Online Supplementary Materials

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eMethods

Study Procedures
A detailed series of studies phases for the development and validation of the coronavirus disease 2019—public stigma scale (COVID-PSS) instrument is provided as follows:

Phase I: Item generation
In process of item selection, content and comprehensive literature review with relevant sources of public stigma to coronavirus disease-2019 (COVID-19) were identified, including the classic theories of Goffman, 1963; labeling theory—Scheff, 1966; community attitudes toward the mentally ill—Taylor and Dear, 1981; an attribution model of public discrimination towards the person with mental illness—Corrigan et al, 2003; and conceptualization of the stigma creation process—Link et al, 2004.

In addition, various paradigms—perceived public stigma across (i) infectious disease (human immunodeficiency viruses [HIV], Ebola virus, leprosy, severe acute respiratory syndrome [SARS]); (ii) identity and disability (minority groups, intellectual disabilities); and (iii) addictive behaviors (gambling, alcohol use disorder) were also reviewed. Of these commonly included dimensional were fear/dangerousness, moral judgment, and personal perception (beliefs/attitudes, anger, and blame).

To explored perceived public stigma to COVID-19 infection, the 30-general public was interviewed using a combination of structured and non-structured in-depth interviews. The candidate items were selected based on cultural norms, relevance to COVID-19 pandemic, and focusing on the public experiences. The initial item bank was identified to yield the 42-item predefined questionnaire.

Phase II: Development of the pilot questionnaire
The 42-item predefined was given to three epidemiologists, two psychiatrists, one social scientist, and two general practitioners for comment on ease of understanding, appropriateness of language, and redundancy. The experts also provided feedback and rated each item in order to importance, and reduced to the 30-item pilot COVID-PSS questionnaire. A five-point Likert scale per theorised items was used as it allowed for greater variation in response. A higher score indicated a higher social stigma to COVID-19 infection. An additional 30-general public was invited to complete the pilot 30-item COVID-PSS in this phase to evaluate such dimensions as a face and content validity. There were subsequently interviewed to address the following: the readability of the overall questionnaire, the clarity of the directions and the items/response choices, the comprehension of the questionnaire, and other opinions regarding each item. The 30-item pilot COVID-PSS was reworded or substituted based on recommendations from the public and experts interview (appendix p 10).
Phase III: Refinement of the questionnaire

With respect to the physical distancing strategy and minimize face-to-face interaction, we developed an online questionnaire via the SurveyMonkey® (https://www.surveymonkey.com) that limits one-time participation per unique internet protocol (IP) address. A convenience and snowball sampling strategy will be applied to recruit the general population through various social media networks including public websites, Facebook, LINE, Twitter, and Instagram. Participants had completed a set of questionnaires, including sociodemographic characteristics (age, sex, educational level, marital status, religion, occupation/profession status, the region of residence, living status, number of a household family member, monthly income, job/income loss related to COVID-19 outbreak, financial problems, reimbursement schemes, comorbidities, media exposure, working from home information, quarantine/isolation information, willingness to quarantine during COVID-19 outbreak) and instruments regarding the mental health and psychosocial question, COVID-PSS, as well as the specific tools for verifying the psychometric properties of the COVID-PSS.

During the Wave-I of the Health Outcomes and Mental Health Care Evaluation Survey: Under the Pandemic Situation of COVID-19 (HOME-COVID-19) survey in Thailand (April 21 – May 4, 2020)\(^4\), a total of 4,004 general populations had completed a pilot 30-items COVID-PSS. At this phase, a 1:1 ratio of participants has randomly analyzed dimensionality of the instrument and test for scale structure using exploratory factor analysis (EFA cohort: n=2,002) and confirmatory factor analysis (CFA cohort: n=2,002), respectively. In addition, the nonparametric item responses theory (IRT) was performed to analyze the unidimensional item sets of The COVID-PSS.

Phase IV: Psychometric validation

The validity and reliability were performed to verify the psychometric properties of the final COVID-PSS. The participants were asked to complete the set of convergent validity and anchor-based questions and divergent validity tools as follows:

Convergent validity and anchor-based tools

(i) Global fear of COVID-19

Participants were asked to rate their maximum of feeling fear of COVID-19 by using a numerical rating scale (NRS) as it easy to complete and appropriate for all groups of participants. The global fear of COVID-19 scale of 0 to 10 points, with 0 beings “no fear” and 10 being the “extremely large fear”. Participants choose the number that best describes their feeling of fear of COVID-19.
Directions: Please circle your response.

Overall, how do you rate your feeling of fear of COVID-19 infection?

0 1 2 3 4 5 6 7 8 9 10

No fear    Extremely large fear

(ii) Perceived risk of COVID-19 infection

The perceived dangerousness to COVID-19, one question evaluating the impact of COVID-19 pandemic on overall perceived dangerousness in daily life. It consists of 11-point NRS, which 0 stands for “no dangerousness” and 10 stands for “extremely dangerousness”.

Directions: Please circle your response.

Overall, how dangerous would you feel about the COVID-19 infection in daily life?

0 1 2 3 4 5 6 7 8 9 10

No dangerousness    Extremely dangerousness

(iii) The Bogardus social distance scale

The Bogardus social distance scale is the cumulative scale—Guttman scale. It has been used to measure varying degrees of closeness in people towards other members of diverse social, ethnic, or racial groups. Participants were asked to rank order system 1-7 points that they would be willing to admit a member of the group in question. The seven statements are as follows:

- Would you be willing to marry a member of the COVID-19 infected group? (1.0)
- Would you be willing to have a member of the COVID-19 infected group as your close personal friend? (2.0)
- Would you be willing to have a member of the COVID-19 infected group as your neighbor? (3.0)
Would you be willing to have a member of the COVID-19 infected group as your colleague at work? (4.0)
Would you be willing to have a member of the COVID-19 infected group as a citizen of your country? (5.0)
Would you be willing to have a member of the COVID-19 infected group visit your country as a non-citizen? (6.0)
Would you be willing to have a member of the COVID-19 infected group be excluded from associating with your country in any way? (7.0)

Discriminant validity tools

**(i) Pain intensity**
In relation to pain intensity, it is well established that a measured by an 11-points NRS (0-10) is applicable for unidimensional assessment pain intensity through evidence from the social sciences, notably census and surveys, public opinion polls, and pre- and post-marketing research. Participants were asked to rate their current pain intensity, with 0 indicate for “no pain” and 10 indicate for “pain as bad as can imagine”.

**(ii) Insomnia severity index (ISI)**
The ISI is a self-report instrument that recalls the insomnia severity over the last past month. It consists of a 7-item with including the severity of sleep onset, sleep maintenance, and early morning awakening problems, sleeps dissatisfaction, interference of sleep difficulties with daytime functioning, noticeability of sleep problems by others, and distress caused by the sleep difficulties. A 5-point Likert scale to rate each item, yielding a total score ranging from 0 to 28 (higher scores indicating the severity of sleep problems).

Furthermore, test-retest reliability was then analysed on the basis of a convenience subset of 409 participants who completed the final COVID-PSS a second time, approximately three-five days after the first entry.

**Phase V: Meaningful interpretation**
The anchor-based methods were used to establish an interpretation of the final COVID-PSS by classifying severity cutoff scores, which has been recognized as the optimal approach to defined the meaning of scale as it directly measures the participants’ values and perspectives.

**Statistical analyses**

**Item analysis**
Item scores were summarized descriptively with the normality of score distribution assessed by the skewness and kurtosis tests. To ensure that the scales captured the full range of potential response
within the population and change over time, items that demonstrated a floor or ceiling effect of greater than 80% were removed.

**Exploratory factor analysis (EFA)**

To ensure an appropriate use of factor analysis, the Kaiser-Meyer-Olkin (KMO) measure and the Bartlett test of sphericity were performed, whereby the KMO values greater than 0.8 and $P$-value of Bartlett test less than 0.05 are suggested for sampling adequacy and the suitability of the data for factor analysis, respectively. For the EFA cohort (n=2,002), we performed an EFA by a principal factor extraction method to construct a factorial structure and increase the relevance of items. Prior communalities were estimated and the factor was obliquely rotated using the promax criterion to allow for factor covariation, and items were treated as continuous variables.

The eigenvalues greater than 1.0 and the scree plot with the number of factors that explained more than 5% of the variance was used to define the number of factors retained.\textsuperscript{21,22} The parallel analysis was also performed to confirm the optimal threshold for the number of factors or subscale components. To develop a practical and concise measurement tool, items were considered acceptable and retained if the loading coefficient was greater than 0.6. Item complexity was ascribed to the factor for which the loading coefficient was the highest. The item characteristics were reviewed by the panel experts of the research team to determine item inclusion or exclusion. The included items were named under the relevant factors structure on the basis of their content. Each unidimensional set of items was identified by the EFA, then the CFA was used to assess a model fit using the separate dataset (CFA cohort) in the next step.

**Confirmatory factor analysis (CFA)**

For the CFA cohort (n=2,002), we then analyzed scale structure using CFA with the maximum likelihood estimation and by treating items as continuous variables. A CFA was tested how correctly a hypothesized model according to the factor structure by EFA as described above. The fit indices (which take into account total sample size) including the root mean square error of approximation (RMSEA) less than 0.100\textsuperscript{23,24}, standardized root mean squared residual (SRMR) less than 0.100\textsuperscript{23,24}, comparative-fit index (CFI) greater than 0.900\textsuperscript{25}, and non-normed fit index/Tucker-Lewis Index (TLI) greater than 0.900\textsuperscript{26}, were tested to determine the appropriateness of the tested model. The RMSEA is a parsimony index that assesses the fit between the hypothesized model and the population covariance matrix.

The CFI and TLI are incremental fit indices that evaluated the independence model with the hypothesized model. Meanwhile, the SRMR is the residual-based indices of the difference between a sample and hypothesized variance-covariance matrices. We chose to examine fit indices owing to when the sample size is large, a $\chi^2$ test for model fit is often significant (model is a poor fit), even
when the model is, in practice, a good fit. Moreover, the coefficient of determination (R-squared) and item-scale correlations (standardized factor loading), should be at least 0.30 and 0.40, respectively to establish acceptance of the final structure of the COVID-PSS. Thereafter, the model was reevaluated by examining the modification indices.

Nonparametric item response theory (IRT) analysis

Once the unidimensional set of items of the COVID-PSS was identified and assessed model fit by the EFA and CFA, respectively. With regard to the relationship between the latent trait and the responses to the items, we, therefore, implemented the nonparametric IRT analysis to evaluate the fundamental assumptions, including unidimensionality, local independence, and monotonicity. Unidimensionality implies that responses to items are explained by a common latent trait. Local independence implies that responses to items are independent and all the relationships between the items are explained by the latent trait. In other words, local independence implies that a strong redundancy among the items does not indicate. Monotonicity is a key assumption that allows validating the score as an ordinal measure of the latent trait.27

The traces of the items, Loevinger’s H coefficients ($H$): if $H$ less than 0.3, the scale has poor scalability properties; $0.3 \leq H < 0.4$, the scale is weak; $0.4 \leq H < 0.5$, the scale is medium; and $H \geq 0.5$ or more, the scale is strong) and monotonicity assumption criterion (should be less than 80) were tested to determine the fundamental of nonparametric IRT assumption as described above.27 Taken together with the CFA, the final decision for the final COVID-PSS items were based on a theoretically of all psychometric performance.

Validity

Face and content validity

Face and content validity are quantitative measures that are present whether the COVID-PSS appears to assess the issues relevant to the social stigma toward the COVID-19 infection. This form of validity was conducted through the comprehensive development of the questionnaire by literature reviews, public interviews, and expert reviews.

Convergent validity

Convergent validity describes the degree to which the proposed assessment converges with other relevant measures. This validity was evaluated using Spearman's correlation coefficients between the final COVID-PSS and other instruments as mentioned above, namely—the global fear of COVID-19, perceived dangerousness to COVID-19, and the Bogardus social distance scale. The correlation statistics were interpreted as slight (0 to 0.2), fair (>0.2 to 0.4), moderate (>0.4 to 0.6), substantial (>0.6 to 0.8), and almost perfect (>0.8). Thus, a moderate correlation value was recognized if the convergent validity was greater than 0.4.
On the basis of the psychosocial effects of the COVID-19 pandemic and impact on public daily life, we postulated that the final COVID-PSS was more substantially converge with the global fear of COVID-19, perceived dangerousness to COVID-19, and the Bogardus social distance scale than other instruments. Additionally, multiple linear regression was used to confirm the linearity of the association between the COVID-PSS summary scores as well as its’ subscale and the global fear of COVID-19, perceived dangerousness to COVID-19, and the Bogardus social distance scale.

