CONSORT-EHEALTH Checklist V1.6.2 Report	Manuscript Number	28355
(based on CONSORT-EHEALTH V1.6), available at [http://tinyurl.com/consort-ehealth-v1-6].		
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3/9/2021 2:37:30		
by Yukio Suzuki		
Effect of a Brief Web-Based Educational Intervention on Willingness to Becaive the Human Danillomavirus Vaccine in Janan: A Bandomized Controlled		
TITLE 1a-i) Identify the mode of delivery in the title		
Effect of a Brief "Web-Based" Educational Intervention on Willingness to Receive the Human Papillomavirus Vaccine in Japan: A Randomized, Controlled		
Ta-ii) Non-web-based components or important co-interventions in title		
1a jii) Brimany condition or target group in the title		
The target was not specific disease.		
ABSTRACT 1b-i) Key features/functionalities/components of the intervention and comparator in the METHODS section of the ABSTRACT		
a brief educational intervention using scientific information presented in an easy-to-read format		
1b-ii) Level of human involvement in the METHODS section of the ABSTRACT We recruited 1,660 participants aged 20 years and older in March 2018 via a webpage and provided them "fully automated" with a 10-item guestionnaire		
related to the following aspects: awareness regarding HPV infection and vaccine, willingness for immunization, and actions for prevention.		
We recruited 1,660 participants aged 20 years and older in March 2018 via a webpage and provided them fully automated		
1b-iv) RESULTS section in abstract must contain use data We requited 1.660 participants		
Although only 21.2% of the respondents displayed a willingness toward immunization for their daughters, an additional 4.8% of the respondents in the		
Intervention group reported affirmatively (adjusted odds ratio [aUR]=1.32, 95% CI 1.04-1.69). 1b-v) CONCLUSIONS/DISCUSSION in abstract for negative trials		
2a-i) Problem and the type of system/solution		
This study aimed to assess the effects of these behavioral insights utilizing fundamental scientific information on vaccine benefits, along with statistics on cervical cancer		
2a-ii) Scientific background, rationale: What is known about the (type of) system		
Intervention used in this study is not a system but just a easy-to-read format. Does your paper address CONSORT subitem 2b?		
Vaccine awareness programs are necessary and campaigns through the media and social network services can play significant		
information. Therefore, it is critical to consider the influence of behavioral insights to promote change [12]. This broadly		
refers to concrete approaches based on the knowledge of behavioral science and economics. The Easy, Attractive, Social and Timely (EAST) principles are a simple way of applying behavioral insights to interventions and have been used to change human		
awareness and behavior [12]. This study aimed to assess the effects of these behavioral insights utilizing fundamental scientific information on vaccine benefits, along with statistics on cervical cancer.		
METHODS		
3a) CONSORT: Description of trial design (such as parallel, factorial) including allocation ratio We randomly assigned each participant to respond to an identical questionnaire after (Intervention group) or prior to (Control group) providing behavioral		
insights material (BI-material) using fundamental scientific information presented in an easy-to-read format (as displayed in Figures 1 and 2).		
Participants were randomly allocated (1:1) to each group. Intervention was performed using an automatic web-based allocation system stratified with sex		
(tentate/women, mate/men) and age (20s, 50s, 40s, 50s, and 60s) of the participants. Randomization was penormed by Macronnii, inclweb-research system.		
3b) CONSORT: Important changes to methods after trial commencement (such as eligibility criteria), with reasons		
3b-i) Bug fixes, Downtimes, Content Changes		
4a) CONSORT: Eligibility criteria for participants		
These were registered members of the research panel owned by Macromill, Inc. (Tokyo, Japan). The participants were 20 years old or above as on March		
4a-i) Computer / Internet literacy		
4a-ji) Onen vs. closed. web-based vs. face-to-face assessments:		
We recruited a total of 1,660 participants in March 2018 via a specially designed webpage for this study. These were registered members of the research		
panel owned by Macromili, Inc. (Tokyo, Japan). Our study was obviously closed.		
4a-iii) Information giving during recruitment Participants were randomly allocated (1:1) to each group after providing their consent		
4b) CONSORT: Settings and locations where the data were collected		
We recruited a total of 1,660 participants in March 2018 via a specially designed webpage for this study. These were registered members of the research panel owned by Macromill, Inc. (Tokyo, Japan).		
4b-i) Report if outcomes were (self-)assessed through online questionnaires		
4b-ii) Report how institutional affiliations are displayed		
5) CONSORT: Describe the interventions for each group with sufficient details to allow replication, including how and when they were actually		
administered		
5-i) Mention names, credential, affiliations of the developers, sponsors, and owners These were registered members of the research panel owned by Macromill, Inc. (Tokyo, Japan).		
5-ii) Describe the history/development process		
"Informational materials are designed primarily to increase effectiveness; they are based on a specific purpose rather than a template."		
5-iii) Revisions and updating This intervention material is the first edition		
5-iv) Quality assurance methods		
Our intervention material is designed primarily to increase effectiveness; they are based on a specific purpose rather than a template.		
