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## Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment

Journal:	<i>BMJ Open</i>
Manuscript ID	bmjopen-2017-017355
Article Type:	Research
Date Submitted by the Author:	19-Apr-2017
Complete List of Authors:	Cook, Alex; National University Singapore Singapore, Saw Swee Hock School of Public Health Zhao, Xiahong; National University of Singapore, Saw Swee Hock School of Public Health Chen, Mark I-Cheng; National University of Singapore, Saw Swee Hock School of Public Health Finkelstein, Eric; Duke-NUS Graduate Medical School, Health Services and Systems Research Program
<b>Primary Subject Heading</b>:	Health policy
Secondary Subject Heading:	Health policy, Health economics, Infectious diseases, Public health
Keywords:	Public health < INFECTIOUS DISEASES, Discrete choice experiment, Emerging infectious diseases, Interventions
<p>Note: The following files were submitted by the author for peer review, but cannot be converted to PDF. You must view these files (e.g. movies) online.</p> <p>Supplementary data 1.csv Supplementary data 2.csv</p>	

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## Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment

Running title: Preferences for outbreak interventions

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### Key Words

Public health, discrete choice experiment, emerging infectious diseases, interventions

## Abstract

**Objective** When faced with an emergent epidemic with high mortality and morbidity potential, policy makers must decide what public health interventions to deploy at different stages of the outbreak. However, almost nothing is known about how the public view these interventions or how they trade off risks (of disease) with inconvenience (of interventions). In this paper, we aim to understand public perceptions on pandemic interventions, as well as to identify if there are any distinct respondent preference classes.

**Design** A discrete choice experiment.

**Setting** This study was fielded in Singapore between November 2012 and February 2013.

**Participants** A random sample of 500 Singapore residents aged 21 and over, including 271 women and 229 men, was analysed.

**Outcome measures** Demographic information was collected from each participant. Participants were also shown a series of pairs of alternatives, each combining interventions and morbidity, mortality and cost outcomes, and declared a preference for one combination. A random utility model was developed to determine the individual's preference for interventions and a hierarchical cluster analysis was performed to identify distinct respondent preference classes.

**Results** On average, participants preferred more intense interventions and disfavoured death and tax. The number of infections did not significantly influence respondents' responses. We identified two broad classes of respondents: those who were mortality averse and those who were expenditure averse. Education was found to be a predictor of group membership.

**Conclusion** Overall, there was considerable support for government interventions to prevent or mitigate outbreaks of emerging infectious diseases, including those that greatly restricted individual liberties, as long as the restrictions showed a reasonable chance of reducing the adverse health effects of the outbreak.

(271 words)

## Strengths and limitations of this study

- This study conducts discrete choice experiments that allow strength of preferences for different pandemic preparedness interventions among the general public to be estimated.
- A hierarchical cluster analysis identifies key population subgroups that perceive the public health response differently from the general population.
- The study design and statistical methods proposed in this study can be easily adapted to other settings.
- The public reaction is unpredictable, and it may depend on the severity and symptoms of the disease.

## Introduction

The last decade has witnessed the emergence of several emerging infectious diseases, including the first influenza pandemic of the 21st century<sup>1</sup>, avian influenza A(H7N9) outbreaks<sup>2-4</sup> a novel coronavirus (MERS-CoV) that emerged in Saudi Arabia<sup>5</sup> and spread around the Middle East and Western Pacific<sup>6,7</sup>, the Ebola crisis in Western Africa<sup>8</sup> and the Zika outbreak in the Americas and Asia<sup>9,10</sup>. When faced with such threats, policy makers worldwide have to decide which public health interventions to deploy should such an emerging infectious disease cause an outbreak in their territory. Following the emergence of the Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) in 2003<sup>11</sup>, and the ongoing transmission of avian influenza A(H5N1) in South East Asia<sup>12,13</sup> and China<sup>14</sup>, the WHO urged governments to develop pandemic preparedness plans<sup>15</sup> as it revised the International Health Regulations in 2005<sup>16</sup>. Details vary between countries<sup>17,18</sup>, and the influenza A(H1N1) pandemic of 2009 demonstrated clearly that willingness to respond also varied substantially between countries, with several Asian countries adopting more aggressive response policies<sup>19-21</sup> than the approach common in America and Europe, which could be described as being more proportionate to the threat.

In the aftermath of the 2009 influenza pandemic, particularly severe criticism was voiced from some European quarters that health authorities and the WHO over-reacted in their response to the influenza A(H1N1) pandemic of 2009<sup>22</sup>. Others argued that the prior experiences with SARS-CoV and H5N1 justified a robust response to the influenza A(H1N1pdm09) pandemic in 2009<sup>19,20</sup>. For instance, in Singapore, where SARS-CoV caused 238 infections, 33 deaths, and reduced annual GDP by 1%<sup>23</sup>, there was a strong governmental response, with over 8,000 contacts of SARS-CoV cases quarantined<sup>24</sup>. Singapore's health authorities used similarly robust measures during the influenza pandemic in 2009, and initially mandated isolation of confirmed cases, quarantining of exposed individuals, and temperature screening in hospitals, public places and ports of entry<sup>25</sup>. This was in spite of the paucity of evidence that such measures would make any difference to the overall course of the pandemic.

Since public acceptance is vital for many outbreak response policies to have the intended effect, public health decision making must go beyond accurate assessments of the severity of a threat and what measures might be effective against it. It has to calibrate policy to the public's willingness to accept the trade-offs associated with a given response to the outbreak, and a framework is needed for assessing this while recognizing the diversity of views between and within populations as to what they value. This framework must be able to accommodate a diversity of scenarios on the key characteristics of the threat, and the suite of public health interventions available. To this end, we conducted a 'conjoint'

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3 discrete choice experiment to explore the Singapore public's willingness to accept certain containment  
4 and mitigation strategies under various outbreak scenarios, spanning a range of infection and fatality  
5 rates. Specifically we assess three broad questions: (i) How informed are the public about infectious  
6 disease outbreaks and the effectiveness of different interventions? (ii) How much do the public support  
7 interventions—quarantine, isolation of contacts, school closure and mass screening—that restrict civil  
8 liberties in an outbreak? (iii) How consistent are overall preferences for intervention policies throughout  
9 the population? Are there subgroups whose preferences are in opposition to the majority? We  
10 hypothesised that the population would be broadly supportive of interventions that restricted their civil  
11 liberties, but that they might be averse to monetary impacts of those interventions.  
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20 Our work was motivated by the past vulnerability of Singapore to a diversity of emerging infectious  
21 disease threats such as Nipah virus in the 1990s<sup>26</sup>, to SARS-CoV in 2003<sup>27</sup>, Chikungunya in 2008<sup>28</sup>,  
22 pandemic influenza A(H1N1pdm09) in 2009<sup>29</sup> and the Zika epidemic in 2016<sup>30</sup>, and its perceived  
23 vulnerability to future threats, given its location at the centre of South East Asia where various highly  
24 pathogenic strains of avian influenza continue to spread, its role as a transport hub, its highly urbanized  
25 environment and its tropical climate, which permits year round transmission of many viruses<sup>31</sup>. These  
26 results are hence intended to allow policy makers to identify policies which will have high levels of public  
27 support and are hence expected to translate into high levels of compliance, while exemplifying a  
28 method that can be used to address the same questions in different settings.  
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## 36 **Methods**

### 37 **Fielding and sample**

38 This survey was fielded in Singapore between November 2012 and February 2013. The sampling frame  
39 was based on a list of households obtained from the Singapore national database of dwellings and  
40 continued until 500 responses with informed consent were obtained, which required 1,196 households  
41 to be contacted (yielding an unadjusted response rate of 41.8%). Respondent eligibility could not be  
42 determined in 41 households. The remaining households were found to have at least one eligible  
43 respondent (citizen or permanent resident aged 21 and over). For those with multiple eligible  
44 respondents, one was randomly selected to take the survey. Trained interviewers administered the  
45 paper survey in English, Malay, Mandarin or Tamil. The study was approved by the National University of  
46 Singapore Institutional Review Board. All methods were performed in accordance with relevant  
47 guidelines and regulations.  
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## Survey structure

The survey questioned respondents' travel habits, experience with two previous infectious disease outbreaks in Singapore (the 2009 influenza A(H1N1pdm09) pandemic and the 2003 SARS-CoV outbreaks), attitudes towards and knowledge of the effectiveness of interventions, and beliefs about the burden of infectious diseases in Singapore. Participants were also asked how frequently they attended various crowded public places and whether they would reduce such attendance in response to an outbreak. Socio-demographic questions were also included.

The core of the survey was a discrete choice experiment (DCE), which is a method to identify preferences for, importance of, and willingness-to-pay (WTP) for various features of composite products or, as in this case, policy responses to an infectious disease outbreak. Each policy scenario consists of a number of attributes and each attribute of a number of levels. Each participant was provided a series of pairs of hypothetical alternatives, and asked to select one choice set of each pair as being his or her preference. Each pair of choice sets contains the same attributes but different levels of each attribute; the attributes and levels used are found in **Table 1**.

The first four attributes include interventions which were used in Singapore and other countries at various points of the 2009 influenza pandemic, 2003 SARS outbreak, and in response to other emerging outbreaks. The fifth assesses the tolerance to economic losses. The final two summarize the severity of the outbreak, in size (number of cases) and fatality rates. A typical pair of choice sets is provided in **Table 2**. Attributes and levels for the survey were determined through literature review, cognitive interviews, and piloting a draft instrument (n=50)<sup>32</sup>.

Following standard practice in DCEs<sup>32</sup>, respondents saw a fractional DCE design that is statistically efficient, minimizes level overlap (where levels do not vary across competing options) and ensures level balance (each level appears approximately the same number of times)<sup>33</sup>. The design was produced using Sawtooth SSI Web v8.22 and included four choice sets (versions), each version containing ten tasks.

Five of the seven attributes consisted of measures the government could take to restrict the spread of an infectious disease. The government, during the 2009 influenza pandemic and 2003 SARS-CoV outbreaks, quarantined suspected cases and enforced the isolation of actual cases. Both of these measures were included as attributes with two levels for each: mandatory and voluntary. The cancellation of mass gatherings was also included as an attribute with levels ranging from no



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cancellations to the closure of schools and prohibition of other types of mass gatherings. Temperature screening using thermal scanners was used during both the two events in Singapore and was therefore also included with different levels indicating whether the screenings were to be conducted only at border checkpoints, at checkpoints and other sites within Singapore, or not at all. Finally, a monetary attribute was included which posited a hypothetical one-time tax to fund control efforts with the following values: S\$15, S\$20, S\$40 and S\$50 (in 2013 S\$1  $\approx$  US\$0.80). The two remaining attributes described the outcome of an infectious disease outbreak in terms of two metrics: the expected number of infections (five levels ranging from 200 to 1,000,000 cases) and the expected number of infection-related deaths (five levels; 0 – 180 deaths). These levels were selected to span plausible ranges for emerging infectious disease outbreaks or pandemics. The DCE consisted of ten tasks that required respondents to choose between two scenarios with different levels of the seven attributes.

### Analyses

**Model overview:** The analysis uses a random utility model (RUM), which posits that respondents choose the option which provides them greater satisfaction/utility. By regressing respondent choices on the policy attributes and levels, we derived preference weights for each attribute-level, when all other attribute levels are held constant. The model assumes that the utility of a given scenario is a linear combination of the utilities associated with each attribute of the scenario, from interventions to outcomes, plus Gaussian noise. In addition, a hierarchical model was developed in which individuals were allowed differing utilities, the output of which was used to cluster individuals into groups.

**Model formulation:** A single attribute  $a$  has  $L_a$  levels. A choice set of options contains  $A$  attributes in all, and so the information about the choice set is contained in the object  $(l_1, l_2, \dots, l_A)$ . To facilitate analysis, the information is reformulated as a vector of dummy variables,  $(x_1, x_2, \dots, x_K)$  where  $K = \sum_{a=1}^A (L_a - 1)$  (1) is the total number of dummy variables, and where the dummy variables are coded 1 and 0 to indicate which levels are present for each attribute. One level per attribute is omitted to be treated as the baseline. We indicate choice sets via superscripts on the  $x$ s. The exception to this is the monetary variable which was left as a numerical value.

The average utility  $\mu_b$  over individuals in the population presented with a choice set of options  $b$  is modelled as a linear combination of utility components

$$\mu_b = \sum_{k=1}^K \beta_k x_k^b \quad (2)$$

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3 where the  $\beta$ s capture the utility of each component. The utility experienced in the  $i$ th response is  
4 assumed to be  $u_{ib} \sim N(\mu_b, \sigma^2)$  (3). The respondent reports whether  $u_{i1} > u_{i2}$  or not. If we denote the  
5 difference between these utilities as  $\delta_i = u_{i1} - u_{i2}$  (4) then  $\delta_i \sim N(\mu_1 - \mu_2, 2\sigma^2)$  (5). We observe  $y_i$   
6 which is 1 if  $\delta_i > 0$  and 0 otherwise. The likelihood of the data therefore follows directly.  
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11 The WTP for a given change in a policy scenario is the amount of cash (in this case a one-time tax) that  
12 would leave a respondent indifferent between paying (or receiving payment) for the attribute levels in a  
13 new scenario or remain with the original scenario. The WTP can be estimated by comparing the change  
14 in utility between the scenarios and the marginal utility of the tax attribute. The utility of tax was  
15 assumed to be linear, creating a single utility to money mapping that permitted the posterior  
16 distribution of willingness-to-pay (in units of one Singapore dollar) to be derived by taking the ratio of  
17 the other  $\beta$ s to the tax  $\beta$ .  
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24 **Subgroup analysis:** We then employed a hierarchical cluster analysis with Wald's method to identify  
25 distinct respondent preference classes. To account for the between individual variation, a hierarchical  
26 model was fitted. This model is similar as the original model, but the utility parameter  $\beta$  varies by  
27 individual. The utility parameter,  $\beta_{ik}$ , for individual  $i$  attribute  $k$  was assigned a Normal prior, i.e.  
28  $\beta_{ik} \sim N(\mu_k, \sigma_k^2)$  (6). Following parameter estimation (see next section), the Euclidean distance matrix  
29 used for cluster analysis was calculated from posterior mean utilities associated with each attribute and  
30 each individual. The number of latent classes was determined using the dendrogram from the cluster  
31 analysis, centroid plot from a two-group linear discriminant analysis, and elbow plot. Demographic  
32 predictors of class membership were then determined through logistic regression.  
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40 **Model fitting:** In the main model, flat prior distributions were assigned to each  $\beta_k$  and to  $\log \sigma$ . To  
41 ensure identifiability, one exception is made: the extreme level for one attribute (180 deaths) was set to  
42  $-1$  so that all other utilities are relative to that. The choice of the variable to anchor the utility scale to  
43 was made on pilot runs. In the hierarchical model used for clustering, the hyperprior distributions for  $\mu_k$   
44 and  $\sigma_k^2$  followed a normal distribution  $N(0, 10)$  and an inverse-gamma distribution with a shape of 0.1  
45 and a scale of 0.1, respectively. The model was fit using the Rstan package<sup>34</sup> that used the Stan language  
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**Variant model:** An alternative model was also constructed in which the linear tax variable was