**Discriminant validity**

With regard to discriminant validity, non-significant, or slight correlation statistic (0 to 0.2) was expected between the final COVID-PSS and specific tools. To establish the discriminant validity, we estimated the bivariate correlation between the final COVID-PSS and the pain intensity scale, and the ISI. We hypothesised there would be non-significant to fair correlation for the COVID-PSS scores and the pain intensity scale and the ISI scale.

**Reliability**

An internal consistency (Cronbach’s α coefficient) was calculated for each factor of the final COVID-PSS as well as the entire of the COVID-PSS instrument to determine internal consistency reliability and the degree to which every item in a scale measures the same construct. The values of at least 0.70 indicated acceptable reliability of the questionnaire. The item-total correlations between 0.20 and 0.80 were also considerable acceptable.

Test-retest reliability was assessed by the intraclass correlation coefficients (ICCs) between the first and second entry (3-5 days later), in which indicated as slight (≤0.2), fair (>0.2 to 0.4), moderate (>0.4 to 0.6), substantial (>0.6 to 0.8), and almost perfect (>0.8).

**Anchor-based methods**

The final COVID-PSS was used to measure the degree of social stigma toward the COVID-19 infection against three sets of participant-assessed anchor questions, including the global fear of COVID-19, perceived dangerousness to COVID-19, and the Bogardus social distance scale. The proposed banding for the final COVID-PSS scores was divided using the mean, median, and mode of the anchor-based questions. The κ coefficient of the agreement was calculated for each set of possible severity strata. The κ coefficient of 0-0.2 was indicated as slight agreement, greater 0.2-0.4 fair, greater 0.4-0.6 moderate, greater 0.6-0.8 substantial, and greater 0.8 almost perfect agreement.

The precision of the area under the receiver operating characteristic curve (AuROC) method was used to assess optimal COVID-PSS cutoff scores. The AuROC of greater than 0.90 were considered as excellent, 0.80-0.89 good, 0.70-0.79 fair, less than 0.70 poor, and less than 0.60 fails. Sensitivity and specificity with the corresponding 95% confidence intervals (CIs) were also estimated. The optimal κ
value together with the AuROC performance was adopted as the best banding for the final COVID-PSS. Effects of covariates on the AuROC values based on the proposed COVID-PSS cut-off scores were explored using the participant characteristics.

The severity and psychosocial effects of the COVID-19 pandemic were defined for a practical application using the AuROC curves plots of three banding systems: no/minimal-, moderate-, and high-social stigma towards COVID-19 infection. To construct the AuROC curves and banding the specific tools for the anchor-based approach, the NRS—11-points the global fear of COVID-19 and the perceived dangerousness to COVID-19 was classified into no/minimal (0-3 points), moderate (4-6 points), and severe (7-10 points). Likewise, the Bogardus social distance scale was classified as no/minimal (1.0), moderate (2.0-3.4), and high (4.0-7.0). Based on the practicability indices, the final COVID-PSS cutoff scores were rounded to zero decimal places. The AuROC analyses of the dichotomization points were determined by using the entire cohort for each cutoff score. For instance, to determine the cutoff for high-social stigma towards COVID-19 infection, the results from severe/high effect of anchor questions were analyzed against all others.
| Variable                              | Included (n=4,004) | Excluded (n=318) | P Value |
|---------------------------------------|-------------------|-----------------|---------|
| Age, year (mean ± SD; range)          | 29.1 ± 10.8; (18 – 79) | 29.4 ± 7.5; (18 – 59) | 0.622   |
| Sexual identity                       |                   |                 |         |
| Male                                  | 1,231 (30.7)      | 80 (25.2)       | 0.093   |
| Female                                | 2,619 (65.4)      | 227 (71.4)      |         |
| Others                                | 154 (3.9)         | 11 (3.5)        |         |
| Marital status                        |                   |                 |         |
| Single                                | 3,208 (80.1)      | 239 (75.2)      | 0.087   |
| Married/domestic partnership          | 693 (17.3)        | 67 (21.1)       |         |
| Divorced/widowed/separated            | 103 (2.6)         | 12 (3.4)        |         |
| Education level                       |                   |                 |         |
| Illiterate/primary school/junior high school | 127 (3.2)       | 8 (2.5)         | 0.067   |
| Senior high school/diploma/high vocational | 1,893 (47.3)     | 131 (41.2)      |         |
| Bachelor’s degree/higher education    | 1,984 (49.6)      | 179 (56.3)      |         |
| Religion                              |                   |                 |         |
| Irreligion                            | 375 (9.4)         | 29 (9.1)        | 0.885   |
| Buddhist/Christian/Muslim/Others      | 3,629 (90.6)      | 289 (90.9)      |         |
| Occupation                            |                   |                 |         |
| Unemployed/retired                    | 391 (9.8)         | 28 (8.8)        | 0.176   |
| Employed                              | 2,024 (50.5)      | 178 (56.0)      |         |
| College student                       | 1,589 (39.7)      | 112 (35.2)      |         |
| Living status                         |                   |                 |         |
| Alone                                 | 576 (14.4)        | 54 (17.0)       | 0.077   |
| With family                           | 3,164 (79.0)      | 235 (73.9)      |         |
| With others                           | 264 (6.6)         | 29 (9.1)        |         |
| Person income, Baht/month             |                   |                 |         |
| ≤10,000                               | 1,905 (47.6)      | 141 (44.3)      | 0.254   |
| 10,001 – 20,000                       | 1,054 (26.3)      | 81 (25.5)       |         |
| >20,000                               | 1,045 (26.1)      | 96 (30.2)       |         |
| History of mental illness             | 359 (9.0)         | 36 (11.3)       | 0.161   |
| History of Chronic NCD†               | 599 (15.0)        | 42 (13.2)       | 0.397   |
| Quarantine status                     |                   |                 |         |
| Never                                 | 1,781 (44.5)      | 149 (46.9)      | 0.687   |
| Past                                  | 1,575 (39.3)      | 118 (37.1)      |         |
| Current                               | 648 (16.2)        | 51 (16.0)       |         |

Data are expressed as the frequency (percentage) of patients, unless otherwise indicated.

†To includes diabetes mellitus, hypertension, dyslipidemia, stroke and heart disease, chronic kidney disease, chronic lung disease, and cancer.

Abbreviations: COVID-19, coronavirus disease-2019; SD, standard deviation.
### Table S2 Descriptive Statistics and Item-Total Correlations: 30-Item Pilot COVID-PSS (n=4,004)

| Item | Mean (SD) | Median (Min-Max) | Ceiling Effect (%) | Floor Effect (%) | Skewness | Kurtosis | Corrected ITC |
|------|-----------|------------------|--------------------|-----------------|----------|----------|--------------|
| Q1   | 2.5 (1.2) | 2 (1 – 5)        | 6.7%               | 24.8%           | 0.37     | 2.30     | 0.30         |
| Q2   | 2.2 (1.1) | 2 (1 – 5)        | 4.7%               | 32.6%           | 0.67     | 2.67     | 0.46         |
| Q3   | 1.9 (1.0) | 2 (1 – 5)        | 2.0%               | 45.9%           | 0.99     | 3.35     | 0.50         |
| Q4   | 3.1 (1.3) | 3 (1 – 5)        | 16.3%              | 13.2%           | -0.10    | 2.00     | 0.38         |
| Q5   | 2.8 (1.3) | 3 (1 – 5)        | 12.1%              | 18.8%           | 0.11     | 2.01     | 0.44         |
| Q6   | 1.8 (1.1) | 1 (1 – 5)        | 3.0%               | 54.8%           | 1.23     | 3.67     | 0.64         |
| Q7   | 1.7 (0.9) | 1 (1 – 5)        | 1.3%               | 56.9%           | 1.34     | 4.36     | 0.51         |
| Q8   | 2.7 (1.3) | 3 (1 – 5)        | 11.2%              | 20.4%           | 0.23     | 1.06     | 0.50         |
| Q9   | 1.9 (1.1) | 2 (1 – 5)        | 3.3%               | 50.0%           | 1.11     | 3.46     | 0.62         |
| Q10  | 2.0 (1.1) | 2 (1 – 5)        | 3.5%               | 42.1%           | 0.98     | 3.35     | 0.63         |
| Q11  | 1.4 (0.8) | 1 (1 – 5)        | 1.0%               | 71.4%           | 2.07     | 7.29     | 0.66         |
| Q12  | 1.5 (0.9) | 1 (1 – 5)        | 1.6%               | 67.2%           | 1.80     | 5.83     | 0.62         |
| Q13  | 2.6 (1.2) | 3 (1 – 5)        | 10.1%              | 16.8%           | 0.24     | 2.24     | 0.46         |
| Q14  | 2.3 (1.1) | 2 (1 – 5)        | 4.4%               | 29.5%           | 0.56     | 2.57     | 0.51         |
| Q15  | 1.4 (0.8) | 1 (1 – 5)        | 0.7%               | 74.4%           | 2.12     | 7.35     | 0.62         |
| Q16  | 1.3 (0.8) | 1 (1 – 5)        | 1.3%               | 80.6%           | 2.66     | 10.14    | 0.39         |
| Q17  | 1.3 (0.8) | 1 (1 – 5)        | 1.0%               | 78.8%           | 2.46     | 9.02     | 0.41         |
| Q18  | 2.3 (1.4) | 2 (1 – 5)        | 9.4%               | 43.0%           | 0.62     | 2.09     | 0.21         |
| Q19  | 1.8 (1.2) | 1 (1 – 5)        | 5.0%               | 57.7%           | 1.40     | 3.97     | 0.26         |
| Q20  | 2.3 (1.3) | 2 (1 – 5)        | 9.4%               | 38.2%           | 0.68     | 2.28     | 0.20         |
| Q21  | 1.9 (1.1) | 2 (1 – 5)        | 2.6%               | 47.6%           | 0.99     | 3.18     | 0.26         |
| Q22  | 2.5 (1.1) | 3 (1 – 5)        | 4.1%               | 23.6%           | 0.20     | 2.33     | 0.17         |
| Q23  | 2.7 (1.2) | 3 (1 – 5)        | 8.6%               | 22.4%           | 0.18     | 2.14     | 0.25         |
| Q24  | 1.5 (0.9) | 1 (1 – 5)        | 1.6%               | 68.3%           | 1.90     | 6.41     | 0.47         |
| Q25  | 2.0 (1.1) | 2 (1 – 5)        | 4.9%               | 40.7%           | 0.96     | 3.28     | 0.37         |
| Q26  | 2.2 (1.3) | 2 (1 – 5)        | 10.5%              | 40.2%           | 0.81     | 2.50     | 0.29         |
| Q27  | 2.6 (1.2) | 3 (1 – 5)        | 6.9%               | 21.4%           | 0.34     | 2.38     | 0.40         |
| Q28  | 1.9 (1.1) | 1 (1 – 5)        | 4.0%               | 51.1%           | 1.21     | 3.71     | 0.50         |
| Q29  | 1.3 (0.7) | 1 (1 – 5)        | 0.8%               | 82.3%           | 2.87     | 11.94    | 0.51         |
| Q30  | 1.2 (0.6) | 1 (1 – 5)        | 1.0%               | 86.4%           | 3.40     | 15.53    | 0.46         |

Noted: Boldfaced items indicate findings of floor effect or ceiling effect of >80%.
Abbreviations: COVID-PSS, coronavirus disease 2019-public stigma scale; ITC, item-total correlation; SD, standard deviation.
### Table S3 Exploratory Factor Analysis of the 15-Item Prototype COVID-PSS (n=2,002)

| Item | Description of Item | Factor Loadings† | Communality Value |
|------|---------------------|------------------|-------------------|
|      |                     | Factor 1 | Factor 2 | Factor 3 |                     |
| Q1   |                     | 0.66     | 0.01     | -0.17    | 0.40                |
| Q2   |                     | 0.74     | 0.16     | -0.18    | 0.62                |
| Q4   |                     | 0.88     | -0.23    | 0.12     | 0.69                |
| Q5   |                     | 0.79     | -0.07    | 0.11     | 0.64                |
| Q6   |                     | 0.21     | 0.61     | 0.14     | 0.54                |
| Q7   |                     | 0.24     | 0.62     | -0.11    | 0.40                |
| Q8   |                     | 0.17     | 0.08     | 0.66     | 0.55                |
| Q9   |                     | 0.10     | 0.61     | 0.18     | 0.58                |
| Q10  |                     | 0.17     | 0.65     | 0.07     | 0.57                |
| Q11  |                     | -0.14    | 0.91     | 0.02     | 0.73                |
| Q12  |                     | -0.05    | 0.85     | -0.06    | 0.65                |
| Q13  |                     | -0.04    | 0.01     | 0.87     | 0.75                |
| Q14  |                     | -0.05    | 0.10     | 0.79     | 0.67                |
| Q15  |                     | -0.17    | 0.88     | 0.01     | 0.66                |
| Q27  |                     | 0.02     | -0.07    | 0.78     | 0.59                |
|      | Percentage of the variance | 26.2     | 32.5     | 23.3     | Total variance 82.0 |

