

Reducing sexually transmitted infections amongst those at highest risk: The Halo randomised controlled trial

Halo RCT Protocol

Short title: Halo Trial

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sponsorship@herts.ac.uk)

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Version number	Effective date	Description
1.0	28 th May 2025	Reviewed by DMEC and
		TSC, and approved by all
		co-investigators
		Pending ethical approval
2.0	5th August 2025	Amended post-REC review.
		REC approved
3.0	4 th September 2025	Amended post-HRA review
		Approved



This document provides details regarding the setting up, conduct, analysis and dissemination of the NIHR funded trial (REF: NIHR157903) Reducing sexually transmitted infections amongst those at highest risk: The Halo randomised controlled trial. It includes all the recommended items to address in a clinical trial protocol as set out in the SPIRIT 2013 checklist (1); see Appendix 1.

The University of Hertfordshire will sponsor this trial. The University of Sussex, Maastricht University, University of Birmingham, University College London (UCL) and Preventx Ltd will be collaborators on the trial. As such, a collaboration agreement will be signed by the parties, specifying responsibilities and financial arrangements.

The funder and sponsor had no role in the design of this trial and will not have any role during its execution, analyses, interpretation of the data, or decision to submit results. The views expressed are those of the author(s) and not necessarily those of the NIHR or the Department of Health and Social Care.

All members of the Halo Trial Management Group have contributed to and approved this trial protocol.

Chief Investigators	Katie Newby (CI) and Katherine Brown (joint-CI)
Trial Manager	Stefanie Williams
Sponsors	University of Hertfordshire
Study committees	Trial Steering Committee (TSC)
	Data Monitoring and Ethics Committee (DMEC)
	Trial Management Group (TMG)
	Trial Team (TT)
	Young People's Advisory Group (YPAG)

Competing interests: The joint-CIs (KN, KB) and the PI at Preventx Ltd (single trial site; MC) have no financial or other competing interests to declare.



The undersigned confirm that the following protocol has been agreed and accepted, and that they will conduct the trial in compliance with this. They further confirm that they will adhere to the principles outlined in the Good Clinical Practice (GCP) guidelines, the Sponsor's Standard Operating Procedures (SOPs), and any other relevant regulatory requirements.

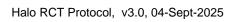
They agree that the confidential information contained in this document will not be used for any other purpose other than the evaluation or conduct of the investigation without the prior written consent of the Sponsor.

They also confirm that they will make the findings of the trial publicly available through publication or other dissemination tools without any unnecessary delay and that an honest, accurate and transparent account of the trial will be given; and that any discrepancies and serious breaches of GCP from the trial as planned in this protocol will be explained.

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			industry partner		
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^{*}UH core research team

Abbreviations and definitions

AE Adverse Event

BSCTU Brighton and Sussex Clinical Trials Unit

CI Chief Investigator
CRF Case Report Form

CTSN Clinical Trials Support Network

DMEC Data Monitoring and Ethics Committee

DMP Data Management Plan

DPIA Data Protection Impact Assessment

EU European Union

GDPR General Data Protection Regulations

HML School of Health, Medicine and Life Sciences

HRA Health Research Authority
ICF Informed Consent Form
ISF Investigator Site File

ISRCTN International Standard Randomised Controlled Trial Number

Main REC Main Research Ethics Committee

MRC PHIND Medical Research Council (MRC) Public Health Intervention

Development (PHIND) funding

NHS R&D National Health Service Research & Development

NIHR National Institute for Health and Care Research

PI Principal Investigator
QA Quality Assurance
QC Quality Control

QMMP Quality Management and Monitoring Plan

Participant An individual who takes part in a trial

PIS Participant Information Sheet
PPI Patient and Public Involvement
RCT Randomised Controlled Trial
REC Research Ethics Committee

SAE Serious Adverse Event SAP Statistical Analysis Plan



SHS Sexual Health Service

SOP Standard Operating Procedure

SWAT Study Within A Trial

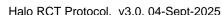
TT Trial Team

TMG Trial Management Group
TSC Trial Steering Committee
UH University of Hertfordshire

