CHERRIES criteria for German MSM online survey 2013 (SMA 2013)

**Design**

The survey was designed as a nationwide, anonymous online-survey targeting MSM. Participants were recruited for the survey through private messages and banners on several social networking and dating sites for gay men. Private messages were sent to all site members having a profile in German language and residing in Germany. Thus the resulting sample was a convenience sample.

**IRB (Institutional Review Board) approval and informed consent process**

The online survey protocol was evaluated and approved by the ethical review board of the Charité University Clinic in Berlin (EA1/266/13).

**Informed consent**

The survey’s entry site contained information about who the investigator was, the goals and contents of the survey, terms of participation, data privacy, and approximate length of time of the survey. By clicking on a button “I have read and understood the information above” the participant gave his informed consent and was referred to the online questionnaire (for the information included on the entry site see Annex I).

**Data protection**

We did not collect any personal data which would allow the identification of participants. Several suggestions by the data protection office of the federal state of Berlin to improve data protection for survey participants were implemented.

**Development and pre-testing**

The questionnaire was developed by using items of former German surveys with this population. The questionnaire used questions from the 2010 European MSM Internet survey (www.emis-project.eu) as much as possible. Several new questions and scales were included. Experts and stakeholders of the target group were asked to evaluate the questionnaire. The survey was informally pretested for technical functionality, usability and wording with members of the target population.

**Recruitment process and description of the sample having access to the questionnaire**

**Advertising the survey**

The survey was announced on several homepages (dating sites and news sites) directed at the target population. On most homepages a banner or texts were provided with a link to the questionnaire. One large dating site for MSM (planetromeo.com; number of active profiles in Germany as of March 18, 2015: 433,781. More than one profile per person is possible. Estimated number of MSM aged 15-64 years living in Germany as of 2010: approximately 656,000 [Marcus U, et al. Estimating the size of the MSM populations for 38 European countries by calculating the survey surveillance discrepancies (SSD) between self-reported new HIV diagnoses from the European MSM
internet survey (EMIS) and surveillance reported HIV diagnoses among MSM in 2009. BMC Public Health 2013, 13:919 http://www.biomedcentral.com/1471-2458/13/919] sent out a message to every German member with a link to the questionnaire asking the members to participate in the survey (for the wording of the message see Annex II). The survey was announced on planetromeo.com in a time-staggered manner (eight batches, ~50,000 profiles each), originally with the intention to prevent excessive demand for free testing at the cooperating testing sites, where free test vouchers offered at the end of the questionnaire could be used. Due to the lower than expected demand this turned out to be unnecessary. However, unexpectedly the capacity of the server of the survey website was not sufficient to manage the demand, so that long waiting times for users resulted and on some of the first days the survey was practically dysfunctional.

The survey was not specifically adapted for smartphone users. The main recruitment website offers traditional online websites as well as a gps-based smartphone app to manage user profiles. Both types of clients were invited to participate in the survey, however, the lack of smartphone-adaptation was mentioned in the invitation mail. Due to the lack of smartphone adaptation and the technical server problems it is very likely that the survey was filled in preferentially with a personal computer online instead by smartphone. Compared with the previous online survey (EMIS 2010) younger age groups (25-35 years) were less well represented among respondents, which may be due to the higher frequency of app-use in this age group.

Survey administration

The survey was a Web-based survey which was filled in online. Responses were automatically captured and directly stored in a database.

Context

See above.

Mandatory/voluntary

Participation in the survey was voluntary.

Incentives

No incentives were offered.

Time/Date

Data were collected between November 2013 and January 2014

Randomization of items or questionnaires

Randomization or alternating of items was not used.

Adaptive questioning

Adaptive questioning was used throughout the questionnaire to reduce number and complexity of the questions. E.g. separate questions were asked to respondents who indicated that they had received an HIV diagnosis and those who didn’t.

Number of Items and screens (pages)
The questionnaire included 344 items and 218 questions, presented online on approximately 100 pages. Due to the adaptive design of the questionnaire the actual number of pages that were seen by an average respondent was much less.

Completeness check

No consistency or completeness check was implemented before the questionnaire was submitted. Several questions (e.g. gender, age, HIV test, etc.) were regarded as especially important. In case the respondent didn’t answer one of these questions, they were reminded using a pop-up window, to answer this question. If the respondent still was not willing to answer the question he was able to continue the questionnaire.

Review step

Respondents were able to change answers on previous pages using a Back button.

Response rates

Unique site visitors: No IP addresses were stored and no cookies were used.

For every new first page visitor a unique code was generated. The total number of codes generated was 51,277. However, as mentioned above, the survey page was at certain times dysfunctional, which may have resulted in immediate discontinuation and later re-start of the survey. The first survey question was answered by 27,337 respondents; the last set of questions was answered by 14,392 respondents.