†The extraction method was principle component analysis, with the rotation method by oblique, promax rotation. Items load on the assigned factor loadings >0.6 are highlighted. Abbreviations: COVID-PSS, coronavirus disease 2019-public stigma scale.
Table S4 Confirmatory Factor Analysis of the Prototype COVID-PSS (n=2,002)

| Factor            | No. of items | Threshold for acceptable fit | Model fit          |
|-------------------|--------------|------------------------------|--------------------|
|                   |              | CFI (>0.9) | TLI (>0.9) | RMSEA (<0.1 [90% CI]) | SRMR (<0.1) | R-Squared (>0.30) |                   |
| Stereotype        | 4 items (Q1, Q2, Q4, Q5) | 0.883 | 0.650 | 0.252 (0.226 – 0.278) | 0.061 | Q1=0.19, otherwise >0.30 | Unacceptable |
|                   | 3 items (Q2, Q4, Q5) | 1.000 | 1.000 | <0.001 (<0.001 – 0.001) | <0.001 | All >0.30 | Acceptable/Good |
| Prejudice         | 7 items (Q6, Q7, Q9, Q10, Q11, Q12, Q15) | 0.944 | 0.916 | 0.108; 0.098 - 0.118 | 0.035 | All >0.30 | Unacceptable |
|                   | 3 items (Q6, Q9, Q10) | 1.000 | 1.000 | <0.001; <0.001 – 0.001 | <0.001 | All >0.30 | Acceptable/Good |
| Fear              | 4 items (Q8, Q13, Q14, Q27) | 0.993 | 0.980 | 0.068; 0.043 – 0.096 | 0.013 | All >0.30 | Acceptable/Good |
| Three-dimensional model | 15 items (Q1, Q2, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q27) | 0.879 | 0.853 | 0.094; 0.091 – 0.097 | 0.065 | Q1=0.22, otherwise >0.30 | Unacceptable |
|                   | 10 items (Q2, Q4, Q5, Q6, Q8, Q9, Q10, Q13, Q14, Q27) | 0.931 | 0.903 | 0.091; 0.084 – 0.098 | 0.054 | All >0.30 | Acceptable |

Abbreviations: CFI, comparative-fit index; CI, confidence interval; COVID-PSS coronavirus disease 2019-public stigma scale; RMSEA, root mean square error of approximation; SRMR, standardized root mean squared residual; TLI, Tucker-Lewis Index.
### Table S5 Results of Nonparametric Item Response Theory Analysis of the Final 10-Item COVI-PSS (n=4,004)

| Item | Subscale: Stereotype | Subscale: Prejudice | Subscale: Fear |
|------|----------------------|---------------------|----------------|
|      | Loevinger’s H Coefficients (H)† | Z-statistics | P-Value | Monotonicity Assumption (Criterion <80) | | Z-statistics | P-Value | Monotonicity Assumption (Criterion <80) | | Z-statistics | P-Value | Monotonicity Assumption (Criterion <80) |
| Item 1: (Q2) | 0.50 | 41.31 | <0.001 | -10 | Item 4: (Q6) | 0.55 | 47.03 | <0.001 | -13 | Item 7: (Q8) | 0.48 | 49.68 | <0.001 | 9 |
| Item 2: (Q4) | 0.59 | 49.71 | <0.001 | -15 | Item 5: (Q9) | 0.56 | 48.84 | <0.001 | -13 | Item 8: (Q13) | 0.61 | 62.71 | <0.001 | 1 |
| Item 3: (Q5) | 0.58 | 48.18 | <0.001 | -14 | Item 6: (Q10) | 0.53 | 45.34 | <0.001 | 34 | Item 9: (Q14) | 0.58 | 58.28 | <0.001 | -14 | Item 10: (Q27) | 0.51 | 52.40 | <0.001 | 3 |

†Loevinger’s H Coefficients indicates that, if $H < 0.3$, the scale has poor scalability properties; $0.3 \leq H < 0.4$, the scale is weak; $0.4 \leq H < 0.5$, the scale is medium; and $H \geq 0.5$, the scale is strong.

Abbreviations: COVID-PSS, coronavirus disease 2019-public stigma scale.
Table S6 Correlation Among the Final 10-Item COVID-PSS Subscales (n=4,004)†

| COVID-PSS Subscales | Mean (SD) | Median (Min-Max) | Correlation (95% CI) |
|---------------------|-----------|------------------|---------------------|
| Stereotype          | 8.2 (3.0) | 8 (3 – 15)       | 1.00                |
| Prejudice           | 5.7 (2.7) | 5 (3 – 15)       | 0.53 (0.51 – 0.55)  |
| Fear                | 10.4 (3.8)| 10 (4 – 20)      | 0.35 (0.32 – 0.38)  |

†Spearman rank correlation test, all P-value <0.001.

Abbreviations: CI, confidence interval; COVID-PSS, coronavirus disease 2019-public stigma scale; SD, standard deviation.
Table S7 Multiple Lineal Regression Analyses Examining Association of the Final 10-Item COVID-PSS with Fear of COVID-19, Perceived Risk of COVID-19 Infection, and Social Distance Scale (n=4,004)†

| COVID-PSS         | Global Fear of COVID-19 | Perceived risk of COVID-19 Infection | Social Distance Scale |
|-------------------|--------------------------|--------------------------------------|-----------------------|
|                   | Coefficient ß (95% CI)   | P-Value | R²                        | Coefficient ß (95% CI) | P-Value | R²                | Coefficient ß (95% CI) | P-Value | R²                |
| Subscale: stereotype | 0.18 (0.16 – 0.20)       | <0.001 | 0.12                     | 0.27 (0.25 – 0.29)    | <0.001 | 0.16             | 0.07 (0.06 – 0.08)     | <0.001 | 0.06             |
| Subscale: prejudice | 0.32 (0.30 – 0.34)       | <0.001 | 0.23                     | 0.47 (0.45 – 0.49)    | <0.001 | 0.33             | 0.18 (0.17 – 0.20)     | <0.001 | 0.20             |
| Subscale: fear     | 0.41 (0.40 – 0.41)       | <0.001 | 0.71                     | 0.52 (0.52 – 0.53)    | <0.001 | 0.84             | 0.17 (0.16 – 0.18)     | <0.001 | 0.36             |
| Summary score      | 0.17 (0.16 – 0.17)       | <0.001 | 0.49                     | 0.23 (0.22 – 0.24)    | <0.001 | 0.65             | 0.08 (0.07 – 0.08)     | <0.001 | 0.29             |

†Adjusted for age, sexuality identity, marital status, education level, religion, occupation, living status, personal income, history of mental illness, history of chronic non-communicable disease, quarantine status.

Abbreviations: CI, confidence interval; COVID-PSS, coronavirus disease 2019-public stigma scale.
### Table S8 Number of Participants with Each COVID-PSS Score and Corresponding to Anchor-Based Questions: Global Fear of COVID-19

| COVID-PSS Score | Participant Total | Global Fear of COVID-19 | Mean (SD) | Median (min-max) | Mode |
|-----------------|-------------------|-------------------------|-----------|------------------|------|
|                 | No/minimal (0-3 Points) | Moderate (4-6 Points) | Severe (7-10 Points) |       |                 |
| 10              | 90                | 26                      | 64        | 0                | 4.2 (1.4) | 4 (2 – 6) | 4     |
| 11              | 55                | 19                      | 29        | 7                | 4.4 (1.5) | 4 (2 – 7) | 4     |
| 12              | 62                | 15                      | 42        | 5                | 4.5 (1.4) | 4 (1 – 7) | 4     |
| 13              | 67                | 11                      | 51        | 5                | 4.6 (1.4) | 5 (1 – 7) | 4     |
| 14              | 94                | 22                      | 66        | 6                | 4.6 (1.6) | 5 (1 – 8) | 4     |
| 15              | 124               | 17                      | 86        | 21               | 5.1 (1.4) | 5 (1 – 8) | 5     |
| 16              | 149               | 18                      | 100       | 31               | 5.2 (1.4) | 5 (1 – 8) | 5     |
| 17              | 161               | 19                      | 113       | 29               | 5.2 (1.4) | 5 (1 – 8) | 5     |
| 18              | 181               | 22                      | 111       | 48               | 5.4 (1.4) | 6 (2 – 9) | 6     |
| 19              | 206               | 5                       | 142       | 59               | 5.9 (1.5) | 6 (3 – 9) | 6     |
| 20              | 196               | 10                      | 123       | 63               | 5.9 (1.4) | 6 (2 – 9) | 6     |
| 21              | 197               | 5                       | 120       | 72               | 6.1 (1.4) | 6 (2 – 10)| 6     |
| 22              | 221               | 3                       | 125       | 93               | 6.3 (1.5) | 6 (2 – 10)| 6     |
| 23              | 177               | 2                       | 98        | 77               | 6.2 (1.3) | 6 (3 – 10)| 7     |
| 24              | 197               | 2                       | 82        | 113              | 6.6 (1.4) | 7 (3 – 10)| 7     |
| 25              | 170               | 2                       | 64        | 104              | 6.9 (1.4) | 7 (3 – 10)| 7     |
| 26              | 160               | 0                       | 47        | 113              | 7.1 (1.4) | 7 (4 – 10)| 7     |
| 27              | 161               | 0                       | 49        | 112              | 7.3 (1.4) | 7 (4 – 10)| 7     |
| 28              | 179               | 1                       | 47        | 131              | 7.2 (1.4) | 7 (3 – 10)| 7     |
| 29              | 188               | 1                       | 43        | 144              | 7.5 (1.4) | 8 (3 – 10)| 8     |
| 30              | 192               | 0                       | 45        | 147              | 7.4 (1.3) | 7 (4 – 10)| 7     |
| 31              | 110               | 0                       | 10        | 100              | 8.0 (1.2) | 8 (4 – 10)| 9     |
| 32              | 107               | 0                       | 10        | 97               | 8.1 (1.3) | 8 (4 – 10)| 8     |
| 33              | 89                | 0                       | 12        | 77               | 8.0 (1.3) | 8 (4 – 10)| 9     |
| 34              | 86                | 0                       | 4         | 82               | 8.4 (1.1) | 8 (6 – 10)| 9     |
| 35              | 57                | 0                       | 3         | 54               | 8.6 (1.1) | 9 (6 – 10)| 9     |
| 36              | 64                | 0                       | 3         | 61               | 8.5 (1.1) | 9 (5 – 10)| 9     |
| 37              | 49                | 0                       | 2         | 47               | 8.6 (1.0) | 9 (6 – 10)| 9     |
| 38              | 45                | 0                       | 0         | 45               | 9.0 (0.8) | 9 (8 – 10)| 9     |
| 39              | 35                | 0                       | 4         | 31               | 8.8 (1.3) | 9 (5 – 10)| 9     |
| 40              | 41                | 0                       | 3         | 38               | 8.9 (1.3) | 9 (4 – 10)| 9     |
| 41              | 21                | 0                       | 0         | 21               | 9.1 (0.8) | 9 (7 – 10)| 9     |
| 42              | 20                | 0                       | 0         | 20               | 8.8 (1.0) | 9 (7 – 10)| 9     |
| 43              | 8                 | 0                       | 0         | 8                | 9.4 (0.5) | 9 (9 – 10)| 9     |
| 44              | 13                | 0                       | 0         | 13               | 9.6 (0.5) | 10 (9 – 10)| 9   |
| 45              | 4                 | 0                       | 0         | 4                | 9.5 (0.6) | 9 (9 – 10)| 9     |
| 46              | 13                | 0                       | 0         | 13               | 9.1 (0.8) | 9 (8 – 10)| 9     |
| 47              | 5                 | 0                       | 0         | 5                | 9.2 (0.4) | 9 (9 – 10)| 9     |
| 48              | 5                 | 0                       | 0         | 5                | 8.6 (0.5) | 9 (8 – 9) | 9     |
| 49              | NA                | NA                      | NA        | NA               | NA      | NA       | NA    |
| 50              | 5                 | 0                       | 0         | 5                | 9.4 (0.5) | 9 (9 – 10)| 9     |

