competing priorities were preventing them from getting vaccinated (9.0% vs. 2.4%, $p<0.001$). Vaccinated participants were more likely to report that they would get a COVID-19 vaccine if recommended by public health experts (90.5% vs. 55.9%, $p<0.001$).

Conclusion Most paramedics believe COVID-19 vaccines to be safe and necessary. However, a sizeable proportion of paramedics reported no intention of getting vaccinated. Further analyses are needed to determine which factors influence their vaccination decisions.

0-403

VALIDITY AND RELIABILITY PROPERTIES OF THE MULTIFACETED ORGANIZATIONAL HEALTH CLIMATE ASSESSMENT FOR MEASURING ORGANIZATIONAL HEALTH CLIMATE IN SERVICE, CLERICAL, AND HEALTH CARE WORKERS

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Introduction Total Worker Health[®] programs aim to improve health climate, or employees' perceptions of support for physical and mental health from coworkers, supervisors, and upper management. Health climate is linked to physical and mental health outcomes. The recently developed Multifaceted Organizational Health Climate Assessment (MOHCA) assesses general health climate and three subfactors of workgroup, supervisor, and organizational health climate in working adults and correctional employees. There is little evidence of the MOHCA's validity and reliability properties among service, clerical, and health care workers in a large hospital system.

Objectives To investigate validity and reliability properties of the MOHCA in this sample, we examined: 1) the structural validity of the MOHCA's general and subfactor scales and 2) targeting of items to persons and measurement invariance of items among racial, sex, and income subgroups.

Methods We recruited 1,283 employees (45.9% Caucasian; 67.7% female; 77.9% <Bachelor's degree; 32.2% annual household income <\$30,000). We applied exploratory and confirmatory factor analyses to assess structural validity and Rasch models to assess targeting of items and measurement invariance.

Results A revised general and four-subfactor structure with workgroup, supervisor, organizational, and organizational responsiveness health climate subscales explained 73.7% of response variation with adequate reliability (Cronbach's $\alpha=0.60-0.91$). Compared with the original structure's fit, this revised structure's fit was superior (Chi-square = 33.245, $df=16$; Root Mean Square Error Approximation=0.029; Comparative Fit Index=0.997). One item demonstrated misfit to Rasch models (Infit Mean Square>1.5). Male and Non-Caucasian workers were less likely to report a workgroup supportive of recovery ($p<.01$). High-income and Caucasian workers were less likely to report a workgroup that encourages use of sick days ($p<.01$).

Conclusions A revised four-subfactor MOHCA structure with a new organizational responsiveness health climate subscale demonstrated adequate validity and reliability properties to assess health climate scores among service, clerical, and health care workers in a large hospital system.

Work-Related Stress

0-17

ALL-CAUSE MORTALITY AND THE TIME-VARYING EFFECTS OF PSYCHOSOCIAL WORK STRESSORS

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Introduction The effects of poor-quality work (characterised by high job demands, low job control, job insecurity, and effort-reward imbalance) are known to be harmful to health but it isn't clear whether exposure to these psychosocial work stressors over time translates into an increased risk of mortality.

Objectives To examine the effect of time-varying exposures and covariates on mortality, including the effects of unemployment, not in the workforce and retirement and to investigate if gender is an effect-modifier on the relationship between long-term exposure to adverse psychosocial work stressors and mortality.

Methods Over 20,000 participants from the HILDA survey with self-reported repeated exposure measures were followed for up to 15 waves. Survival analysis models with baseline hazard specified by the Weibull distribution were used to examine the association between psychosocial work stressors over time and mortality.

Results Low job control (HR=1.39; 95% CI: 1.06–1.83) and job insecurity (1.36; 1.06–1.74) were associated with increased risk of mortality. High job demands (1.01; 0.75–1.34) and effort-reward unfairness (1.20; 0.90–1.59) were not associated with mortality. The effect of job insecurity was attenuated (1.20; 0.93–1.54) after controlling for sociodemographic and health risk factors. Male participants exposed to low job control and job insecurity had an 81% and 39% increased risk of mortality, respectively, after adjustment for sociodemographic and health risk factors.

Conclusions Long-term exposure to low job control and low job security is associated with increased risk of all-cause mortality. Effects were largely restricted to males and persisted after adjustments for sociodemographic and health characteristics. Awareness of the implications of the adverse effects of psychosocial work stressors on health and mortality in workplaces, and interventions to improve job control and job security could contribute to better health and wellbeing, reducing the effect of psychosocial work stressors on mortality.

0-74

WORK-RELATED PSYCHOSOCIAL RISK FACTORS FOR STRESS-RELATED DISORDERS: A SYSTEMATIC REVIEW AND META-ANALYSIS

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Introduction Stress-related disorders are frequently reported in the working population, with varying incidence rates of 13% for psychological distress up to 22% for emotional exhaustion with even higher prevalence rates in specific professions and countries. The objective of this systematic review and meta-analysis is to examine which work-related psychosocial risk factors are associated with stress-related disorders (SRDs).