YPAG Young People's Advisory Group

Trial Summary

Full title	Reducing sexually transmitted infections amongst those at highest risk: The Halo randomised controlled trial	
Short title/Acronym	Halo Trial	
Protocol Version Number and Date	Version 3.0 4 th September 2025	
Recruitment Start Date	15 th September 2025	
Data Collection End Date	31st December 2027	
Total Trial Duration	48 months (4 years)	
Trial Design	Two-arm, parallel group RCT	
Sponsor	University of Hertfordshire	
Chief Investigators	Katie Newby and Katherine Brown	
Funder	NIHR PHR	
REC Number	25/LO/0479	
Trial Objective(s)	Primary objective: 1. To determine whether the addition of Halo to usual care reduces chlamydia positivity at 12 months Secondary objectives: 2. To determine whether the addition of Halo to usual care reduces gonorrhoea positivity at 12 months	
	 3. To determine whether the addition of Halo to usual care reduces repeated infections or (cumulative) incidence of chlamydia or gonorrhoea 4. To determine whether the addition of Halo to usual care increases the frequency of correct and consistent 	



University of Hertfordshire	Halo RCT Protocol, v3.0, 04-Sept-2025	
	condom use during vaginal and/or anal sexual intercourse 5. To determine whether STI and behavioural outcomes differ by subgroup (ethnicity, sexual orientation, and deprivation) 6. To determine whether the effect of Halo on STI outcomes is mediated by changes in the targeted behaviour and behavioural determinants 7. To determine whether adding Halo to usual care is cost-effective and analyse impacts on equity 8. To describe the level and patterns of engagement with Halo, as delivered as part of the RCT, and to identify whether patterns of engagement differ by subgroup (ethnicity, sexual orientation, and deprivation) 9. To determine whether STI and behavioural outcomes differ by patterns of engagement with Halo	
Planned Sample Size	N = 3576	
Participants	Inclusion criteria: 1) Young people aged 16-24 years old at baseline 2) Living in one of the local authority areas participating in the trial 3) Ordered an STI self-sampling kit that includes tests for chlamydia and gonorrhoea from SH.UK, Freetest.me or SHL.UK websites 4) Access to personal mobile phone and the internet. 5) Able to read/understand English language Exclusion criteria: 1) Unlikely to have penetrative sex (penis in either vagina or anus) over the next 12 months 2) Do not feel able to commit to the trial over the next 12 months	
Intervention	 Halo is a web-based intervention. It includes two ordering features: Sample pack: A free box of ten condoms, and sachets lubricant, for users to try out. Box includes condom application instructions and is delivered in discreet packaging. Condom ordering: A service delivering free condoms/lubricant to users (in discreet packaging), ordered online by the user. Each user is limited to one order per month, each order contains a bundle of 5 or condoms and sachets of lubricant. The remaining sections provide written and video content (drawing on and featuring real-life testimony from young people), supported by graphics and custom illustrations th aim to increase knowledge and skills, and to build positive beliefs about condom use e.g. around putting condoms on using condoms in ways that enhance pleasure and enjoyn and effectively communicating about condom use and cop 	



Hertfordshire	Halo RCT Protocol, v3.0, 04-Sept-2025
	with resistance. Halo also contains the usual care information contained within the comparison website (see directly below). See section 5 for a detailed description of the intervention content.
Comparison	Usual care. All participants will be directed to a stand-alone website providing information on STIs and condom use akin to that of the NHS choices website.
Follow up duration	 Survey: Collected at baseline, 3 months, 6 months, and 12 months. STI tests: Conducted at baseline, 3 months, and 12 months.
Outcomes	Primary: Chlamydia positivity Secondary: Gonorrhoea positivity Incidence of repeat infections of chlamydia and gonorrhoea Cumulative incidence of chlamydia and gonorrhoea Correct and consistent condom use during vaginal and/or anal sexual intercourse Condom use self-efficacy, social norms for condom use, attitude towards condom use, condom use skill, accessibility of condoms, condom use intentions

