

General	Exposure	Outcome	Results																																																			
# First Author, Year, Country	Describe how exposure was measured Form of stigmatization:	Describe how outcome was measured	Prevalence: Association with stigmatization:																																																			
7288 Chatterjee 2020, India	One question: Have you been ostracized? Form of stigmatization: <u>Self-stigma (perceived): social exclusion</u> “ostracized by friends, neighbor, and the society for working in the hospital for being exposed and spreading others“	Depression, Anxiety, and Stress Scale (DASS-21): depression, anxiety, stress (4-point Likert scale, 0 = “didn’t apply to me at all”, 3 = “much or mostly applied to me”) in the past 1 week	Prevalence: Tab.: Prevalence of depression, anxiety and stress <table><tr><td></td><td>Yes n (%)</td><td>No n (%)</td></tr><tr><td>Depression</td><td>53 (34.9)</td><td>99 (65.1)</td></tr><tr><td>Anxiety</td><td>60 (39.5)</td><td>92 (60.5)</td></tr><tr><td>Stress</td><td>50 (32.9)</td><td>102 (67.1)</td></tr></table> Association with stigmatization: Tab1-3: Association between mental state and stigma experience <table><tr><td colspan="2"></td><td colspan="2">Have you been ostracized?</td><td>X^{2/t}</td><td>p</td></tr><tr><td colspan="2"></td><td>Yes n (%)</td><td>No n (%)</td><td></td><td></td></tr><tr><td rowspan="2">Depression</td><td>Yes</td><td>20 (37.7)</td><td>33 (62.3)</td><td rowspan="2">16.6</td><td rowspan="2">0.002</td></tr><tr><td>No</td><td>12 (12.1)</td><td>87 (87.9)</td></tr><tr><td rowspan="2">Anxiety</td><td>Yes</td><td>23 (38.3)</td><td>37 (61.7)</td><td rowspan="2">25.6</td><td rowspan="2">0.001</td></tr><tr><td>No</td><td>9 (9.8)</td><td>83 (90.2)</td></tr><tr><td rowspan="2">Stress</td><td>Yes</td><td>21 (42.0)</td><td>29 (58.0)</td><td rowspan="2">23.2</td><td rowspan="2">0.001</td></tr><tr><td>No</td><td>11 (10.8)</td><td>91 (89.2)</td></tr></table>		Yes n (%)	No n (%)	Depression	53 (34.9)	99 (65.1)	Anxiety	60 (39.5)	92 (60.5)	Stress	50 (32.9)	102 (67.1)			Have you been ostracized?		X ^{2/t}	p			Yes n (%)	No n (%)			Depression	Yes	20 (37.7)	33 (62.3)	16.6	0.002	No	12 (12.1)	87 (87.9)	Anxiety	Yes	23 (38.3)	37 (61.7)	25.6	0.001	No	9 (9.8)	83 (90.2)	Stress	Yes	21 (42.0)	29 (58.0)	23.2	0.001	No	11 (10.8)	91 (89.2)
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2030 Chew , 2020, Singapore	Healthcare Workers Stigma Scale (HWSS), 12 items, 4-point Likert scale (1 =strongly disagree, 4= strongly agree) 4 subscales: 1. Self-stigma (<i>Personalized stigma</i>) 2. Disclosure concerns 3. Concerns about public attitudes 4. Negative self-image Form of stigmatization:	Perceived Stress: Perceived Stress Scale (PSS), 10 items, 5-point Likert scale (0=never, 4=very often) Traumatic Stress: Impact of Event Scale-Revised (IES-R); 22 items, 5-point Likert scale (0=never, 4=very often)	Prevalence: Tab. Prevalence of PSS and IES-R at baseline and follow-up <table><tr><td></td><td>Baseline (mean SD)</td><td>Follow-up (mean SD)</td><td>t-test (t)</td></tr><tr><td>PSS</td><td>28.1 (6.63)</td><td>27.0 (5.87)</td><td>2.084</td></tr><tr><td>IES-R total score</td><td>15.0 (14.6)</td><td>14.5 (14.4)</td><td>0.404</td></tr><tr><td>IES-R Intrusion subscale</td><td>0.72 (0.74)</td><td>0.67 (0.66)</td><td>0.765</td></tr><tr><td>IES-R Avoidance subscale</td><td>0.70 (0.70)</td><td>0.70 (0.70)</td><td>-0.133</td></tr><tr><td>IES-R Hyperarousal subscale</td><td>0.61 (0.70)</td><td>0.57 (0.73)</td><td>0.539</td></tr></table> Association with stigmatization: Tab. Risk factors for mental health outcomes amongst residents in training from national healthcare group residencies at the 2nd time point (linear regression)		Baseline (mean SD)	Follow-up (mean SD)	t-test (t)	PSS	28.1 (6.63)	27.0 (5.87)	2.084	IES-R total score	15.0 (14.6)	14.5 (14.4)	0.404	IES-R Intrusion subscale	0.72 (0.74)	0.67 (0.66)	0.765	IES-R Avoidance subscale	0.70 (0.70)	0.70 (0.70)	-0.133	IES-R Hyperarousal subscale	0.61 (0.70)	0.57 (0.73)	0.539																											