Abbreviations: COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale; NA, not applicable.
Table S8 Number of Participants with Each COVID-PSS Score and Corresponding to Anchor-Based Questions: Perceived Dangerousness to COVID-19 (Continued)

| COVID-PSS Score | Participant Total | Perceived Risk of COVID-19 Infection | Mean (SD) | Median (min-max) | Mode |
|-----------------|-------------------|--------------------------------------|-----------|-----------------|------|
|                 | No/Minimal (0-3 Points) | Moderate (4-6 Points) | Severe (7-10 Points) |
| 10              | 90                | 0                                   | 0         | 2 (NA)          | 2 (2 – 2) |
| 11              | 55                | 0                                   | 0         | 2.2 (0.4)       | 2 (2 – 3) |
| 12              | 62                | 4                                   | 0         | 2.4 (0.6)       | 2 (2 – 4) |
| 13              | 67                | 48                                  | 19        | 3.0 (0.9)       | 3 (2 – 5) |
| 14              | 94                | 65                                  | 29        | 3.0 (1.0)       | 3 (2 – 6) |
| 15              | 124               | 66                                  | 57        | 3.5 (1.1)       | 3 (2 – 7) |
| 16              | 149               | 78                                  | 68        | 3.5 (1.2)       | 3 (2 – 8) |
| 17              | 161               | 69                                  | 92        | 3.7 (1.2)       | 4 (2 – 6) |
| 18              | 181               | 55                                  | 116       | 4.1 (1.4)       | 4 (2 – 10) |
| 19              | 206               | 48                                  | 146       | 4.3 (1.3)       | 4 (2 – 7) |
| 20              | 196               | 36                                  | 143       | 4.6 (1.4)       | 4 (2 – 10) |
| 21              | 197               | 22                                  | 155       | 4.9 (1.3)       | 5 (2 – 9) |
| 22              | 221               | 23                                  | 172       | 5.0 (1.4)       | 5 (2 – 10) |
| 23              | 177               | 9                                   | 130       | 5.5 (1.5)       | 5 (2 – 10) |
| 24              | 197               | 16                                  | 140       | 5.5 (1.6)       | 5 (2 – 10) |
| 25              | 170               | 17                                  | 104       | 5.6 (1.6)       | 6 (2 – 10) |
| 26              | 160               | 5                                   | 95        | 6.1 (1.4)       | 6 (2 – 10) |
| 27              | 161               | 2                                   | 86        | 6.4 (1.4)       | 6 (2 – 10) |
| 28              | 179               | 0                                   | 100       | 6.4 (1.4)       | 6 (4 – 10) |
| 29              | 188               | 2                                   | 80        | 6.8 (1.4)       | 7 (3 – 10) |
| 30              | 192               | 1                                   | 112       | 6.5 (1.1)       | 6 (3 – 10) |
| 31              | 110               | 0                                   | 41        | 7.0 (1.3)       | 7 (4 – 10) |
| 32              | 107               | 0                                   | 29        | 7.4 (1.4)       | 7 (4 – 10) |
| 33              | 89                | 2                                   | 31        | 7.1 (1.6)       | 7 (3 – 10) |
| 34              | 86                | 0                                   | 25        | 7.6 (1.4)       | 8 (5 – 10) |
| 35              | 57                | 0                                   | 6         | 8.1 (1.3)       | 8 (5 – 10) |
| 36              | 64                | 0                                   | 9         | 8.2 (1.3)       | 8 (5 – 10) |
| 37              | 49                | 0                                   | 4         | 8.3 (1.2)       | 8 (5 – 10) |
| 38              | 45                | 0                                   | 2         | 8.7 (1.2)       | 8 (6 – 10) |
| 39              | 35                | 0                                   | 0         | 9.1 (0.9)       | 9 (7 – 10) |
| 40              | 41                | 0                                   | 1         | 8.7 (1.1)       | 9 (6 – 10) |
| 41              | 21                | 0                                   | 0         | 9.2 (1.0)       | 10 (7 – 10) |
| 42              | 20                | 0                                   | 0         | 9.4 (0.9)       | 10 (8 – 10) |
| 43              | 8                 | 0                                   | 0         | 9.6 (0.5)       | 10 (9 – 10) |
| 44              | 13                | 0                                   | 0         | 9.8 (0.6)       | 10 (8 – 10) |
| 45              | 4                 | 0                                   | 0         | 10 (NA)         | 10 (10 – 10) |
| 46              | 13                | 0                                   | 1         | 9.4 (1.3)       | 10 (6 – 10) |
| 47              | 5                 | 0                                   | 0         | 9.2 (1.1)       | 10 (8 – 10) |
| 48              | 5                 | 0                                   | 0         | 9.6 (0.5)       | 10 (9 – 10) |
| 49              | NA                | NA                                  | NA        | NA              | NA |
| 50              | 5                 | 0                                   | 0         | 10 (NA)         | 10 (10 – 10) |

Abbreviations: COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale; NA, not applicable.
### Table S8  Number of Participants with Each COVID-PSS Score and Corresponding to Anchor-Based Questions: Social Distance Scale (Continued)

| COVID-PSS Score | Participant Total | Social Distance Scale | No/Low (1 Points) Mean (SD) | Moderate (2-3 Points) Mean (SD) | High (4-7 Points) Mean (SD) | Median (min-max) | Mode |
|-----------------|-------------------|-----------------------|-----------------------------|---------------------------------|-----------------------------|-----------------|------|
|                 |                   |                       | No/low                       | Moderate                        | High                         |                 |      |
| 10              | 90                | 44                    | 45                           | 1                               | 1.7 (0.8)                    | 2 (1 – 4)       | 1    |
| 11              | 55                | 17                    | 37                           | 1                               | 1.9 (0.7)                    | 2 (1 – 4)       | 2    |
| 12              | 62                | 21                    | 38                           | 3                               | 1.8 (0.7)                    | 2 (1 – 4)       | 2    |
| 13              | 67                | 16                    | 47                           | 4                               | 2.0 (0.8)                    | 2 (1 – 5)       | 2    |
| 14              | 94                | 23                    | 64                           | 7                               | 2.0 (0.8)                    | 2 (1 – 4)       | 2    |
| 15              | 124               | 19                    | 99                           | 6                               | 2.1 (0.7)                    | 2 (1 – 4)       | 2    |
| 16              | 149               | 27                    | 116                          | 6                               | 2.1 (0.7)                    | 2 (1 – 4)       | 2    |
| 17              | 161               | 31                    | 122                          | 8                               | 2.1 (0.8)                    | 2 (1 – 4)       | 2    |
| 18              | 181               | 24                    | 139                          | 18                              | 2.3 (0.8)                    | 2 (1 – 5)       | 2    |
| 19              | 206               | 10                    | 172                          | 24                              | 2.5 (0.8)                    | 2 (1 – 5)       | 2    |
| 20              | 196               | 15                    | 163                          | 18                              | 2.4 (0.8)                    | 2 (1 – 5)       | 2    |
| 21              | 197               | 15                    | 148                          | 34                              | 2.6 (0.9)                    | 3 (1 – 6)       | 2    |
| 22              | 221               | 15                    | 158                          | 48                              | 2.7 (0.9)                    | 3 (1 – 5)       | 2    |
| 23              | 177               | 20                    | 121                          | 36                              | 2.6 (1.0)                    | 2 (1 – 5)       | 2    |
| 24              | 197               | 8                     | 134                          | 55                              | 2.8 (0.9)                    | 3 (1 – 5)       | 2    |
| 25              | 170               | 2                     | 128                          | 40                              | 2.9 (0.9)                    | 3 (1 – 6)       | 2    |
| 26              | 160               | 4                     | 107                          | 49                              | 3.0 (0.9)                    | 3 (1 – 5)       | 3    |
| 27              | 161               | 3                     | 99                           | 59                              | 3.0 (0.9)                    | 3 (1 – 5)       | 4    |
| 28              | 179               | 6                     | 111                          | 62                              | 3.0 (1.0)                    | 3 (1 – 7)       | 2    |
| 29              | 188               | 5                     | 127                          | 56                              | 3.0 (1.0)                    | 3 (1 – 7)       | 3    |
| 30              | 192               | 4                     | 77                           | 111                             | 3.4 (1.0)                    | 4 (1 – 6)       | 4    |
| 31              | 110               | 4                     | 59                           | 47                              | 3.2 (1.1)                    | 3 (1 – 6)       | 3    |
| 32              | 107               | 2                     | 47                           | 58                              | 3.6 (1.1)                    | 4 (1 – 6)       | 4    |
| 33              | 89                | 0                     | 49                           | 40                              | 3.4 (1.1)                    | 3 (2 – 7)       | 3/2  |
| 34              | 86                | 5                     | 44                           | 37                              | 3.3 (1.2)                    | 3 (1 – 6)       | 3    |
| 35              | 57                | 0                     | 25                           | 32                              | 3.6 (1.1)                    | 4 (2 – 6)       | 4    |
| 36              | 64                | 1                     | 32                           | 31                              | 3.3 (0.8)                    | 3 (1 – 5)       | 4    |
| 37              | 49                | 0                     | 24                           | 25                              | 3.6 (1.0)                    | 4 (2 – 6)       | 3/4  |
| 38              | 45                | 0                     | 13                           | 32                              | 4.0 (1.1)                    | 4 (2 – 6)       | 4    |
| 39              | 35                | 0                     | 11                           | 24                              | 3.8 (0.9)                    | 4 (2 – 6)       | 4    |
| 40              | 41                | 1                     | 18                           | 22                              | 3.8 (1.3)                    | 4 (1 – 6)       | 3    |
| 41              | 21                | 0                     | 4                            | 17                              | 4.2 (1.1)                    | 4 (2 – 7)       | 4    |
| 42              | 20                | 1                     | 8                            | 11                              | 3.8 (1.3)                    | 4 (1 – 7)       | 3    |
| 43              | 8                 | 0                     | 1                            | 3                               | 4.2 (0.7)                    | 4 (3 – 5)       | 4    |
| 44              | 13                | 0                     | 0                            | 13                              | 5.1 (0.9)                    | 5 (4 – 7)       | 5    |
| 45              | 4                 | 0                     | 0                            | 4                               | 5.0 (NA)                     | 5 (3 – 5)       | 5    |
| 46              | 13                | 0                     | 2                            | 11                              | 4.6 (1.0)                    | 5 (3 – 6)       | 4/5  |
| 47              | 5                 | 0                     | 3                            | 2                               | 3.6 (0.9)                    | 3 (3 – 5)       | 3    |
| 48              | 5                 | 0                     | 0                            | 5                               | 5.0 (NA)                     | 5 (5 – 5)       | 5    |
| 49              | NA                | NA                    | NA                           | NA                              | NA                           | NA              | NA   |
| 50              | 5                 | 0                     | 0                            | 5                               | 5.6 (0.9)                    | 6 (5 – 6)       | 6    |

**Abbreviations:** COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale; NA, not applicable.
Table S9 Proposed Sets of COVID-PSS Severity Bands

