Supplementary material

1. Definition of the "overall severity" variable

The measure of 'overall severity' used in our regression analyses was defined from the screening questionnaires as the highest severity grade received across the questionnaires using the categorisation system illustrated in the Table below. If the scores across all available measure were consistent with the mildest severity classification for each measure, a person was categorised as presenting a "low" severity profile. If the person's highest severity grade was consistent with those listed in the moderate column, a 'moderate' severity category was applied. If the person scored in the higher tiers of severity in at least one measure, a "high" severity classification was applied. Missing data was allowed on any measure, with overall severity being calculated from the available measures. Overall severity was set as missing if all measures had missing data for that individual.

Supplementary Table 1: Overall severity table

Overall severity	PHQ9	GAD7	PCL-5	ITQ	AUDIT	WSAS
LOW	None;	None;	No	No	Low risk	Subclinical
	Mind	Mild	PTSD	PTSD/CPTSD		
MODERATE	Moderate;	Moderate	n/a	n/a	Hazardous	Significant
	Moderately					
	severe					
HIGH	Severe	Severe	PTSD	PTSD /	Harmful;	Moderately
			present	CPTSD	Possible	severe or
				present	dependence	worse

2. Occupational characteristics of the sample

Supplementary Table 2: N (%) for the occupational data of the sample.

	Site A (n=475)	Site B (n=367)	Site C (n=400)	Site D (n=731)	Total (n=1973)
NHS	289 (60.2)	315 (87.0)	222 (57.8)	312 (44.0)	1138 (58.9)
Primary care	31 (6.5)	15 (4.1)	20 (5.2)	66 (9.3)	132 (6.8)
Social care	18 (3.8)	13 (3.6)	26 (6.5)	59 (8.3)	116 (6.0)
Emergency services	20 (4.2)	3 (0.8)	45 (11.7)	30 (4.2)	98 (5.0)
Education	14 (2.9)	0 (0)	1 (0.2)	9 (1.3)	24 (1.2)

	Site A	Site B	Site C	Site D	Total
	(n=475)	(n=367)	(n=400)	(n=731)	(n=1973)
VCSE	2 (0.4)	0 (0)	13 (3.4)	36 (5.1)	51 (2.6)
Local authority	17 (3.5)	0 (0)	4 (1)	15 (2.1)	36 (1.9)
Other [*]	84 (17.5)	16 (4.4)	54 (14.1)	182 (25.7)	336 (17.4)
Missing	0% missing	1.4% missing	4% missing	3% missing	2.1% missing

Note: All percentages calculated excluding missing values

3. Regression tables for the caseness and overall severity analyses

Supplementary Table 3: Summary of logistic regression analyses of PHQ-9 caseness

Predictor	OR	95% CI		р	Interaction p-
					value
<u>Demographics</u>					
Age	1	0.99	1.01	0.416	0.525
Gender (man vs woman)	1.02	0.77	1.36	0.879	0.744
Gender (identified in another way vs woman)	0.75	0.36	1.62	0.507	-
Ethnicity (ethnic minority vs white)	0.66	0.43	1.03	0.063	0.044
ICU/critical care	1.14	0.81	1.64	0.458	0.466
Clinical vs non-clinical	0.67	0.44	1.01	0.062	0.024
Sexual orientation (identified in another way vs heterosexual)	1.89	01.23	2.94	0.004	0.969
Disability	1.71	1.19	2.53	0.005	0.264

^{*}In all sites other than Site D, free text information about job role were available, therefore it was often possible to re-categorise clients from 'Other' to one of the main reported categories included in the table, most commonly to the NHS category. However, this open text response option was not available for Site D, hence a high proportion of 'Other' job roles.