The intervention method (BI-material) was designed by us, resulting in a moderate cost; therefore, this intervention is more reliable and cost-effective than those used in previous studies. The first author of this article (YS) is a core member of the behavioral design team in Yokohama, which was established as		
the first non-governmental nudge unit in Japan. Thus, this BI-material is reliable in view of the BI methodology.		
and or providing to the source coue, and/or providing screensnots/screen-capture video, and/or providing towcharts of the algorithms used		
We displayed the source and flowchart in the manuscript. 5-vi) Digital preservation		
This material is freely used as a material for the education in our department. However we have not provided yet in free access website.		
5-vii) Access Participants were registered members of the research panel owned by Macromill. Inc. (Tokyo, Japan).		
5-viii) Mode of delivery, features/functionalities/components of the intervention and comparator, and the theoretical framework		

Participants were registered members of the research panel owned by Macromill, Inc. (Tokyo, Japan). If this manuscript would be published, we will provide this material through our denartment website and through SNS.	
this material through our department website and through SNS	
5-ix) Describe use parameters	
Not applicable for our study.	
5-x) Clarify the level of human involvement	
This material was provided through web-site. There were no human involvement.	
5-xi) Report any prompts/reminders used	
Not applicable for our study.	
5-xii) Describe any co-interventions (incl. training/support)	
Not applicable for our study.	
In the intervention group, we provided the PL meterial prior to answering questions related to proventive superspace following consert for the online study.	
The control group, we provided the branching proto answering questions related to prevention groups, including object of the online study.	
There are little possibility existing any co-interventions.	
6a) CONSORT: Completely defined pre-specified primary and secondary outcome measures, including how and when they were assessed	
The primary outcome is the rate of willingness on the HPV vaccine for their daughters. The secondary outcome is the sub-analysis of sexes.	
6a-i) Online questionnaires: describe if they were validated for online use and apply CHERRIES items to describe how the questionnaires were	
designed/deployed	
Not applicable for our study.	
6a-ii) Describe whether and how "use" (including intensity of use/dosage) was defined/measured/monitored	
Not applicable for our study.	
6a-iii) Describe whether, how, and when qualitative feedback from participants was obtained	
Not applicable for our study.	
6b) CONSORT: Any changes to trial outcomes after the trial commenced, with reasons	
We recruited a total of 1,660 participants in March 2018 via a specially designed webpage for this study. These were registered members of the research	
panel owned by Macromill, Inc. (Tokyo, Japan).	
7a) CONSORT: How sample size was determined	
7a-i) Describe whether and how expected attrition was taken into account when calculating the sample size	
The sample size was calculated as powered 80% to detect a 10% effect in the intervention group (increased from 40% in the control to 50% in the	
Intervention group) with a two-sided p value of 0.05. P values less than 0.05 were regarded as significant. The hypothetical baseline willingness rate in the	
control group was determined based on our previous study. The sample size was calculated as 1/o when the effect of intervention estimated a 10% lighter of participants are utility of the adjusted the adjusted and a sample size because of the difficulty of adjusted the baseline of the difficulty of adjusted the baseline adjusted at the adjusted to a sample size because of the difficulty of adjusted to be baseline baseline adjusted to adjuste of the adjusted to adjuste adjusted to adjuste adjusted to a sample size baseline adjusted to adjuste adjuste adjusted to adjuste adjuste adjusted to adjuste adjuste adjusted to adjuste	
The intervention effect	
Th) CONSORT When applicable explanation of any interim analyses and stopping guidelines	
The primary outcome is the rate of willingness on the HVV varcine for their doubter. The scenario outcome is the auto subject of saves	
The primary outcome is the factor winningness on the first visualities on their addigiters. The secondary outcome is the sub-analysis of sexes. Ray CONSORT: Mathod used to generate the random allocation sequences.	
bay consistent were readenly allocated (1.1) to pack around a requestion to consent. Intervention was performed using an automatic web based allocation.	
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Macromill, Inc web-research system. Participants and investigators were blinded to the distribution (double-blinded). Once the upper limit of each stratum	
was reached, new participants could not be added to the web system. This ensured uniform distribution of the stratification factors. In the intervention	
group, we provided the BI-material prior to answering questions related to preventive awareness, following consent for the online study. The control group	
was provided with the same material as that provided to the intervention group after all responses were completed.	
8b) CONSORT: Type of randomisation; details of any restriction (such as blocking and block size)	
Participants were randomly allocated (1:1) to each group after providing their consent. Intervention was performed using an automatic web-based allocation	
system stratified with sex (female/women, male/men) and age (20s, 30s, 40s, 50s, and 60s) of the participants. Randomization was performed by	
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b) CONSORT: Mechanism used to implement the random allocation geoplence (such as sequentially numbered containers), describing any steps -	
taken to conceal the sequence until interventions were assigned	
Not applicable for our study.	
10) CONSORT: Who generated the random allocation sequence, who enrolled participants, and who assigned participants to interventions	
Randomization was performed by Macromill Inc web-research system.	
