



Healthcare professionals' psychological distress, risk and protective mental health factors after two years of COVID-19 pandemic in Portugal

PSIQUIATRIA SAÚDE MENTA

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Introduction

- Evidence from previous epidemic outbreaks pointed to psychological distress (anxiety, depression, post-traumatic stress and burnout), with both short-term and long-term effects [1-2].
- Research on the impact of COVID-19 on mental health (MH) points in the same direction [3-5].
- Healthcare professionals (HCPs) are one of the most vulnerable groups

Results

HCPs sample characterization (2020 and 2021)

	2020	2021		2020	2021
	n (%)	n (%)		n (%)	n (%)
Overall	2027 (100%)	1843 (100%)	Overall	2027 (100%)	1843 (100%)
Sociodemographic			Occupational		
Sex			Professional career		
Male	336 (16.6%)	322 (17.5%)	Physician	525 (26.0%)	415 (22.5%)
Female	1691 (83.4%)	1521 (82.5%)	Nurse	796 (39.4%)	753 (40.9%)
Age group (yrs)			Healthcare Assistant	116 (5.7%)	106 (5.8%)
18-29	224 (11.1%)	125 (6.8%)	Other	585 (28.9%)	568 (30.8%)
30-39	578 (28.5%)	506 (27.5%)	Facing-patient		, , , , , , , , , , , , , , , , , , ,
40-49	580 (28.6%)	595 (32.3%)	No	290 (16.2%)	255 (14.6%)
50-59	456 (22.5%)	433 (23.5%)	Yes	1498 (83.8%)	1492 (85.4%)
+60	189 (9.3%)	184 (10.0%)	Working position		
Region (NUTS II)			Non-frontline	1273 (70.7%)	1125 (65.0%)
North	718 (35.4%)	715 (38.8%)	Frontline	527 (29.3%)	606 (35.0%)
Center	462 (22.8%)	384 (20.8%)			
Lisbon Metropolitan Area	668 (33.0%)	479 (26.0%)			
Alentejo	90 (4.4%)	50 (2.7%)			
Algarve	45 (2.2%)	43 (2.3%)			
Azores	38 (1.9%)	28 (1.5%)			
Madeira	6 (0.3%)	144 (7.8%)			

- [4].
- Within this group, some subgroups may be at higher risk of distress [5].
- Distress is multifactorial, with some factors acting as protective, with a buffer effect, or as risk, increasing the odds of distress.
- The situation produced by COVID-19 has aggravated and multiplied the presence of pre-existing psychosocial risk factors for HCPs wellbeing

Objectives: 1) to characterize Portuguese HCPs MH outcomes, estimating the percentage of symptoms of anxiety, depression, post-traumatic stress disorder (PTSD) and burnout, and 2) to identify risk and protective factors.

Symptoms of anxiety, depression, PTSD and burnout (2020 and 2021)

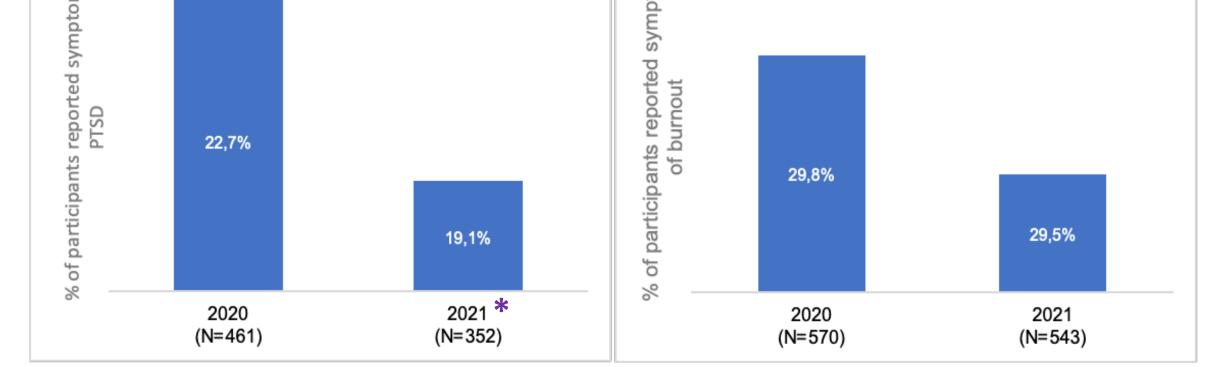
Anxiety Depression moderat participants reported severe sympotms of 26,1% 25.3% of participa severe syr 23,7% 23,3% 2021 * 2020 2020 2021 (N=513) (N=530) (N=429) (N=437) PTSD Burnout

Material and Methods

- A cross-sectional online survey was conducted in 2020 (T0) and repeated in 2021 (T1).
- Sociodemographic and occupational variables, protection behaviours and pandemic-context data were collected from a non-probabilistic sample of HCP in Portugal.
- MH outcomes were assessed using instruments with sound psychometric properties
 - Anxiety: Generalized Anxiety Disorder Scale GAD-7 [6]
 - Depression: Patient Health Questionnaire PHQ-9 [7]
 - Post-Traumatic Stress Disorder PCL-5 Short Form [8]
 - Burnout: Shirom-Melamed Burnout Measure SMBM [9]
 - Resilience: Connor-Davidson Resilience Scale CD-RISC [10]
- Risk and protective factors were assessed through simple and multiple logistic regression models.

