

Supplementary Table 1 Search terms

Insomnia	Distress	Posttraumatic stress disorder	Anxiety	Depression	Mental health	Frontline healthcare workers	Covid-19	Time frame
1. Insomnia	5. Stress	12. Trauma	17. Anxiety	20. Depression	25. Mental health	31. Doctor	42. SARS-COV-2	49. After
2. Sleep disorders	6. Distress	13. Traumatic	18. Anxiety	21. Depression	26. Psychological	32. Physician	43. COVID-19	50. Post
3. Sleep problems	7. Burn out	14. Posttraumatic	19. OR/#17-#18	22. Depressive disorder	27. Psychopathology	33. Nurse	44. COVID	51. Longitudinal
4. OR/#1-#3	8. Compassion fatigue	15. PTSD		23. MDD	28. Psychiatry	34. Health personnel	45. 2019 novel coronavirus infection	52. Following
	9. Moral injury	16. OR/#12-#15		24. OR/#20-#23	29. Psychiatric	35. Healthcare provider	46. 2019-nCoV	53. Long term
	10. Moral distress				30. OR/#25-#29	36. Healthcare worker	47. Coronavirus	54. OR/#49-54
	11. OR/#5-#110					37. Frontline	48. OR/#42-47	

						38. Health care staff		
						39. Medical staff		
						40. Medical worker		
						41. OR/#31-#40		
Combined search term: #4 OR #11 OR #16 OR #19 OR #24 OR #30 AND #41 AND #48 AND #54								

Supplementary Table2

Study	Study Type	Selection				Comparability (Stars, N)	Outcome (Stars, N)		Final score	Risk of bias
		Representativeness	Selection of non-exposed	Ascertainment of exposure	Outcome not present at start of study		Follow up duration	Adequacy of follow up		
Azoulay et al[11]	Cohort	*	*			**	*	*	6	Fair quality

Cheng et al [12]	Cohort		*				*	*	3	Poor quality
Yang Y et al[13]	Cohort	*	*			**	*	*	6	Fair quality
Qian et al[14]	Cohort	*	*			**	*	*	6	Fair quality
Mohr et al[15]	Cohort	*	*		*	**	*	*	7	Good quality
Liu Y et al[16]	Cohort	*	*			**	*	*	6	Fair quality
Wen et al[17]	Cohort	*	*		*	**	*	*	7	Fair quality
Narita et al[18]	Cohort	*	*			**	*	*	6	Fair quality
Liu J et al[19]	Cohort	*	*		*	**	*	*	7	Good quality
Giménez-Díez et al[20]	Cohort	*	*		*	**	*	*	7	Good quality
Xu et al[21]	Cohort	*	*			**	*	*	6	Fair quality
Xie et al[22]	Cohort	*	*			**	*	*	6	Fair quality
Wang et al, 2023[23]	Cohort	*	*			**	*	*	6	Fair quality
Zhang et al[24]	Cohort	*	*			**	*	*	6	Fair quality
Wang et al, 2024[25]	Cohort	*	*			**	*	*	6	Fair quality

Ding et al[26]	Cohort	*	*			**	*	*	6	Fair quality
Yang ST et al[27]	Cohort	*	*		*	**	*	*	7	Good quality
Cercijaz et al[28]	Cohort	*	*		*	**	*	*	7	Fair quality
Hoseini-Marvast et al[29]	Cohort	*	*		*	**	*	*	7	Fair quality