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	<p><u>Self-stigma (internalized):</u> negative self-image (feeling inferior to others due to occupation)</p> <p><u>Self-stigma (anticipated):</u> own perceived consequences, fear of rejection, disclosure concerns (control the information or keeping occupation a secret), concerns about public attitudes (what most people think of HCWs)</p>		<table><tr><th>Variable</th><th>B</th><th>β</th><th>95% CI</th></tr><tr><td>PSS</td><td>0.134</td><td>0.157</td><td>0.024–0.244</td></tr><tr><td>IES-R, PTS symptoms</td><td>0.477</td><td>0.228</td><td>0.241–0.714</td></tr></table>	Variable	B	β	95% CI	PSS	0.134	0.157	0.024–0.244	IES-R, PTS symptoms	0.477	0.228	0.241–0.714																																
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883 Do Duy, 2020, Vietnam	<p>Stigma scale: self-developed instrument: 12 questions (4-point Likert scale), sum up score 0-36</p> <p>Items from group discussion with HCW and investigators, adaption of Berger's HIV Stigma Scale for terms and phrases (validity checked with COSMIN)</p> <p>Form of stigmatization: <u>Self-stigma (anticipated):</u> Feel unsafe to be a health worker, Feel blamed by relatives or friends, Try to hide being quarantined, Try to avoid going out</p> <p><u>Self-stigma (internalized):</u> Feel guilty because of being isolated, Feel ashamed of being isolated</p> <p><u>Self-stigma (perceived):</u> discrimination People talk</p>	<p>DASS-21: depression, anxiety, stress (4-point Likert scale, 0 = never, 3 = almost always)</p> <p>Depression (≥ 4): mild: 5-6; moderate: 7-10; severe: 11-13; extremely severe: ≥ 14</p> <p>Anxiety (≥ 3): mild: 4-5; moderate: 6-7; severe: 8-9; extremely severe: ≥ 10</p> <p>Stress (≥ 4): mild: 8-9; moderate: 10-12; severe: 13-16; extremely severe: ≥ 17</p>	<p>Prevalence:</p> <p>Table: S1: Descriptive statistics</p> <table><tr><th>DASS-21</th><th>Male (n= 11) Median (IQR)</th><th>Female (n= 60) Median (IQR)</th></tr><tr><td>Depression</td><td>2 (0-3)</td><td>1 (0-3)</td></tr><tr><td>Anxiety</td><td>1 (0-2)</td><td>1 (0-2)</td></tr><tr><td>Stress</td><td>3 (1-5)</td><td>2 (1-5)</td></tr></table> <p>No significant difference between males and females</p> <p>Figure S1: Prevalence of depression, anxiety and stress (in %)</p> <table><tr><th>DASS-21</th><th>no</th><th>mild</th><th>moderate</th><th>severe</th><th>Extremely severe</th></tr><tr><td>Depression</td><td>86.9</td><td>8.2</td><td>3.2</td><td>1.6</td><td>0</td></tr><tr><td>Anxiety</td><td>85.3</td><td>8.2</td><td>3.7</td><td>1.6</td><td>1.2</td></tr><tr><td>Stress</td><td>95.1</td><td>1.6</td><td>1.6</td><td>1.6</td><td>0</td></tr></table> <p>Association with stigmatization: Correlation between stigmatization and DASS-21 depression, anxiety and stress</p> <p>Table 1: Spearman rank correlation r-value (95% CI)</p> <table><tr><th>DAS-21</th><th>Self-stigma Negative self-image</th><th>Public stigma Disclosure & personalized stigma</th><th>Public stigma Concerns about public attitudes</th></tr><tr><td>Depression</td><td>0.35 (0.10-0.55)</td><td>0.32 (0.08-0.53)</td><td>0.33 (0.09-0.54)</td></tr></table>	DASS-21	Male (n= 11) Median (IQR)	Female (n= 60) Median (IQR)	Depression	2 (0-3)	1 (0-3)	Anxiety	1 (0-2)	1 (0-2)	Stress	3 (1-5)	2 (1-5)	DASS-21	no	mild	moderate	severe	Extremely severe	Depression	86.9	8.2	3.2	1.6	0	Anxiety	85.3	8.2	3.7	1.6	1.2	Stress	95.1	1.6	1.6	1.6	0	DAS-21	Self-stigma Negative self-image	Public stigma Disclosure & personalized stigma	Public stigma Concerns about public attitudes	Depression	0.35 (0.10-0.55)	0.32 (0.08-0.53)	0.33 (0.09-0.54)
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	behind back, People avoid touching and direct contact, People feel uncomfortable when around, Experienced discrimination actions		Anxiety	0.45 (0.23-0.63)	0.36 (0.12-0.56)	0.39 (0.15-0.58)																																																						
			Stress	0.32 (0.07-0.53)	0.16 (-0.01-0.40)	0.24 (-0.01-46)																																																						