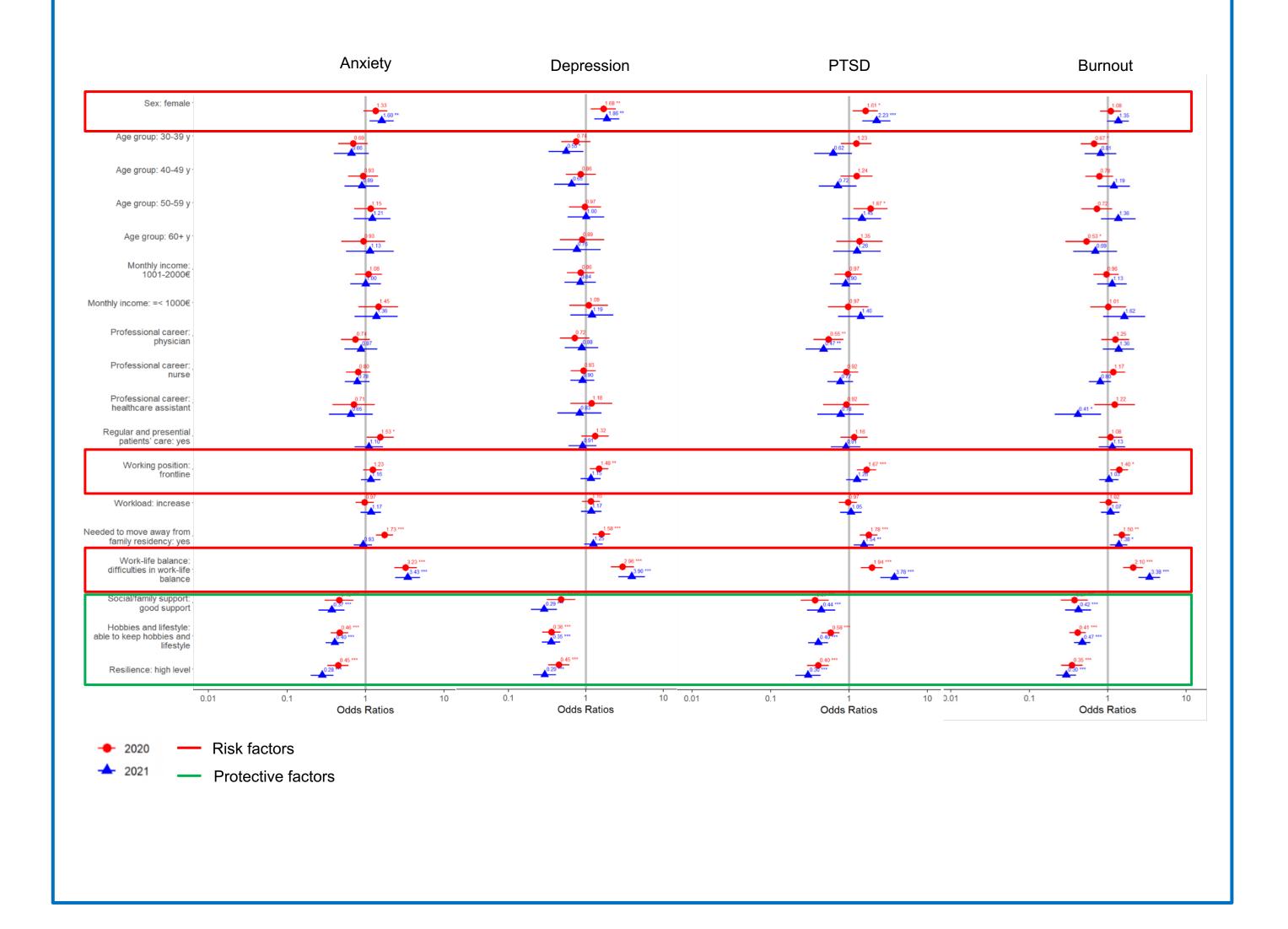
Discussion and conclusion

- A significant proportion reported high percentages of moderate to severe symptoms of anxiety, depression, PTSD and burnout, in both years.
- Moderate to severe symptoms decreased from 2020 to 2021. The decrease for anxiety and PTSD symptoms was found significant (p < 0.01).
- However, our results show a higher percentage of psychological distress symptoms among HCPs when comparing with previous data for the Portuguese population [11].
- 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.



* Statically significant decrease (p < 0.01)

Risk and protective factors (2020 and 2021)



- Perceived a good social/family support, higher resilience level and the capacity to maintain hobbies and lifestyle were significantly associated with lower symptoms of all the MH outcomes, in both years.
- These findings support further monitoring on the HCPs mental health. Psychological screening and surveillance is of paramount importance in peri- and post-pandemic period.

Find more about our project







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