| Possible COVID-PSS Bandings† | Cutoff Scores | Kappa Coefficient of Agreement with the Anchor-Based Questions (95% CI) | Perceived Risk of COVID-19 Infection | Social Distance Scale |
|------------------------------|---------------|-----------------------------------------------------------------|-------------------------------------|----------------------|
|                              | No/minimal    | Moderate ≥26 | Global Fear of COVID-19 |                             |                       |
| Set A                        | ≤14           | 15-25        | 0.40 (0.37 – 0.42)       | 0.45 (0.42 – 0.47)        | 0.28 (0.25 – 0.30)   |
| Set B                        | ≤14           | 15-26        | 0.37 (0.35 – 0.39)       | 0.46 (0.43 – 0.48)        | 0.29 (0.26 – 0.31)   |
| Set C                        | ≤14           | 15-27        | 0.35 (0.32 – 0.37)       | 0.46 (0.43 – 0.48)        | 0.28 (0.26 – 0.31)   |
| Set D                        | ≤14           | 15-28        | 0.32 (0.29 – 0.34)       | 0.46 (0.43 – 0.48)        | 0.28 (0.26 – 0.31)   |
| Set E                        | ≤14           | 15-29        | 0.28 (0.26 – 0.30)       | 0.44 (0.41 – 0.46)        | 0.29 (0.26 – 0.32)   |
| Set F                        | ≤15           | 16-25        | 0.38 (0.36 – 0.40)       | 0.46 (0.44 – 0.48)        | 0.27 (0.24 – 0.29)   |
| Set G                        | ≤15           | 16-26        | 0.35 (0.33 – 0.38)       | 0.47 (0.44 – 0.49)        | 0.27 (0.24 – 0.30)   |
| Set H                        | ≤15           | 16-27        | 0.33 (0.31 – 0.35)       | 0.47 (0.44 – 0.49)        | 0.27 (0.24 – 0.30)   |
| Set I                        | ≤15           | 16-28        | 0.30 (0.28 – 0.32)       | 0.47 (0.44 – 0.49)        | 0.27 (0.24 – 0.30)   |
| Set J                        | ≤15           | 16-29        | 0.26 (0.24 – 0.29)       | 0.45 (0.42 – 0.48)        | 0.28 (0.25 – 0.31)   |
| Set K                        | ≤16           | 17-25        | 0.36 (0.34 – 0.38)       | 0.47 (0.45 – 0.50)        | 0.25 (0.23 – 0.28)   |
| Set L                        | ≤16           | 17-26        | 0.34 (0.31 – 0.36)       | 0.48 (0.46 – 0.51)        | 0.26 (0.23 – 0.28)   |
| Set M                        | ≤16           | 17-27        | 0.31 (0.29 – 0.34)       | 0.48 (0.46 – 0.51)        | 0.26 (0.23 – 0.28)   |
| Set N                        | ≤16           | 17-28        | 0.28 (0.26 – 0.31)       | 0.48 (0.46 – 0.51)        | 0.26 (0.23 – 0.28)   |
| Set O                        | ≤16           | 17-29        | 0.25 (0.23 – 0.27)       | 0.46 (0.44 – 0.49)        | 0.27 (0.24 – 0.29)   |
| Set P                        | ≤17           | 18-25        | 0.34 (0.31 – 0.36)       | 0.48 (0.45 – 0.50)        | 0.25 (0.22 – 0.27)   |
| Set Q                        | ≤17           | 19-26        | 0.31 (0.29 – 0.34)       | 0.48 (0.46 – 0.51)        | 0.25 (0.22 – 0.27)   |
| Set R                        | ≤17           | 19-27        | 0.29 (0.27 – 0.31)       | 0.48 (0.46 – 0.51)        | 0.25 (0.22 – 0.27)   |
| Set S                        | ≤17           | 19-28        | 0.26 (0.24 – 0.29)       | 0.48 (0.46 – 0.51)        | 0.25 (0.22 – 0.27)   |
| Set T                        | ≤17           | 19-29        | 0.23 (0.21 – 0.25)       | 0.46 (0.44 – 0.49)        | 0.25 (0.23 – 0.28)   |
| **Set U**                    | **≤18**       | **19-25**    | **0.32 (0.30 – 0.34)**   | **0.46 (0.44 – 0.49)**    | **0.23 (0.21 – 0.25)** |
| Set V                        | ≤18           | 19-26        | 0.30 (0.27 – 0.32)       | 0.47 (0.45 – 0.49)        | 0.23 (0.21 – 0.26)   |
| Set W                        | ≤18           | 19-27        | 0.28 (0.25 – 0.30)       | 0.47 (0.45 – 0.50)        | 0.23 (0.21 – 0.26)   |
| Set X                        | ≤18           | 19-28        | 0.25 (0.23 – 0.27)       | 0.47 (0.45 – 0.50)        | 0.23 (0.20 – 0.25)   |
| Set Y                        | ≤18           | 19-29        | 0.22 (0.19 – 0.24)       | 0.45 (0.43 – 0.48)        | 0.24 (0.21 – 0.26)   |

†The final COVID-PSS severity band is highlighted.

Abbreviations: CI, confidence intervals; COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale.
| Possible COVID-PSS Bandings† | Cutoff Scores | Impact on Global Fear of COVID-19: AuROC (95% CI) |
|-----------------------------|---------------|-----------------------------------------------|
|                            | No/minimal    | Moderate (0-3 Points) | High (4-6 Points)  | Severe (7-10 Points) |
| Set A                      | ≤14           | 15-25              | ≥26               | 0.70 (0.66 – 0.73)  | 0.67 (0.65 – 0.68)  | 0.75 (0.74 – 0.76)  |
| Set B                      | ≤14           | 15-26              | ≥27               | 0.70 (0.66 – 0.73)  | 0.66 (0.64 – 0.67)  | 0.74 (0.72 – 0.75)  |
| Set C                      | ≤14           | 15-27              | ≥28               | 0.70 (0.66 – 0.73)  | 0.65 (0.63 – 0.66)  | 0.72 (0.71 – 0.74)  |
| Set D                      | ≤14           | 15-28              | ≥29               | 0.70 (0.66 – 0.73)  | 0.63 (0.62 – 0.64)  | 0.70 (0.69 – 0.72)  |
| Set E                      | ≤14           | 15-29              | ≥30               | 0.70 (0.66 – 0.73)  | 0.61 (0.60 – 0.63)  | 0.68 (0.67 – 0.69)  |
| Set F                      | ≤15           | 16-25              | ≥26               | 0.72 (0.69 – 0.76)  | 0.65 (0.63 – 0.66)  | 0.75 (0.74 – 0.76)  |
| Set G                      | ≤15           | 16-26              | ≥27               | 0.72 (0.69 – 0.76)  | 0.64 (0.62 – 0.65)  | 0.74 (0.72 – 0.75)  |
| Set H                      | ≤15           | 16-27              | ≥28               | 0.72 (0.69 – 0.76)  | 0.63 (0.61 – 0.64)  | 0.72 (0.71 – 0.74)  |
| Set I                      | ≤15           | 16-28              | ≥29               | 0.72 (0.69 – 0.76)  | 0.61 (0.60 – 0.63)  | 0.70 (0.69 – 0.72)  |
| Set J                      | ≤15           | 16-29              | ≥30               | 0.72 (0.69 – 0.76)  | 0.59 (0.58 – 0.61)  | 0.68 (0.67 – 0.69)  |
| Set K                      | ≤16           | 17-25              | ≥26               | 0.75 (0.72 – 0.79)  | 0.63 (0.62 – 0.65)  | 0.75 (0.74 – 0.76)  |
| Set L                      | ≤16           | 17-26              | ≥27               | 0.75 (0.72 – 0.79)  | 0.62 (0.60 – 0.63)  | 0.74 (0.72 – 0.75)  |
| Set M                      | ≤16           | 17-27              | ≥28               | 0.75 (0.72 – 0.79)  | 0.61 (0.59 – 0.62)  | 0.72 (0.71 – 0.74)  |
| Set N                      | ≤16           | 17-28              | ≥29               | 0.75 (0.72 – 0.79)  | 0.59 (0.58 – 0.61)  | 0.70 (0.69 – 0.72)  |
| Set O                      | ≤16           | 17-29              | ≥30               | 0.75 (0.72 – 0.79)  | 0.58 (0.56 – 0.59)  | 0.68 (0.67 – 0.69)  |
| Set P                      | ≤17           | 18-25              | ≥26               | 0.78 (0.75 – 0.81)  | 0.61 (0.59 – 0.62)  | 0.75 (0.74 – 0.76)  |
| Set Q                      | ≤17           | 19-26              | ≥27               | 0.78 (0.75 – 0.81)  | 0.60 (0.58 – 0.61)  | 0.74 (0.72 – 0.75)  |
| Set R                      | ≤17           | 19-27              | ≥28               | 0.78 (0.75 – 0.81)  | 0.59 (0.57 – 0.60)  | 0.72 (0.71 – 0.74)  |
| Set S                      | ≤17           | 19-28              | ≥29               | 0.78 (0.75 – 0.81)  | 0.57 (0.56 – 0.59)  | 0.70 (0.69 – 0.72)  |
| Set T                      | ≤17           | 19-29              | ≥30               | 0.78 (0.75 – 0.81)  | 0.55 (0.54 – 0.57)  | 0.68 (0.67 – 0.69)  |
| **Set U**                  | **≤18**       | **19-25**          | **≥26**           | **0.82 (0.79 – 0.84)** | **0.59 (0.57 – 0.60)** | **0.75 (0.74 – 0.76)** |
| Set V                      | ≤18           | 19-26              | ≥27               | 0.82 (0.79 – 0.84)  | 0.58 (0.56 – 0.59)  | 0.74 (0.72 – 0.75)  |
| Set W                      | ≤18           | 19-27              | ≥28               | 0.82 (0.79 – 0.84)  | 0.57 (0.55 – 0.58)  | 0.72 (0.71 – 0.74)  |
| Set X                      | ≤18           | 19-28              | ≥29               | 0.82 (0.79 – 0.84)  | 0.55 (0.54 – 0.57)  | 0.70 (0.69 – 0.72)  |
| Set Y                      | ≤18           | 19-29              | ≥30               | 0.82 (0.79 – 0.84)  | 0.54 (0.52 – 0.55)  | 0.68 (0.67 – 0.69)  |

†The final COVID-PSS severity band is highlighted.

Abbreviations: AuROC, area under receiver operating characteristic curve; CIs, confidence intervals; COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale.
| Possible COVID-PSS Bandings† | Cutoff Scores | Impact on Perceived Risk of COVID-19 Infection: AuROC (95% CI) |
|-----------------------------|---------------|-------------------------------------------------------------|
|                             | No/minimal    | Moderate (0-3 Points) | High (4-6 Points) | Severe (7-10 Points) |
| Set A ≤14                   | 15-25         | ≥26 0.70 (0.68 – 0.72) | 0.67 (0.65 – 0.68) | 0.80 (0.78 – 0.81) |
|                             | 15-26         | ≥27 0.70 (0.68 – 0.72) | 0.68 (0.66 – 0.69) | 0.80 (0.78 – 0.81) |
|                             | 15-27         | ≥28 0.70 (0.68 – 0.72) | 0.68 (0.66 – 0.69) | 0.78 (0.76 – 0.79) |
|                             | 15-28         | ≥29 0.70 (0.68 – 0.72) | 0.68 (0.67 – 0.70) | 0.76 (0.75 – 0.78) |
|                             | 15-29         | ≥30 0.70 (0.68 – 0.72) | 0.68 (0.66 – 0.69) | 0.74 (0.72 – 0.75) |
|                             | 16-25         | ≥26 0.73 (0.71 – 0.75) | 0.67 (0.66 – 0.68) | 0.79 (0.78 – 0.81) |
|                             | 16-26         | ≥27 0.73 (0.71 – 0.75) | 0.68 (0.66 – 0.69) | 0.79 (0.78 – 0.81) |
|                             | 16-27         | ≥28 0.73 (0.71 – 0.75) | 0.68 (0.67 – 0.70) | 0.78 (0.76 – 0.79) |
|                             | 16-28         | ≥29 0.73 (0.71 – 0.75) | 0.69 (0.67 – 0.70) | 0.76 (0.75 – 0.78) |
|                             | 16-29         | ≥30 0.73 (0.71 – 0.75) | 0.68 (0.67 – 0.69) | 0.74 (0.72 – 0.75) |
| Set B ≤14                   | 17-25         | ≥26 0.77 (0.75 – 0.79) | 0.67 (0.66 – 0.69) | 0.80 (0.78 – 0.81) |
|                             | 17-26         | ≥27 0.77 (0.75 – 0.79) | 0.68 (0.67 – 0.70) | 0.79 (0.78 – 0.81) |
|                             | 17-27         | ≥28 0.77 (0.75 – 0.79) | 0.68 (0.67 – 0.70) | 0.78 (0.76 – 0.79) |
|                             | 17-28         | ≥29 0.77 (0.75 – 0.79) | 0.69 (0.67 – 0.70) | 0.76 (0.75 – 0.78) |
|                             | 17-29         | ≥30 0.77 (0.75 – 0.79) | 0.68 (0.67 – 0.70) | 0.74 (0.72 – 0.75) |
| Set C ≤14                   | 18-25         | ≥26 0.80 (0.79 – 0.82) | 0.67 (0.65 – 0.68) | 0.80 (0.78 – 0.81) |
|                             | 18-26         | ≥27 0.80 (0.78 – 0.82) | 0.68 (0.66 – 0.69) | 0.79 (0.78 – 0.81) |
|                             | 18-27         | ≥28 0.80 (0.79 – 0.82) | 0.68 (0.66 – 0.69) | 0.78 (0.76 – 0.79) |
|                             | 18-28         | ≥29 0.80 (0.79 – 0.82) | 0.68 (0.67 – 0.70) | 0.76 (0.75 – 0.78) |
|                             | 18-29         | ≥30 0.80 (0.79 – 0.82) | 0.68 (0.66 – 0.69) | 0.74 (0.72 – 0.75) |
| Set D ≤14                   | 19-25         | ≥26 0.82 (0.80 – 0.84) | 0.65 (0.64 – 0.67) | 0.80 (0.78 – 0.81) |
|                             | 19-26         | ≥27 0.82 (0.80 – 0.84) | 0.66 (0.65 – 0.68) | 0.79 (0.78 – 0.81) |
|                             | 19-27         | ≥28 0.82 (0.80 – 0.84) | 0.67 (0.65 – 0.68) | 0.78 (0.76 – 0.79) |
|                             | 19-28         | ≥29 0.82 (0.80 – 0.84) | 0.67 (0.66 – 0.69) | 0.76 (0.75 – 0.78) |
|                             | 19-29         | ≥30 0.82 (0.80 – 0.84) | 0.66 (0.65 – 0.68) | 0.74 (0.72 – 0.75) |
| Set E ≤14                   | 20-25         | ≥26 0.84 (0.82 – 0.84) | 0.64 (0.63 – 0.67) | 0.81 (0.79 – 0.82) |
|                             | 20-26         | ≥27 0.84 (0.82 – 0.84) | 0.66 (0.65 – 0.68) | 0.80 (0.78 – 0.81) |
|                             | 20-27         | ≥28 0.84 (0.82 – 0.84) | 0.67 (0.65 – 0.68) | 0.79 (0.78 – 0.81) |
|                             | 20-28         | ≥29 0.84 (0.82 – 0.84) | 0.67 (0.66 – 0.69) | 0.78 (0.76 – 0.79) |
|                             | 20-29         | ≥30 0.84 (0.82 – 0.84) | 0.66 (0.65 – 0.68) | 0.76 (0.75 – 0.78) |

†The final COVID-PSS severity band is highlighted.

