***Supplementary Material***

Psychological well-being and symptoms of depression and anxiety across age groups during the second wave of the COVID-19 Pandemic in Denmark

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### **Supplementary Figure 1 A. WHO-5 mean values (with 95% CI) at wave 2 and 4, stratified by age and gender. B. Changes in WHO-5 mean values (with 95% CI) from wave 2 to wave 4, stratified by age and gender**

### **A.**

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### **B.**

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### **Supplementary Figure 2: A. Proportions (with 95% CI) with WHO-5 scores <50 at wave 2 and 4, stratified by age. B. Changes in the proportions (with 95% CI) with WHO-5 scores <50 from wave 2 to wave 4, stratified by age**

**A.**

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**B.**



### **Supplementary Figure 3: Individual WHO-5 item scores# at wave 2 and wave 4, stratified by age**



**#** The item scores were multiplied by 4 to match the total scores reported in the manuscript and elsewhere in the supplement. The total score on the WHO-5 is calculated by adding the individual item scores and multiplying by four (hypothetical range: 0-100).

### **Supplementary Figure 4: Symptoms of anxiety and depression at wave 2 and wave 4, stratified by age**



### **Supplementary Table 1: Correlation between changes in symptoms of anxiety/depression and changes in psychological well-being (WHO-5 total scores) from wave 2 to wave 4**

|  |  |  |
| --- | --- | --- |
| **Age****(years)** | **Symptom** | **Pearson’s R** |
| 18-24 | Worried | **-0.32 (p=0.003)** |
| Nervous | **-0.44 (p<0.001)** |
| Anxious | **-0.33 (p=0.005)** |
| Depressed | **-0.38 (p=0.001)** |
| Hopeless | **-0.40 (p<0.001)** |
| Guilty | -0.21 (p=0.092) |
| 25-34 | Worried | **-0.45 (p<0.001)** |
| Nervous | **-0.41 (p<0.001)** |
| Anxious | **-0.47 (p<0.001)** |
| Depressed | **-0.55 (p<0.001)** |
| Hopeless | **-0.47 (p<0.001)** |
| Guilty | **-0.37 (p<0.001)** |
| 35-44 | Worried | **-0.45 (p<0.001)** |
| Nervous | **-0.50 (p<0.001)** |
| Anxious | **-0.39 (p<0.001)** |
| Depressed | **-0.54 (p<0.001)** |
| Hopeless | **-0.66 (p<0.001)** |
| Guilty | **-0.35 (p<0.001)** |
| 45-54 | Worried | **-0.24 (p=0.001)** |
| Nervous | **-0.38 (p<0.001)** |
| Anxious | **-0.30 (p<0.001)** |
| Depressed | **-0.43 (p<0.001)** |
| Hopeless | **-0.39 (p<0.001)** |
| Guilty | **-0.21 (p=0.003)** |
| 55-64 | Worried | **-0.33 (p<0.001)** |
| Nervous | **-0.40 (p<0.001)** |
| Anxious | **-0.35 (p<0.001)** |
| Depressed | **-0.53 (p<0.001)** |
| Hopeless | **-0.48 (p<0.001)** |
| Guilty | **-0.25 (p<0.001)** |
| 65-74 | Worried | **-0.42 (p<0.001)** |
| Nervous | **-0.46 (p<0.001)** |
| Anxious | **-0.41 (p<0.001)** |
| Depressed | **-0.55 (p<0.001)** |
| Hopeless | **-0.43 (p<0.001)** |
| Guilty | **-0.13 (p=0.027)** |
| 75-89 | Worried | **-0.27 (p=0.002)** |
| Nervous | **-0.41 (p<0.001)** |
| Anxious | **-0.40 (p<0.001)** |
| Depressed | **-0.37 (p<0.001)** |
| Hopeless | **-0.29 (p=0.004)** |
| Guilty | **-0.22 (p=0.040)** |

Pearson's correlation coefficients for the association between changes in the six self-reported

symptoms of anxiety and depression from wave 2 to wave 4 and changes in WHO-5 total scores

from wave 2 to wave 4. Observations: 124-351. Bold text marks statistically significant correlation.