Checklist for Reporting Results of Internet E-Surveys (CHERRIES) [1]	
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Item Category Checklist Item	Methodological pilot study
Design	
Describe survey design	<ul> <li>The methodological pilot study used a sample of children and adolescents registered in the local resident registries of twenty municipalities in five federal states of Germany, covering urban and rural areas as well as the eastern and western regions of the country.</li> <li>As shown in Figure 1, a gross sample of 11,140 was randomly allocated to four survey designs:</li> <li>(1) a single-mode survey design as a control group, where only paper-and-pencil questionnaires were sent to the respondents together with the invitation letter, followed by a reminder after three weeks,</li> <li>(2) a sequential mixed-mode survey design, where an online access code was sent along with the invitation letter, followed three weeks later with a reminder letter and a paper-based questionnaire;</li> <li>(3) a concurrent mixed-mode survey design, where a paper-based questionnaire and an online access code were sent to participants together with an invitation letter. (A long version of the questionnaire was tested among a subgroup of the concurrent mixed-mode design, but this subgroup is excluded from the present study);</li> <li>(4) a pre-select mixed-mode design, where only the invitation was sent to the participants together with a postcard asking them to choose one of two options (SAQ-Web or SAQ-Paper), followed by a reminder with the same offer.</li> </ul>
IRB (Institutional Review Board) ap	proval and informed consent process
IRB approval	For the methodological pilot study, we received a vote in favor by the Federal Commissioner for Data Protection
	and Freedom of Information. (Reference: III-401/008#0010). A vote by the IRB was for a health interview survey was upon consultation not necessary.
Informed consent and data protection	The methodological study was conducted by the German Public Health Institute (Robert-Koch Institute, RKI) from August to December 2013 as a part of the pretest of the third wave of the "German Health Interview and

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	·	<ul> <li>Examination Survey for Children and Adolescents" (KiGGS).</li> <li>The methodological pilot study as a part of the pretest of KiGGS wave 2aimed to compare three mixed-mode survey designs using web and paper-based questionnaires with a single-mode SAQ-Paper design in terms of response rates, sample composition, data quality, and costs. The pilot study also aimed to explore whether estimates of health indicators differed among the survey designs and data collection modes.</li> <li>As all of the RKI's surveys the methodological pilotstudy strictly observe the data protection regulations set out in the German Federal Data Protection Act. Participation in the study was voluntary. All parents and participating adolescents were informed about the study's aims and content, as well as data protection, and provided their informed consent.</li> </ul>
Development a	nd pre-testing	
Development an	d testing	The survey was developed over several months. Before invitations were sent out to the prospective participants, the functionality of filters, ranges and transfer to databases was tested regularly.
Recruitment pr	ocess and description	on of the sample having access to the questionnaire
Open survey ver	rsus closed survey	Closed survey
Contact mode		The initial contact (invitation letter with login code) was sent by mail.
Advertising the	survey	Closed survey without advertising
Survey adminis	stration	
Web/E-mail		Self-administered web questionnaires (desktop versions) with a mixed-mode survey offering paper-and-pencil questionnaires and/or online questionnaires
Context		For the KiGGS pilot study, a random sample was requested drawn from different German municipalities and cities. Prospective participants received via post a link including a log-in-code to a governmental project-owned website. As a restriction, only randomly selected prospective participants could enter the log in code.
Mandatory/volu	ntary	Voluntary survey

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Incentives		10 Euro shopping voucher/ questionnaire
Time/Date		August 2013 to December 2013
Randomization questionnaires	of items or	No, fixed. Order like the paper-and-pencil questionnaires
Adaptive questioning		To reduce the risk of mode effects, the two questionnaires were designed to be as identical as possible, and the wording of the questions and answer categories did not differ. According to the Unified-Mode-Designs [22] the wording and formatting of questions and answering categories were standardized. To be able to distinguish visually single choice questions from multiple choice questions, checkboxes were designed identically for all survey modes. Single choice checkboxes were desgined in a round shape, whereas multiple choice checkboxes exhibit a rectangular shape. Moreover, in multiple choice questions participants were informed that: "Multiple entries are possible". For filter questions, online questionnaires were optimized with filter skips whenever the perceivability of the questions was not impaired. Plausibility checks and ranges were defined for the online questionnaire. Additionally, soft prompting was programmed in the online questionnaires to reduce item nonresponse. These differences were used to capitalize on the advantage of the web mode for better data quality and were the only mode-specific design differences.
Number of Items		<ul><li>What was the number of questionnaire items per page? The number of items is an important factor for the completion rate.</li><li>First of all, the online questionnaire and the paper and pencil questionnaire were designed in the same manner. The number of items per page differed and depended strongly on the indicators used. To minimize the use of scrolling in the online questionnaire, the number of items was derived from the paper and pencil questionnaire. Furthermore, different questionnaires for the different age groups were implemented.</li></ul>
Number of scree	ens (pages)	Over how many pages was the questionnaire distributed? The number of items is an important factor for the completion rate. Different questionnaires for the different age groups were implemented. Those questionnaires had a varying length and were dependent of the number of filter skips.
Completeness c	heck	The informed consent, birth month, birth year and sex were forced choices and therefore checked for

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		completeness. This was used for data protection reasons and identification of the correct participant. All other items were voluntary, but soft prompting was used. In some questions, the answer options "don't know" or "rather not say" was offered as an answering category.
	Review step	Respondents had the possibility to use a Back button and change/ correct their answers. A summary responses has not been implemented. Once, the questionnaire was completed, participants could not access their questionnaire again.
Response rates	·	
Unique site visit	or	Due to data protection regulations, information on IP addresses and/ or cookies could not be stored.
View rate (Ratio visitors/unique s	of unique survey ite visitors)	see above
visitors who agre	e (Ratio of unique eed to le first survey page	see above
	(Ratio of users who rey/users who agreed	Informed consent had to be gathered via postal letter.
Preventing mul	tiple entries from the	same individual
Cookies used		Cookies were not saved due to data protection regulations. To identify participants a unique log in code was provided. However, once, the questionnaire was completed, participants could not access their questionnaire again.
IP check		IP addresses were not saved due to data protection regulations.
Log file analysis	;	No other techniques to analyze the log file for identification of multiple entries were used.

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Registration	Every potential participant received a unique log in code. This unique log in code was valid for the complete data gathering phase. As soon as the whole questionnaire was filled out, the respondent could not log in again. However, if a respondent interrupted answering, the system stored the number of pages and allowed to continue at the last filled out question.	
Analysis		
Handling of incomplete questionnaires	Only completed online questionnaires were analyzed.	
Questionnaires submitted with an atypical timestamp	No timeframe was set. However, the item-missingness was calculated and below 1% overall for the online questionnaire.	
Statistical correction	We didn't use weighting procedures, but we adjusted the analysis for socio-demographic characteristics	

1. Eysenbach G. Improving the Quality of Web Surveys: The Checklist for Reporting Results of Internet E-Surveys (CHERRIES). Journal of Medical Internet Research. 2004 Jul-Sep;6(3):e34. PMID: PMC1550605. doi: 10.2196/jmir.6.3.e34.