Abbreviations: AuROC, area under receiver operating characteristic curve; CIs, confidence intervals; COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale.

Nochaiwong S, et al. BMJ Open 2022; 11:e048241. doi: 10.1136/bmjopen-2020-048241
### Table S10 Possible Set of COVID-PSS Scores and Interpretation Using Participant-Based Anchors (Continued)

| Possible COVID-PSS Bandings† | Cutoff Scores | Impact on Social Distance Scale: AuROC (95% CI) |
|-----------------------------|--------------|-----------------------------------------------|
|                            | No/minimal   | Moderate (2-3 Points) | High (4-7 Points) |
| Set A                       | ≤14          | 15-25 ≥26             | 0.57 (0.56 – 0.58) | 0.44 (0.42 – 0.45) | 0.75 (0.73 – 0.78) |
| Set B                       | ≤14          | 15-26 ≥27             | 0.58 (0.56 – 0.58) | 0.45 (0.43 – 0.47) | 0.75 (0.73 – 0.78) |
| Set C                       | ≤14          | 15-27 ≥28             | 0.57 (0.56 – 0.58) | 0.46 (0.45 – 0.48) | 0.77 (0.74 – 0.79) |
| Set D                       | ≤14          | 15-28 ≥29             | 0.57 (0.56 – 0.58) | 0.47 (0.46 – 0.49) | 0.77 (0.74 – 0.79) |
| Set E                       | ≤14          | 15-29 ≥30             | 0.57 (0.56 – 0.58) | 0.48 (0.47 – 0.50) | 0.76 (0.74 – 0.79) |
| Set F                       | ≤15          | 16-25 ≥26             | 0.59 (0.58 – 0.60) | 0.45 (0.44 – 0.47) | 0.75 (0.73 – 0.78) |
| Set G                       | ≤15          | 16-26 ≥27             | 0.59 (0.58 – 0.60) | 0.46 (0.45 – 0.48) | 0.75 (0.73 – 0.78) |
| Set H                       | ≤15          | 16-27 ≥28             | 0.59 (0.58 – 0.60) | 0.48 (0.46 – 0.49) | 0.77 (0.74 – 0.79) |
| Set I                       | ≤15          | 16-28 ≥29             | 0.59 (0.58 – 0.60) | 0.49 (0.47 – 0.50) | 0.77 (0.74 – 0.79) |
| Set J                       | ≤15          | 16-29 ≥30             | 0.59 (0.58 – 0.60) | 0.50 (0.48 – 0.51) | 0.76 (0.74 – 0.79) |
| Set K                       | ≤16          | 17-25 ≥26             | 0.61 (0.59 – 0.62) | 0.47 (0.45 – 0.48) | 0.75 (0.73 – 0.78) |
| Set L                       | ≤16          | 17-26 ≥27             | 0.61 (0.59 – 0.62) | 0.48 (0.46 – 0.50) | 0.75 (0.73 – 0.78) |
| Set M                       | ≤16          | 17-27 ≥28             | 0.61 (0.59 – 0.62) | 0.49 (0.48 – 0.51) | 0.77 (0.74 – 0.79) |
| Set N                       | ≤16          | 17-28 ≥29             | 0.61 (0.59 – 0.62) | 0.50 (0.49 – 0.52) | 0.77 (0.74 – 0.79) |
| Set O                       | ≤16          | 17-29 ≥30             | 0.61 (0.59 – 0.62) | 0.51 (0.50 – 0.53) | 0.76 (0.74 – 0.79) |
| Set P                       | ≤17          | 18-25 ≥26             | 0.63 (0.62 – 0.64) | 0.49 (0.47 – 0.50) | 0.75 (0.73 – 0.78) |
| Set Q                       | ≤17          | 19-26 ≥27             | 0.63 (0.62 – 0.64) | 0.50 (0.48 – 0.51) | 0.75 (0.73 – 0.78) |
| Set R                       | ≤17          | 19-27 ≥28             | 0.63 (0.62 – 0.64) | 0.51 (0.50 – 0.53) | 0.77 (0.74 – 0.79) |
| Set S                       | ≤17          | 19-28 ≥29             | 0.63 (0.62 – 0.64) | 0.52 (0.51 – 0.54) | 0.77 (0.74 – 0.79) |
| Set T                       | ≤17          | 19-29 ≥30             | 0.63 (0.62 – 0.64) | 0.53 (0.52 – 0.55) | 0.76 (0.74 – 0.79) |
| **Set U**                   | ≤18          | 19-25 ≥26             | 0.65 (0.64 – 0.66) | 0.50 (0.49 – 0.52) | 0.75 (0.73 – 0.78) |
| Set V                       | ≤18          | 19-26 ≥27             | 0.65 (0.64 – 0.66) | 0.51 (0.50 – 0.53) | 0.75 (0.73 – 0.77) |
| Set W                       | ≤18          | 19-27 ≥28             | 0.65 (0.64 – 0.66) | 0.53 (0.51 – 0.54) | 0.77 (0.74 – 0.79) |
| Set X                       | ≤18          | 19-28 ≥29             | 0.65 (0.64 – 0.66) | 0.54 (0.52 – 0.55) | 0.77 (0.74 – 0.79) |
| Set Y                       | ≤18          | 19-29 ≥30             | 0.65 (0.64 – 0.66) | 0.54 (0.53 – 0.56) | 0.76 (0.74 – 0.79) |

†The final COVID-PSS severity band is highlighted.

Abbreviations: AuROC, area under receiver operating characteristic curve; CIs, confidence intervals; COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale.
### Table S11 Effect of covariates on the final set of the 10-item COVID-PSS cut-off scores: Global Fear of COVID-19

| Variables                        | No/minimal-stigma towards COVID-19 infection (18 points or lower) | Moderate (4-6 Points) | Severe (7-10 Points) |
|----------------------------------|---------------------------------------------------------------|-----------------------|----------------------|
|                                  | Coefficient (95% CI)                                    | P Value               | Coefficient (95% CI) | P Value               |
| Age                              | -0.05 (-0.07 to -0.03)                           | <0.001                | -0.00 (-0.01 to 0.00) | 0.261                |
| Sex                              | -0.17 (-0.42 to 0.08)                           | 0.183                 | 0.12 (0.08 to 0.16)  | <0.001               |
| Marital status                   | -0.35 (-0.76 to 0.06)                           | 0.091                 | -0.05 (-0.12 to 0.01)| 0.089                |
| Education level                  | -0.34 (-0.69 to 0.01)                           | 0.055                 | 0.04 (-0.01 to 0.09)| 0.101                |
| Religion                         | 0.12 (0.27 to 0.50)                            | 0.553                 | 0.09 (0.02 to 0.16)  | 0.015                |
| Occupation                       | 0.09 (-0.18 to 0.35)                            | 0.518                 | 0.01 (-0.04 to 0.05)| 0.814                |
| Living status                    | -0.06 (-0.26 to 0.14)                           | 0.558                 | 0.02 (-0.01 to 0.05)| 0.242                |
| Personal income, Baht/month      | 0.06 (-0.17 to 0.30)                            | 0.603                 | -0.01 (-0.06 to 0.03)| 0.481                |
| History of mental illness        | -0.02 (-0.42 to 0.38)                           | 0.928                 | 0.04 (-0.04 to 0.12)| 0.336                |
| History of chronic NCD           | 0.79 (0.29 to 1.29)                            | 0.002                 | -0.00 (-0.07 to 0.07)| 0.988                |
| Quarantine status                | -0.23 (-0.44 to -0.02)                           | 0.030                 | -0.07 (-0.11 to -0.04)| <0.001               |

- **Moderate-stigma towards COVID-19 infection (19-25 points)**

| Variables                        | Coefficient (95% CI)                                    | P Value               |
|----------------------------------|---------------------------------------------------------------|-----------------------|
| Age                              | 0.05 (0.02 to 0.07)                              | <0.001                |
| Sex                              | 0.17 (-0.08 to 0.42)                              | 0.173                 |
| Marital status                   | 0.35 (-0.06 to 0.76)                              | 0.092                 |
| Education level                  | 0.30 (-0.04 to 0.65)                              | 0.088                 |
| Religion                         | -0.08 (-0.47 to 0.30)                             | 0.678                 |
| Occupation                       | -0.05 (-0.31 to 0.22)                             | 0.727                 |
| Living status                    | 0.07 (-0.12 to 0.27)                              | 0.466                 |
| Personal income, Baht/month      | -0.04 (-0.27 to 0.19)                             | 0.733                 |
| History of mental illness        | 0.03 (-0.37 to 0.43)                              | 0.897                 |
| History of chronic NCD           | -0.74 (-1.24 to -0.24)                            | 0.004                 |
| Quarantine status                | 0.26 (0.05 to 0.47)                               | 0.013                 |

- **High-stigma towards COVID-19 infection (26 points or higher)**

| Variables                        | Coefficient (95% CI)                                    | P Value               |
|----------------------------------|---------------------------------------------------------------|-----------------------|
| Age                              | 0.01 (-0.01 to 0.03)                              | 0.426                 |
| Sex                              | -0.00 (-0.25 to 0.25)                              | 0.994                 |
| Marital status                   | 0.03 (-0.38 to 0.43)                              | 0.900                 |
| Education level                  | 0.15 (-0.20 to 0.49)                              | 0.410                 |
| Religion                         | -0.12 (-0.51 to 0.26)                             | 0.540                 |
| Occupation                       | -0.13 (-0.40 to 0.13)                             | 0.319                 |
| Living status                    | -0.04 (-0.24 to 0.15)                             | 0.673                 |
| Personal income, Baht/month      | -0.07 (-0.31 to 0.16)                             | 0.543                 |
| History of mental illness        | -0.02 (-0.42 to 0.38)                             | 0.904                 |
| History of chronic NCD           | -0.22 (-0.71 to 0.27)                             | 0.383                 |
| Quarantine status                | -0.09 (-0.30 to 0.12)                             | 0.395                 |

1To includes diabetes mellitus, hypertension, dyslipidemia, stroke and heart disease, chronic kidney disease, chronic lung disease, and cancer.