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3 transformed using three dummy variables representing the tax effect of \$20, \$40 and \$50 compared  
4 with \$15. Similar results were obtained.  
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## 7 8 **Results**

### 9 10 **Survey respondents**

11 **Table 3** presents demographic characteristics for the 500 respondents and for a comparable population  
12 from the 2010 Singapore census. Although the age, gender, racial group, employment status and family  
13 status distributions are similar between the groups, the sample has a higher proportion of those  
14 educated to a polytechnic diploma level or higher (45.2% compared to 38.0% in census).  
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### 17 18 **Attitudes and knowledge**

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20 The fraction predicting there would be an infectious disease outbreak in Singapore infecting more than  
21 200 people over the next 12 months was 29% (95%CI 25%–33%, see **Figure 1**); the estimate for an  
22 outbreak infecting more than a million people (i.e. around a fifth of the total population) was much  
23 lower (10%, 95%CI 7%–12%). Mortality estimates also varied, with 20% (95%CI 16%–23%) predicting it  
24 likely that there would be an outbreak which kills more than 30, and 9% (95%CI 6%–11%) predicting one  
25 which kills more than 180 people, in the next year.  
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29 When asked about each intervention in isolation, a large majority of respondents favoured a policy of  
30 quarantine for potentially infected contacts (83%, 95%CI 79%–86%, see **Figure 1**). Isolation for  
31 diagnosed cases of infection was favoured by an even larger proportion (95%, 95%CI 93%–97%). Most of  
32 the sample was also in favour of temperature screenings (though the proportion was higher for  
33 screenings conducted at the border than elsewhere: 95% [94%–98%] vs. 89% [87%–92%]). Temperature  
34 screening was thought to be somewhat or very effective by 91% (89–94%) and quarantine by 95% (94–  
35 97%).  
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39 On attendance at crowded events or venues, the venue most frequently attended by survey participants  
40 were hawker centres (naturally ventilated food courts), where 29% (95%CI 25%–33%) went daily, and  
41 48% (95%CI 43%–52%) went weekly. A substantial fraction (60%, 95%CI 56%–64%) reported going to  
42 shopping malls at least weekly, as opposed to 28% (95%CI 24%–32%) who reported going to religious  
43 gatherings and 3% (95%CI 2%–5%) to festivals. When asked whether they would limit attendance at  
44 mass gatherings in the event of an infectious disease outbreak, a significant proportion reported they  
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3 would not: 58% (95%CI 50–67%) of those attending religious gatherings weekly and 51% (95%CI 43–  
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5 59%) of daily hawker centre patrons stated they would not reduce the frequency of attendance.  
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### 8 **Overall preferences for interventions and willingness to pay**

9 **Figure 3A** presents utilities for the entire sample excluding 7 with missing responses (full regression  
10 results are included in the **supplementary materials**). In outbreaks with at least 200 cases (the scenarios  
11 proffered), the sample as a whole marginally preferred mandatory to voluntary quarantine and  
12 isolation. They also favoured the cancellation of all mass gatherings and temperature screenings at sites  
13 all around Singapore. The two certainties of life—death and taxes—were disfavoured, but respondents'  
14 preferences were not influenced by the number of infections.  
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20 **Table 4** shows how respondents valued, in monetary terms, different policy options or outcomes, based  
21 on their estimated WTP (parameter estimates [posterior means, 95% credible intervals] are presented in  
22 **Tables S1 and S2** for the models with and without linear terms for the tax attribute). In general,  
23 respondents preferred more intervention, rather than less, and were willing to accept a loss of S\$370  
24 million at the societal level for the full choice set of interventions considered for implementation.  
25 Participants indicated via their choices a willingness to accept (personal) costs of up to S\$34 (S\$19, S\$58)  
26 to prevent 30 deaths, S\$70 (S\$45, S\$112) to prevent 80, S\$71 (S\$49, S\$109) to prevent 120 and S\$98  
27 (S\$69, S\$148) to prevent 180—at a national level, these imply a willingness to pay ~ S\$0.5M to S\$1M for  
28 each life saved. The value placed on a strong response (mandatory isolation and quarantine, cancelling  
29 all mass gatherings, and islandwide screening), S\$74, thus approximately corresponded to the value  
30 placed on preventing 100 deaths.  
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### 40 **Group preferences**

41 The hierarchical cluster analysis determined that the sample included two subgroups, and based on the  
42 following results we labelled these groups *mortality-averse* and *expenditure-averse* (estimates in **Tables**  
43 **S1 and S2**). Cluster analysis results for these groups are shown in **Figure 2**. The mortality-averse group  
44 (n=317, 63%) was in favour of the actual deployment of interventions, whereas the expenditure-averse  
45 group (n=183, 37%) expressed a strong disutility for a tax to cover the response and were ambivalent  
46 about mandatory isolation of confirmed cases. Both two groups, as expected, favoured a lower number  
47 of deaths, though the strength of preference varied substantially, with the mortality-averse group  
48 expressing a large disutility and the expenditure-averse a much smaller one. Neither group found  
49 reducing the number of infections important.  
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### Predictors of class membership

Those with post-secondary school education were more likely to belong to the *mortality-averse* group than to belong to the *expenditure-averse* group (Odds ratio (OR): 1.85, 95% CI: 1.22 – 2.78). Other demographic variables were not predictive of class membership.

### Discussion

Public health policy makers have several constituencies, but chief among these is the populace on whose behalf they make decisions. Yet when it comes to pandemic preparedness, it is remarkable how little is known about what interventions the general population wants their governments to undertake. This gap is especially noteworthy due to the considerable personal burden imposed by some interventions and the backlash against what some deemed excessive measures during the 2009 influenza pandemic<sup>22,38</sup>.

Our survey found that most Singaporeans reported a high tolerance for interventions that curtail individual liberties, which may be related to their long-standing acceptance of a paternalistic streak in their government<sup>39</sup>. Most participants supported the isolation of known cases and the quarantine of potential cases, both strategies that have been used in recent history in Singapore: in 2003 thousands of contacts of SARS-CoV cases were isolated or put under daily telephone surveillance<sup>24</sup>, while in the early period of the 2009 epidemic, cases with confirmed influenza A(H1N1pdm09) infection and their household contacts were isolated at home, with foreigners detained in Government Quarantine Facilities<sup>40</sup>.

Overall, utilities of all participants were high for the more intense control measures, i.e. given the same number of infections and deaths, respondents reported preferring mandatory isolation, quarantine, and social distancing. It is not clear how effective social distancing measures would be in a mild outbreak, however, as many respondents reported that they would not voluntarily reduce how frequently they go out to eat or shop. It may be the implicit recognition of this that made the majority of participants recognize that isolation and quarantine should be mandatory rather than voluntary. Results reveal that the preferences of the population are not uniform; respondents could be broadly categorized into two groupings: one group (*mortality averse*) was strongly motivated to reduce the number of deaths and willing to accept interventions that did so, whereas another (*expenditure averse*, 37% of our respondents) was tax averse, and not in favour of any measures that might increase their taxes, even at levels comparable to the per capita costs of Singapore's routine dengue vector control program<sup>41</sup>.

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3 Discrete-choice experiments can inform policy makers as to how much support there would be for  
4 potentially disruptive measures such as quarantine, isolation and school closures, and what kind of  
5 public health information might garner support from those otherwise not in favour. In Singapore, given  
6 our findings, this might involve stressing the necessity of such measures to reduce mortality, to co-opt  
7 the mortality-averse group, and to minimize the economic impact, to gain support from the sizeable tax-  
8 averse group. Studies such as this one can also identify misperceptions among the public that may  
9 hinder support for effective control. Two such examples surfaced in our study: (1) temperature  
10 screening island-wide received considerable support by our survey participants, although temperature  
11 screening at the country's main airport was estimated only to pick up around 1 imported case in 4 in  
12 2009<sup>25</sup>, and was increasingly ineffective as the infection became more widespread<sup>42</sup>, and (2) the  
13 predicted risk of infectious disease outbreaks was considerably underestimated: 2013 saw ~ 20 000  
14 dengue infections in Singapore, but the mean forecast risk of an outbreak infecting at least 200 people  
15 was a mere 29%. Future studies might evaluate the effect of priming respondents with accurate public  
16 health information before eliciting their preferences.  
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28 Beyond its direct application to Singapore, our work holds a wider relevance on how governments and  
29 global health authorities can use such methods to inform better management of epidemics and  
30 pandemics. It has been argued that, during the influenza pandemic in 2009, the failure of WHO and  
31 government health agencies was not so much in their assessment of the severity of the threat or what  
32 interventions might be effective against it, but in being able to effectively communicate the risk and the  
33 benefits of select mitigation strategies<sup>43,44</sup>. Prior assessment of population level preferences could help  
34 identify thresholds of epidemic severity which could serve as triggers for the implementation of more  
35 disruptive measures. In addition, information from such surveys could be used to explain the rationale  
36 for particular decisions, with hierarchical cluster analysis used to support the targeting of different  
37 messages to audiences with different values. Whereas surveys have been performed retrospectively to  
38 gauge support for government responses to specific circumstances like the SARS-CoV outbreaks in 2003  
39 and influenza pandemic in 2009<sup>45,46</sup>, our method is the first conjoint analysis that quantifies public  
40 support for government interventions over a realistic range of outbreak scenarios and parameters.  
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51 Singapore is a city state in the centre of South East Asia that has experienced several emerging  
52 infectious disease threats and where some civil liberties are constrained for the good of society. Her  
53 people mostly originate in China, India and the Malay Archipelago, and, culturally and socially, Singapore  
54 has much in common with other countries in South, East, and South-East Asia. Our study may therefore  
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3 shed light on attitudes towards response to infectious disease threats in Asia, a hotspot for emerging  
4 infectious diseases <sup>47</sup>. Future research should extend the approach to African, American and European  
5 settings, where attitudes on the role the state should play in responding to public health threats may  
6 differ.  
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11 The current study does have limitations. The response rate was low (41.8%) and although there were no  
12 significant differences when compared to the population age, gender, race, employment or family data,  
13 those with higher education were over-represented in our sample. A further limitation is that the study  
14 design elicits the public's preferences and trade-offs between known interventions and known  
15 outcomes of those interventions. However, at an early stage of an outbreak of a novel pathogen, policy  
16 makers face grave uncertainty about the outcomes of interventions because the characteristics of the  
17 pathogen's transmission routes and potential, the severity and symptoms of the disease it causes, and  
18 the public reaction is unpredictable. As a result, the decisions policy makers must continue to be based  
19 on scientific advice and political imperatives. Surveys such as this one permit a better understanding of  
20 those political imperatives in emerging infectious disease outbreaks.  
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## Author Contributions

Conceived the study: ARC, MICC, EAF. Oversaw data collection: MAF, EAF. Performed analyses: ARC, XZ, MAF. Wrote the paper: ARC, XZ, MAF, MICC, EAF.

## Additional Information

### Competing Interests

The authors declare no conflicts of interest.

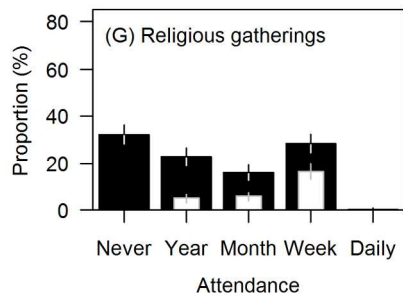
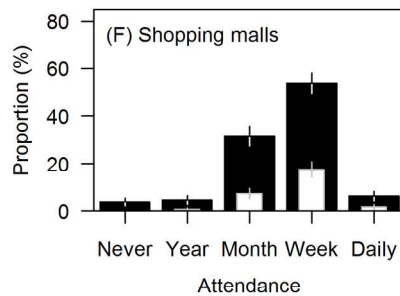
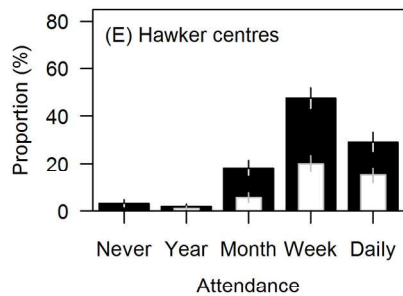
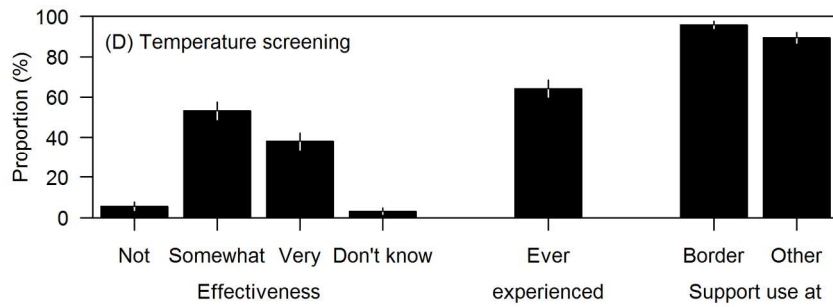
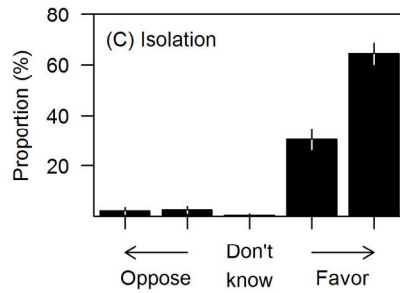
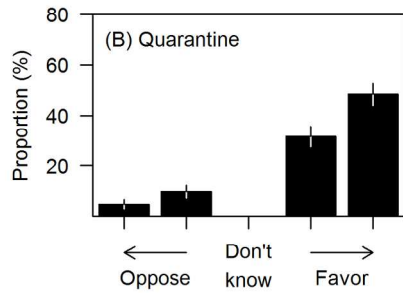
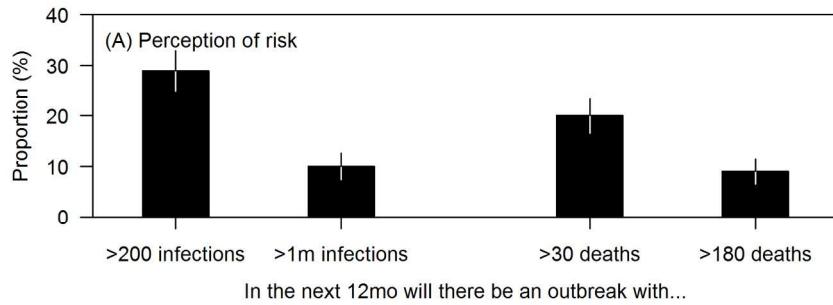
### Funding

