

## BURNOUT AND CARDIOVASCULAR RISK IN HEALTHCARE PROFESSIONALS DURING THE COVID-19 PANDEMIC

scores, and FBS

observed between genders



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### Introduction

he COVID-19 pandemic presented unprecedented challenges for healthcare systems, including limited expert staff availability and the risk of transmission between patients and staff. The pandemic has resulted in high rates of mental health disorders among healthcare professionals, including burnout, which is already a significant issue in the industry. Long-term job stress can cause burnout and increase the risk of cardiovascular disease. Stress and unfavorable working conditions exacerbate cardiovascular disease in the physician occupational group. The goal of this project was to investigate the relationship between burnout and cardiovascular disease in healthcare professionals using multivariable linear regression models.



#### Methods

- Ethical approval obtained from AbuDhabi COVID19 Research IRB Committee and Emirates IRB for COVID Research Committee
- Informed consent obtained from participants
   Exploratory observational cross-sectional study conducted in Abu Dhabi hospitals and healthcare
- institutions from July to November 2020
  STROBE-The EQUATOR Network guidelines
- followed to design the protocol • Primary outcomes: bur nouthrough Maslach Burnouthnewtory (MBI) emotional exhaustion (EE), depersonalization (DP), and personal accomplishmer (PA) subscales corres; car diovascular risk through Fuster-BEWATscore (FBS); sleep quality through wearable monitoring technology (Polar Ignite)
- Data was collected from health care professionals through electronic surveys and its management included coding and matching participant informationto random numbers
- Descriptivestatistics and Chi-squaretest used for data analysis
- Linear regressionanalysis conducted to investigate association between outcomevariable (FBS) and MBI scales adjusted with sociodemographic factors
- Akaike information criterion(AIC) used to select best fitting regression model
- Analyses performed with STATA 16.1



Results

396 (73,7%) completed sociodemographic characteristics MBI subscale

Statistically significant differences in sociode mographic information

Statistically significant differences in FBS components observed

# Conclusion

 The study provides evidence for the need for policymakers and organizations to prioritize occupational health

surveillance and workplace health promotion initiative sto prevent and treat burnout and other mental health disorders in

- This is particularly important
  - during and after the COVID-19 pandemic.



 The findings have important implications for improving the health and well-being of health care professionals and other workers experiencing burnout.

## References

Models 3 and 5 showed a negative association between cardiovascular health and depersonalization (p < 0.01)

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