the use of psychosocial interventions. Consequently, the author may wish to drop the term "social" from the title. This, I believe, will help to better indicate the focus of the paper.
- 2. There needs to be consistency throughout the article where the author is referring to research on PTSD from the USA, this needs to be made clear. It is quite a challenge to use this when formulating an argument for service improvement in the UK as the numbers of patients with PTSD are not comparable. I would urge the author to use UK-based data only.
- 3. Issues relating to the challenges associated with military transition and substance abuse in the UK have been investigated in research funded by the Forces in Mind Trust 20210322-Galahad-Fall-Out-Briefing-Report-FINAL.pdf (pcdn.co) this is the most up-to-date account in the UK and should be referenced the figures within this report will be slightly more up-to-date than the Combat Stress ones cited.
- 4. The author needs to also consider the UK's MOD attempts to engage with and provide support for more challenging SLs please refer to JSP100 and the formation of the Defence Transition Service (DTS). It is also worth noting that the reduced provision for CDT failures was removed over 12 months ago they are now entitled to support that is commensurate with their length of service.
- 5. As the author is proposing work with colleagues in Wales, it may also be worthwhile citing some of the work that currently being undertaken within the Principality and how the author would:
  - See this link to the existing mental health provision for veterans
  - And outline how this service could be evaluated within the context of different models
- 6. Finally, it would be helpful for the flow of the article if *Woody's Lodge* and the nature and importance of their work were introduced at the start. The argument relates to the potential

of this rural retreat for the treatment of veterans and their families and I think should have more prominence earlier.

# Is the topic of the review discussed comprehensively in the context of the current literature?

**Partly** 

Are all factual statements correct and adequately supported by citations? Partly

Is the review written in accessible language?

Yes

Are the conclusions drawn appropriate in the context of the current research literature?  ${\sf Partly}$ 

**Competing Interests:** No competing interests were disclosed.

**Reviewer Expertise:** I am a social scientist with an extensive portfolio of research with the military, veterans and their families

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.

Author Response 05 Sep 2022

**Dr. Richard Mottershead**, Ras al Khaimah Medical and Health Sciences University, Ras Al Khaimah, United Arab Emirates

- 1. Response Thank you for this suggestion and I have sought to include within the introduction a definition from a relevant document pertinent to social prescribing within the locality of the proposed initiative which has a relatable evidence base. I have not included Op Courage as this is a recent initiative within England and instead I have focused on initiatives within the country of Wales.
- 2. Response The articles abstract identifies a wider scope than just a UK perspective in highlights the inclusion of US data. I acknowledge my esteemed colleagues point regarding variation in numbers between UK and US. However, the presence of PTSD and most importantly the transatlantic evidence of the beneficial use of social prescribing of psychosocial interventions is a joint objective of the author and the journal to reach a wider demographic diversity.
- 3. Response I have included the relevant research study within my article which is strengthened by your suggestion. Thank you.
- 4. Response As you so correctly identity the allocated word limit within the article

means that a fuller exploration of all suggested points becomes restricted. As the article indicates, this is the 2<sup>nd</sup> publication of a series and your points will be included with the subsequent publications.

- 5. Response the article highlights research and work being undertaken within Wales and I have sought to highlight this work by listing some collaborative work with additional psychological therapies services. I hope to publish a third article that will focus on the points you raise once the national rural hub network is established at the end of this year.
- 6. Response it was felt by myself and the editorial team that the presentation and discussion of the topic (theory) and subsequently the presentation of the charity (practice) would guide the reader to the importance and relevance to the proposed initiative.

Overall response – I would like to thank Professor Matt Fossey for his review of my article. I acknowledge him to be one of the UK's most highly regarded academics within the area of veteran affairs who has a genuine and heartfelt compassion to support military veterans and their families. My article has been enhanced through his review and guidance. I have submitted an updated version of my article which will be available shortly - Thank you.

Dr. Richard Mottershead

**Competing Interests:** No competing interests were disclosed.

Reviewer Report 26 August 2022

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#### **Professor David Taylor**

Gulf Medical University, Ajman, United Arab Emirates

This is a clear review of the literature surrounding the support needed for military veterans with addiction/drug-related problems. They reach the conclusion that specific psychosocial models of care should dovetail with the existing pharmaceutical approaches.

From what the author writes, the strength of the approach stems from the potential for psychosocial support to help the veterans repair their impoverished self-image and through that regain an identity within society as a whole.

This review is well-researched, grounded in a clear understanding of the participants and the

literature, and is to be highly commended.

Is the topic of the review discussed comprehensively in the context of the current literature?

Yes

Are all factual statements correct and adequately supported by citations?

Yes

Is the review written in accessible language?

Yes

Are the conclusions drawn appropriate in the context of the current research literature? Yes

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Qualitative research particularly in education

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard.

Author Response 05 Sep 2022

**Dr. Richard Mottershead**, Ras al Khaimah Medical and Health Sciences University, Ras Al Khaimah, United Arab Emirates

I would like to take this opportunity to thank Professor David Taylor for taking the time to review my article and acknowledging the importance and relevance of the content in supporting and treating military service personnel. His insight and guidance will allow me to write and publish with clarity and focus.

Thank you

Dr. Richard Mottershead

**Competing Interests:** No competing interests were disclosed.

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