The work was funded by Singapore's National Medical Research Council, grant NMRC/H1N1R/005/2009, the Ministry of Health, Singapore, grant CDPHRG/0009/2014, and the Centre for Infectious Disease Epidemiology and Research. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

### Availability of data

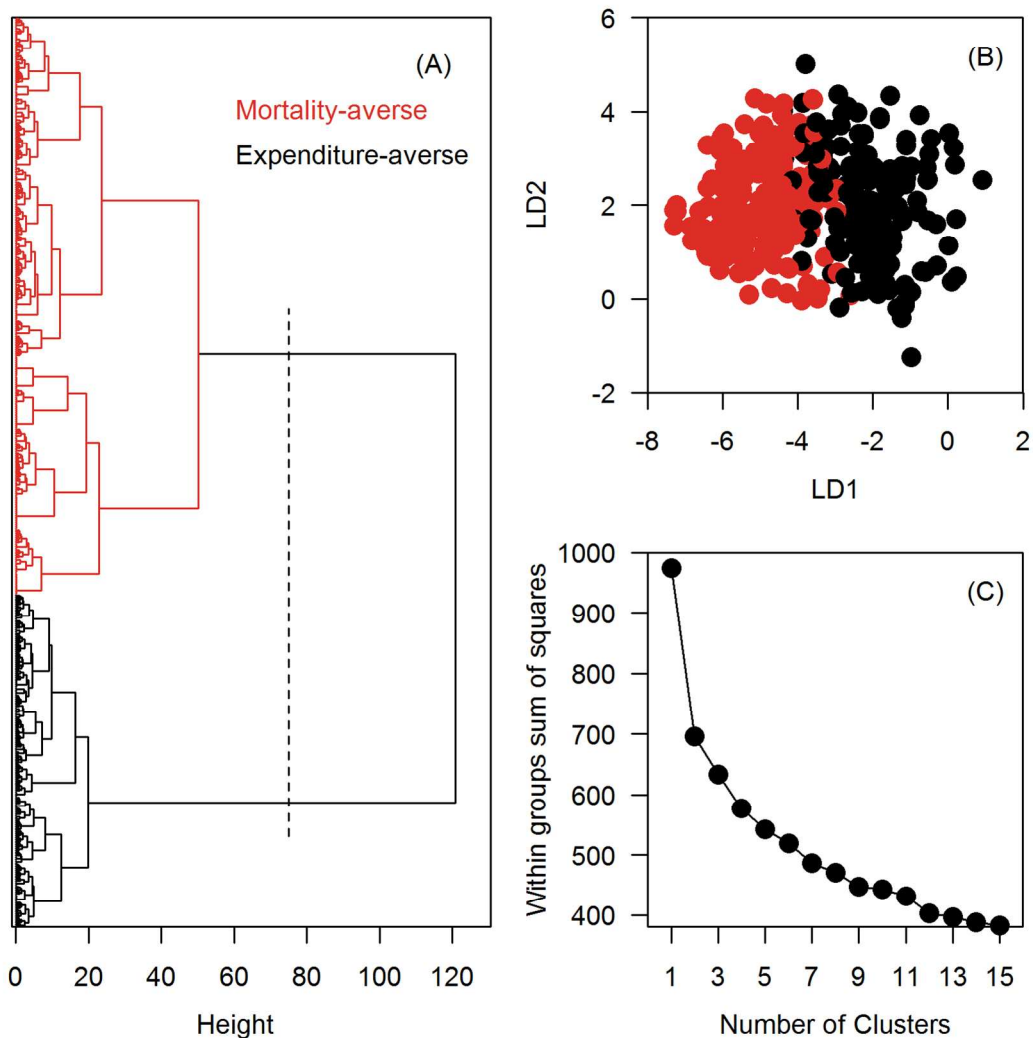
All data analysed during this study are included in this published article (Supplementary data 1 and 2).

Figure captions

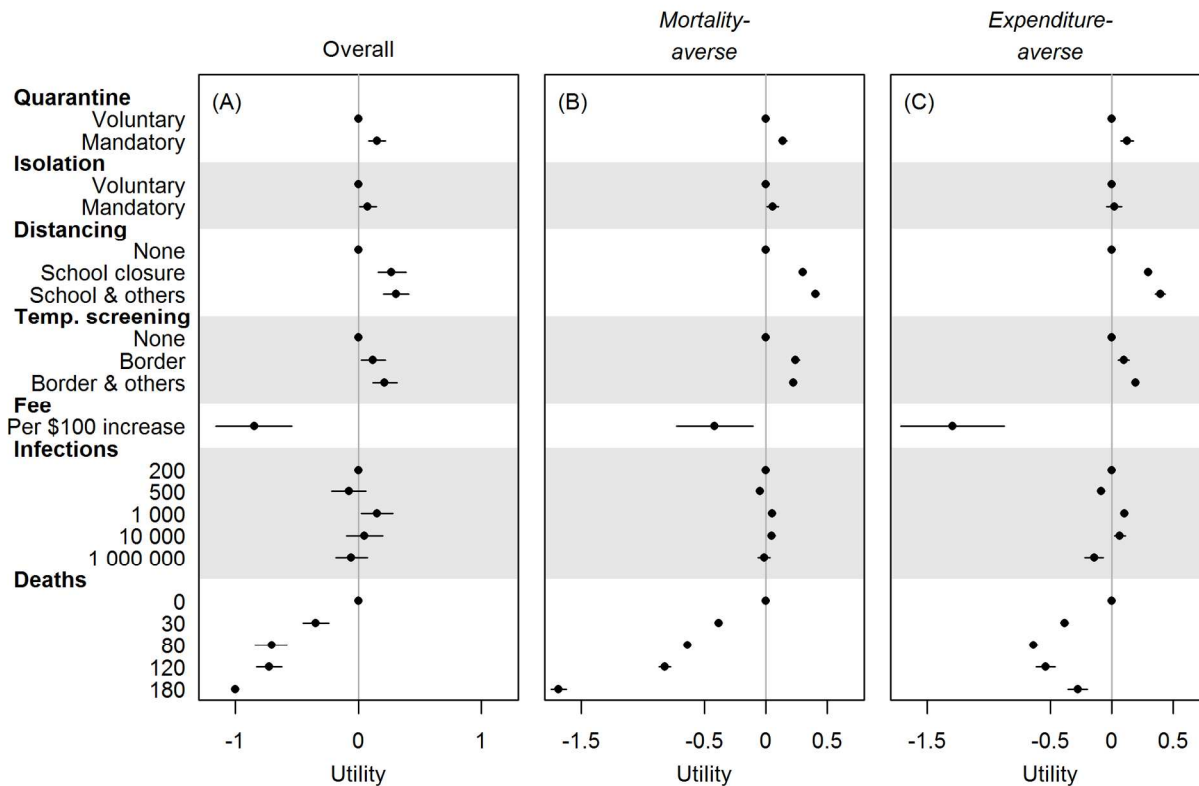


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3 **Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in**  
4 **their effectiveness among 500 adult Singapore residents.** Whiskers represent 95% confidence intervals.  
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8 (A) Estimates of risk of large outbreaks over the next 12mo in Singapore. (B, C) Support for mandatory  
9 isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose,  
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**Figure 2: Identification of distinct respondent preference classes among 500 adult Singapore residents using a hierarchical cluster analysis.** (A) A dendrogram of the hierarchical cluster analysis (Wald's method). The x-axis measures the closeness of either individual points or clusters. (B) A centroid plot shows the first (LD1, x-axis) versus the second discriminant function (LD2, y-axis) from a two-group linear discriminant analysis. (C) An elbow plot validates the number of clusters. The "elbow" on the line is at two clusters.



**Figure 3: Preference weights for policy scenario attributes, elicited by a discrete choice experiment.**

Overall (A) and in two subgroups (B, C) identified via hierarchical cluster analysis. Attribute levels with larger (positive) utilities are preferred to those with smaller (negative) utilities. The figure reflects estimated coefficients from the probit model, with the utilities for voluntary quarantine, voluntary isolation, no social distancing, no temperature screening, 200 infections and 0 deaths being set to 0. For panel (A), the utility for 180 deaths is set to  $-1$  for identifiability, all other utilities are therefore relative to it. Bars indicate 95% credible intervals. For panels (B, C), utilities are stratified posterior means from the Bayesian hierarchical model, and bars indicate 95% confidence intervals.



## Tables

Table 1: Attributes and levels used in the discrete choice experiment. Each choice set of options contained one level for each attribute.

Attributes	Levels
Quarantine of potential cases	Voluntary / Mandatory
Isolation of actual cases	Voluntary / Mandatory
Cancellation of mass gatherings	None / Closure of schools / Closure of schools and cancellation of other mass gatherings that involve more than 30 people in a single location
Temperature screening	None / Only at border checkpoints / At border checkpoints and other sites within Singapore
One-time fee to fund public health measures	S\$15 / S\$20 / S\$40 / S\$50
Expected number of infections	200 cases (1 in 25,000 people are infected) / 500 cases (1 in 10,000 people are infected) / 1,000 cases (1 in 5,000 people are infected) / 10,000 cases (1 in 500 people are infected) / 1,000,000 cases (1 in 5 people are infected)
Expected number of infection-related deaths	0 deaths / 30 deaths / 80 deaths / 120 deaths / 180 deaths

Table 2: A typical pair of choice sets of options.

	Scenario A	Scenario B
Policy measures		
Quarantine of potential cases	Mandatory	Voluntary
Isolation of actual cases	Voluntary	Mandatory
Cancellation of mass gatherings	Closure of schools	Closure of schools and cancellation of other mass gatherings that involve more than 30 people in a single location
Temperature screening	Only at border checkpoints	Only at border checkpoints
One-time fee to fund public health measures	S\$40	S\$15
Outcomes		
Expected number of infections	500 cases (1 in 10,000 people are infected)	1,000,000 cases (1 in 5 people are infected)
Expected number of infection-related deaths	0 deaths	120 deaths
Choice		
If these were your only two options, which would you choose?		

Table 3: Demographic characteristics of sample (n=500) and population. Sample racial groups are self-declared. Census racial groups accord with national registration.

	Sample percentage (95% confidence interval)	Census 2010 percentage
<b>Age</b>		
<40	36.2 (32.0–40.4)	39.9
40–49	26.4 (22.5–30.3)	22.2
50–59	19.6 (16.1–23.1)	19.3
60+	17.8 (14.4–21.2)	18.6
<b>Gender</b>		
Male	45.8 (41.4–50.2)	48.8
Female	54.2 (49.8–58.6)	51.2
<b>Education</b>		
Upper secondary school or lower	54.8 (50.4–59.2)	62.0
Polytechnic diploma or higher	45.2 (40.8–49.6)	38.0
<b>Racial group</b>		
Chinese	72.8 (68.9–76.7)	74.2
Indian	9.6 (7.0–12.2)	9.2
Malay	13.0 (10.1–15.9)	13.3
Other	4.6 (2.8–6.4)	3.3
<b>Employment status</b>		
Employed	65.0 (60.8–69.2)	64.6
Unemployed	3.2 (1.7–4.7)	2.0
Not in labor force	31.8 (27.7–35.9)	33.4
<b>Family status</b>		
Without children	42.4 (38.1–46.7)	44.0
With children	57.6 (53.3–61.9)	56.0

Table 4: Willingness to pay to move between options. The willingness to pay figures indicate the cash amount (in Singapore dollars, at 2013 prices S\$1≈US\$0.80) required to make respondents indifferent between two neighbouring attribute levels, with arrows representing the direction in which the individual would be willing to pay to move. For instance, participants would pay \$13 (as revealed by their choices) to move from a voluntary to a mandatory quarantine policy.

Attribute	Level	WTP (95% CrI)	Level
Quarantine of potential cases	Voluntary	\$15 (\$8, \$24) —————→	Mandatory
	Mandatory		
Isolation of actual cases	Voluntary	\$8 (\$1, \$16) —————→	Mandatory
	Mandatory		
Cancellation of mass gatherings	None	\$27 (\$14, \$48) —————→	School closure
	School closure		
Temperature screening	None	\$12 (\$2, \$26) —————→	At border
	At border		
Number of infections	200	N.S.	500
	500		
Number of deaths	200	\$15 (\$4, \$29) —————→	1 000
	1 000		10 000
	10 000	N.S.	1 000 000
	1 000 000	N.S.	
Number of deaths	0	\$34 (\$19, \$58) ←————	30
	30		80
	80	\$70 (\$45, \$112) ←————	120
	120		180
Number of deaths	0	\$71 (\$49, \$109) ←————	180
	180		
Number of deaths	0	\$98 (\$69, \$148) ←————	180
	180		

N.S. Not significant as S\$0 included in the 95% credible interval.