Abbreviations: CI, confidence interval; COVID-19, coronavirus disease-2019; COVID-PSS, coronavirus disease-2019-public stigma scale; NCD, non-communicable diseases.
Table S11 Effect of covariates on the final set of the 10-item COVID-PSS cut-off scores: Perceived Risk of COVID-19 Infection (Continued)

| Variables                        | No/minimal (0-3 Points) | Moderate (4-6 Points) | Severe (7-10 Points) |
|----------------------------------|-------------------------|-----------------------|----------------------|
|                                  | Coefficient (95% CI)    | P Value               | Coefficient (95% CI) | P Value       |
| No/minimal-stigma towards COVID-19 infection (18 points or lower) |                         |                       |                       |               |
| Age                              | -0.02 (-0.03 to -0.01) | 0.001                 | -0.01 (-0.02 to -0.00) | 0.003         |
|                                  |                         |                       |                       |               |
| Sexual identity                  | 0.01 (-0.12 to 0.15)   | 0.837                 | 0.17 (0.08 to 0.26)   | <0.001        |
|                                  |                         |                       |                       |               |
| Marital status                   | -0.18 (-0.37 to 0.01)  | 0.061                 | -0.08 (-0.21 to 0.06) | 0.261         |
|                                  |                         |                       |                       |               |
| Education level                  | 0.12 (-0.03 to 0.27)   | 0.110                 | -0.02 (-0.12 to 0.08) | 0.693         |
|                                  |                         |                       |                       |               |
| Religion                         | 0.33 (0.10 to 0.57)    | 0.006                 | 0.32 (0.17 to 0.47)   | <0.001        |
|                                  |                         |                       |                       |               |
| Occupation                       | 0.02 (-0.11 to 0.14)   | 0.816                 | 0.05 (-0.03 to 0.14)  | 0.221         |
|                                  |                         |                       |                       |               |
| Living status                    | -0.04 (-0.14 to 0.06)  | 0.448                 | 0.04 (-0.02 to 0.11)  | 0.172         |
|                                  |                         |                       |                       |               |
| Personal income, Baht/month      | -0.01 (-0.13 to 0.12)  | 0.915                 | 0.05 (-0.03 to 0.13)  | 0.191         |
|                                  |                         |                       |                       |               |
| History of mental illness        | 0.16 (-0.09 to 0.41)   | 0.209                 | 0.11 (-0.06 to 0.27)  | 0.200         |
|                                  |                         |                       |                       |               |
| History of chronic NCD\(^1\)    | 0.03 (-0.19 to 0.26)   | 0.767                 | 0.03 (-0.11 to 0.17)  | 0.640         |
|                                  |                         |                       |                       |               |
| Quarantine status                | -0.33 (-0.44 to -0.22) | <0.001                 | -0.01 (-0.08 to 0.05) | 0.743         |
| Moderate-stigma towards COVID-19 infection (19-25 points) |                         |                       |                       |               |
| Age                              | 0.02 (0.01 to 0.03)    | 0.003                 | -0.01 (-0.01 to 0.00) | 0.105         |
|                                  |                         |                       |                       |               |
| Sexual identity                  | -0.02 (-0.16 to 0.11)  | 0.722                 | 0.02 (-0.07 to 0.11)  | 0.646         |
|                                  |                         |                       |                       |               |
| Marital status                   | 0.17 (-0.02 to 0.36)   | 0.075                 | -0.16 (-0.29 to -0.03) | 0.017       |
|                                  |                         |                       |                       |               |
| Education level                  | -0.12 (-0.27 to 0.03)  | 0.117                 | 0.04 (-0.06 to 0.14)  | 0.452         |
|                                  |                         |                       |                       |               |
| Religion                         | -0.29 (-0.53 to -0.06) | 0.016                 | -0.01 (-0.17 to 0.14) | 0.882         |
|                                  |                         |                       |                       |               |
| Occupation                       | -0.02 (-0.14 to 0.11)  | 0.817                 | -0.01 (-0.09 to 0.08) | 0.868         |
|                                  |                         |                       |                       |               |
| Living status                    | 0.02 (-0.08 to 0.12)   | 0.717                 | -0.03 (-0.09 to 0.03) | 0.330         |
|                                  |                         |                       |                       |               |
| Personal income, Baht/month      | -0.02 (-0.14 to 0.11)  | 0.794                 | 0.04 (-0.07 to 0.09)  | 0.727         |
|                                  |                         |                       |                       |               |
| History of mental illness        | -0.21 (-0.46 to 0.04)  | 0.106                 | -0.07 (-0.23 to 0.09) | 0.394         |
|                                  |                         |                       |                       |               |
| History of chronic NCD\(^1\)    | -0.04 (-0.26 to 0.19)  | 0.756                 | -0.00 (-0.14 to 0.14) | 0.995         |
|                                  |                         |                       |                       |               |
| Quarantine status                | 0.30 (0.19 to 0.41)    | <0.001                 | -0.00 (-0.07 to 0.06) | 0.986         |
| High-stigma towards COVID-19 infection (26 points or higher) |                         |                       |                       |               |
| Age                              | 0.01 (-0.00 to 0.02)   | 0.121                 | 0.02 (0.01 to 0.02)   | <0.001       |
|                                  |                         |                       |                       |               |
| Sexual identity                  | 0.03 (-0.10 to 0.17)   | 0.632                 | -0.17 (-0.26 to -0.08) | <0.001       |
|                                  |                         |                       |                       |               |
| Marital status                   | 0.04 (-0.15 to 0.23)   | 0.681                 | 0.24 (0.11 to 0.37)   | <0.001       |
|                                  |                         |                       |                       |               |
| Education level                  | -0.01 (-0.16 to 0.13)  | 0.859                 | -0.02 (-0.12 to 0.08) | 0.665         |
|                                  |                         |                       |                       |               |
| Religion                         | -0.15 (-0.38 to 0.09)  | 0.218                 | -0.27 (-0.42 to -0.11) | 0.001       |
|                                  |                         |                       |                       |               |
| Occupation                       | -0.00 (-0.13 to 0.13)  | 0.984                 | -0.04 (-0.13 to 0.05) | 0.381         |
|                                  |                         |                       |                       |               |
| Living status                    | 0.07 (-0.03 to 0.17)   | 0.183                 | -0.00 (-0.07 to 0.06) | 0.924         |
|                                  |                         |                       |                       |               |
| Personal income, Baht/month      | 0.08 (-0.05 to 0.20)   | 0.227                 | -0.06 (-0.14 to 0.02) | 0.128         |
|                                  |                         |                       |                       |               |
| History of mental illness        | 0.14 (-0.11 to 0.39)   | 0.268                 | -0.01 (-0.18 to 0.15) | 0.873         |
|                                  |                         |                       |                       |               |
| History of chronic NCD\(^1\)    | 0.00 (-0.22 to 0.23)   | 0.975                 | -0.03 (-0.17 to 0.11) | 0.690         |
|                                  |                         |                       |                       |               |
| Quarantine status                | 0.13 (0.02 to 0.24)    | 0.023                 | 0.01 (-0.05 to 0.07)  | 0.761         |

\(^1\)To includes diabetes mellitus, hypertension, dyslipidemia, stroke and heart disease, chronic kidney disease, chronic lung disease, and cancer.

Abbreviations: CI, confidence interval; COVID-19, coronavirus disease-2019; COVID-PSS, coronavirus disease-2019-public stigma scale; NCD, non-communicable diseases.
| Variables                                      | No/Low (1 Point) | Moderate (2-3 Points) | High (4-7 Points) |
|------------------------------------------------|------------------|-----------------------|------------------|
|                                                 | Coefficient (95% CI) | P Value | Coefficient (95% CI) | P Value | Coefficient (95% CI) | P Value |
| **No/minimal-stigma towards COVID-19 infection (18 points or lower)** |                 |                       |                   |                   |                           |         |
| Age                                            | -0.00 (-0.01 to 0.00) | 0.511 | -0.01 (-0.01 to 0.00) | 0.117 | 0.00 (-0.02 to 0.02) | 0.775 |
| Sexual identity                                | 0.13 (0.04 to 0.21) | 0.006 | 0.08 (-0.01 to 0.18) | 0.072 | 0.07 (-0.20 to 0.34) | 0.624 |
| Marital status                                 | -0.13 (-0.26 to -0.00) | 0.042 | -0.03 (-0.17 to 0.10) | 0.613 | -0.08 (-0.45 to 0.28) | 0.650 |
| Education level                                | 0.01 (-0.09 to 0.12) | 0.785 | 0.07 (-0.02 to 0.17) | 0.146 | -0.00 (-0.31 to 0.31) | 0.993 |
| Religion                                       | 0.19 (0.04 to 0.34) | 0.012 | 0.37 (0.20 to 0.53) | <0.001 | -0.11 (-0.68 to 0.46) | 0.705 |
| Occupation                                     | -0.08 (-0.17 to 0.00) | 0.051 | 0.04 (-0.04 to 0.13) | 0.339 | -0.04 (-0.28 to 0.20) | 0.721 |
| Living status                                   | 0.03 (-0.03 to 0.10) | 0.333 | 0.05 (-0.02 to 0.11) | 0.179 | 0.31 (0.12 to 0.50) | 0.001 |
| Personal income, Baht/month                     | -0.06 (-0.14 to 0.02) | 0.137 | 0.01 (-0.07 to 0.09) | 0.834 | 0.05 (-0.17 to 0.27) | 0.653 |
| History of mental illness                       | 0.05 (-0.12 to 0.21) | 0.566 | 0.21 (0.06 to 0.37) | 0.008 | -0.12 (-0.70 to 0.45) | 0.673 |
| History of chronic NCD¹                         | -0.00 (-0.15 to 0.15) | 0.993 | -0.06 (-0.19 to 0.08) | 0.403 | -0.20 (-0.58 to 0.19) | 0.315 |
| Quarantine status                               | -0.13 (-0.19 to -0.06) | <0.001 | -0.11 (-0.18 to -0.05) | 0.001 | -0.02 (-0.21 to 0.17) | 0.828 |
| **Moderate-stigma towards COVID-19 infection (19-25 points)** | | | | | | |
| Age                                            | -0.01 (-0.01 to 0.00) | 0.084 | -0.01 (-0.01 to 0.00) | 0.057 | -0.00 (-0.02 to 0.02) | 0.847 |
| Sexual identity                                | -0.05 (-0.13 to 0.04) | 0.321 | 0.01 (-0.08 to 0.10) | 0.839 | -0.16 (-0.43 to 0.11) | 0.252 |
| Marital status                                 | 0.00 (-0.13 to 0.13) | 0.963 | -0.18 (-0.31 to -0.05) | 0.008 | -0.46 (-0.83 to -0.10) | 0.013 |
| Education level                                | -0.01 (-0.12 to 0.10) | 0.840 | 0.00 (-0.09 to 0.10) | 0.955 | -0.01 (-0.31 to 0.30) | 0.972 |
| Religion                                       | -0.05 (-0.19 to 0.10) | 0.550 | -0.08 (-0.25 to 0.08) | 0.334 | -0.20 (-0.78 to 0.37) | 0.489 |
| Occupation                                     | 0.06 (-0.02 to 0.15) | 0.147 | -0.08 (-0.17 to 0.00) | 0.051 | 0.10 (-0.14 to 0.34) | 0.426 |
| Living status                                   | -0.01 (-0.07 to 0.06) | 0.857 | -0.02 (-0.08 to 0.05) | 0.627 | 0.07 (-0.12 to 0.26) | 0.466 |
| Personal income, Baht/month                     | 0.07 (-0.08 to 0.36) | 0.104 | 0.03 (-0.05 to 0.15) | 0.451 | 0.14 (-0.05 to 0.38) | 0.221 |
| History of mental illness                       | -0.08 (-0.24 to 0.09) | 0.350 | -0.09 (-0.25 to 0.07) | 0.285 | 0.26 (-0.32 to 0.84) | 0.381 |
| History of chronic NCD¹                         | -0.01 (-0.16 to 0.13) | 0.868 | -0.01 (-0.14 to 0.13) | 0.910 | 0.09 (-0.29 to 0.47) | 0.638 |
| Quarantine status                               | 0.05 (-0.02 to 0.11) | 0.175 | 0.03 (-0.03 to 0.10) | 0.294 | -0.07 (-0.26 to 0.12) | 0.478 |
| **High-stigma towards COVID-19 infection (26 points or higher)** | | | | | | |
| Age                                            | 0.01 (0.00 to 0.02) | 0.005 | 0.01 (0.00 to 0.02) | 0.004 | 0.00 (-0.02 to 0.02) | 0.919 |
| Sexual identity                                | -0.09 (-0.18 to -0.00) | 0.039 | -0.06 (-0.16 to 0.03) | 0.171 | 0.13 (-0.14 to 0.40) | 0.335 |
| Marital status                                 | 0.15 (0.02 to 0.28) | 0.020 | 0.20 (0.06 to 0.33) | 0.004 | 0.47 (0.11 to 0.84) | 0.011 |
| Education level                                | -0.00 (-0.11 to 0.10) | 0.932 | -0.05 (-0.14 to 0.05) | 0.317 | 0.01 (-0.30 to 0.31) | 0.971 |
| Religion                                       | -0.17 (-0.32 to -0.02) | 0.024 | -0.16 (-0.33 to 0.01) | 0.061 | 0.23 (-0.34 to 0.80) | 0.432 |
| Occupation                                     | 0.03 (-0.06 to 0.11) | 0.545 | 0.05 (-0.03 to 0.14) | 0.212 | -0.08 (-0.32 to 0.16) | 0.506 |
| Living status                                   | -0.03 (-0.10 to 0.03) | 0.352 | -0.01 (-0.08 to 0.05) | 0.683 | -0.16 (-0.35 to 0.03) | 0.092 |
| Personal income, Baht/month                     | -0.01 (-0.09 to 0.07) | 0.881 | -0.03 (-0.11 to 0.04) | 0.389 | -0.15 (-0.37 to 0.07) | 0.186 |
| History of mental illness                       | 0.03 (-0.13 to 0.20) | 0.678 | -0.06 (-0.22 to 0.10) | 0.485 | -0.21 (-0.79 to 0.36) | 0.468 |
| History of chronic NCD¹                         | 0.02 (-0.13 to 0.16) | 0.837 | 0.05 (-0.09 to 0.18) | 0.513 | -0.03 (-0.41 to 0.35) | 0.877 |
| Quarantine status                               | 0.09 (0.03 to 0.16) | 0.007 | 0.04 (-0.03 to 0.11) | 0.237 | -0.07 (-0.12 to 0.27) | 0.451 |

¹To includes diabetes mellitus, hypertension, dyslipidemia, stroke and heart disease, chronic kidney disease, chronic lung disease, and cancer.