859 Elhadi 2020, Libya	Stigmatization: single item “feeling stigmatized” (yes/no) Form of stigmatization: <u>Self-stigma (perceived)</u>	Depressive symptoms: Hospital Anxiety and Depression Scale (HADS, borderline abnormal: score 8-10, abnormal: score 11-21) Anxiety symptoms: Hospital Anxiety and Depression Scale (HADS, borderline abnormal: score 8-10, abnormal: score 11-21)	Prevalence: Table 2: Anxiety and depressive symptom levels grades among participants (in %) <table><tr><th colspan="2">Outcome</th><th>n</th><th>%</th></tr><tr><td rowspan="2">Depressive symptoms</td><td>Borderline abnormal</td><td>236</td><td>31.7</td></tr><tr><td>Abnormal</td><td>420</td><td>56.4</td></tr><tr><td rowspan="2">Anxiety symptoms</td><td>Borderline abnormal</td><td>237</td><td>31.8</td></tr><tr><td>Abnormal</td><td>348</td><td>46.7</td></tr></table> Association with stigmatization: Table 3: Prevalence of depressive symptoms and association with feeling stigmatized <table><tr><th>Variable</th><th>No depressive symptoms n (%)</th><th>Depressive symptoms n (%)</th><th>χ² (Pearson's chi-square)</th><th>p-value</th></tr><tr><td>Feeling stigmatized</td><td></td><td></td><td></td><td></td></tr><tr><td>Yes</td><td>77 (23.7)</td><td>154 (36.7)</td><td rowspan="2">14.41</td><td rowspan="2">< 0.001</td></tr><tr><td>No</td><td>248 (76.3)</td><td>266 (63.3)</td></tr></table> Table 4: Prevalence of anxiety symptoms and association with feeling stigmatized <table><tr><th>Variable</th><th>No depressive symptoms n (%)</th><th>Depressive symptoms n (%)</th><th>χ² (Pearson's chi-square)</th><th>p-value</th></tr><tr><td>Feeling stigmatized</td><td></td><td></td><td></td><td></td></tr><tr><td>Yes</td><td>95 (23.9)</td><td>136 (39.1)</td><td rowspan="2">19.89</td><td rowspan="2">< 0.001</td></tr><tr><td>No</td><td>302 (76.1)</td><td>212 (60.9)</td></tr></table>				Outcome		n	%	Depressive symptoms	Borderline abnormal	236	31.7	Abnormal	420	56.4	Anxiety symptoms	Borderline abnormal	237	31.8	Abnormal	348	46.7	Variable	No depressive symptoms n (%)	Depressive symptoms n (%)	χ ² (Pearson's chi-square)	p-value	Feeling stigmatized					Yes	77 (23.7)	154 (36.7)	14.41	< 0.001	No	248 (76.3)	266 (63.3)	Variable	No depressive symptoms n (%)	Depressive symptoms n (%)	χ ² (Pearson's chi-square)	p-value	Feeling stigmatized					Yes	95 (23.9)	136 (39.1)	19.89	< 0.001	No	302 (76.1)	212 (60.9)
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7273 Elhadi, 2020, Libya	Stigmatization: single item “feeling stigmatized” (yes/no) Form of stigmatization: <u>Self-stigma (perceived)</u>	Burnout: abbreviated Maslach Burnout Inventory (aMBI) (comprising three subscales: emotional exhaustion (EE), depersonalization (DP), and personal accomplishment (PA))	Prevalence: Text and Supplementary Material <table><tr><th>Variable</th><th>Total sample n (%)</th><th>Men n (%)</th><th>Women n (%)</th></tr><tr><td>High emotional exhaustion</td><td>357 (67.1)</td><td>209 (71.1)</td><td>148 (62.2)</td></tr></table>				Variable	Total sample n (%)	Men n (%)	Women n (%)	High emotional exhaustion	357 (67.1)	209 (71.1)	148 (62.2)																																														
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			High depersonalization	252 (47.4)	152 (51.7)	100 (42.0)																																										
			Decreased personal accomplishment	121 (22.7)	58 (19.7)	63 (26.5)																																										
			Association with stigmatization: Correlation analysis (Spearman's rank-order correlation test) <ul style="list-style-type: none">- significant positive correlation was identified between emotional exhaustion (rs (530)=0.174; p≤0.001) and feeling stigmatised- no statistically significant correlation between depersonalization and feeling stigmatized- no statistically significant correlation between personal accomplishment and feeling stigmatized																																													