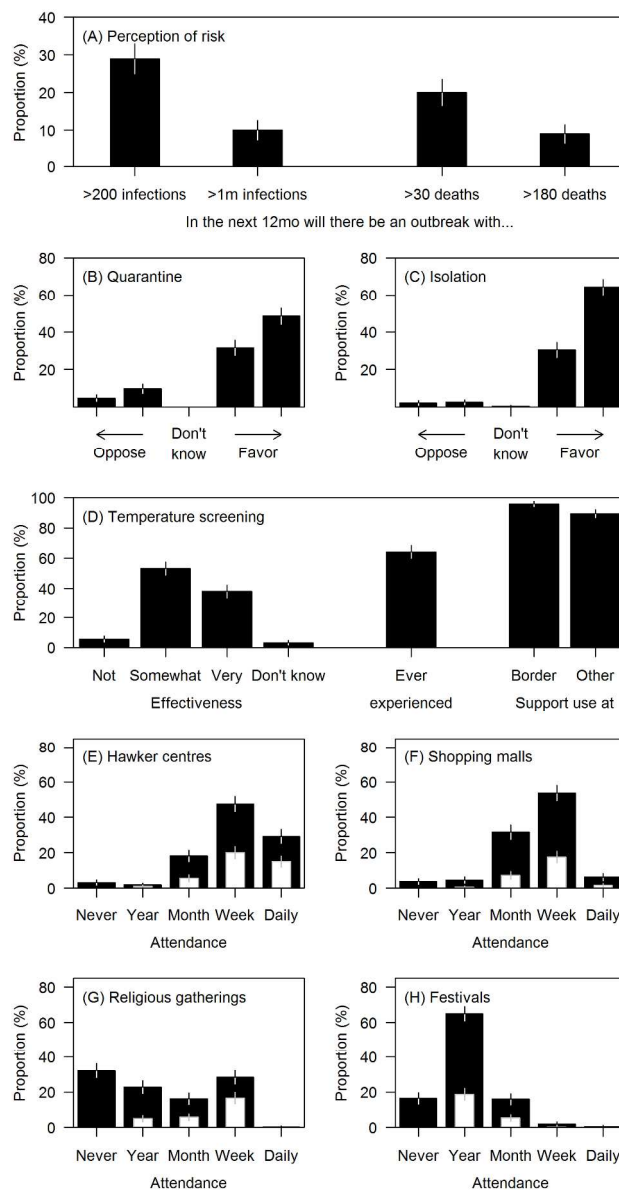


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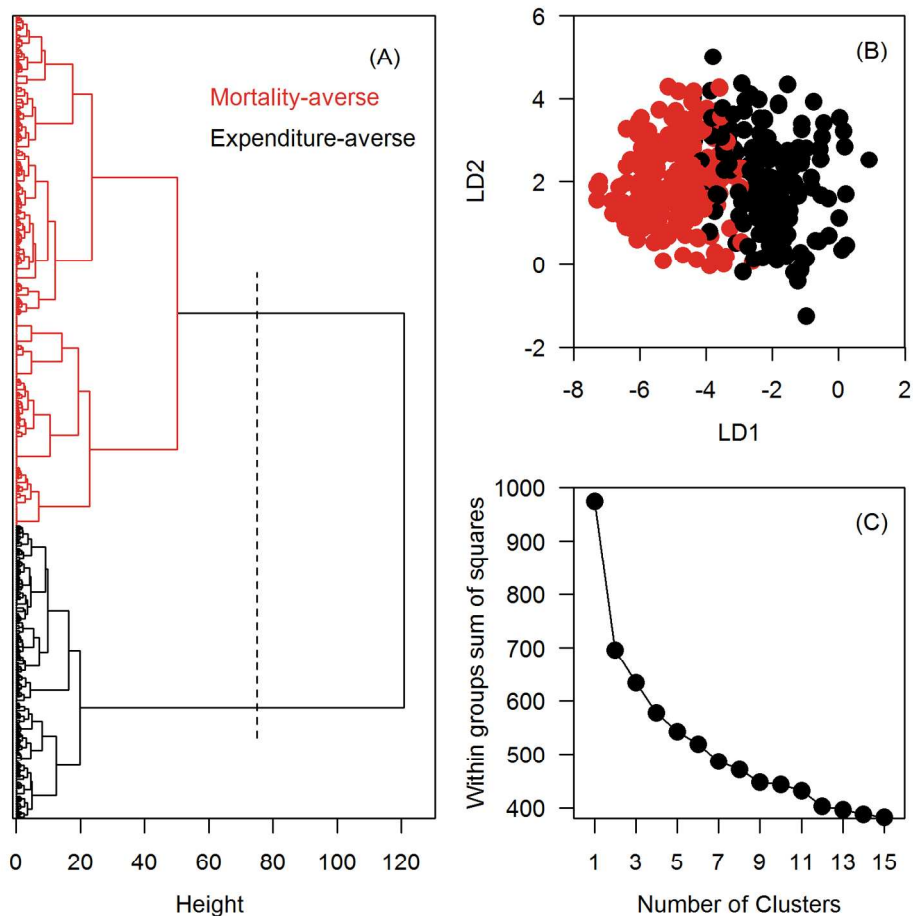


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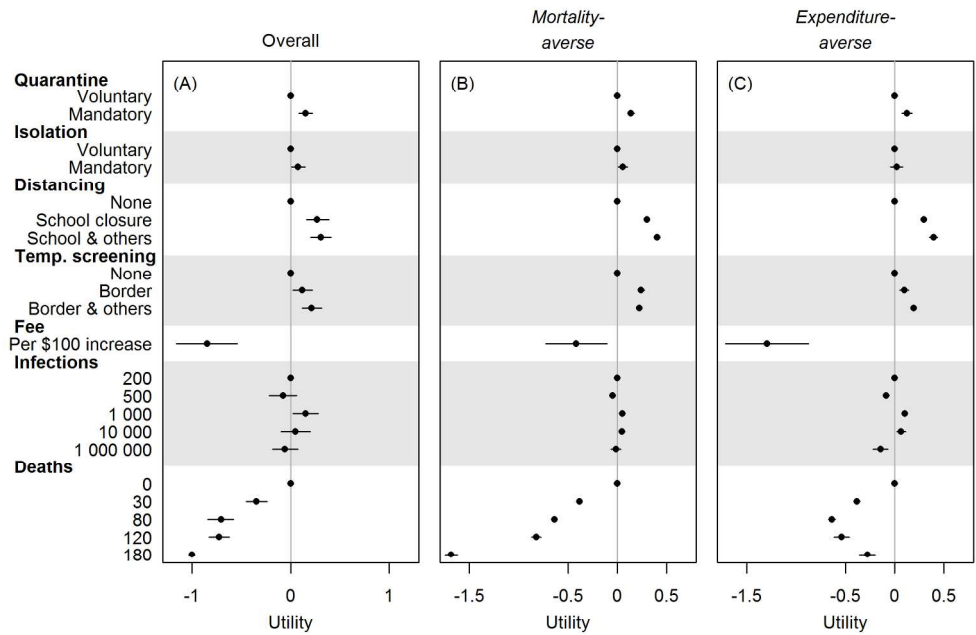


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3 **Title: Public preferences for interventions to prevent emerging infectious disease threats: a discrete**  
4 **choice experiment - supplementary material**  
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**Table S1: Utility estimates under main model, all participants. 95% CrI is the 95% equal-tailed credible interval. The utility for all unlisted levels are set to 0. For the all-participant, the utility for 180 deaths is anchored to -1. For mortality-averse and expenditure-averse results, 95% CI is the 95% equal-tailed confidence interval for the posterior mean utility.**

Attribute level	Posterior mean	95% CrI	Attribute level	Posterior mean	95% CrI
<b>All participants</b>					
Mandatory quarantine	0.15	(0.09,0.22)	500 infections	-0.08	(-0.22,0.06)
Mandatory isolation	0.08	(0.01,0.15)	1 000 infections	0.15	(0.02,0.28)
School closure	0.27	(0.16,0.39)	10 000 infections	0.05	(-0.10,0.20)
School closure and cancellation of other mass gatherings	0.31	(0.21,0.41)	1 million infections	-0.06	(-0.18,0.07)
Screening at border	0.12	(0.02,0.22)	30 deaths	-0.35	(-0.45,-0.24)
Screening at border and other sites	0.21	(0.12,0.32)	80 deaths	-0.71	(-0.84,-0.58)
Tax, per S\$100	-0.84	(-1.16,-0.54)	120 deaths	-0.72	(-0.83,-0.62)
Standard deviation	1.26	(0.95,1.68)	180 deaths	-1.00	(-1.00,-1.00)
<b>Mortality averse</b>					
Attribute level	Posterior mean	95% CI	Attribute level	Posterior mean	95% CI
Mandatory quarantine	0.14	(0.11, 0.17)	500 infections	-0.04	(-0.06, -0.03)
Mandatory isolation	0.06	(0.01, 0.11)	1 000 infections	0.05	(0.04, 0.07)
School closure	0.30	(0.29, 0.32)	10 000 infections	0.05	(0.02, 0.08)
School closure and cancellation of other mass gatherings	0.41	(0.38, 0.44)	1 million infections	-0.01	(-0.06, 0.04)
Screening at border	0.24	(0.21, 0.27)	30 deaths	-0.38	(-0.40,-0.36)
Screening at border and other sites	0.22	(0.21, 0.24)	80 deaths	-0.64	(-0.66,-0.61)
Tax, per S\$100	-0.41	(-0.73,0.10)	120 deaths	-0.82	(-0.87,-0.77)
			180 deaths	-1.68	(-1.75,-1.62)
<b>Expenditure averse</b>					
Mandatory quarantine	0.13	(0.07, 0.18)	500 infections	-0.08	(-0.11, -0.06)
Mandatory isolation	0.02	(-0.04,-0.09)	1 000 infections	0.10	(0.08, 0.13)
School closure	0.30	(0.27, 0.32)	10 000 infections	0.07	(0.02, 0.11)
School closure and cancellation of other mass gatherings	0.40	(0.35, 0.44)	1 million infections	-0.14	(-0.22, -0.07)
Screening at border	0.10	(0.06, 0.15)	30 deaths	-0.38	(-0.41, -0.35)
Screening at border and other sites	0.19	(0.17, 0.22)	80 deaths	-0.64	(-0.67, -0.60)
Tax, per S\$100	-1.29	(-1.72, 0.87)	120 deaths	-0.54	(-0.62, -0.46)
			180 deaths	-0.28	(-0.35, -0.20)

Table S2: Utility estimates under variant model, all participants and subgroups. 95% CrI is the 95% equal-tailed credible interval. The utility for all unlisted levels are set to 0. For the all-participant, the utility for 180 deaths is anchored to -1.

Attribute level	Posterior mean	95% CrI	Attribute level	Posterior mean	95% CrI
<b>All participants</b>					
Mandatory quarantine	0.16	(0.09,0.24)	500 infections	-0.05	(-0.19,0.10)
Mandatory isolation	0.10	(0.03,0.17)	1 000 infections	0.19	(0.04,0.35)
School closure	0.32	(0.19,0.47)	10 000 infections	0.12	(-0.05,0.33)
School closure and cancellation of other mass gatherings	0.29	(0.18,0.41)	1 million infections	0.02	(-0.12,0.18)
Screening at border	0.14	(0.04,0.25)	30 deaths	-0.38	(-0.49,-0.26)
Screening at border and other sites	0.18	(0.07,0.29)	80 deaths	-0.75	(-0.92,-0.60)
S\$20 tax	-0.22	(-0.39,-0.08)	120 deaths	-0.76	(-0.88,-0.65)
S\$30 tax	-0.28	(-0.39,-0.17)	180 deaths	-1.00	(-1.00,-1.00)
S\$50 tax	-0.34	(-0.47,-0.21)	Standard deviation	1.38	(1.00,1.93)

## CHEERS Checklist

## Items to include when reporting economic evaluations of health interventions

The ISPOR CHEERS Task Force Report, *Consolidated Health Economic Evaluation Reporting Standards (CHEERS)—Explanation and Elaboration: A Report of the ISPOR Health Economic Evaluations Publication Guidelines Good Reporting Practices Task Force*, provides examples and further discussion of the 24-item CHEERS Checklist and the CHEERS Statement. It may be accessed via the *Value in Health* or via the ISPOR Health Economic Evaluation Publication Guidelines – CHEERS: Good Reporting Practices webpage: <http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp>

Section/item	Item No	Recommendation	Reported on page No/line No
<b>Title and abstract</b>			
Title	1	Identify the study as an economic evaluation or use more specific terms such as “cost-effectiveness analysis”, and describe the interventions compared.	<u>page 1</u>
Abstract	2	Provide a structured summary of objectives, perspective, setting, methods (including study design and inputs), results (including base case and uncertainty analyses), and conclusions.	<u>page 2</u>
<b>Introduction</b>			
Background and objectives	3	Provide an explicit statement of the broader context for the study. Present the study question and its relevance for health policy or practice decisions.	<u>page 4-5</u>
<b>Methods</b>			
Target population and subgroups	4	Describe characteristics of the base case population and subgroups analysed, including why they were chosen.	<u>page 5</u>
Setting and location	5	State relevant aspects of the system(s) in which the decision(s) need(s) to be made.	<u>page 5</u>
Study perspective	6	Describe the perspective of the study and relate this to the costs being evaluated.	<u>page 6</u>
Comparators	7	Describe the interventions or strategies being compared and state why they were chosen.	<u>page 6-7</u>
Time horizon	8	State the time horizon(s) over which costs and consequences are being evaluated and say why appropriate.	<u>page 5</u>
Discount rate	9	Report the choice of discount rate(s) used for costs and outcomes and say why appropriate.	<u>NA</u>
Choice of health outcomes	10	Describe what outcomes were used as the measure(s) of benefit in the evaluation and their relevance for the type of analysis performed.	<u>page 6-7</u>
Measurement of effectiveness	11a	<i>Single study-based estimates:</i> Describe fully the design features of the single effectiveness study and why the single study was a sufficient source of clinical effectiveness data.	<u>NA</u>