Abbreviations: CI, confidence interval; COVID-19, coronavirus disease-2019; COVID-PSS, coronavirus disease-2019-public stigma scale; NCD, non-communicable diseases.
**Figure S1** Flowchart on the Selection of Eligible Participants

4,997 general population in Thailand were identified through an online survey invitation

4,381 willingness to participate in the HOME-COVID-19 survey

Not eligible for the criteria of the HOME-COVID-19 survey
- 32 aged <18 years at the date of the survey
- 27 time spent on the survey <2 or ≥60 minutes

4,322 participants screened

318 excluded: non-completed responses

4,004 completed the set of mental health and psychosocial questions

Abbreviation: HOME-COVID-19, The Health Outcomes and Mental Health Care Evaluation Survey Research Group-Coronavirus disease 2019
**Figure S2** Parallel Analysis of the 15-item prototype of the COVID-PSS
Figure S3 Three-Factor Model of the COVID-PSS

Abbreviation: COVID-PSS, coronavirus disease-2019-public stigma scale
**Figure S4** Correlations Between Measures of the Psychosocial-Related to COVID-19 and the COVID-PSS Scores

A: Correlation with Fear of COVID-19

B: Correlation with Perceived Risk of COVID-19 Infection

Abbreviations: COVID-19, coronavirus disease 2019; COVID-PSS, coronavirus disease 2019-public stigma scale.
**Figure S4** Correlations Between Measures of the Psychosocial-Related to COVID-19 and the COVID-PSS Scores (Continued)

C: Correlation with Social Distance Scale
冯楼 I: The 30-Item Pilot Questionnaire

คำชี้แจง กรุณาตอบข้อคำถามในแต่ละข้อต่อไปนี้ว่าท่านมีความคิดเห็นต่อข้อคำถามนั้น มากน้อยเพียงใด โดยทำเครื่องหมาย √ ลงในช่อง ที่ตรงกับความรู้สึกเกิดขึ้นกับท่านมากที่สุด

ความคิดเห็นที่ตรงกับท่านมากที่สุด

| 1 | หมายถึง | ไม่เห็นด้วยอย่างมาก |
| 2 | หมายถึง | ไม่เห็นด้วย |
| 3 | หมายถึง | เฉย ๆ |
| 4 | หมายถึง | เห็นด้วย |
| 5 | หมายถึง | เห็นด้วยอย่างมาก |

| ข้อคำถาม | ความคิดเห็นที่ตรงกับท่านมากที่สุด |
|-----------|----------------------------------|
| Q1 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ภูมิต้านทานไม่ดี | ☐ ☐ ☐ ☐ ☐ |
| Q2 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่ใส่ใจการดูแลสุขภาพ | ☐ ☐ ☐ ☐ ☐ |
| Q3 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ดื่มแอลกอฮอล์ | ☐ ☐ ☐ ☐ ☐ |
| Q4 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่ค่อยสนใจและปฏิบัติตามคำแนะนำของผู้เชี่ยวชาญ | ☐ ☐ ☐ ☐ ☐ |
| Q5 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ชอบกิน/เที่ยว สังสรรค์ | ☐ ☐ ☐ ☐ ☐ |
| Q6 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นตัวเชื้อโรค | ☐ ☐ ☐ ☐ ☐ |
| Q7 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่มีความรู้ ขาดการศึกษา | ☐ ☐ ☐ ☐ ☐ |
| Q8 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นอันตรายต่อผู้อื่น | ☐ ☐ ☐ ☐ ☐ |
| Q9 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นภาระต่อครอบครัวและสังคม | ☐ ☐ ☐ ☐ ☐ |
| Q10 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่รับผิดชอบต่อสังคม | ☐ ☐ ☐ ☐ ☐ |
| Q11 คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 น่ารังเกียจ | ☐ ☐ ☐ ☐ ☐ |
| 12 คนที่ติดเชื้อไวรัสโควิด-19 ควรจะระลึกใจ | ☐ ☐ ☐ ☐ ☐ |
Appendix I: The 30-Item Pilot Questionnaire (Continued)

คำชี้แจง  กรุณาตอบข้อคำถามในแต่ละข้อต่อไปนี้ว่าท่านมีความคิดเห็นต่อข้อคำถามนั้นมากน้อยเพียงใด โดยทำเครื่องหมาย  ลงในช่องที่ตรงกับความรู้สึกเกิดขึ้นกับท่านมากที่สุด

ความคิดเห็นที่ตรงกับท่านมากที่สุด

1 หมายถึง ไม่เห็นด้วยอย่างมาก
2 หมายถึง ไม่เห็นด้วย
3 หมายถึง เฉย ๆ
4 หมายถึง เห็นด้วย
5 หมายถึง เห็นด้วยอย่างมาก

| ข้อคำถาม                                      | ความคิดเห็นที่ตรงกับท่านมากที่สุด |
|-----------------------------------------------|-----------------------------------|
| Q13 ฉันรู้สึกกลัวคนที่ติดเชื้อไวรัสโควิด-19    | 1 2 3 4 5                         |
| Q14 ฉันรู้สึกกลัวคนที่มีความเสี่ยงที่จะติดเชื้อไวรัสโควิด-19 แม้ว่าเขาจะยังไม่ได้ติดเชื้อก็ตาม | 1 2 3 4 5 |
| Q15 ฉันรู้สึกโกรธคนที่ติดเชื้อไวรัสโควิด-19   | 1 2 3 4 5                         |
| Q16 ฉันรู้สึกโกรธคนที่มีความเสี่ยงที่จะติดเชื้อไวรัสโควิด-19 แม้ว่าเขาจะยังไม่ได้ติดเชื้อก็ตาม | 1 2 3 4 5 |
| Q17 ถ้าฉันติดเชื้อไวรัสโควิด-19 ฉันจะไม่เปิดเผยสิ่งนี้กับใคร | 1 2 3 4 5 |
| Q18 ถ้าฉันติดเชื้อไวรัสโควิด-19 ฉันจะไม่เปิดเผยสิ่งนี้กับใคร | 1 2 3 4 5 |
| Q19 ฉันรู้สึกสงสารคนที่ติดเชื้อไวรัสโควิด-19 ทุกคน | 1 2 3 4 5 |
| Q20 ฉันรู้สึกสงสารคนที่ติดเชื้อไวรัสโควิด-19 ทุกคน | 1 2 3 4 5 |
| Q21 ฉันรู้สึกสงสารคนที่ติดเชื้อไวรัสโควิด-19 ทุกคน | 1 2 3 4 5 |
| Q22 ฉันรู้สึกสงสารคนที่ติดเชื้อไวรัสโควิด-19 ทุกคน | 1 2 3 4 5 |
| Q23 ฉันรู้สึกสงสารคนที่ติดเชื้อไวรัสโควิด-19 ทุกคน | 1 2 3 4 5 |
Appendix I: The 30-Item Pilot Questionnaire (Continued)

คำชี้แจง กรุณาตอบข้อคำถามในแต่ละข้อต่อไปนี้ว่าท่านมีความคิดเห็นต่อข้อคำถามนั้น มากน้อยเพียงใด โดยทำเครื่องหมาย ✓ ลงในช่อง ที่ตรงกับความรู้สึกเกิดขึ้นกับท่านมากที่สุด

ความคิดเห็นที่ตรงกับท่านมากที่สุด

| ข้อคำถาม | ความคิดเห็นที่ตรงกับท่านมากที่สุด |
|----------|---------------------------------|
|          | 1 หมายถึง ไม่เห็นด้วยอย่างมาก   |
|          | 2 หมายถึง ไม่เห็นด้วย            |
|          | 3 หมายถึง เฉย ๆ                  |
|          | 4 หมายถึง เห็นด้วย                |
|          | 5 หมายถึง เห็นด้วยอย่างมาก        |

Q24  คนที่ติดเชื้อไวรัสโคโรนา-19 น่าจะมีความผิดทางกฎหมายด้วย เพราะทำให้คนอื่นพลอยเดือดร้อน

Q25 รัฐบาลควรจะหาทรัพยากรทั้งบุคคล และเครื่องมือ มาทุ่มเทกับคนที่ยังไม่ติดเชื้อตั้งแต่ก่อน

Q26 รัฐบาลควรจะประกาศรายชื่อผู้ติดเชื้อไวรัสโคโรนา-19 และคนในครอบครัวทั้งหมด เพื่อให้ประชาชนรับทราบและไม่เข้าใกล้บุคคลเหล่านี้

Q27 อันตรายมากกว่าจะติดเชื้อไวรัสโคโรนา-19 ได้ ถ้าอาศัยอยู่ในชุมชนเดียวกับผู้ติดเชื้อไวรัสโคโรนา-19

Q28 คนที่ติดเชื้อไวรัสโคโรนา-19 น่าจะเอาไปกักตัวไว้ที่ที่ที่ทางการจะพิจารณาต่างหาก ไม่ควรจะอยู่ในชุมชน

Q29 คนที่ติดเชื้อไวรัสโคโรนา-19 ควรถูกขังต่อไปออกจากชุมชน

Q30 คนที่ติดเชื้อไวรัสโคโรนา-19 ควรถูกปฏิเสธเข้าทำงาน หรือควรถูกให้ออกจากงาน
Appendix II: The Final 10-Item COVID-PSS (Validated Thai Version)

คำชี้แจง กรุณาตอบข้อคำถามในแต่ละข้อต่อไปนี้ว่าท่านมีความคิดเห็นต่อข้อคำถามนั้น มากน้อยเพียงใด โดยทำเครื่องหมาย √ ลงในช่องที่ตรงกับความรู้สึกเกิดขึ้นกับท่านมากที่สุด

ความคิดเห็นที่ตรงกับท่านมากที่สุด

| ข้อคำถาม | ความคิดเห็นที่ตรงกับท่านมากที่สุด |
|----------|----------------------------------|
| 1  คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่ใส่ใจการดูแลสุขภาพ | ไม่เห็นด้วยอย่างมาก |
| 2  คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่ค่อยสนใจและปฏิบัติตามคำแนะนำของผู้เชี่ยวชาญ | ไม่เห็นด้วย |
| 3  คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ชอบกิน/เที่ยว สังสรรค์ | เฉย ๆ |
| 4  คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่รับผิดชอบต่อสังคม | เห็นด้วย |
| 5  คนส่วนใหญ่ที่ติดเชื้อไวรัสโควิด-19 เป็นคนที่ไม่รับผิดชอบต่อสังคม | เห็นด้วยอย่างมาก |

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### Appendix III: The Final 10-Item COVID-PSS (Non-Validated English Version)

**Instruction:** Please answer each of the following questions for the degree you think of that question by marking ✓ in the box which best fits your feelings.

| Best fit your opinion | 1 meaning | 2 meaning | 3 meaning | 4 meaning | 5 meaning |
|-----------------------|-----------|-----------|-----------|-----------|-----------|
| Strongly disagree     |           |           |           |           |           |
| Disagree              |           |           |           |           |           |
| Neutral               |           |           |           |           |           |
| Agree                 |           |           |           |           |           |
| Strongly agree        |           |           |           |           |           |

| Question                                                                 | Best fit your opinion |
|-------------------------------------------------------------------------|-----------------------|
| **1** Most people infected with COVID-19 do not take care of their health. |                      |
| **2** Most people infected with COVID-19 do not follow expert medical advice. |                      |
| **3** Most people infected with COVID-19 like to party or socialize often. |                      |
| **4** Most people infected with COVID-19 are contaminated with germs.    |                      |
| **5** Most people infected with COVID-19 are a burden to their families and society. |                      |
| **6** Most people infected with COVID-19 are socially irresponsible.     |                      |
| **7** Most people infected with COVID-19 are a danger to other people.   |                      |
| **8** I fear people infected with COVID-19.                              |                      |
| **9** I fear people who are at risk of COVID-19 infection even if they have not yet been infected yet. | |
| **10** I fear being infected with COVID-19 if I live a community with people who are infected with COVID-19. | |
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