7279 Greene 2020, UK	Being worried about rejection or stigmatization for being an NHS worker: single Likert scale ranging from 0 ("not at all") to 4 ("extremely") Form of stigmatization: <u>Self-stigma (perceived)</u>	Distress: Having clinically significant PTDS, depression, and/or anxiety PTDS: PTSD subscale of the International Trauma Questionnaire (ITQ) Depression: Patient Health Questionnaire-9 (PHQ-9) Anxiety: Generalized Anxiety Disorder Scale (GAD-7)	Prevalence: Tab: Prevalence of distress, PTSD, depression and anxiety <table><tr><td></td><td>n</td><td>%</td></tr><tr><td>Distress</td><td>572</td><td>57.9</td></tr><tr><td>PTDS</td><td>246</td><td>22.5</td></tr><tr><td>Depression</td><td>477</td><td>46.9</td></tr><tr><td>Anxiety</td><td>470</td><td>47.3</td></tr></table> Association with stigmatization: Table 3: Distress <table><tr><td></td><td>Total sample OR (95% CI)</td><td>p-value</td></tr><tr><td>Perceived stigma</td><td></td><td></td></tr><tr><td>no</td><td>1.0 (Reference)</td><td></td></tr><tr><td>yes</td><td>1.25 (1.01-1.43)</td><td>< 0.0005</td></tr></table> Table 3: PTDS <table><tr><td></td><td>Total sample OR (95% CI)</td><td>p-value</td></tr><tr><td>Perceived stigma</td><td></td><td></td></tr><tr><td>no</td><td>1.0 (Reference)</td><td></td></tr><tr><td>yes</td><td>1.37 (1.20-1.58)</td><td>< 0.0005</td></tr></table> Table 3: Depression <table><tr><td></td><td>Total sample OR (95% CI)</td><td>p-value</td></tr></table>					n	%	Distress	572	57.9	PTDS	246	22.5	Depression	477	46.9	Anxiety	470	47.3		Total sample OR (95% CI)	p-value	Perceived stigma			no	1.0 (Reference)		yes	1.25 (1.01-1.43)	< 0.0005		Total sample OR (95% CI)	p-value	Perceived stigma			no	1.0 (Reference)		yes	1.37 (1.20-1.58)	< 0.0005		Total sample OR (95% CI)	p-value
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			Perceived stigma		
			no	1.0 (Reference)	
			yes	1.30 (1.15-1.48)	< 0.0005
			Table 3: Anxiety		
				Total sample OR (95% CI)	p-value
			Perceived stigma		
			no	1.0 (Reference)	
			yes	1.23 (1.09-1.40)	< 0.005
			*all adjusted for predictors: age, gender, ethnicity, annual household income, relationship, caring for children at home, work-related and COVID-19-related predictors		
759 Juan 2020, China	Stigmatization and rejection in neighbourhood because of hospital work: 1 item question (yes, no) Form of stigmatization: <u>Self-stigma (perceived): discrimination</u>	Psychological reactions: Impact of Event Scale-Revised (IES-R, normal: score 0–23, mild: score 24–32, moderate: score 33–36, severe: score >37) Anxiety disorder: Generalized Anxiety Disorder 7 (GAD-7, normal: score 0–4, mild: score 5–9, moderate: score 10–14, severe: score 15–21) Depression: Patient Health Questionnaire 9 (PHQ-9,normal: score 0–4, mild: score 5–9, moderate: score 10–14, severe: score 15–21) Obsessive-compulsive symptoms: Yale-Brown Obsessive-Compulsive Scale (Y-BOCS, normal: score 0–5, mild: score 6–15, moderate: score 16–25, severe: score 26–40) Somatization symptoms: Patient Health Questionnaire 15 (PHQ-15, normal: score 0–4, mild: score 5–9, moderate: score 10–14, severe: score 15–30)	Prevalence: Figure 1 and text: Prevalence of psychological distress, obsessive-compulsive symptoms, somatization symptoms, anxiety disorder, or depression among all participants (in %)		
			Outcome	%	
			Psychological distress (obsessive-compulsive symptoms, somatization symptoms, anxiety disorder, or depression)	43.2	
			Obsessive-compulsive symptoms	37.5	
			Somatization symptoms	33.3	
			Anxiety disorder	31.6	
			Depression	29.6	
			n not reported		
			Association with stigmatization:		
			Table 4: Multiple logistic regression analysis for the factor “stigmatization and rejection in neighbourhood because of hospital work?” associated with psychological distress related to the COVID-19 crisis (in AOR (95% CI))		
			Outcome	AOR (95% CI)	
			Psychological reaction	1.705 (0.827–3.516)	
			Anxiety symptoms	1.329 (0.652–2.709)	
			Depression symptoms	2.297 (1.138–4.637)	
			Obsessive-compulsive symptoms	1.842 (0.912–3.72)	
			Somatization symptoms	1.418(0.697–2.881)	
			*use of AOR, but not details on adjustment		

