The importance of adaptive coping, peer support, psychological input, team resilience and supportive management among fire and rescue service workers in maintaining wellbeing throughout the COVID-19 pandemic: a cross-sectional survey



The importance of access to psychological input, peer support, team resilience and supportive management in mitigating the adverse impacts of the pandemic on fire and emergency workers' mental wellbeing

Cogan, N. & MacDonald, A. University of Strathclyde, Glasgow, Scotland
The survey included measures of COVID19-related risk factors:

Identifying wellbeing concerns among fire and rescue service workers (FRSWs) during COVID-19 is crucial to ensuring a safe and effective service is provided by these essential keyworkers.

FRSWs are known to be at risk of developing traumatic stress-related conditions; however, little is known about the effects of COVID-19 stressors on the mental wellbeing of FRSWs.

We tested two hypotheses:

- (1) COVID-19-related stressors will predict decreased mental wellbeing
- (2) protective factors will mediate the relationship between COVID-19 stressors and mental wellbeing

METHODS

A cross-sectional online survey exploring the effects of COVID-19 on the mental wellbeing of railway workers (n=555) in the UK, using data collected during the third lockdown (between 25th January 2021 – 31st March 2021).

The survey was advertised on social media and internal platforms of the Fire and Rescue Service.

- COVID-19 Perceived Risk Scale
- COVID-19 Stress Measure
- COVID-19 Burnout Scale
- PTSD Checklist-Civilian Version

It also included **protective factors**:

- Brief Resilience Coping
- Team resilience

It explored how these factors were associated with mental wellbeing using:

 Warwick Edinburgh Mental Wellbeing Scale–Short

FINDINGS

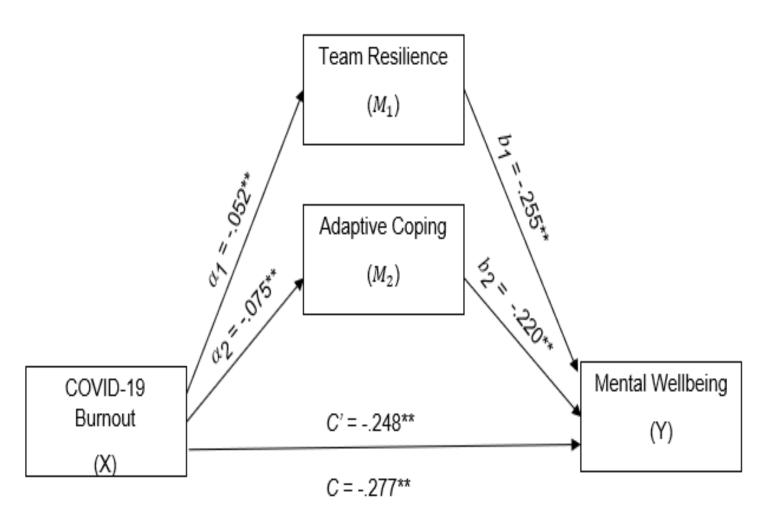


Negative associations between lower scores on mental wellbeing and higher scores on COVID-19 risk factors were found for COVID-19-related stress and burnout scores.

The independent variables, COVID-19 risk perception, stress, burnout, and PTSD outcomes, accounted for 50.90% of variance (F=118.00 [5 variables, n=543], p<0.0001) and were each significant in contributing to the model.

The overall mediation model was significant (F=341·14 [1 variable; n=553], p<0·001) explaining 38·50% of the variance, with team resilience and adaptive coping significantly contributing towards the model.

Figure 1: mediation model



- Need for psychological input
- Trauma informed practices
- Importance of peer support
- Supportive management and visible leadership

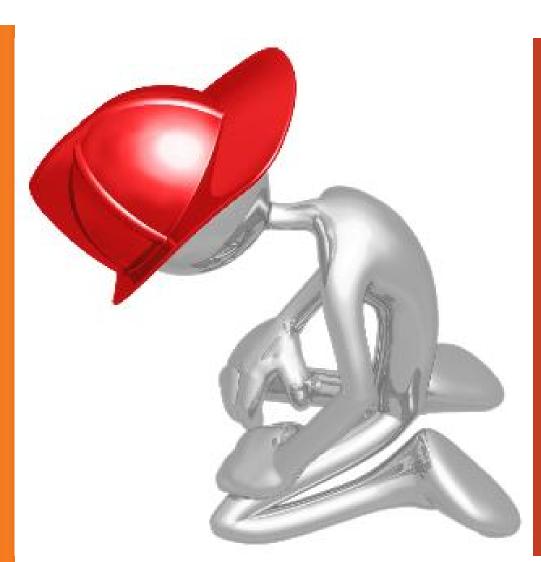
INTERPRETATION

Risks to FRSWs' mental wellbeing associated with COVID-19 stressors might be buffered by fostering teambased resilience, adaptive coping and peer support.

Offering psychological input for FRSWs who need it and adopting a trauma-informed work environment is encouraged.

Supportive management and visible leadership could help FRSWs to adapt to the constant change and challenges associated with COVID-19 and in preparedness for transitioning from the response to the recovery phase of the pandemic.





In all my time in the fire brigade we have always taken mental health very seriously. We are part of a team and always ask each other after any major or minor incidents how we are feeling, even after a few days everyone on the call is asked again. We look after the new recruits as much as we look after the old timers, we are one team.

For further information about this research please contact Dr Nicola Cogan: