Checklist for Reporting Results of Internet E-Surveys (CHERRIES)

Item Category	Checklist Item	Explanation	
Design	Describe survey design		Methods / study design and participants sections page 3
IRB (Institutional Review Board) approval and informed consent process	IRB approval	Mention whether the study has been approved by an IRB.	Methods / study design section page 3
	Informed consent	Describe the informed consent process. Where were the participants told the length of time of the survey, which data were stored and where and for how long, who the investigator was, and the purpose of the study?	Methods / study design section page 3
	Data protection	If any personal information was collected or stored, describe what mechanisms were used to protect unauthorized access.	
Development and pre-testing	Development and testing	State how the survey was developed, including whether the usability and technical functionality of the electronic questionnaire had been tested before fielding the questionnaire.	Methods / data collection section page 4
Recruitment process and description of the sample having access to the questionnaire	Open survey versus closed survey	An "open survey" is a survey open for each visitor of a site, while a closed survey is only open to a sample which the investigator knows (password-protected survey).	Methods section page 3 - 4
	Contact mode	Indicate whether or not the initial contact with the potential participants was made on the Internet. (Investigators may also send out questionnaires by mail and allow for Webbased data entry.)	

	Advertising the survey	How/where was the survey announced or advertised? Some examples are offline media (newspapers), or online (mailing lists – If yes, which ones?) or banner ads (Where were these banner ads posted and what did they look like?). It is important to know the wording of the announcement as it will heavily influence who chooses to participate. Ideally the survey announcement should be published as an appendix.	
Survey administration	Web/E-mail	State the type of e-survey (eg, one posted on a Web site, or one sent out through e-mail). If it is an e-mail survey, were the responses entered manually into a database, or was there an automatic method for capturing responses?	Methods section page 3 - 4
	Context	Describe the Web site (for mailing list/newsgroup) in which the survey was posted. What is the Web site about, who is visiting it, what are visitors normally looking for? Discuss to what degree the content of the Web site could pre-select the sample or influence the results. For example, a survey about vaccination on a anti-immunization Web site will have different results from a Web survey conducted on a government Web site	
	Mandatory/voluntary	Was it a mandatory survey to be filled in by every visitor who wanted to enter the Web site, or was it a voluntary survey?	

Incentives	Were any incentives offered (eg, monetary,	
	prizes, or non-monetary incentives such as an	
	offer to provide the survey results)?	
Time/Date		Methods / study design section page 3 and data
	In what timeframe were the data collected?	collection section page 4
Randomization of items of	or	
questionnaires	To prevent biases items can be randomized or alternated.	
	Use adaptive questioning (certain items, or only conditionally displayed based	
Adaptive questioning	on responses to other items) to reduce number and complexity of the questions.	
Number of Items	What was the number of questionnaire items per page? The number of items is an important factor for the completion rate.	
Number of items	an important factor for the completion rate.	
	Over how many pages was the questionnaire distributed? The number of items	
Number of screens (page	is an important factor for the completion rate.	
	It is technically possible to do consistency or completeness checks before the	
	questionnaire is submitted. Was this done, and if "yes", how (usually	
	JAVAScript)? An alternative is to check for completeness after the questionnaire	
	has been submitted (and highlight mandatory items). If this has been done, it	
	should be reported. All items should provide a	
	non-response option such as "not	
Completeness check	applicable" or "rather not say", and selection of one response option should be	

		enforced.	
		State whether respondents were able to review	
		and change their answers (eg, through a Back	
		button or a Review step which displays a	
		summary of the responses and asks the	
	Review step	respondents if they are correct	
		If you provide view rates or participation rates,	Results section page 6
		you need to define how you determined a unique	
		visitor. There are different techniques available,	
Response rates	Unique site visitor	based on IP addresses or cookies or both.	
		Requires counting unique visitors to the first	
		page of the survey, divided by the number of	
	View rate (Ratio of unique	unique site visitors (not page views!). It is not	
	survey visitors/unique site	unusual to have view rates of less than 0.1 % if	
	visitors)	the survey is voluntary.	
		Count the unique number of people who filled in	
		the first survey page (or agreed to participate,	
	Participation rate (Ratio of	for example by checking a checkbox), divided	
	unique visitors who agreed	by visitors who visit the first page of the survey	
	to participate/unique first	(or the informed consents page, if present). This	
	survey page visitors)	can also be called "recruitment" rate.	
		The number of people submitting the last	
		questionnaire page, divided by the number of	
		people who agreed to participate (or submitted	
		the first survey page). This is only relevant if	
		there is a separate "informed consent" page or	
		if the survey goes over several pages. This is a	
		measure for attrition. Note that "completion"	
		can involve leaving questionnaire items blank.	
	Completion rate (Ratio of	This is not a measure for how completely	
	users who finished the	questionnaires were filled in. (If you need a	
	survey/users who agreed to	measure for this, use the word "completeness	
	participate)	rate".)	

	Registration	it in, or was the username stored together with the survey results and later eliminated? If the	
		displayed a second time once the user had filled	
		was done. For example, was the survey never	
		entries from the same user. Describe how this	
		login first and it is easier to prevent duplicate	
		In "closed" (non-open) surveys, users need to	Methods/data collection section page 4
	Log file analysis	were used. If so, please describe.	
		the log file for identification of multiple entries	
		Indicate whether other techniques to analyze	
	IP check	recent)?	
		for analysis (eg, the first entry or the most	
		analysis? If the latter, which entries were kept	
		within a given period of time eliminated before	
		database entries having the same IP address	
		access to the survey twice; or were duplicate	
		by preventing users with the same IP address	
		(eg, 24 hours). Were duplicate entries avoided	
		entries from the same IP address were allowed	
		mention the period of time for which no two	
		duplicate entries from the same user. If so,	
		computer was used to identify potential	
	COOKICS USCU	Indicate whether the IP address of the client	
inom the same marvidual	Cookies used	entry or the most recent)?	
Preventing multiple entries from the same individual		which entries were kept for analysis (eg, the first	
Drayanting multiple antrice		duplicate database entries having the same user ID eliminated before analysis? In the latter case,	
		users access to the survey twice; or were	
		Were duplicate entries avoided by preventing	
		set and read, and how long the cookie was valid.	
		so, mention the page on which the cookie was	
		unique user identifier to each client computer. If	
		Indicate whether cookies were used to assign a	

		latter, which entries were kept for analysis (eg,	
		the first entry or the most recent)?	
		Were only completed questionnaires analyzed?	Methods/statistical methods section page 5
		Were questionnaires which terminated early	
	Handling of incomplete	(where, for example, users did not go through	
Analysis	questionnaires	all questionnaire pages) also analyzed?	
		Some investigators may measure the time	
		people needed to fill in a questionnaire and	
		exclude questionnaires that were submitted too	
		soon. Specify the timeframe that was used as a	
	Questionnaires submitted	cut-off point, and describe how this point was	
	with an atypical timestamp	determined.	
		Indicate whether any methods such as	
		weighting of items or propensity scores have	
		been used to adjust for the non-representative	
	Statistical correction	sample; if so, please describe the methods.	

Reference:

Eysenbach G Improving the Quality of Web Surveys: The Checklist for Reporting Results of Internet E-Surveys (CHERRIES) J Med Internet Res 2004;6(3):e34 URL: http://www.jmir.org/2004/3/e34/doi:10.2196/jmir.6.3.e34 PMID:15471760