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749 Khanal 2020, Nepal	<p>1 item: Stigma faced due to COVID-19 (yes, no, don't want to answer)</p> <p>Form of stigmatization: <u>Self-stigma (perceived); discrimination, aggressive behaviour/mobbing</u></p>	<p>Anxiety and Depression: Hospital Anxiety and Depression Scale (HADS), 14-items, total scores: normal: 0–7, borderline abnormal: 8–10 and abnormal: 11–21</p> <p>Insomnia: Insomnia Severity Index (ISI), 7 items; no clinically significant insomnia (0–7), subthreshold insomnia (8–14), moderate clinical insomnia (15–21) and severe clinical insomnia (22–28)</p>	<p>Prevalence: Tab. Prevalence of anxiety, depression and insomnia</p> <table><tr><th>Mental Health Condition</th><th>Categories</th><th>Total n (%)</th></tr><tr><td rowspan="3">Anxiety</td><td>Normal</td><td>276 (58.1%)</td></tr><tr><td>Borderline</td><td>112 (23.6)</td></tr><tr><td>Abnormal</td><td>87 (18.3)</td></tr><tr><td rowspan="3">Depression</td><td>Normal</td><td>297 (62.5)</td></tr><tr><td>Borderline</td><td>114 (24.0)</td></tr><tr><td>Abnormal</td><td>64 (13.5)</td></tr><tr><td rowspan="3">Insomnia</td><td>No clinical significant</td><td>314 (66.1)</td></tr><tr><td>Sub threshold</td><td>127 (26.7)</td></tr><tr><td>Moderate</td><td>27 (5.7)</td></tr><tr><td></td><td>Severe</td><td>7 (1.5)</td></tr></table> <p>-> Nurses have significantly higher scores (borderline, abnormal) in anxiety, depression and insomnia as compared to doctors and other health workers</p> <p>Association with Stigmatization:</p> <p>Tab.: Factors associated with anxiety, depression and insomnia (multivariate logistic regression)</p> <table><tr><th rowspan="2"></th><th colspan="2">Faced Stigma</th><th rowspan="2">Unadjusted OR (95%CI)</th><th rowspan="2">Adjusted OR (95%)</th></tr><tr><th>No n (%)</th><th>Yes n (%)</th></tr><tr><td>Anxiety</td><td>68 (34.2)</td><td>131 (65.8)</td><td>2.36 (1.62-3.44)</td><td>2.47(1.62-3.76)</td></tr><tr><td>Depression</td><td>57 (34.8)</td><td>116 (65.2)</td><td>2.13 (1.45–3.12)</td><td>2.05 (1.34–3.11)</td></tr><tr><td>Insomnia</td><td>37 (31.6)</td><td>80 (68.4)</td><td>2.26 (1.45–3.52)</td><td>2.37 (1.46–3.84)</td></tr></table> <p>*adjusted for gender, ethnicity, profession, education, living with elderly, family member with chronic disease, precautionary measures in the workplace, faced stigma, worked overtime, awareness about government incentive and history of medication for mental health problem</p>	Mental Health Condition	Categories	Total n (%)	Anxiety	Normal	276 (58.1%)	Borderline	112 (23.6)	Abnormal	87 (18.3)	Depression	Normal	297 (62.5)	Borderline	114 (24.0)	Abnormal	64 (13.5)	Insomnia	No clinical significant	314 (66.1)	Sub threshold	127 (26.7)	Moderate	27 (5.7)		Severe	7 (1.5)		Faced Stigma		Unadjusted OR (95%CI)	Adjusted OR (95%)	No n (%)	Yes n (%)	Anxiety	68 (34.2)	131 (65.8)	2.36 (1.62-3.44)	2.47(1.62-3.76)	Depression	57 (34.8)	116 (65.2)	2.13 (1.45–3.12)	2.05 (1.34–3.11)	Insomnia	37 (31.6)	80 (68.4)	2.26 (1.45–3.52)	2.37 (1.46–3.84)
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948 Monterrosa-Castro, 2020, Colombia	<p>Social discrimination for working as a general practitioner (questions not described)</p> <p>Forms of stigmatization: <u>Self-Stigma (perceived); discrimination</u></p>	<p>Generalized Anxiety Disorder (GAD): Generalized Anxiety Disorder Scale (GAD-7), 7 Items, total score of 0–21, ≥ 10 indicates GAD symptoms</p>	<p>Prevalence: Tab. Prevalence of GAD</p> <table><tr><th>Variable</th><th>Total (n/%)</th><th>With symptoms of generalized anxiety disorder, n=209 (39.3%)</th><th>Without symptoms of generalized anxiety disorder, n=322 (60.6%)</th></tr><tr><td>Social discrimination for working as a general practitioner</td><td>207 (38.9)</td><td>106 (50.7)</td><td>101 (31.3))</td></tr></table>	Variable	Total (n/%)	With symptoms of generalized anxiety disorder, n=209 (39.3%)	Without symptoms of generalized anxiety disorder, n=322 (60.6%)	Social discrimination for working as a general practitioner	207 (38.9)	106 (50.7)	101 (31.3))																																									