## Consolidated Health Economic Evaluation Reporting Standards – CHEERS Checklist 2

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6		11b	<i>Synthesis-based estimates:</i> Describe fully the methods used for identification of included studies and synthesis of clinical effectiveness data.	<u>page 5-8</u>
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9	Measurement and	12	If applicable, describe the population and methods used to elicit preferences for outcomes.	<u>NA</u>
10	valuation of preference			
11	based outcomes			
12	Estimating resources	13a	<i>Single study-based economic evaluation:</i> Describe approaches used to estimate resource use associated with the alternative interventions. Describe primary or secondary research methods for valuing each resource item in terms of its unit cost. Describe any adjustments made to approximate to opportunity costs.	<u>NA</u>
13	and costs			
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19		13b	<i>Model-based economic evaluation:</i> Describe approaches and data sources used to estimate resource use associated with model health states. Describe primary or secondary research methods for valuing each resource item in terms of its unit cost. Describe any adjustments made to approximate to opportunity costs.	<u>page 7</u>
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26	Currency, price date,	14	Report the dates of the estimated resource quantities and unit costs. Describe methods for adjusting estimated unit costs to the year of reported costs if necessary. Describe methods for converting costs into a common currency base and the exchange rate.	<u>page 7-9</u>
27	and conversion			
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31	Choice of model	15	Describe and give reasons for the specific type of decision-analytical model used. Providing a figure to show model structure is strongly recommended.	<u>page 7-9</u>
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34	Assumptions	16	Describe all structural or other assumptions underpinning the decision-analytical model.	<u>page 7-9</u>
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37	Analytical methods	17	Describe all analytical methods supporting the evaluation. This could include methods for dealing with skewed, missing, or censored data; extrapolation methods; methods for pooling data; approaches to validate or make adjustments (such as half cycle corrections) to a model; and methods for handling population heterogeneity and uncertainty.	<u>page 7-9</u>
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43				<u>page 9-11</u>
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45	<b>Results</b>			
46	Study parameters	18	Report the values, ranges, references, and, if used, probability distributions for all parameters. Report reasons or sources for distributions used to represent uncertainty where appropriate. Providing a table to show the input values is strongly recommended.	<u>page 9-11</u>
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51	Incremental costs and	19	For each intervention, report mean values for the main categories of estimated costs and outcomes of interest, as well as mean differences between the comparator groups. If applicable, report incremental cost-effectiveness ratios.	<u>page 9-11</u>
52	outcomes			
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56	Characterising	20a	<i>Single study-based economic evaluation:</i> Describe the effects of sampling uncertainty for the estimated incremental cost and incremental effectiveness parameters, together with the impact	<u>page 9-11</u>
57	uncertainty			
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		of methodological assumptions (such as discount rate, study perspective).	<u>NA</u>
	20b	<i>Model-based economic evaluation</i> : Describe the effects on the results of uncertainty for all input parameters, and uncertainty related to the structure of the model and assumptions.	<u>page 10-11</u>
Characterising heterogeneity	21	If applicable, report differences in costs, outcomes, or cost-effectiveness that can be explained by variations between subgroups of patients with different baseline characteristics or other observed variability in effects that are not reducible by more information.	<u>page 11-13</u>
<b>Discussion</b>			
Study findings, limitations, generalisability, and current knowledge	22	Summarise key study findings and describe how they support the conclusions reached. Discuss limitations and the generalisability of the findings and how the findings fit with current knowledge.	<u>page 18</u>
<b>Other</b>			
Source of funding	23	Describe how the study was funded and the role of the funder in the identification, design, conduct, and reporting of the analysis. Describe other non-monetary sources of support.	<u>page 18</u>
Conflicts of interest	24	Describe any potential for conflict of interest of study contributors in accordance with journal policy. In the absence of a journal policy, we recommend authors comply with International Committee of Medical Journal Editors recommendations.	

For consistency, the CHEERS Statement checklist format is based on the format of the CONSORT statement checklist

The **ISPOR CHEERS Task Force Report** provides examples and further discussion of the 24-item CHEERS Checklist and the CHEERS Statement. It may be accessed via the *Value in Health* link or via the ISPOR Health Economic Evaluation Publication Guidelines – CHEERS: Good Reporting Practices webpage: <http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp>

The citation for the CHEERS Task Force Report is:

Husereau D, Drummond M, Petrou S, et al. Consolidated health economic evaluation reporting standards (CHEERS)—Explanation and elaboration: A report of the ISPOR health economic evaluations publication guidelines good reporting practices task force. *Value Health* 2013;16:231-50.



# BMJ Open

## Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment

Journal:	<i>BMJ Open</i>
Manuscript ID	bmjopen-2017-017355.R1
Article Type:	Research
Date Submitted by the Author:	05-Jul-2017
Complete List of Authors:	Cook, Alex; National University Singapore Singapore, Saw Swee Hock School of Public Health Zhao, Xiahong; National University of Singapore, Saw Swee Hock School of Public Health Chen, Mark I-Cheng; National University of Singapore, Saw Swee Hock School of Public Health Finkelstein, Eric; Duke-NUS Graduate Medical School, Health Services and Systems Research Program
<b>Primary Subject Heading</b>:	Health policy
Secondary Subject Heading:	Health policy, Health economics, Infectious diseases, Public health
Keywords:	Public health < INFECTIOUS DISEASES, Discrete choice experiment, Emerging infectious diseases, Interventions

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## Public preferences for interventions to prevent emerging infectious disease threats: a discrete choice experiment

Running title: Preferences for outbreak interventions

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### Key Words

Public health, discrete choice experiment, emerging infectious diseases, interventions

## Abstract

**Objective** When faced with an emergent epidemic with high mortality and morbidity potential, policy makers must decide what public health interventions to deploy at different stages of the outbreak. However, almost nothing is known about how the public view these interventions or how they trade off risks (of disease) with inconvenience (of interventions). In this paper, we aim to understand public perceptions on pandemic interventions, as well as to identify if there are any distinct respondent preference classes.

**Design** A discrete choice experiment.

**Setting** This study was fielded in Singapore between November 2012 and February 2013.

**Participants** A random sample of 500 Singapore residents aged 21 and over, including 271 women and 229 men, was analysed.

**Outcome measures** Demographic information was collected from each participant. Participants were also shown a series of pairs of alternatives, each combining interventions and morbidity, mortality and cost outcomes, and declared a preference for one combination. A random utility model was developed to determine the individual's preference for interventions and a hierarchical cluster analysis was performed to identify distinct respondent preference classes.

**Results** On average, participants preferred more intense interventions, and preferred scenarios with fewer deaths and lower tax. The number of infections did not significantly influence respondents' responses. We identified two broad classes of respondents: those who were mortality averse and those who were expenditure averse. Education was found to be a predictor of group membership.

**Conclusion** Overall, there was considerable support for government interventions to prevent or mitigate outbreaks of emerging infectious diseases, including those that greatly restricted individual liberties, as long as the restrictions showed a reasonable chance of reducing the adverse health effects of the outbreak.

(275 words)



## Strengths and limitations of this study

- This study conducts discrete choice experiments that allow strength of preferences for different pandemic preparedness interventions among the general public to be estimated.
- A hierarchical cluster analysis identifies key population subgroups that perceive the public health response differently from the general population.
- The study design and statistical methods proposed in this study can be easily adapted to other settings.
- The public reaction is unpredictable, and it may depend on the severity and symptoms of the disease.

## Introduction

The last decade has witnessed the emergence of several emerging infectious diseases, including the first influenza pandemic of the 21st century<sup>1</sup>, avian influenza A(H7N9) outbreaks<sup>2-4</sup>, a novel coronavirus (MERS-CoV) that emerged in Saudi Arabia<sup>5</sup> and spread around the Middle East and Western Pacific<sup>6,7</sup>, the Ebola crisis in Western Africa<sup>8</sup> and the Zika outbreak in the Americas and Asia<sup>9,10</sup>. When faced with such threats—the impact of which is hard to predict in advance, as witnessed in the very different impact of recent outbreaks (e.g. a quarter of a million deaths for influenza A(H1N1pdm)<sup>11</sup>, over 10 000 deaths during the 2014/5 Ebola crisis<sup>12</sup>, or around 600 deaths from MERS-CoV<sup>13</sup>)—policy makers worldwide have to decide which public health interventions to deploy should such an emerging infectious disease cause an outbreak in their territory. Following the emergence of the Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) in 2003<sup>14</sup>, and the ongoing transmission of avian influenza A(H5N1) in South East Asia<sup>15,16</sup> and China<sup>17</sup>, the WHO urged governments to develop pandemic preparedness plans<sup>18</sup> as it revised the International Health Regulations in 2005<sup>19</sup>. Details vary between countries<sup>20,21</sup>, and the influenza A(H1N1) pandemic of 2009 demonstrated clearly that willingness to respond also varied substantially between countries, with several Asian countries adopting more aggressive response policies<sup>22-24</sup> than the approach common in America and Europe, which could be described as being more proportionate to the severity of the epidemics that came to pass.

In the aftermath of the 2009 influenza pandemic, particularly severe criticism was voiced from some European quarters that health authorities and the WHO over-reacted in their response to the influenza A(H1N1) pandemic of 2009<sup>25</sup>. Others argued that the prior experiences with SARS-CoV and H5N1 justified a robust response to the influenza A(H1N1pdm09) pandemic in 2009<sup>22,23</sup>. For instance, in Singapore, where SARS-CoV caused 238 infections, 33 deaths, and reduced annual GDP by 1%<sup>26</sup>, there was a strong governmental response, with over 8,000 contacts of SARS-CoV cases quarantined<sup>27</sup>. Singapore's health authorities used similarly robust measures during the influenza pandemic in 2009, and initially mandated isolation of confirmed cases, quarantining of exposed individuals, and temperature screening in hospitals, public places and ports of entry<sup>28</sup>. This was in spite of the paucity of evidence that such measures would make any difference to the overall course of the pandemic.

Since public acceptance is vital for many outbreak response policies to have the intended effect, public health decision making must go beyond accurate assessments of the severity of a threat and what measures might be effective against it. It has to calibrate policy to the public's willingness to accept the trade-offs associated with a given response to the outbreak, and a framework is needed for assessing

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3 this while recognizing the diversity of views between and within populations as to what they value. This  
4 framework must be able to accommodate a diversity of scenarios on the key characteristics of the  
5 threat, and the suite of public health interventions available.  
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9 Public health policy makers have several constituencies, but chief among these is the populace on  
10 whose behalf they make decisions. Yet, while tolerance and potential impact of interventions can (and  
11 should be) be assessed through surveys<sup>29</sup>, when it comes to pandemic preparedness, it is remarkable  
12 how little is known about what interventions the general population actually wants their governments  
13 to undertake. This gap is especially noteworthy due to the considerable personal burden imposed by  
14 some interventions and the backlash against what some deemed excessive measures during the 2009  
15 influenza pandemic<sup>25,30</sup>.  
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18 To this end, we conducted a 'conjoint' discrete choice experiment to explore the Singapore public's  
19 willingness to accept certain containment and mitigation strategies under various outbreak scenarios,  
20 spanning a range of infection and fatality rates. Specifically we assess three broad questions: (i) How  
21 informed are the public about infectious disease outbreaks and the effectiveness of different  
22 interventions? (ii) How much do the public support interventions—quarantine, isolation of contacts,  
23 school closure and mass screening—that restrict civil liberties in an outbreak? (iii) How consistent are  
24 overall preferences for intervention policies throughout the population? Are there subgroups whose  
25 preferences are in opposition to the majority? We hypothesised that the population would be broadly  
26 supportive of interventions that restricted their civil liberties, but that they might be averse to monetary  
27 impacts of those interventions. Our work was motivated by the past vulnerability of Singapore to a  
28 diversity of emerging infectious disease threats such as Nipah virus in the 1990s<sup>31</sup>, to SARS-CoV in  
29 2003<sup>32</sup>, Chikungunya in 2008<sup>33</sup>, pandemic influenza A(H1N1pdm09) in 2009<sup>34</sup> and the Zika epidemic in  
30 2016<sup>35</sup>, and its perceived vulnerability to future threats, given its location at the centre of South East  
31 Asia where various highly pathogenic strains of avian influenza continue to spread, its role as a transport  
32 hub, its highly urbanized environment and its tropical climate, which permits year round transmission of  
33 many viruses<sup>36</sup>. These results are hence intended to allow policy makers to identify policies which will  
34 have high levels of public support and are hence expected to translate into high levels of compliance,  
35 while exemplifying a method that can be used to address the same questions in different settings.  
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## 54 **Methods**

### 55 **Fielding and sample**

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3 This survey was fielded in Singapore between November 2012 and February 2013 by a market research  
4 company contracted by the authors. The sampling frame was based on a list of households obtained  
5 from the Singapore national database of dwellings and continued until 500 responses with written  
6 informed consent were obtained, which required 1,196 households to be contacted (yielding an  
7 unadjusted response rate of 41.8%). Respondent eligibility could not be determined in 41 households.  
8 The remaining households were found to have at least one eligible respondent (citizen or permanent  
9 resident aged 21 and over). For those with multiple eligible respondents, one was randomly selected to  
10 take the survey. Trained interviewers administered the paper survey face-to-face in English, Malay,  
11 Mandarin or Tamil. Participants were guided through the discrete choice experiment by the interviewer.  
12 The study was approved by the National University of Singapore Institutional Review Board. All methods  
13 were performed in accordance with relevant guidelines and regulations.  
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### 23 **Survey structure**