Predictor	OR	95% CI		р	Interaction p-
					value
Impacts of COVID					
COVID illness (home)	1.21	0.97	1.5	0.094	0.266
COVID illness (hospital)	1.32	0.74	2.48	0.364	0.483
COVID family member (home)	1.21	0.96	1.52	0.11	0.228
COVID family member (hospital)	1.06	0.74	1.54	0.763	0.995
Financial loss	1.48	1.14	1.95	0.004	0.489
Undertaking new tasks	1.23	1.01	1.51	0.038	<0.001
Seconded or re-deployed	0.93	0.71	1.23	0.616	0.661
Moved work location	1.22	0.98	1.53	0.076	0.211
Bereavement	1.26	0.97	1.64	0.089	0.242
Pre-pandemic MH concerns					
Yes (vs no)	2.03	1.62	2.53	<0.001	0.085
Unsure (vs no)	1.81	1.37	2.42	0.001	-

Supplementary Table 4: Summary of logistic regression analyses of GAD-7 caseness

Predictor	OR	95% CI		р	Interaction p-value
<u>Demographics</u>					
Age	0.98	0.97	0.99	<0.001	0.576
Gender (man vs woman)	0.95	0.73	1.25	0.725	0.726

Predictor	OR	95% CI		р	Interaction
				·	p-value
Gender (identified in another way vs woman)	0.78	0.37	1.64	0.507	-
Ethnicity (ethnic minority vs white)	1.14	0.74	1.79	0.547	0.432
ICU/critical care	1.15	0.83	1.6	0.406	0.843
Clinical vs non-clinical	0.98	0.67	1.41	0.899	0.689
Sexual orientation (identified in another way vs heterosexual)	1.32	0.92	1.92	0.13	0.477
Disability	1.17	0.85	1.63	0.33	0.230
Impacts of COVID					
COVID illness (home)	0.9	0.74	1.1	0.311	0.003
COVID illness (hospital)	0.82	0.49	1.38	0.445	0.68
COVID family member (home)	1.13	0.91	1.4	0.272	0.001
COVID family member (hospital)	1.39	0.97	2.01	0.074	0.715
Financial loss	1.28	1	1.64	0.049	0.649
Undertaking new tasks	1.13	0.94	1.37	0.194	0.583
Seconded or re-deployed	0.92	0.71	1.19	0.521	0.494
Moved work location	1.21	0.98	1.49	0.074	0.192
Bereavement	1.38	1.07	1.77	0.012	0.613
Pre-pandemic MH concerns					
Yes (vs no)	2.05	1.66	2.53	<0.001	0.399
Unsure (vs no)	1.66	1.28	2.17	0.001	-

Supplementary Table 5: Summary of logistic regression analyses of PTSD caseness based on the PCL-5

Predictor	OR	95% CI		р	Interaction p- value	
<u>Demographics</u>						
Age	1	0.99	1.01	0.927	0.73	
Gender (man vs woman)	1.09	0.73	1.65	0.681	0.633	
Gender (identified in another way vs woman) *	-	-	-	-	-	
Ethnicity (ethnic minority vs white)	1.89	0.93	4.15	0.093	0.296	
ICU/critical care	2.23	1.45	3.52	<0.001	0.536	
Clinical vs non-clinical	0.92	0.49	1.67	0.781	NA**	
Sexual orientation (identified in another way vs heterosexual)	1.59	0.99	2.63	0.062	0.627	
Disability	1.79	1.12	2.94	0.018	0.384	
Impacts of COVID						
COVID illness (home)	1.00	0.73	1.37	0.998	0.821	
COVID illness (hospital)	2.56	1.09	7.02	0.044	0.436	
COVID family member (home)	0.98	0.7	1.37	0.898	0.273	
COVID family member (hospital)	1.27	0.7	2.38	0.445	0.227	
Financial loss	1.72	1.12	2.69	0.015	0.019	
Undertaking new tasks	0.97	0.73	1.29	0.826	0.004	
Seconded or re-deployed	1.05	0.73	1.52	0.797	0.390	