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7261 Ramaci, Italy, 2020	<p>“Stigma discrimination” “Stigma fear”: no description of definition included; adapted from See et al. 2011 (answer options: 0 = strongly disagree, 1 = disagree, 2 = agree, 3 = strongly agree)</p> <p>Form of stigmatization: <u>Self-stigma (perceived): discrimination</u> <u>Self-stigma (anticipated)</u></p>	Professional Quality of Life Scale (ProQOL): 3 dimensions: compassion fatigue (7 items), compassion satisfaction (8 items), risk of burnout (7 items); 5-point Likert scale	<p>Prevalence: Tab: Prevalence of compassion fatigue, satisfaction and risk of burnout with regard to sex</p> <table><tr><td>Sex</td><td>Compassion fatigue Mean (SD)</td><td>Compassion satisfaction Mean (SD)</td><td>Risk of burnout Mean (SD)</td></tr><tr><td>Males</td><td>2.12 (1.3)</td><td>3.81 (1.0)</td><td>1.62 (1.0)</td></tr><tr><td>Females</td><td>2.52 (SD 1.2)</td><td>3.56 (0.97)</td><td>2.02 (0.99)</td></tr></table> <p>Tab.: Association with stigmatization (zero-order correlation):</p> <table><tr><td>Stigma</td><td>Compassion fatigue Mean (SD)</td><td>Compassion satisfaction Mean (SD)</td><td>Risk of burnout Mean (SD)</td></tr><tr><td>Perceived stigma</td><td>0.307</td><td>-0.263</td><td>0.348</td></tr><tr><td>Anticipated stigma</td><td>0.341</td><td>-0.173</td><td>0.226</td></tr></table> <p>Multiple regression</p> <table><tr><td>Stigma</td><td colspan="2">Perceived stigma (<i>discrimination</i>)</td><td colspan="2">Anticipated stigma (<i>Stigma fear</i>)</td></tr><tr><td></td><td>Beta</td><td>t</td><td>Beta</td><td>T</td></tr><tr><td>Compassion fatigue</td><td>0.348</td><td>4.50</td><td>0.291</td><td>5.41</td></tr><tr><td>Compassion satisfaction</td><td>-0.231</td><td>-3.73</td><td>-0.141</td><td>-2.54</td></tr><tr><td>Risk of burnout</td><td>0.317</td><td>5.54</td><td>0.171</td><td>3.08</td></tr></table>	Sex	Compassion fatigue Mean (SD)	Compassion satisfaction Mean (SD)	Risk of burnout Mean (SD)	Males	2.12 (1.3)	3.81 (1.0)	1.62 (1.0)	Females	2.52 (SD 1.2)	3.56 (0.97)	2.02 (0.99)	Stigma	Compassion fatigue Mean (SD)	Compassion satisfaction Mean (SD)	Risk of burnout Mean (SD)	Perceived stigma	0.307	-0.263	0.348	Anticipated stigma	0.341	-0.173	0.226	Stigma	Perceived stigma (<i>discrimination</i>)		Anticipated stigma (<i>Stigma fear</i>)			Beta	t	Beta	T	Compassion fatigue	0.348	4.50	0.291	5.41	Compassion satisfaction	-0.231	-3.73	-0.141	-2.54	Risk of burnout	0.317	5.54	0.171	3.08
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832 Sharma 2020, USA	<p>Stigma from community: instrument not reported</p> <p>Form of stigmatization: <u>Self-stigma (perceived)</u></p>	Emotional distress/burnout (dichotomous variable): instrument not reported	<p>Prevalence:</p> <p>Figure 2 and Table 2: Emotional distress/Burnout</p> <table><tr><td>Health care professional</td><td>%</td></tr><tr><td>Total sample</td><td>58</td></tr><tr><td>Doctor</td><td>49</td></tr></table>	Health care professional	%	Total sample	58	Doctor	49																																											
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General	Exposure	Outcome	Results																																										
			<table><tr><td>Doctor in training</td><td>48</td></tr><tr><td>Advanced practice provider</td><td>56</td></tr><tr><td>Respiratory therapist</td><td>55</td></tr><tr><td>Nurse</td><td>64</td></tr></table> <p>n not reported</p> <p>Association with stigmatization:</p> <p>Table 3</p> <table><tr><td>Outcome</td><td>RR (95% CI)</td></tr><tr><td>Emotional distress/burnout</td><td>1.32 (1.24–1.41)</td></tr></table> <p>Adjusted for: n.r.</p>	Doctor in training	48	Advanced practice provider	56	Respiratory therapist	55	Nurse	64	Outcome	RR (95% CI)	Emotional distress/burnout	1.32 (1.24–1.41)																														