24 The survey questioned respondents' travel habits, experience with two previous infectious disease  
25 outbreaks in Singapore (the 2009 influenza A(H1N1pdm09) pandemic and the 2003 SARS-CoV  
26 outbreaks), attitudes towards and knowledge of the effectiveness of interventions, and beliefs about the  
27 burden of infectious diseases in Singapore. Participants were also asked how frequently they attended  
28 various crowded public places and whether they would reduce such attendance in response to an  
29 outbreak. Socio-demographic questions were also included.  
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36 The core of the survey was a discrete choice experiment (DCE), which is a method often used to identify  
37 preferences for, importance of, and willingness-to-pay (WTP) for specific features of products that are  
38 composed of multiple features. In this case, we used it to elicit preferences for specific policy responses  
39 to an infectious disease outbreak, and report WTP as an easy to understand scale of support. Each policy  
40 scenario consists of a number of attributes (for example social distancing) and each attribute of a  
41 number of levels (for example, none, closure of schools, or closure of schools and cancellation of mass  
42 gatherings). Each participant was provided a series of ten pairs of hypothetical alternatives, and for each  
43 pair was asked to select one of the two options (with a combination of one level for each attribute) as  
44 being his or her preference. An example of a typical pair of options is provided in **Table 1**. Each pair  
45 contains the same attributes but different levels of each attribute; the attributes and levels used are  
46 found in **Table 2**.  
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55 The first four attributes include interventions which were used in Singapore and other countries at  
56 various points of the 2009 influenza pandemic, 2003 SARS outbreak, and in response to other emerging  
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3 outbreaks. The fifth assesses the tolerance to economic losses. The final two summarize the severity of  
4 the outbreak, in size (number of cases) and fatality rates.  
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8 Five of the seven attributes consisted of measures the government could take to restrict the spread of  
9 an emerging infectious disease. We excluded vaccination as a control measure due to the long lead time  
10 required to get a vaccine to market, which is six months for a reformulated influenza vaccine<sup>37</sup> but can  
11 be much longer (for dengue, for instance, it has taken decades<sup>38</sup>). The Singapore government, during the  
12 2009 influenza pandemic and 2003 SARS-CoV outbreaks, quarantined suspected cases and enforced the  
13 isolation of actual cases. Both of these measures were included as attributes with two levels for each:  
14 mandatory and voluntary. The cancellation of mass gatherings was also included as an attribute with  
15 levels ranging from no cancellations to the closure of schools and prohibition of other types of mass  
16 gatherings. Temperature screening using thermal scanners was used during both the two events in  
17 Singapore and was therefore also included with different levels indicating whether the screenings were  
18 to be conducted only at border checkpoints, at checkpoints and other sites within Singapore, or not at  
19 all. Finally, a monetary attribute was included which posited a hypothetical one-time tax to fund control  
20 efforts with the following values: S\$15, S\$20, S\$40 and S\$50 (in 2013 S\$1 ≈ US\$0.80). The two  
21 remaining attributes described the outcome of an infectious disease outbreak in terms of two metrics:  
22 the expected number of infections (five levels ranging from 200 to 1,000,000 cases) and the expected  
23 number of infection-related deaths (five levels; 0 – 180 deaths). Attributes and levels for the survey  
24 were determined through literature review, cognitive interviews, and piloting a draft instrument  
25 (n=50)<sup>39</sup> to span plausible ranges for emerging infectious disease outbreaks or pandemics.  
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40 Following standard practice in DCEs<sup>39</sup>, respondents saw a fractional DCE design that is statistically  
41 efficient, minimizes level overlap (where levels do not vary across competing options) and ensures level  
42 balance (each level appears approximately the same number of times)<sup>40</sup>. The design was produced using  
43 Sawtooth SSI Web v8-22 and included four versions, each version containing ten tasks. Individual level  
44 data are available in **Supplementary Data 1 and 2**.  
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## 49 **Analyses**

50 **Model overview:** The analysis uses a random utility model (RUM), which posits that respondents choose  
51 the option which provides them greater satisfaction/utility. By regressing respondent choices on the  
52 policy attributes and levels, we derived preference weights for each attribute-level, when all other  
53 attribute levels are held constant. The model assumes that the utility of a given scenario is a linear  
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3 combination of the utilities associated with each attribute of the scenario, from interventions to  
4 outcomes, plus Gaussian noise. In addition, a hierarchical model was developed in which individuals  
5 were allowed differing utilities, the output of which was used to cluster individuals into groups.  
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9 **Model formulation:** A single attribute  $a$  has  $L_a$  levels. A single set of policy/outcome options contains  $A$   
10 attributes in all, and so the information about the set is contained in the object  $(l_1, l_2, \dots, l_A)$ . To  
11 facilitate analysis, the information is reformulated as a vector of dummy variables,  $(x_1, x_2, \dots, x_K)$  where  
12  $K = \sum_{a=1}^A (L_a - 1)$  (1) is the total number of dummy variables, and where the dummy variables are  
13 coded 1 and 0 to indicate which levels are present for each attribute. One level per attribute is omitted  
14 to be treated as the baseline. We indicate sets via superscripts on the  $x$ s. The exception to this is the  
15 monetary variable which was left as a numerical value.  
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18 The average utility  $\mu_b$  over individuals in the population presented with a set of options  $b$  is modelled as  
19 a linear combination of utility components  
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$$\mu_b = \sum_{k=1}^K \beta_k x_k^b \quad (2)$$

22 where the  $\beta$ s capture the utility of each component. The utility experienced in the  $i$ th response is  
23 assumed to be  $u_{ib} \sim N(\mu_b, \sigma^2)$  (3). The respondent reports whether  $u_{i1} > u_{i2}$  or not. If we denote the  
24 difference between these utilities as  $\delta_i = u_{i1} - u_{i2}$  (4) then  $\delta_i \sim N(\mu_1 - \mu_2, 2\sigma^2)$  (5). We observe  $y_i$   
25 which is 1 if  $\delta_i > 0$  and 0 otherwise. The likelihood of the data therefore follows directly.  
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28 WTP for a given change in a policy scenario is the amount of cash (in this case a one-time tax) that  
29 would leave a respondent indifferent between paying (or receiving payment) for the attribute levels in a  
30 new scenario or remain with the original scenario. Although individuals cannot directly pay for public  
31 health interventions that apply to society as a whole, WTP serves as a useful gauge for strength of  
32 support for or against a policy measure. The WTP can be estimated by comparing the change in utility  
33 between the scenarios and the marginal utility of the tax attribute. The utility of tax was assumed to be  
34 linear, creating a single utility to money mapping that permitted the posterior distribution of  
35 willingness-to-pay (in units of one Singapore dollar) to be derived by taking the ratio of the other  $\beta$ s to  
36 the tax  $\beta$ .  
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39 **Subgroup analysis:** We then employed a hierarchical cluster analysis with Wald's method to identify  
40 distinct respondent preference classes. To account for the between individual variation, a hierarchical  
41 model was fitted. This model is similar as the original model, but the utility parameter  $\beta$  varies by  
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individual. The utility parameter,  $\beta_{ik}$ , for individual  $i$  attribute  $k$  was assigned a Normal prior, i.e.  $\beta_{ik} \sim N(\mu_k, \sigma_k^2)$  (6). Following parameter estimation (see next section), the Euclidean distance matrix used for cluster analysis was calculated from posterior mean utilities associated with each attribute and each individual. The number of latent classes was determined using the dendrogram from the cluster analysis, centroid plot from a two-group linear discriminant analysis, and elbow plot. Demographic predictors of class membership were then determined through logistic regression.

**Model fitting:** In the main model, flat prior distributions were assigned to each  $\beta_k$  and to  $\log \sigma$ . To ensure identifiability, one exception is made: the extreme level for one attribute (180 deaths) was set to  $-1$  so that all other utilities are relative to that. The choice of the variable to anchor the utility scale to was made on pilot runs. In the hierarchical model used for clustering, the hyperprior distributions for  $\mu_k$  and  $\sigma_k^2$  followed a normal distribution  $N(0, 10)$  and an inverse-gamma distribution with a shape of 0.1 and a scale of 0.1, respectively. The model was fit using the Rstan package<sup>41</sup> that used the Stan language<sup>42</sup> to sample from the posterior distribution for the parameters resulting from the model described above. This used a Hamiltonian Monte Carlo algorithm<sup>43</sup>. In total 500,000 draws with a thin of 5 iterations from the posterior were made, and convergence assessed visually. Analyses were done in R<sup>44</sup>.

**Variant model:** An alternative model was also constructed in which the linear tax variable was transformed using three dummy variables representing the tax effect of \$20, \$40 and \$50 compared with \$15. Similar results were obtained.

## Results

### Survey respondents

**Table 3** presents demographic characteristics for the 500 respondents and for a comparable population from the 2010 Singapore census. Although the age, gender, racial group, employment status and family status distributions are similar between the groups, the sample has a higher proportion of those educated to a polytechnic diploma level or higher (45.2% compared to 38.0% in census).

### Attitudes and knowledge

The fraction predicting there would be an infectious disease outbreak in Singapore infecting more than 200 people over the next 12 months was 29% (95%CI 25%–33%, see **Figure 1**); the estimate for an outbreak infecting more than a million people (i.e. around a fifth of the total population) was much

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3 lower (10%, 95%CI 7%–12%). Mortality estimates also varied, with 20% (95%CI 16%–23%) predicting it  
4 likely that there would be an outbreak which kills more than 30, and 9% (95%CI 6%–11%) predicting one  
5 which kills more than 180 people, in the next year.  
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9 When asked about each intervention in isolation, a large majority of respondents favoured a policy of  
10 quarantine for potentially infected contacts (83%, 95%CI 79%–86%, see **Figure 1**). Isolation for  
11 diagnosed cases of infection was favoured by an even larger proportion (95%, 95%CI 93%–97%). Most of  
12 the sample was also in favour of temperature screenings (though the proportion was higher for  
13 screenings conducted at the border than elsewhere: 95% [94%–98%] vs. 89% [87%–92%]). Temperature  
14 screening was thought to be somewhat or very effective by 91% (89–94%) and quarantine by 95% (94–  
15 97%).  
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22 On attendance at crowded events or venues, the venue most frequently attended by survey participants  
23 were hawker centres (naturally ventilated food courts), where 29% (95%CI 25%–33%) went daily, and  
24 48% (95%CI 43%–52%) went weekly. A substantial fraction (60%, 95%CI 56%–64%) reported going to  
25 shopping malls at least weekly, as opposed to 28% (95%CI 24%–32%) who reported going to religious  
26 gatherings and 3% (95%CI 2%–5%) to festivals. When asked whether they would limit attendance at  
27 mass gatherings in the event of an infectious disease outbreak, a significant proportion reported they  
28 would not: 58% (95%CI 50–67%) of those attending religious gatherings weekly and 51% (95%CI 43–  
29 59%) of daily hawker centre patrons stated they would not reduce the frequency of attendance.  
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### 37 **Overall preferences for interventions and willingness to pay**

38 **Figure 2A** presents utilities for the entire sample excluding 7 with missing responses (full regression  
39 results are included in the **supplementary materials**). In outbreaks with at least 200 cases (the scenarios  
40 proffered), the sample as a whole marginally preferred mandatory to voluntary quarantine and  
41 isolation. They also favoured the cancellation of all mass gatherings and temperature screenings at sites  
42 all around Singapore. The two certainties of life—death and taxes—were disfavoured, but respondents'  
43 preferences were not influenced by the number of infections.  
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50 **Table 4** shows how respondents valued, in monetary terms, different policy options or outcomes, based  
51 on their estimated WTP (parameter estimates [posterior means, 95% credible intervals] are presented in  
52 **Supplementary Table S1 and S2** for the models with and without linear terms for the tax attribute). In  
53 general, respondents preferred more intervention, rather than less, and were willing to accept a loss of  
54 S\$370 million at the societal level for the full set of interventions considered for implementation.  
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3 Participants indicated via their choices a willingness to accept (personal) costs of up to S\$34 (S\$19, S\$58)  
4 to prevent 30 deaths, S\$70 (S\$45, S\$112) to prevent 80, S\$71 (S\$49, S\$109) to prevent 120 and S\$98  
5 (\$\$69, S\$148) to prevent 180—at a national level, these imply a willingness to pay ~ S\$0.5M to S\$1M for  
6 each life saved. The value placed on a strong response (mandatory isolation and quarantine, cancelling  
7 all mass gatherings, and islandwide screening), S\$74, thus approximately corresponded to the value  
8 placed on preventing 100 deaths.  
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### 14 **Group preferences**

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16 The hierarchical cluster analysis determined that the sample included two subgroups, and based on the  
17 following results we labelled these groups *mortality-averse* and *expenditure-averse* (estimates in  
18 **Supplementary Table S1 and S2**). Cluster analysis results for these groups are shown in **Figure 3**, while  
19 utilities for the two groups are presented in **Figures 2B and 2C**. The mortality-averse group (n=317, 63%)  
20 was in favour of the actual deployment of interventions, whereas the expenditure-averse group (n=183,  
21 37%) expressed a strong disutility for a tax to cover the response and were ambivalent about mandatory  
22 isolation of confirmed cases. Both two groups, as expected, favoured a lower number of deaths, though  
23 the strength of preference varied substantially, with the mortality-averse group expressing a large  
24 disutility and the expenditure-averse a much smaller one. Neither group found reducing the number of  
25 infections important.  
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### 34 **Predictors of class membership**

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36 Those with post-secondary school education were more likely to belong to the *mortality-adverse* group  
37 than to belong to the *expenditure-averse* group (adjusted odds ratio: 1.71, 95% CI: 1.12 – 2.61). Other  
38 demographic variables were not predictive of class membership (see **Figure 4**).  
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### 42 **Discussion**