Due to the decision not to store IP addresses and not to use cookies, in combination with the technical difficulties during the implementation of the survey it is not possible to give meaningful numbers for the view rate and the participation rate. The completion rate can be calculated as 14,329/ 27,337 = 52%

Preventing multiple entries from the same individual

No technical tools such as cookies were used to prevent multiple entries from the same individual. However, due to the length of the questionnaire, technical capacity problems on the survey website which resulted in longer waiting times between screens further prolonging the time needed to fill in the questionnaire, and the lack of any material incentives, we think it is highly unlikely that individuals filled in the questionnaire more than once. It is however possible that respondents interrupted filling in the questionnaire and decided to restart at a later time point. To prevent using such possible multiple entries from the same individual, the final dataset was restricted to questionnaires in which at least the questions regarding gender, age, country, sexual orientation and HIV testing behaviour were answered. These represent the first approximately 10 page screens, and survey sections which did not include adaptive questions (27,337 respondents answered the first question on gender; 19,630 respondents answered the question on HIV testing).

IP check

No IP addresses of the client computer were used to identify potential duplicate entries from the same user.
Log file analysis

No other techniques to analyze the log file for identification of multiple entries were used.

Analysis

Incomplete questionnaires were also analysed when questions regarding gender, age, country, sexual orientation and HIV testing behaviour were answered.

Questionnaires submitted with an atypical timestamp

Time to fill out the questionnaire was not used as an exclusion criterion.

Statistical correction

No weighting of items or propensity scores have been used to adjust for the non-representative sample.

Annex I: Entry page of the online questionnaire

Subscriber information

Welcome to the survey!

Please take part in this survey if you ...

• are a gay man and / or
• are a man who feels attracted to men and / or
• are a man who has sex with men and
• are at least 16 years old.

We want to know it!

This survey, the study “Gay Men and HIV / AIDS 2013” refers to the sex you have, your knowledge and attitudes to HIV prevention and HIV testing and your life as a gay man, or a man who has sex with men, and how you are dealing with HIV and other sexually transmitted infections.

The questionnaire will take approximately 30 minutes.

Privacy Policy

Participation is anonymous. We guarantee that we will not save your IP address or collect information about you that could enable your identification by third parties.

For notes on the safe use of PCs, please refer to www.bsi.de.
Replying to the questionnaire is voluntary and can be canceled at any time, without any disadvantages for you.

More information about objectives of this study can be found further down on this page.

Here we go!

Start the questionnaire by clicking on the following button:

[Button]

For more information on this study

We are psychologists and health scientists of the Free University Berlin. This study has been financed by the Federal Centre for Health Education (BZgA). For questions, comments or suggestions about the study please contact us at the e-mail address msm@zedat.fu-berlin.de

Goals

The primary objective of this survey is to obtain current information about how gay and other men who have sex with men (MSM) are dealing and living with HIV / AIDS and other sexually transmitted infections (STI). The collected answers will allow an assessment of the extent to which you and the other participants protect themselves, but also what risks you are willing to take. Questions about the use of preventive services, and knowledge about progress in the treatability of HIV, will also allow to assess information needs and to better address these issues in HIV prevention. In addition to these points the general life situation of gay and other men who have sex with men living in Germany is an important part of this survey. In addition to dealing with discrimination against homosexuality, mental well-being is discussed in this survey for the first time. We want to investigate whether and why gay and bisexual men are more frequently affected by psychological stress. Also, the use of psychoactive substances (alcohol and drugs) will be investigated.

What happens to your data?

Taking into account the legal requirements of data protection we will evaluate your information together with that of the other participants to prepare scientific publications for a specialist audience. In this way we create the conditions that your information can be included in the optimization of prevention services for gay men and other men who have sex with men.

The central results of this survey can be expected to become available by autumn 2014, accessible on www.sma2013.de.

This study was reviewed by the ethics committee of the Charité Berlin, which confirmed the ethical acceptability of this study. The Data Protection Officer of the State of Berlin has examined the compliance with data protection and his suggestions for changes have been implemented.
Annex II: Invitation mail for men with a profile on planetromeo.com

Hello,

We would like to invite you to participate in a survey of gay and other men who have sex with men. This survey deals with your life, your sex and your relationships, your knowledge and attitudes to recent developments in HIV / AIDS, and how you are dealing with HIV and other sexually transmitted infections.

This survey is done anonymously and takes about 30 minutes. The survey is not optimized for filling in on smartphones. (Now start with the questionnaire!)

Your participation in this survey can not only help to ensure that you learn something new. Through your participation, you also support the prevention of HIV and other sexually transmitted diseases among gay and other men who have sex with men in Germany. The results of the study are directly feeding into this prevention work. In this way the prevention may take your needs better into consideration.

For more information about this study, please go to the home page of the questionnaire.

Your experiences and your vision are important to us. We would therefore be very happy if you participate in this survey: Click here for the questionnaire!