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851 Taylor, 2020 Canada	Attitudes from the general population towards HCW HCW Stigmatization Survey: self-developed, 8 items, 5-point scale (0=strongly disagree, 4=strongly agree), excellent reliability Forms of stigmatization: <u>Public Stigma: stereotypes, discrimination, social exclusion</u>	Covid Stress Syndrome (CSS): 5 items 1. Fears about COVID-19 dangerousness and contamination, 2. Fears about socio-economic effects of COVID-19, 3. Fears that foreigners are spreading COVID-19, 4. COVID-related traumatic stress symptoms, 5. COVID-related compulsive checking and reassurance-seeking	<p>Prevalence: not reported</p> <p>Association with stigmatization: Tab.: Correlation between CSS and HCW stigmatization survey</p> <table><tr><td>Covid Stress Scale (CSS)</td><td>R</td></tr><tr><td>Fears about COVID-19 dangerousness and contamination</td><td>0.45</td></tr><tr><td>Fears about socio-economic effects of COVID-19</td><td>0.41</td></tr><tr><td>Fears that foreigners are spreading COVID-19</td><td>0.32</td></tr><tr><td>COVID-related traumatic stress symptoms</td><td>0.30</td></tr><tr><td>COVID-related compulsive checking and reassurance-seeking</td><td>0.24</td></tr></table> <p>Tab: Factor loadings for measures of stigma, avoidance, and COVID Stress Syndrome.</p> <table><tr><td></td><td>Factor 1</td><td>Factor 2</td></tr><tr><td>CSS: Fears about COVID-19 dangerousness and contamination</td><td>.81</td><td>.07</td></tr><tr><td>CSS: Fears about socio-economic effects of COVID-19</td><td>.80</td><td>-.04</td></tr><tr><td>CSS: Fears that foreigners are spreading COVID-19</td><td>.69</td><td>-.06</td></tr><tr><td>CSS: COVID-related traumatic stress symptoms</td><td>.68</td><td>.03</td></tr><tr><td>CSS: COVID-related compulsive checking and reassurance-seeking</td><td>.69</td><td>-.13</td></tr><tr><td>Avoidance of supermarkets and drug stores</td><td>.43</td><td>.13</td></tr><tr><td>Healthcare Worker Stigmatization Survey</td><td>.42</td><td>.19</td></tr><tr><td>Preference for staying home</td><td>-.03</td><td>.90</td></tr><tr><td>Preference for avoiding people</td><td>.08</td><td>.76</td></tr></table> <p>*maximum likelihood factor analysis of the COVID Stress Scales, avoidance measures, and HCW Stigmatization Survey</p>	Covid Stress Scale (CSS)	R	Fears about COVID-19 dangerousness and contamination	0.45	Fears about socio-economic effects of COVID-19	0.41	Fears that foreigners are spreading COVID-19	0.32	COVID-related traumatic stress symptoms	0.30	COVID-related compulsive checking and reassurance-seeking	0.24		Factor 1	Factor 2	CSS: Fears about COVID-19 dangerousness and contamination	.81	.07	CSS: Fears about socio-economic effects of COVID-19	.80	-.04	CSS: Fears that foreigners are spreading COVID-19	.69	-.06	CSS: COVID-related traumatic stress symptoms	.68	.03	CSS: COVID-related compulsive checking and reassurance-seeking	.69	-.13	Avoidance of supermarkets and drug stores	.43	.13	Healthcare Worker Stigmatization Survey	.42	.19	Preference for staying home	-.03	.90	Preference for avoiding people	.08	.76
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General	Exposure	Outcome	Results																										
865 Uvais, India, 2020	<p>Perceived stigma: stigma scale with 13 items (each scored on a 5-point Likert scale, total score 0 - 52 total score ≥26: high levels of perceived stigma)</p> <p>Form of stigmatization: <u>Self-stigma (perceived): discrimination, social exclusion</u></p> <p>Self-stigma (anticipated)</p>	Perceived Stress Scale (PSS-10): 10 items, 5-point Likert scale, total score 0– 40	<p>Prevalence: Mean: 20.6 (SD 6.76)</p> <p>Association with stigmatization: Correlation stigma and Stress: Pearson correlation coefficient r = 0.604</p>																										
7220 Zandifar 2020, Iran	<p>Stigma: 22-item modified stigma-related questionnaire adopted from the HIV Stigma Scale (5-point Likert scale: strongly disagree to strongly agree)</p> <p>Form of stigmatization: <u>Self-stigma (perceived): discrimination</u></p>	PTDS: Posttraumatic Stress Disorder 8-Item Questionnaire (PTSD-8)	<p>Prevalence:</p> <p>Table 1 and Table 2: Prevalence of intrusion, avoidance, and hypervigilance (in %)</p> <table><tr><td></td><td>Male</td><td>Female</td><td>Total sample</td></tr><tr><td>Intrusion</td><td>37.4</td><td>46.9</td><td>42.2</td></tr><tr><td>Avoidance</td><td>23.5</td><td>35.3</td><td>31.4</td></tr><tr><td>Hypervigilance</td><td>33.1</td><td>39.7</td><td>37.2</td></tr></table> <p>- Significant