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Predictor	OR	95%	6 CI	р	Interaction p-
					value
Moved work location	0.98	0.71	1.37	0.928	0.762
Bereavement	1.48	0.97	2.29	0.072	0.030
Pre-pandemic MH concerns					
Yes (vs no)	1.95	1.42	2.7	<0.001	0.623
Unsure (vs no)	1.29	0.87	1.91	0.205	-

Note: * This model was not computable due to small numbers ** No interaction was computable as PCL-5 data were available for one site only

Supplementary Table 6: Summary of logistic regression analyses of PTSD caseness based on the ITQ

Predictor	OR	95%	6 CI	р	Interaction
					p-value
<u>Demographics</u>					
Age	0.99	0.98	1	0.191	0.923
Gender (man vs woman)	1.17	0.82	1.67	0.381	0.818
Gender (identified in another way vs woman)	1.13	0.46	2.55	0.783	-
Ethnicity (ethnic minority vs white)	1.32	0.74	2.3	0.333	0.263
ICU/critical care	1.44	0.83	2.45	0.184	0.844
Clinical vs non-clinical	1.1	0.69	1.8	0.686	0.239
Sexual orientation (identified in another way vs heterosexual)	1.20	0.70	2.00	0.501	0.211
Disability	1.32	0.84	2.03	0.22	0.522

Predictor	OR	95%	6 CI	р	Interaction p-value
Impacts of COVID					<u> </u>
COVID illness (home)	0.83	0.62	1.09	0.187	0.504
COVID illness (hospital)	1.25	0.6	2.49	0.539	0.121
COVID family member (home)	1.27	0.96	1.67	0.097	0.639
COVID family member (hospital)	1.62	1.06	2.48	0.025	0.596
Financial loss	1.57	1.16	2.13	0.003	0.382
Undertaking new tasks	1.71	1.31	2.25	<0.001	0.713
Seconded or re-deployed	1.39	0.97	1.99	0.07	0.406
Moved work location	1.49	1.13	1.95	0.004	0.043
Bereavement	1.91	1.41	2.58	<0.001	0.314
Pre-pandemic MH concerns					
Yes (vs no)	1.59	1.20	2.11	0.001	0.34
Unsure (vs no)	1.07	0.73	1.55	0.72	-

Supplementary Table 7: - Summary of logistic regression analyses of AUDIT caseness

Predictor	OR	OR 95% CI		р	Interaction p- value	
<u>Demographics</u>						
Age	1	0.99	1.01	0.909	0.553	

Predictor	OR	95% CI		р	Interaction p-
					value
Gender (man vs woman)	2.35	1.74	3.16	<0.001	0.291
Gender (identified in another way vs	1.40	0.54	3.21	0.455	-
woman)					
Ethnicity (ethnic minority vs white)	0.24	0.09	0.51	0.001	0.151
ICU/critical care	1.43	0.98	2.08	0.061	0.009
Clinical vs non-clinical	1.35	0.87	2.16	0.19	0.004
Sexual orientation (identified in another way vs heterosexual)	1.47	0.95	2.22	0.072	0.167
Disability	0.65	0.41	0.98	0.049	0.214
Impacts of COVID					
COVID illness (home)	1.07	0.83	1.37	0.622	0.77
COVID illness (hospital)	0.2	0.05	0.54	0.006	0.329
COVID family member (home)	1.1	0.84	1.42	0.488	0.476
COVID family member (hospital)	0.74	0.46	1.15	0.2	0.568
Financial loss	1.17	0.87	1.55	0.291	0.807
Undertaking new tasks	1.38	1.09	1.76	0.008	0.627
Seconded or re-deployed	0.93	0.67	1.27	0.648	0.651
Moved work location	0.71	0.55	0.93	0.012	0.943
Bereavement	1.3	0.97	1.73	0.07	0.136
Pre-pandemic MH concerns					
Yes (vs no)	1.18	0.90	1.53	0.226	0.018

