

# What is the effectiveness of the DrinksRation smartphone application on modifying alcohol use behaviour in Service personnel at risk of alcohol-related harm?

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<b>Registration date</b> 06/12/2022	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 16/10/2023	<b>Condition category</b> Other	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

This is a study looking at drinking behaviours, health and wellbeing in serving military personnel. We are looking at what effect various different interventions have on changing alcohol use behaviour in military personnel in order to better support military personnel who are at increased risk of alcohol related harm. For some people this will involve downloading a smartphone application. All personnel participating will have access to the smartphone application on completion of their data gathering phase.

### Who can participate?

All members of the UK Armed Forces are eligible to take part if they are seen to be at risk of alcohol related harm on a scoring measure called AUDIT-C.

### What does the study involve?

Participants will be asked to complete various surveys about their alcohol consumption, drinking behaviour and health over a 3 month period. The surveys will be sent either by email or through a smartphone application. All participants will be given access to the app, but at different points in time. There will be a short follow up survey sent out 6 months from now.

### What are the possible benefits and risks of participating?

The potential benefits of the study are that participants may become more aware of their drinking behaviours and alcohol use and they will also be helping the wider military community by helping understand what effects drinking behaviours and the impact drinking has.

Potential disadvantages of taking part are considered to be unlikely. If it is detected that participants may be drinking at a harmful level, the independent medical officer may get in touch to provide guidance and support. Some of the survey topics may be emotionally difficult and these surveys are optional for completion. Each will come with a trigger warning and signposting to support services if required. There is a small risk that the technologies used in this

study could be hacked, in the same way as with any smartphone or app. Encryption and data de-identification processes have been built in to minimise any risk to participants in the event of hacking.

Where is the study run from?

King's Centre for Military Health Research based at King's College London (UK)

When is the study starting and how long is it expected to run for?

March 2021 to April 2023

Who is funding the study?

Defence Medical Services (Ministry of Defence) (UK)

Who is the main contact?

Dr Kate King, katherine.king415@mod.gov.uk

## Contact information

### Type(s)

Principal investigator

### Contact name

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## **Additional identifiers**

### **Clinical Trials Information System (CTIS)**

Nil known

### **Protocol serial number**

2154MODREC22

## **Study information**

### **Scientific Title**

Military DrinksRation study

### **Study objectives**

That use of the DrinksRation app will reduce alcohol consumption in a population of at risk military personnel

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Approved 20/09/2022, Ministry of Defence Research Ethics Committee (Defence Science & Technology, DSTL Portsdown West, Fareham, PO17 6AD, UK; +44 300 153 5372; DST-MODRECTeam@mod.gov.uk), ref: 2154/MODREC/22

### **Study design**

Two-arm randomized controlled trial

### **Primary study design**

Interventional

## **Study type(s)**

Prevention

## **Health condition(s) or problem(s) studied**

Alcohol behaviour change in military personnel identified as being at risk of alcohol related harm.

## **Interventions**

This study is a two-arm randomised controlled trial comparing the Drinks:Ration smartphone application with usual care.

Participants will be recruited through periodic dental inspections, Service specific communications and social media, and through poster advertisements for the trial in military establishments. Participants will be recruited if they are current serving UK military and willing to be sent surveys to study their drinking behaviours, health and wellbeing. Initial screening with AUDIT-C will define eligibility for the trial arms. Participants with an AUDIT-C score of  $\geq 5$  will be eligible for the Drinks:Ration RCT. Those scoring  $\leq 4$  on AUDIT-C will not be eligible for the RCT but will still be able to partake in the surveys (see data gathering group below).

Randomisation will occur automatically using the Research Electronic Data Capture (REDCap) research management programme<sup>31</sup> after participants have read the participant information leaflet, consented to inclusion and completed basic demographics. Two participant blocks in a 1:1 ratio will be used to ensure equal gender distribution between the control and intervention arms. The REDCap randomisation module will be programmed, by the RCI / University of Birmingham statistician, independently of the research team to maintain blinding to participant treatment allocation.

Participants will be blinded to the intervention as they will be told that the research involves them completing various surveys about drinking behaviours, health and wellbeing. The intervention arm will be emailed copies of the relevant trial information leaflets and a link to download the Drinks:Ration app. They will be asked to use the app for a minimum of 28 days. The control arm will be emailed copies of the relevant trial information leaflets and informed that they will be emailed periodically with various surveys looking at alcohol use and health. There will be no contact between researchers and participants at any stage of the trial.

## **Intervention Type**

Behavioural

## **Primary outcome(s)**

Change in alcohol units consumed per week between baseline and day 84 as measured by the timeline follow back method.

## **Key secondary outcome(s)**

1. Change in alcohol units consumed per week between baseline and day 168 as measured by the timeline follow back method.
2. Change in AUDIT score between baseline and day 84.
  - 3.1. Change in quality of life assessment between baseline and day 84 as measured by World Health Organisation Quality of Life-BREF survey.
  - 3.2. Change in quality of life assessment between baseline and day 168 as measured by World Health Organisation Quality of Life-BREF survey.
4. Change in drinking motivations between baseline and day 84 as measured by the Drinking

Motivations Questionnaire (Revised).

5.1. Change in mental health screening parameters (depression, anxiety, PTSD) between baseline and day 84.

5.2. Change in mental health screening parameters (depression, anxiety, PTSD) between baseline and day 168.

6. Assessment of correlation between alcohol intake and loneliness (De Jong Gierveld), recent life events (RLE-Q), gambling behaviours (GMQ-9), domestic & sexual assault (National Crime Survey for England & Wales).

**Completion date**

30/04/2023

## Eligibility

**Key inclusion criteria**

1. Age 16 years - no upper limit (upper age limited by being in active military service)
2. Serving UK Military
3. Scores 5 or more on AUDIT-C screening questionnaire

**Participant type(s)**

Other

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

16 years

**Sex**

All

**Key exclusion criteria**

Scores 4 or less on AUDIT-C screening questionnaire

**Date of first enrolment**

14/01/2023

**Date of final enrolment**

28/02/2023

## Locations

**Countries of recruitment**

United Kingdom

England

**Study participating centre**  
**Defence Medical Services**  
Defence Primary Healthcare  
Coltman House  
Defence Medical Services Whittington  
Lichfield  
United Kingdom  
WS149PY

## Sponsor information

**Organisation**  
Defence Medical Services

## Funder(s)

**Funder type**  
Government

**Funder Name**  
Ministry of Defence

**Alternative Name(s)**  
MOD

**Funding Body Type**  
Government organisation

**Funding Body Subtype**  
National government

**Location**  
United Kingdom

## Results and Publications

### Individual participant data (IPD) sharing plan

The data sharing plans for this study are currently unknown and will be shared at a later date. It is anticipated that the raw data will be made available as a supplement to the subsequent results publication.

Results will also be available from the author (katherine.king415@mod.gov.uk) on a case by case basis providing that there are no breaches of the ethical approval and appropriate data storage can be guaranteed.

### IPD sharing plan summary

Available on request, Published as a supplement to the results publication, Data sharing statement to be made available at a later date

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol article</a>		13/10/2023	16/10/2023	Yes	No
<a href="#">Participant information sheet</a>	version 2.0	20/09/2022	24/10/2022	No	Yes
<a href="#">Participant information sheet</a>	App information version 2.0	20/09/2022	24/10/2022	No	Yes
<a href="#">Protocol file</a>	version 2.4	20/09/2022	24/10/2022	No	No
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes