

Distress among healthcare professionals during the first two years of COVID-19 pandemic in Portugal



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Objectives

- 1) Characterize healthcare professionals (HCPs) mental health (MH) outcomes, estimating the percentage of symptoms of anxiety, depression, post-traumatic stress disorder (PTSD) and burnout,
- 2) Identify risk and protective factors.

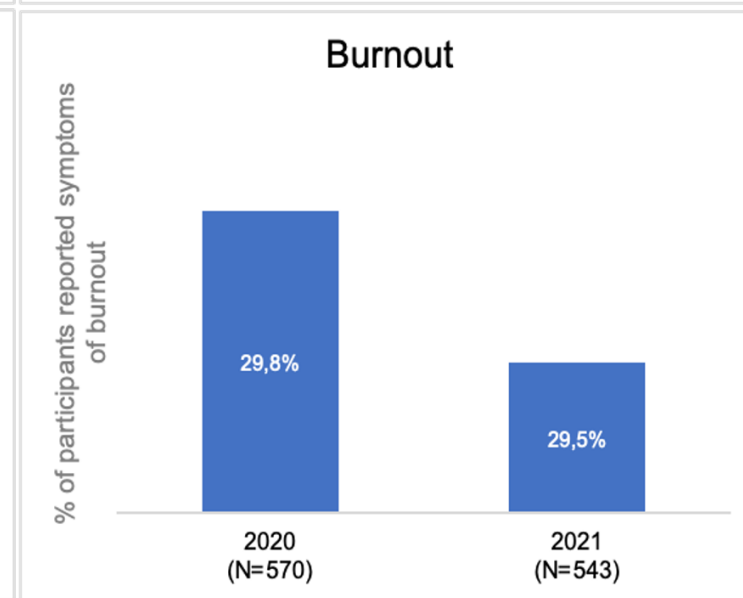
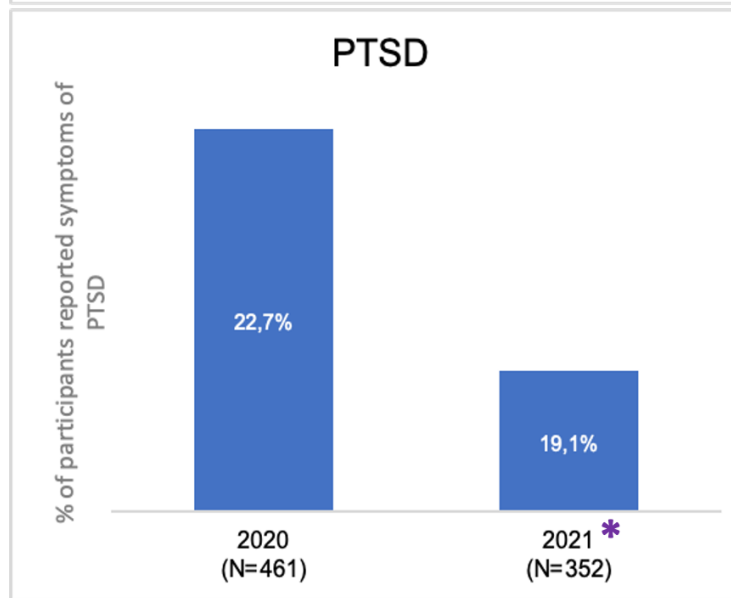
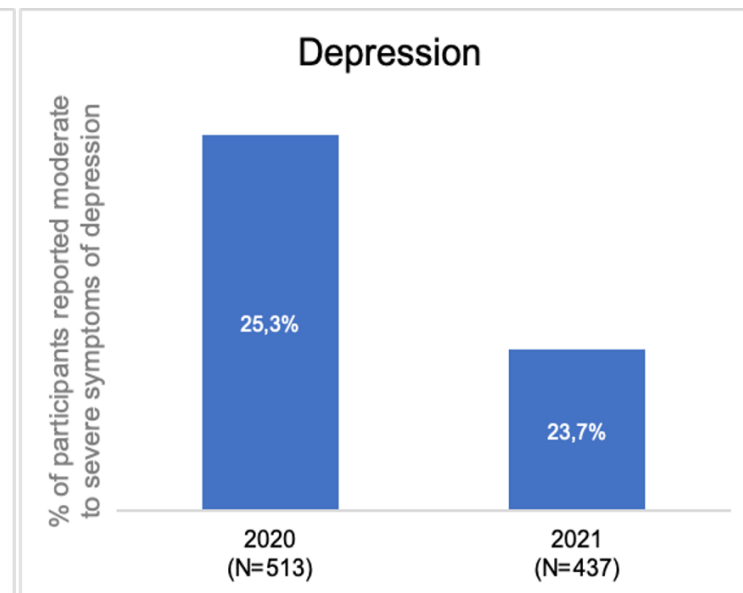
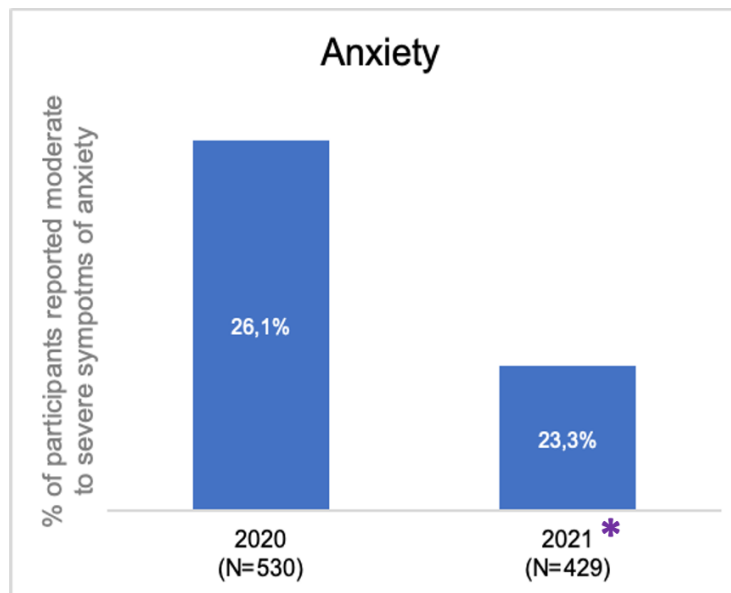
Material & Methods

- ▶ A cross-sectional online survey conducted in 2020 (T0) and repeated in 2021 (T1)
- ▶ Sociodemographic and occupational variables, protective behaviours and pandemic-context data were collected.
- ▶ **MH outcomes** were assessed using **instruments** with **sound psychometric properties**
 - ▶ Anxiety: Generalized Anxiety Disorder Scale - **GAD-7**
 - ▶ Depression: Patient Health Questionnaire – **PHQ-9**
 - ▶ Post-Traumatic Stress Disorder - **PCL-5 Short Form**
 - ▶ Burnout: Shirom-Melamed Burnout Measure - **SMBM**
 - ▶ Resilience: Connor-Davidson Resilience Scale - **CD-RISC**
- ▶ **Risk and protective factors** were assessed through **simple and multiple logistic regression models**.

Results | Symptoms of anxiety, depression, PTSD and burnout

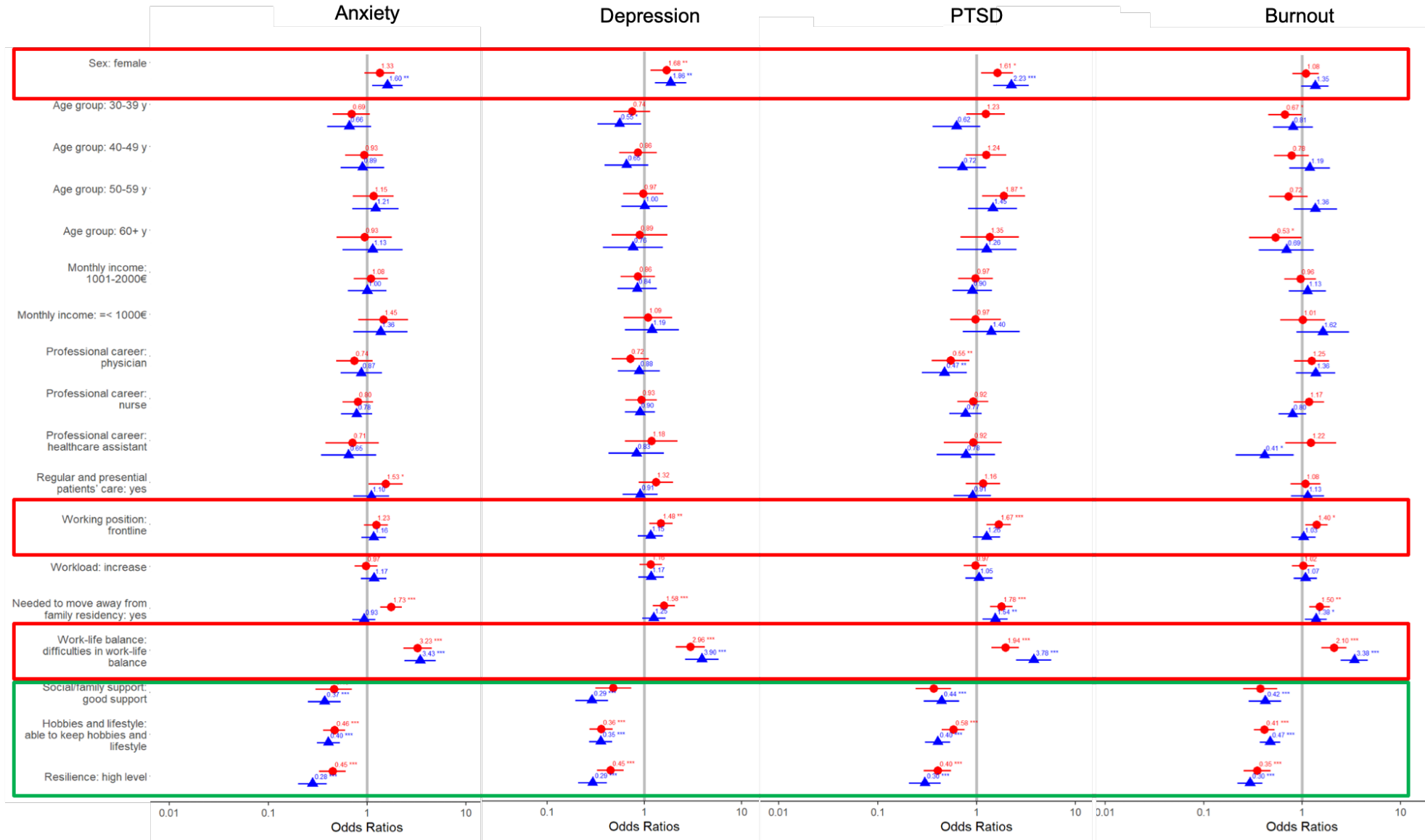


	2020 n (%)	2021 n (%)
Overall	2027 (100%)	1843 (100%)
Sociodemographic		
Sex		
Male	336 (16.6%)	322 (17.5%)
Female	1691 (83.4%)	1521 (82.5%)
Occupational		
Professional career		
Physician	525 (26.0%)	415 (22.5%)
Nurse	796 (39.4%)	753 (40.9%)
Healthcare Assistant	116 (5.7%)	106 (5.8%)
Other	585 (28.9%)	568 (30.8%)
Facing-patient		
No	290 (16.2%)	255 (14.6%)
Yes	1498 (83.8%)	1492 (85.4%)
Working position		
Non-frontline	1273 (70.7%)	1125 (65.0%)
Frontline	527 (29.3%)	606 (35.0%)



* Statically significant decrease ($p < 0.01$)

Results | Risk and protective factors



● 2020 — Risk factors
▲ 2021 — Protective factors

Conclusions

- ▶ A **significant HCPs proportion** reported **high percentages of distress**, in **both years**.
- ▶ **Percentages of psychological distress** symptoms among HCPs were **higher** when comparing with **previous data** for the Portuguese population.
- ▶ A set of fixed **sociodemographic and occupational factors**, as well as a set of **controllable common factors** were found **significantly associated with HCPs mental health outcomes**:
 - ▶ Being a **woman**, working as a **frontline HCP** and **perceived work-life imbalance** **increased the risk of distress** in 2020 and 2021.
 - ▶ Perceived a **good social/family support**, **higher resilience level** and the **capacity to maintain hobbies and lifestyle** were **MH protective factors**, in both years.
- ▶ **Psychological screening and surveillance** are of paramount importance in peri- and post-pandemic period.