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44 Research on interventions to prevent or mitigate pandemics has assessed their effectiveness, using  
45 modelling<sup>45,46</sup> or empirical evidence<sup>47,48</sup>, on their indirect effects<sup>49,50</sup>, their economic impacts<sup>51,52</sup>, and the  
46 legal and ethical issues surrounding their use<sup>53</sup>. This paper presents what we believe to be one of the  
47 first studies to measure the preferences of members of the public for control policies that form part of  
48 established pandemic preparedness plans.  
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54 As in many countries, Singaporean law permits the government to curtail civil liberties in response to an  
55 infectious disease outbreak (in Singapore's case, under the Infectious Diseases Act), but the use of this  
56 power to isolate cases or quarantine potential cases requires careful weighting of the risk to others from  
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3 not acting versus the loss of liberty of the individual being isolated or quarantined<sup>53</sup>. Our survey found  
4 that most Singaporeans reported a high tolerance for interventions that curtail individual liberties,  
5 which may be related to their long-standing acceptance of a paternalistic streak in their government<sup>54</sup>.  
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7 Most participants supported the isolation of known cases and the quarantine of potential cases, both  
8 strategies that have been used in recent history in Singapore: in 2003 thousands of contacts of SARS-  
9 CoV cases were isolated or put under daily telephone surveillance<sup>27</sup>, while in the early period of the  
10 2009 epidemic, cases with confirmed influenza A(H1N1pdm09) infection and their household contacts  
11 were isolated at home, with foreigners detained in Government Quarantine Facilities<sup>55</sup>. While such  
12 popular support does not justify a policy of isolation or quarantine *per se*, it may facilitate the effective  
13 implementation of such a policy.  
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21 Overall, utilities of all participants were high for the more intense control measures, i.e. given the same  
22 number of infections and deaths, respondents reported preferring mandatory isolation, quarantine, and  
23 social distancing. It is not clear how effective social distancing measures would be in a mild outbreak,  
24 however, as many respondents reported that they would not voluntarily reduce how frequently they go  
25 out to eat or shop. It may be the implicit recognition of this that made the majority of participants  
26 recognize that isolation and quarantine should be mandatory rather than voluntary. Results reveal that  
27 the preferences of the population are not uniform; respondents could be broadly categorized into two  
28 groupings: one group (*mortality averse*) was strongly motivated to reduce the number of deaths and  
29 willing to accept interventions that did so, whereas another (*expenditure averse*, 37% of our  
30 respondents) was tax averse, and not in favour of any measures that might increase their taxes, even at  
31 levels comparable to the per capita costs of Singapore's routine dengue vector control program<sup>56</sup>.  
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41 Discrete-choice experiments can inform policy makers as to how much support there would be for  
42 potentially disruptive measures such as quarantine, isolation and school closures, and what kind of  
43 public health information might garner support from those otherwise not in favour. In Singapore, given  
44 our findings, this might involve stressing the necessity of such measures to reduce mortality, to co-opt  
45 the mortality-averse group, and to minimize the economic impact, to gain support from the sizeable tax-  
46 averse group. Studies such as this one can also identify misperceptions among the public that may  
47 hinder support for effective control. Two such examples surfaced in our study: (1) temperature  
48 screening island-wide received considerable support by our survey participants, although temperature  
49 screening at the country's main airport was estimated only to pick up around 1 imported case in 4 in  
50 2009<sup>28</sup>, and was increasingly ineffective as the infection became more widespread<sup>57</sup>, and (2) the  
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3 predicted risk of infectious disease outbreaks was considerably underestimated: 2013 saw ~ 20 000  
4 dengue infections in Singapore, but the mean forecast risk of an outbreak infecting at least 200 people  
5 was a mere 29%. Future studies might evaluate the effect of priming respondents with accurate public  
6 health information before eliciting their preferences. We included interventions that would be  
7 considered for use in response to an emerging infectious disease, and so did not consider vaccination  
8 given the lead time needed to develop a vaccine. For many vaccine-preventable infections, however,  
9 decisions about whether to be vaccinated are made by the individual, rather than by the government,  
10 and so alternative study designs might be better suited to determining features that lead to vaccine  
11 uptake and support, such as standard cross-sectional surveys<sup>58</sup>. Ethical issues regarding loss of liberty  
12 during an outbreak were not covered in our experiment, and should be explored in future studies,  
13 together with more contextual information on why policies were favoured or not<sup>59</sup>.  
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23 Beyond its direct application to Singapore, our work holds a wider relevance on how governments and  
24 global health authorities can use such methods to inform better management of epidemics and  
25 pandemics. It has been argued that, during the influenza pandemic in 2009, the failure of WHO and  
26 government health agencies was not so much in their assessment of the severity of the threat or what  
27 interventions might be effective against it, but in being able to effectively communicate the risk and the  
28 benefits of select mitigation strategies<sup>60,61</sup>. Prior assessment of population level preferences could help  
29 identify thresholds of epidemic severity which could serve as triggers for the implementation of more  
30 disruptive measures. In addition, information from such surveys could be used to explain the rationale  
31 for particular decisions, with hierarchical cluster analysis used to support the targeting of different  
32 messages to audiences with different values. Whereas surveys have been performed retrospectively to  
33 gauge support for government responses to specific circumstances like the SARS-CoV outbreaks in 2003  
34 and influenza pandemic in 2009<sup>62,63</sup>, our method is the first conjoint analysis that quantifies public  
35 support for government interventions over a realistic range of outbreak scenarios and parameters.  
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46 Singapore is a city state in the centre of South East Asia that has experienced several emerging  
47 infectious disease threats and where there is a general acceptance that some civil liberties be  
48 constrained for the overall public good<sup>54</sup>. Her people mostly originate in China, India and the Malay  
49 Archipelago, and, culturally and socially, Singapore has much in common with other countries in South,  
50 East, and South-East Asia. Our study may therefore shed light on attitudes towards response to  
51 infectious disease threats in Asia, a hotspot for emerging infectious diseases<sup>64</sup>. Future research should  
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3 extend the approach to African, American and European settings, where attitudes on the role the state  
4 should play in responding to public health threats may differ.  
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8 The current study does have limitations. The response rate was low (41.8%) and although there were no  
9 significant differences when compared to the population age, gender, race, employment or family data,  
10 those with higher education were over-represented in our sample. A further limitation is that the study  
11 design elicits the public's preferences and trade-offs between known interventions and known  
12 outcomes of those interventions. However, at an early stage of an outbreak of a novel pathogen, policy  
13 makers face grave uncertainty about the outcomes of interventions because the characteristics of the  
14 pathogen's transmission routes and potential, the severity and symptoms of the disease it causes, and  
15 the public reaction is unpredictable. As a result, the decisions policy makers must continue to be based  
16 on scientific advice and political imperatives. Surveys such as this one permit a better understanding of  
17 those political imperatives in emerging infectious disease outbreaks.  
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26 In conclusion, we report what we believe is the first discrete choice experiment to assess support for  
27 policies to control an emerging infectious disease outbreak, finding high levels of support among the  
28 Singaporean population for interventions that curtail individual liberties. Similar studies in other settings  
29 would be useful for public health decision makers.  
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### 30 31 32 **Author Contributions**

33 Conceived the study: ARC, MICC, EAF. Oversaw data collection: MAF, EAF. Performed analyses: ARC, XZ,  
34 MAF. Wrote the paper: ARC, XZ, MAF, MICC, EAF.

### 38 39 **Additional Information**

#### 40 41 **Competing Interests**

42  
43 The authors declare no conflicts of interest.

#### 44 45 **Funding**

46  
47  
48 The work was funded by Singapore's National Medical Research Council, grant NMRC/H1N1R/005/2009,  
49 the Ministry of Health, Singapore, grant CDPHRG/0009/2014, and the Centre for Infectious Disease  
50 Epidemiology and Research. The funders had no role in study design, data collection and analysis,  
51 decision to publish, or preparation of the manuscript.  
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**Availability of data**

All data analysed during this study are included in this published article (Supplementary data 1 and 2).

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## Figure captions

**Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in their effectiveness among 500 adult Singapore residents.** Whiskers represent 95% confidence intervals.

(A) Estimates of risk of large outbreaks over the next 12mo in Singapore. (B, C) Support for mandatory isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose, moderately oppose, moderately in favour, strongly in favour) is presented with stronger opinions to the left- and right-most extremes of the plot. (D) Belief in the effectiveness of, experience of, and support for the use of temperature screening. (E–H) Frequency of attendance at hawker centers (outdoor food courts), shopping malls (black), religious gatherings and festivals. Week/Month/Year stand for at least once a week/month/year. Within each frequency, the number reporting they would *not* reduce their attendance in the event of an outbreak is overlaid (white), excepting those who never attend such activities.

**Figure 2: Preference weights for policy scenario attributes, elicited by a discrete choice experiment.**

Overall (A) and in two subgroups (B, C) identified via hierarchical cluster analysis. Attribute levels with larger (positive) utilities are preferred to those with smaller (negative) utilities. The figure reflects estimated coefficients from the probit model, with the utilities for voluntary quarantine, voluntary isolation, no social distancing, no temperature screening, 200 infections and 0 deaths being set to 0. For panel (A), the utility for 180 deaths is set to  $-1$  for identifiability, all other utilities are therefore relative to it. Bars indicate 95% credible intervals. For panels (B, C), utilities are stratified posterior means from the Bayesian hierarchical model, and bars indicate 95% confidence intervals.

**Figure 3: Identification of distinct respondent preference classes among 500 adult Singapore residents using a hierarchical cluster analysis.** (A) A dendrogram of the hierarchical cluster analysis (Wald's method). The x-axis measures the closeness of either individual points or clusters. (B) A centroid plot

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11 **Figure 4: Demographics of participants classified as expenditure averse (imperial red) and mortality**  
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13 **averse (navy blue).** Whiskers indicate 95% confidence intervals. NILF = Not in the labor force.  
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## Tables

Table 1: A typical pair of sets of options. In this example, the individual selected scenario A over scenario B.

	Scenario A	Scenario B
Policy measures		
Quarantine of potential cases	Mandatory	Voluntary
Isolation of actual cases	Voluntary	Mandatory
Cancellation of mass gatherings	Closure of schools	Closure of schools and cancellation of other mass gatherings that involve more than 30 people in a single location
Temperature screening	Only at border checkpoints	Only at border checkpoints
One-time fee to fund public health measures	S\$40	S\$15
Outcomes		
Expected number of infections	500 cases (1 in 10,000 people are infected)	1,000,000 cases (1 in 5 people are infected)
Expected number of infection-related deaths	0 deaths	120 deaths
Choice		
If these were your only two options, which would you choose?	✓	

Table 2: Attributes and levels used in the discrete choice experiment. Each set of options contained one level for each attribute.

Attributes	Levels
Quarantine of potential cases	Voluntary / Mandatory
Isolation of actual cases	Voluntary / Mandatory
Cancellation of mass gatherings	None / Closure of schools / Closure of schools and cancellation of other mass gatherings that involve more than 30 people in a single location
Temperature screening	None / Only at border checkpoints / At border checkpoints and other sites within Singapore
One-time fee to fund public health measures	S\$15 / S\$20 / S\$40 / S\$50
Expected number of infections	200 cases (1 in 25,000 people are infected) / 500 cases (1 in 10,000 people are infected) / 1,000 cases (1 in 5,000 people are infected) / 10,000 cases (1 in 500 people are infected) / 1,000,000 cases (1 in 5 people are infected)
Expected number of infection-related deaths	0 deaths / 30 deaths / 80 deaths / 120 deaths / 180 deaths

Table 3: Demographic characteristics of sample (n=500) and population. Sample racial groups are self-declared. Census racial groups accord with national registration.

	Sample percentage (95% confidence interval)	Census 2010 percentage
<b>Age</b>		
<40	36.2 (32.0–40.4)	39.9
40–49	26.4 (22.5–30.3)	22.2
50–59	19.6 (16.1–23.1)	19.3
60+	17.8 (14.4–21.2)	18.6
<b>Gender</b>		
Male	45.8 (41.4–50.2)	48.8
Female	54.2 (49.8–58.6)	51.2
<b>Education</b>		
Upper secondary school or lower	54.8 (50.4–59.2)	62.0
Polytechnic diploma or higher	45.2 (40.8–49.6)	38.0
<b>Racial group</b>		
Chinese	72.8 (68.9–76.7)	74.2
Indian	9.6 (7.0–12.2)	9.2
Malay	13.0 (10.1–15.9)	13.3
Other	4.6 (2.8–6.4)	3.3
<b>Employment status</b>		
Employed	65.0 (60.8–69.2)	64.6
Unemployed	3.2 (1.7–4.7)	2.0
Not in labor force	31.8 (27.7–35.9)	33.4
<b>Family status</b>		
Without children	42.4 (38.1–46.7)	44.0
With children	57.6 (53.3–61.9)	56.0



Table 4: Willingness to pay to move between options. The willingness to pay figures indicate the cash amount (in Singapore dollars, at 2013 prices S\$1≈US\$0.80) required to make respondents indifferent between two neighbouring attribute levels, with arrows representing the direction in which the individual would be willing to pay to move. For instance, participants would pay \$13 (as revealed by their choices) to move from a voluntary to a mandatory quarantine policy.

Attribute	Level	WTP (95% CrI)	Level
Quarantine of potential cases	Voluntary	\$15 (\$8, \$24) —————→	Mandatory
Isolation of actual cases	Voluntary	\$8 (\$1, \$16) —————→	Mandatory
Cancellation of mass gatherings	None	\$27 (\$14, \$48) —————→	School closure
	None	\$30 (\$17, \$51) —————→	School closure and other mass gatherings
Temperature screening	None	\$12 (\$2, \$26) —————→	At border
	None	\$21 (\$11, \$36) —————→	At border and other sites
Number of infections	200	N.S.	500
	200	\$15 (\$4, \$29) —————→	1 000
	200	N.S.	10 000
	200	N.S.	1 000 000
Number of deaths	0	\$34 (\$19, \$58) ←————	30
	0	\$70 (\$45, \$112) ←————	80
	0	\$71 (\$49, \$109) ←————	120
	0	\$98 (\$69, \$148) ←————	180

N.S. Not significant as S\$0 included in the 95% credible interval.

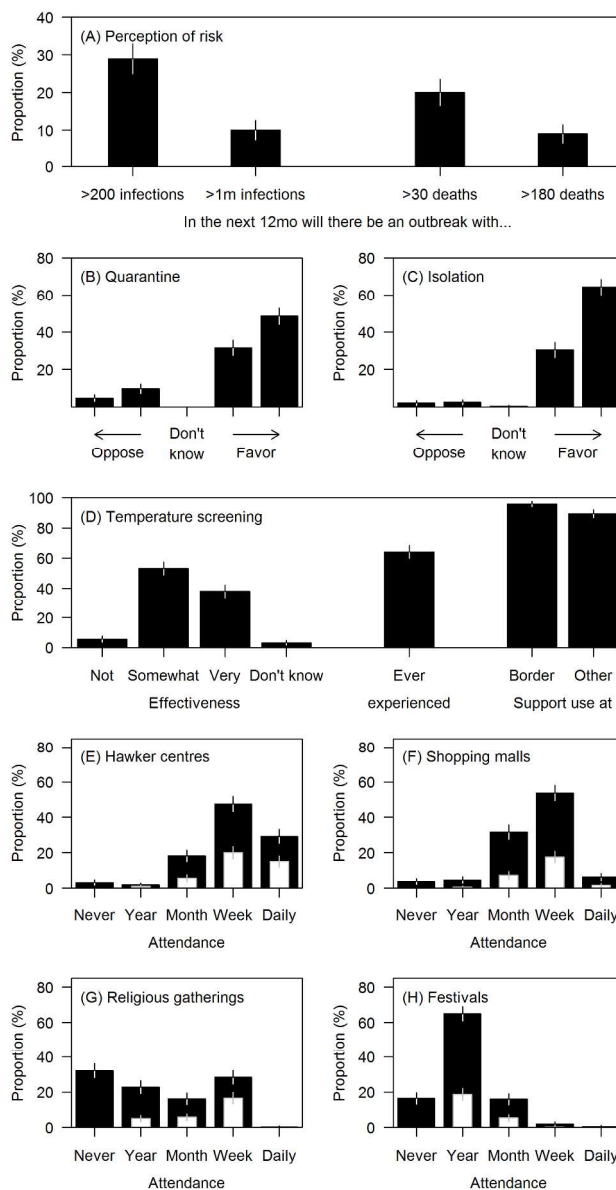


Figure 1: Risk perceptions, support for interventions during infectious disease outbreaks and belief in their effectiveness among 500 adult Singapore residents. Whiskers represent 95% confidence intervals. (A) Estimates of risk of large outbreaks over the next 12mo in Singapore. (B, C) Support for mandatory isolation and quarantine in the event of an outbreak. A four-point Likert scale (strongly oppose, moderately oppose, moderately in favour, strongly in favour) is presented with stronger opinions to the left- and right-most extremes of the plot. (D) Belief in the effectiveness of, experience of, and support for the use of temperature screening. (E–H) Frequency of attendance at hawker centers (outdoor food courts), shopping malls (black), religious gatherings and festivals. Week/Month/Year stand for at least once a week/month/year. Within each frequency, the number reporting they would not reduce their attendance in the event of an outbreak is overlaid (white), excepting those who never attend such activities.