difference between males and females for intrusion and avoidance, but not for hypervigilance</p> <p>Association with stigmatization: Table 4: Correlation between PTSD and stigma (with Spearman correlation)</p> <table><tr><td></td><td>PTDS total score</td><td>Intrusion score</td><td>Avoidance score</td><td>Hypervigilance score</td></tr><tr><td>Stigma score</td><td>0.836*</td><td>0.724*</td><td>0.693*</td><td>0.767*</td></tr></table> <p>* Statistically significant</p>		Male	Female	Total sample	Intrusion	37.4	46.9	42.2	Avoidance	23.5	35.3	31.4	Hypervigilance	33.1	39.7	37.2		PTDS total score	Intrusion score	Avoidance score	Hypervigilance score	Stigma score	0.836*	0.724*	0.693*	0.767*
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905 Zhu 2020, China	<p>Feeling that family and friends avoid contact because of work: 1 item question (answer options: agree, disagree, unsure)</p> <p>Form of stigmatization: <u>Self-stigma (perceived): social exclusion</u></p>	<p>Depression: Patient Health Questionnaire 9 (PHQ-9, major depression: score ≥10)</p> <p>Anxiety: Generalized Anxiety Disorder 7 (GAD-7, anxiety disorder: score ≥8)</p> <p>Psychological stress: Impact of Event Scale-Revised (IES-R, stress: score: >33)</p>	<p>Prevalence:</p> <p>Table 1 and Figure 2</p> <table><tr><td>Outcome</td><td>n</td><td>%</td></tr><tr><td>No symptoms</td><td>n.r.</td><td>63.4</td></tr><tr><td>Acute stress</td><td>1509</td><td>29.8</td></tr><tr><td>Depression</td><td>381</td><td>13.5</td></tr><tr><td>Anxiety</td><td>1218</td><td>24.1</td></tr></table>	Outcome	n	%	No symptoms	n.r.	63.4	Acute stress	1509	29.8	Depression	381	13.5	Anxiety	1218	24.1											
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General	Exposure	Outcome	Results		
			Acute stress and depression	n.r.	1.5
			Acute stress and anxiety	n.r.	7.5
			Depression and anxiety	n.r.	0.9
			Acute stress and depression and anxiety	n.r.	10.4
			n not reported		
			Association with stigmatization:		
			Table 2: Depression		
				Depression (n = 681)	No depression (n = 4,381)
			Do you feel that family members and friends have avoided contact with you because of your work?		
			Disagree	215 (31.6%)	2298 (52.5%)
			Agree	240 (35.2%)	747 (17.1%)
			Unsure	226 (33.2%)	1336 (30.5%)
			Table 2: Anxiety		
				Anxiety (n = 1,218)	No anxiety (n = 3,844)
			Do you feel that family members and friends have avoided contact with you because of your work?		
			Disagree	414 (34.0%)	2099 (54.6%)
			Agree	389 (31.9%)	598 (15.6%)
			Unsure	415 (34.1%)	1147 (29.8%)
			Table 2: Psychological stress		
				Psychological stress (n = 1,509)	No psychological stress (n = 3,553)
			Do you feel that family members and friends have avoided contact with you because of your work?		
			Disagree	510 (33.8%)	2003 (56.4%)
			Agree	463 (30.7%)	524 (14.8%)
			Unsure	536 (35.5%)	1026 (28.9%)
			Table 3 and Supplementary Material (ST1 and ST2): Depression		
				Total sample OR (95% CI)	Men OR (95% CI)
					Women OR (95% CI)

General	Exposure	Outcome	Results																																																								
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5386 Zolnikov 2020, worldwide	Stigma Form of stigmatization: <u>Self-stigma (perceived);</u> <u>discrimination, social</u> <u>exclusion, aggressive</u> <u>behaviour/mobbing</u> Self-Stigma (internalized)	Negative feelings, stress, alcohol usage	Prevalence: n.a. Association with stigmatization: - common words to describe emotions and feelings as a result of being stigmatized, included " <i>sadness</i> ", feeling "blue" and " <i>extremely stress[ed]</i> " while living in a situation that " <i>is so demoralizing</i> " - reactions to these feelings included alcohol use → quote: " <i>I feel very isolated, lonely, depressed even. I found my alcohol intake increased</i> "																																																								

n = sample size, n.a. = not applicable, n.r. = not reported, OR = odds ratio, RR = relative risk