11a) CONSORT: Blinding - If done, who was blinded after assignment to interventions (for example, participants, care providers, those assessing	
outcomes) and how	
11a-i) Specify who was blinded, and who wasn't	
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Only 21.2% of the respondents displayed a favorable attitude toward HPV immunization for their daughters (Q6). However, an additional 40 (4.8%) participants responded affirmatively in the intervention group (aOR=1.32, 95% CI=1.04-1.69) compared to those in the control group (Table 2). For Q7, there were additional 33 (3.9%) satisfied respondents willing for their sons' vaccination in the intervention group (aOR=1.38, 95% CI=1.05-1.80) compared to those in the control group (Table 2). For Q7, to those in the control group (Table 2).	
Table Trace control group (rate 2).	
Not applicable for our study	
Not applicable for our study.	
The construction of binary butcomes, presentation of both absolute and relative energy is recommended. Only $(4, 9)$	
participants respondents displayed a favorable attribute toward PPV imminization for their daugnets (td). However, an additional 40 (4.5%) participants responded affirmatively in the intervention group (aOR=1.32, 95% Cl=1.04-1.69) compared to those in the control group (Table 2). For Q7, there were additional 33 (3.9%) satisfied respondents willing for their sons' vaccination in the intervention group (aOR=1.38, 95% Cl=1.05-1.80) compared to those in the control group (Table 2).	
18) CONSORT: Results of any other analyses performed, including subgroup analyses and adjusted analyses, distinguishing pre-specified from exploratory	
Differences were identified in Q6 (Men; aOR=1.46, 95% CI=1.05-2.02 vs Women; aOR=1.20, 95% CI=0.83-1.73) and Q7 (Men; aOR=1.53, 95% CI=1.08- 2.18 vs Women; aOR=1.21, 95% CI=0.80-1.83). The awareness in men showed a significant positive change (by 8.2%, P=0.02, Supplement 1) upon intervention by fundamental scientific information; however, this was not observed in women (P=0.22, Table 3, Supplement 2).	
There were no additional analysis other than planned analysis.	
18-1) Subgroup analysis of comparing only users	
Not applicable for our study.	
19) CONSORT: All important harms or unintended effects in each group	
Not applicable for our study.	
19-i) Include privacy breaches, technical problems	
Not applicable for our study.	
19-ii) Include qualitative feedback from participants or observations from staff/researchers	
Not applicable for our study.	
DISCUSSION	
20) CONSORT: Trial limitations, addressing sources of potential bias, imprecision, multiplicity of analyses	
20-i) Typical limitations in ehealth trials	
Third, selection bias existed as the respondents were Japanese enrolled by an internet survey company.	
21) CONSORT: Generalisability (external validity, applicability) of the trial findings	
21-i) Generalizability to other populations	
Our study reveals a positive outlook towards the HPV vaccination following brief, web-based educational intervention, especially among male participants.	
Such an approach is extremely effective to overcome challenges related to communication and information overload.	
21-ii) Discuss if there were elements in the RCT that would be different in a routine application setting	
Not applicable for our study.	
22) CONSORT: Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence	
22-i) Restate study questions and summarize the answers suggested by the data, starting with primary outcomes and process outcomes (use)	
We conducted a web-based randomized controlled trial (RCT) to assess the benefits of BI-material employing fundamental scientific information and	
motivate individuals to take the HPV vaccine. Our results showed that providing brief scientific information could increase the positive awareness of HPV vaccination. This effect was observed twoically among male participants. Similar minor interventions may potentially modify mindsets favorably. However,	
such brief digital information failed to affect the mindset in women. In terms of the coronavirus disease (COVID-19) pandemic, a difference in awareness of	
prevention strategies was observed between the sexes; therefore, it is essential to build a method appropriate for sex subgroups to transform general	
behavior via the internet and social networking service (SNS).	
22-ii) Highlight unanswered new questions, suggest future research	
We recognize several limitations in this study. First, the sustainability of effective change was not evaluated. Typically, with respect to health issues, taking action requires time. Therefore, a study should assess not only a change in mindset but also the appropriate course of action. We have already performed a RCT (UMIN000039273) assessing the sustainability of general acceptance and concrete behavior for HPV vaccination.	
Other information	
23) CONSORT: Registration number and name of trial registry	
Ork, https://www.unin.ac.jp/engiisi/	
24) CONSOR I: Where the full that protocol can be accessed, if available	
Not applicable for our study.	
25) CONSORT: Sources of funding and other support (such as supply of drugs), role of funders	
we received research funding from the Japan Agency for Medical Research and Development (grant no. 15ck0106103h0102).	
X26-I) Comment on etnics committee approval	
The study protocol was approved by the Institutional Research Ethics Committee of Yokohama City University School of Medicine (A180200004). The trial registration number is UMIN000049745.	
x26-ii) Outline informed consent procedures	
In the intervention group, we provided the BI-material prior to answering questions related to preventive awareness, following consent for the online study.	
The control group was provided with the same material as that provided to the intervention group after all responses were completed.	
X26-iii) Safety and security procedures	
Not applicable for our study.	
X27-i) State the relation of the study team towards the system being evaluated	
We have no COI between study team and the survey company.	