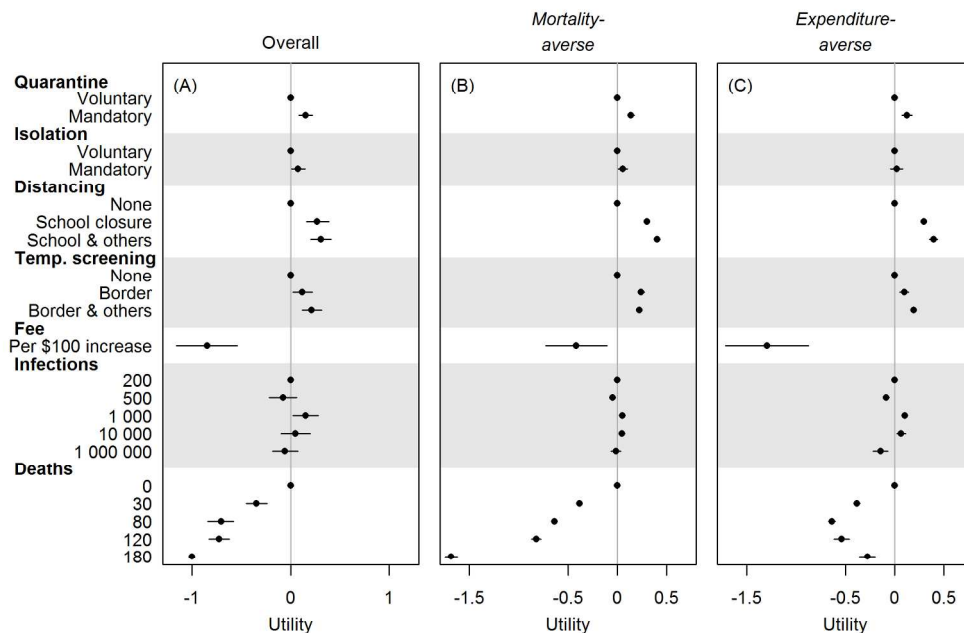


Figure 2: Preference weights for policy scenario attributes, elicited by a discrete choice experiment. Overall (A) and in two subgroups (B, C) identified via hierarchical cluster analysis. Attribute levels with larger (positive) utilities are preferred to those with smaller (negative) utilities. The figure reflects estimated coefficients from the probit model, with the utilities for voluntary quarantine, voluntary isolation, no social distancing, no temperature screening, 200 infections and 0 deaths being set to 0. For panel (A), the utility for 180 deaths is set to -1 for identifiability, all other utilities are therefore relative to it. Bars indicate 95% credible intervals. For panels (B, C), utilities are stratified posterior means from the Bayesian hierarchical model, and bars indicate 95% confidence intervals.

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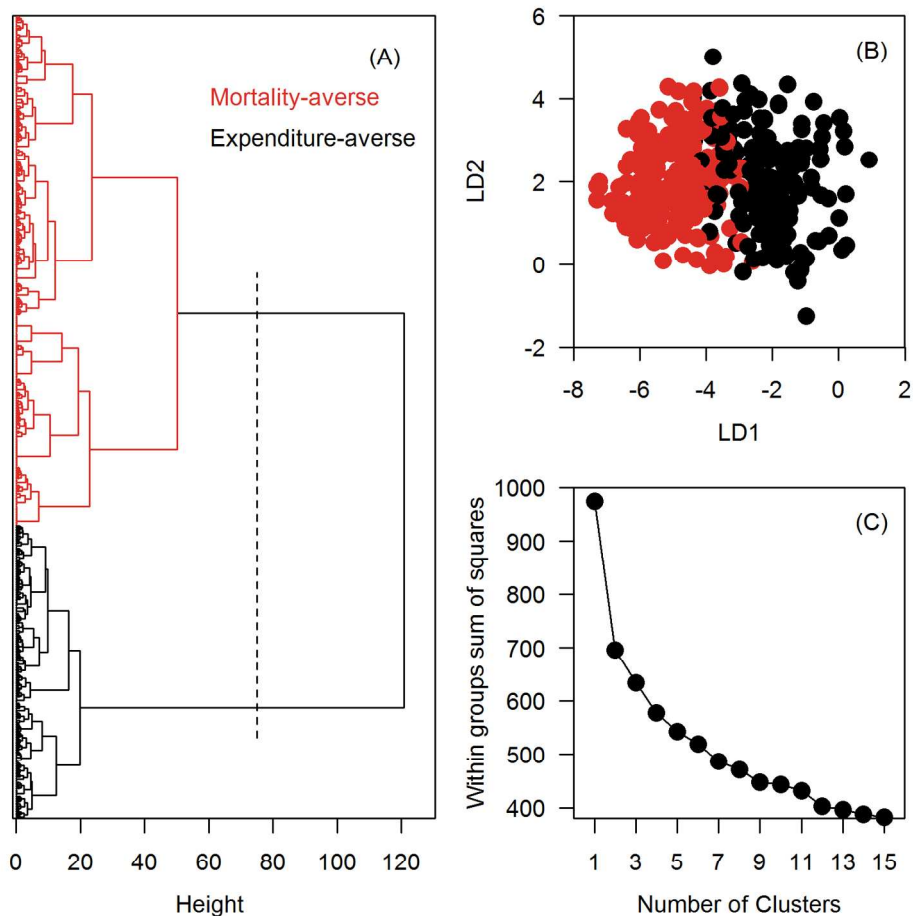


Figure 3: Identification of distinct respondent preference classes among 500 adult Singapore residents using a hierarchical cluster analysis. (A) A dendrogram of the hierarchical cluster analysis (Wald's method). The x-axis measures the closeness of either individual points or clusters. (B) A centroid plot shows the first (LD1, x-axis) versus the second discriminant function (LD2, y-axis) from a two-group linear discriminant analysis. (C) An elbow plot validates the number of clusters. The "elbow" on the line is at two clusters.

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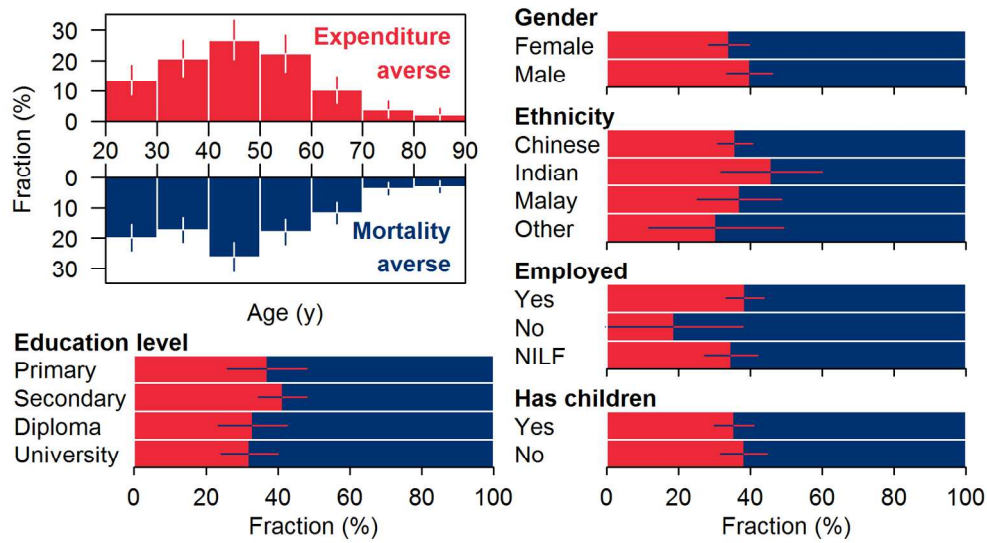


Figure 4: Demographics of participants classified as expenditure averse (imperial red) and mortality averse (navy blue). Whiskers indicate 95% confidence intervals. NILF = Not in the labor force.

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3 **Title: Public preferences for interventions to prevent emerging infectious disease threats: a discrete**  
4 **choice experiment - supplementary material**  
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**Table S1: Utility estimates under main model, all participants. 95% CrI is the 95% equal-tailed credible interval. The utility for all unlisted levels are set to 0. For the all-participant, the utility for 180 deaths is anchored to -1. For mortality-averse and expenditure-averse results, 95% CI is the 95% equal-tailed confidence interval for the posterior mean utility.**

Attribute level	Posterior mean	95% CrI	Attribute level	Posterior mean	95% CrI
<b>All participants</b>					
Mandatory quarantine	0.15	(0.09,0.22)	500 infections	-0.08	(-0.22,0.06)
Mandatory isolation	0.08	(0.01,0.15)	1 000 infections	0.15	(0.02,0.28)
School closure	0.27	(0.16,0.39)	10 000 infections	0.05	(-0.10,0.20)
School closure and cancellation of other mass gatherings	0.31	(0.21,0.41)	1 million infections	-0.06	(-0.18,0.07)
Screening at border	0.12	(0.02,0.22)	30 deaths	-0.35	(-0.45,-0.24)
Screening at border and other sites	0.21	(0.12,0.32)	80 deaths	-0.71	(-0.84,-0.58)
Tax, per S\$100	-0.84	(-1.16,-0.54)	120 deaths	-0.72	(-0.83,-0.62)
Standard deviation	1.26	(0.95,1.68)	180 deaths	-1.00	(-1.00,-1.00)
<b>Mortality averse</b>					
Attribute level	Posterior mean	95% CI	Attribute level	Posterior mean	95% CI
Mandatory quarantine	0.14	(0.11, 0.17)	500 infections	-0.04	(-0.06, -0.03)
Mandatory isolation	0.06	(0.01, 0.11)	1 000 infections	0.05	(0.04, 0.07)
School closure	0.30	(0.29, 0.32)	10 000 infections	0.05	(0.02, 0.08)
School closure and cancellation of other mass gatherings	0.41	(0.38, 0.44)	1 million infections	-0.01	(-0.06, 0.04)
Screening at border	0.24	(0.21, 0.27)	30 deaths	-0.38	(-0.40,-0.36)
Screening at border and other sites	0.22	(0.21, 0.24)	80 deaths	-0.64	(-0.66,-0.61)
Tax, per S\$100	-0.41	(-0.73,0.10)	120 deaths	-0.82	(-0.87,-0.77)
			180 deaths	-1.68	(-1.75,-1.62)
<b>Expenditure averse</b>					
Mandatory quarantine	0.13	(0.07, 0.18)	500 infections	-0.08	(-0.11, -0.06)
Mandatory isolation	0.02	(-0.04,-0.09)	1 000 infections	0.10	(0.08, 0.13)
School closure	0.30	(0.27, 0.32)	10 000 infections	0.07	(0.02, 0.11)
School closure and cancellation of other mass gatherings	0.40	(0.35, 0.44)	1 million infections	-0.14	(-0.22, -0.07)
Screening at border	0.10	(0.06, 0.15)	30 deaths	-0.38	(-0.41, -0.35)
Screening at border and other sites	0.19	(0.17, 0.22)	80 deaths	-0.64	(-0.67, -0.60)
Tax, per S\$100	-1.29	(-1.72, 0.87)	120 deaths	-0.54	(-0.62, -0.46)
			180 deaths	-0.28	(-0.35, -0.20)

Table S2: Utility estimates under variant model, all participants and subgroups. 95% CrI is the 95% equal-tailed credible interval. The utility for all unlisted levels are set to 0. For the all-participant, the utility for 180 deaths is anchored to -1.

Attribute level	Posterior mean	95% CrI	Attribute level	Posterior mean	95% CrI
<b>All participants</b>					
Mandatory quarantine	0.16	(0.09,0.24)	500 infections	-0.05	(-0.19,0.10)
Mandatory isolation	0.10	(0.03,0.17)	1 000 infections	0.19	(0.04,0.35)
School closure	0.32	(0.19,0.47)	10 000 infections	0.12	(-0.05,0.33)
School closure and cancellation of other mass gatherings	0.29	(0.18,0.41)	1 million infections	0.02	(-0.12,0.18)
Screening at border	0.14	(0.04,0.25)	30 deaths	-0.38	(-0.49,-0.26)
Screening at border and other sites	0.18	(0.07,0.29)	80 deaths	-0.75	(-0.92,-0.60)
S\$20 tax	-0.22	(-0.39,-0.08)	120 deaths	-0.76	(-0.88,-0.65)
S\$30 tax	-0.28	(-0.39,-0.17)	180 deaths	-1.00	(-1.00,-1.00)
S\$50 tax	-0.34	(-0.47,-0.21)	Standard deviation	1.38	(1.00,1.93)



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3 "CaseNo", "Age50", "Gender", "Education", "Race", "Employment", "WithChildren"  
4 166, FALSE, "Female", "low", "Chinese", "Not in labor force", TRUE  
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9 184, TRUE, "Male", "low", "Malay", "Employed", TRUE  
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11 156, FALSE, "Male", "low", "Chinese", "Employed", TRUE  
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17 157, TRUE, "Male", "high", "Other", "Not in labor force", FALSE  
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58 146, FALSE, "Female", "high", "Chinese", "Employed", FALSE  
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54 498, TRUE, "Male", "low", "Chinese", "Not in labor force", TRUE  
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59 429, TRUE, "Male", "low", "Malay", "Employed", TRUE  
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3 "CaseNo", "Quarantine.A", "Isolation.A", "NoMassGatherings.A", "TempScreening.A",  
4 "Tax.A", "Infections.A", "Deaths.A", "Quarantine.B", "Isolation.B", "NoMassGatheri  
5 ngs.B", "TempScreening.B", "Tax.B", "Infections.B", "Deaths.B", "Choice"  
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28 163,2,1,3,2,3,5,5,1,2,1,3,4,4,4, "Scenario B"  
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