Methods We searched the electronic databases of Medline, Embase and PsycINFO for articles published between 2008 and 12 August 2019 and included the references of a systematic review performed for the period before 2008. Primary longitudinal studies were included when outcome data were described in terms of SRD assessment or a dichotomous outcome, based on a validated questionnaire, and at least two levels of work-related exposure were reported. The selection of the work-related risk factors in the meta-analyses was based on: (1) sufficient contrast between reported exposure categories; (2) effect estimates controlled for other non-work-related factors; (3) homogeneity in definition or measurement of risk factors. The quality of evidence was assessed using the Grades of Recommendations, Assessment, Development and Evaluation framework.

Result Seventeen studies met the inclusion criteria. The meta-analysis revealed moderate evidence for associations between SRDs and effort reward imbalance (OR=1.9, 95% CI 1.70–2.15), high job demands (OR=1.6, 95% CI 1.41–1.72), organisational justice (OR's 1.6 to 1.7, CI's 1.44–1.86), social support (OR's 1.3 to 1.4, CI's 1.16–1.69), high emotional demands (OR=1.6, 95% CI 1.35–1.84), and decision authority (OR=1.3, CI 1.20–1.49). No significant or inconsistent associations were found for job insecurity, decision latitude, skill discretion and bullying.

Conclusion Moderate evidence was found that work-related psychosocial risk factors are associated with a higher risk of SRDs. Effort-reward imbalance, low organisational justice and high job demands exhibited the largest increased risk of SRDs, varying from 60 to 90%.

O-218 COGNITIVE IMPAIRMENT AND WORK STATUS AMONG PATIENTS WITH WORK-RELATED STRESS: VALIDATION OF AN OBJECTIVE COGNITIVE SCREENER

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Introduction Many individuals with long-term work-related stress complain that cognitive limitations impede their vocational functioning. Subjective cognitive complaints, however, may not accurately reflect objective cognitive impairment.

Objectives We aimed to evaluate objective and subjective tools for screening of neurocognitive impairment and assess cognitive functioning as a determinant for subsequent work status among patients with work-related stress.

Methods 82 patients with work-related stress participated in a 1½-hour assessment of demographics, objective and subjective cognitive status, and psychosocial functioning. Objective measures included the Screen for Cognitive impairment in Psychiatry, Danish version, (SCIP-D) comprising five cognitive subtests (administration <20 min.) and standardized neuropsychological tests that tapped into the same cognitive domains. Subjective cognitive impairment was assessed with the Cognitive Failure Questionnaire. Work status was evaluated by telephone 6 months later. A total of 78 patients were matched to pre-existing norm data from 79 healthy controls using bootstrapping with 1000 resamples according to age, sex, and estimated premorbid intelligence (N=78000).

Results Strong correlations with all standardized neuropsychological tests indicated the concurrent validity of the SCIP-D (Total Score: $r = 0.76$, $p < .001$). There was no correlation between objective and subjective measures of cognitive status (Pearson's $r=0.30$). Based on logistic Receiver-Operating-Characteristic analysis, the optimal SCIP-D Total-score cut-off was ≤ 72 , which identified 43.2% of the patients with global objective cognitive impairment (AUC=0.84, 95% CI=0.76–0.93, Sensitivity=0.77, Specificity=0.73). Each one-unit increase in the objective SCIP-D Total score (mean = 74.2, SD = 9.7) was associated with a higher odds ratio of 1.12 (adjusted 95% CI=1.004–1.253) for employment at 6-month follow-up relative to full time sick-leave. Subjective cognitive impairment was not associated with subsequent work status.

Conclusion The SCIP-D was a valid objective cognitive screener predicting employment 6 months later among patients with work-related stress. The SCIP-D offers brief assessment of performance-based cognitive skills for use in occupational clinics and epidemiological research.

O-226 CONTRIBUTORS TO STRESS AND BURNOUT IN JUNIOR DOCTORS DURING THE COVID-19 PANDEMIC

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Introduction Junior doctors have previously reported high levels of burnout; and additional stressors have likely emerged from the COVID-19 pandemic may further accelerate burnout. There is a need to identify which particular stressors are most likely to lead to burnout in junior doctors in order to develop appropriate interventions.

Objectives 1) To develop a comprehensive list of stressors that are relevant to junior doctors, which includes general work and non-work related stressors as well as stressors that have specifically emerged with the pandemic. 2) To assess which of these stressors are most strongly associated with burnout.

Methods An anonymous online questionnaire was sent to 1000 randomly selected junior doctors in the North West of England between 10/07/20 to 04/08/20. It included 37 questions on general and pandemic-specific stressors, and the Maslach Burnout Inventory (MBI) Health Services Survey. Stepwise regression analyses were undertaken to assess associations between stressors and burnout.

Results In total, 326 responses were collected (response rate=33%). Of the top 10 stressors rated by junior doctors, 60% were related to the pandemic. Multiple stressors were found to be associated with the burnout dimensions. Fatigue ($\beta=0.43$), pandemic-related workload increase ($\beta=0.33$) and feeling isolated ($\beta=0.24$) had the strongest associations with Emotional Exhaustion, whereas fatigue ($\beta=0.24$), uncertainty around COVID-19 information ($\beta=0.22$) and doing unproductive tasks ($\beta =0.22$) had the strongest associations with Depersonalisation.

Conclusion Junior doctors experience a combination of general stressors and additional stressors emerging from the pandemic which significantly to impact on burnout. Monitoring these stressors and targeting them as part of interventions could help mitigating burnout in junior doctors.