 Predictor
 OR
 95% CI
 p
 Interaction p-value

 Unsure (vs no)
 1.53
 1.12
 2.09
 0.008

Supplementary Table 8: Part 2- Summary of logistic regression analyses of WSAS caseness

Predictor	OR	95% CI		р	Interaction p- value
<u>Demographics</u>					
Age	0.99	0.98	1	0.198	0.061
Gender (man vs woman)	1.12	0.81	1.56	0.498	0.498
Gender (identified in another way vs woman)	1.42	0.6	3.88	0.456	-
Ethnicity (ethnic minority vs white)	0.87	0.54	1.45	0.568	0.481
ICU/critical care	0.85	0.59	1.26	0.409	0.674
Clinical vs non-clinical	0.66	0.41	1.03	0.078	0.2
Sexual orientation (identified in	2.44	1.45	4.35	0.002	0.189
another way vs heterosexual) Disability	1.93	1.23	3.15	0.006	0.190
Impacts of COVID					
COVID illness (home)	1.23	0.96	1.59	0.1	0.576
COVID illness (hospital)	1.26	0.66	2.67	0.513	0.882
COVID family member (home)	1.62	1.24	2.14	0.001	0.473
COVID family member (hospital)	1.06	0.71	1.64	0.772	0.628

Predictor	ictor OR 95% CI		% CI	р	Interaction p-
					value
Financial loss	1.59	1.17	2.19	0.004	0.912
Undertaking new tasks	1.13	0.9	1.41	0.295	0.129
Seconded or re-deployed	0.83	0.62	1.13	0.237	0.195
Moved work location	1.06	0.83	1.36	0.643	0.839
Bereavement	1.08	0.81	1.45	0.595	0.173
Pre-pandemic MH concerns					
Yes (vs no)	2.29	1.77	2.97	<0.001	0.018
Unsure (vs no)	1.71	1.25	2.37	0.001	-

Supplementary Table 9: Part 2 - Summary of proportional odds logistic regression analyses of overall severity across the Hub screening measures

Predictor	OR	95% CI		р	Interaction p-
					value
<u>Demographics</u>					
Age	0.99	0.98	1.00	0.05	0.91
Gender (man vs woman)	1.07	0.82	1.40	0.62	0.83
Gender (identified in another way vs woman)	1.07	0.52	2.25	0.86	-
Ethnicity (ethnic minority vs white)	0.85	0.56	1.32	0.47	0.19
ICU/critical care	1.28	0.92	1.81	0.15	0.60
Clinical vs non-clinical*	0.81	0.56	1.16	0.26	Not comp
					utable

Predictor	OR	95% CI		р	Interaction p-
					value
Sexual orientation (identified in	1.75	1.22	2.63	0.004	0.28
another way vs heterosexual)					
Disability	1.70	1.21	2.41	0.003	0.58
Impacts of COVID					
COVID illness (home)	1.18	0.97	1.45	0.11	0.19
COVID illness (hospital)	1.44	0.83	2.61	0.21	0.93
COVID family member (home)	1.31	1.06	1.63	0.01	0.13
COVID family member (hospital)	1.18	0.83	2.61	0.21	0.82
Financial loss	1.84	1.43	2.39	<0.001	0.92
Undertaking new tasks	1.19	0.99	1.44	0.06	0.04
Seconded or re-deployed	1.04	0.81	1.35	0.76	0.42
Moved work location	1.15	0.94	1.41	0.19	0.22
Bereavement	1.25	0.98	1.60	0.07	0.30
Pre-pandemic MH concerns					
Yes vs no	2.11	1.72	2.59	<0.001	0.15
Yes vs unsure	1.43	1.08	1.90	0.01	-

^{*} It was not possible to adjust this analysis for site due to the distribution of the outcome across sites in the subgroup of NHS workers. Attempting to do so resulted in non-convergence of the model.