1. Background and rationale

There were 401,800 diagnoses of Sexually Transmitted Infections (STIs) in England in 2023 (2). Whilst the number of STI diagnoses dropped between 2020-2021, due to disruption to STI testing caused by the Covid-19 pandemic, figures have now almost entirely returned to 2019 levels (2). Whilst chlamydia diagnoses dropped slightly in the last year, these remain high, and there have been large increases in gonorrhoea with diagnoses now the highest on record (2). Untreated STIs can have serious consequences such as pelvic inflammatory disease, ectopic pregnancy, infertility, cervical/anal cancer, stillbirth, and increased risk of contracting Human Immunodeficiency Virus (HIV) (3). STIs can have a profound impact on quality of life and are associated with stigma, which can impact on willingness to seek care and contribute to onward spread (3). Costs to the NHS of treatment are also significant (4).

Engagement with Halo

Resource use and Health-related quality of life (HRQL)

People aged 15-24 years have the greatest prevalence of STIs. In 2023, 42% of all STI diagnoses were amongst this age group (2). Positivity is also high. This currently stands at 11% for chlamydia, the most common STI, with rates further elevated for young people who are Black (14%) and who live in the most deprived quintile (12%) (5). Gay, Bisexual or other men who have sex with men (GBMSM) are also disproportionately impacted by STIs (2). The best way to avoid STIs from penetrative sex is to use a condom (2) but young people report



inconsistent use (6). Targeted, inclusive interventions to increase condom use amongst young people are urgently required.

Dozens of behavioural interventions aimed at reducing sexual risk behaviour have been developed over recent decades. Accordingly, numerous systematic reviews and meta-analyses have been conducted to help make sense of the findings and enable conclusions to be drawn about their effectiveness. These include reviews focusing on specific populations, such as adolescents/young adults (7–10) and women (11–13), those which report on behavioural outcomes (11,14–16) and additionally objective STI outcomes (13,17,18), and those where interventions are delivered via face-to-face (9,15,16,19) or digital/computer-based (14,20–23) methods. In fact, such is the preponderance of these reviews, that there are now meta-reviews of meta-analyses in this area (24,25).

What this body of work tells us is that behavioural interventions have modest favourable effects on condom use and STI incidence, including for different populations and when delivered via face-to-face or digital methods. Whilst the majority of included studies use a randomised controlled trial (RCT) or quasi-experimental study, these are generally of low quality. This is demonstrated in a meta-analysis of RCTs by Free and colleagues (16) where of the 139 included trials, only four were judged as scoring adequately on all four quality criteria. Biological outcome measures are also rare; for example, only 15% of studies in the Free et al. review (16), and 13% of studies in a meta-analysis of interactive computer-based interventions for sexual health promotion by Bailey et al. (20), used this type of measure. The length of follow-up for the primary outcome is also typically limited. In the meta-analysis by Bailey et al. (20) for example, 5/15 studies had a follow-up of less than two weeks postintervention, and the longest follow-up period was six months, achieved by only two studies. This limits conclusions that can be drawn about the long-term benefits of interventions on sexual health outcomes. In sum, despite the volume of work in this area, well-designed, highquality trials are rare. These are urgently required to provide reliable evidence on the effect of behaviour change interventions on sexual health outcomes. This is true for all types of interventions, including those delivered via digital methods. The design of the current trial addresses all the limitations outlined above.

The intervention being tested in this trial aims to support young people to use condoms correctly every time they have penetrative sex. It has been co-created by researchers, professional stakeholders, and young people for users of web-based STI self-sampling services aged 16-24 years. Content addresses young people's salient barriers to condom use. The first iteration of the intervention, then named Wrapped (26), was developed in 2016-17 with support from Medical Research Council (MRC) Public Health Intervention Development (PHIND) funding. Its second iteration, to be tested in this RCT, has the same theoretical basis, and largely utilizes the same practical strategies, but with the presentation of content updated to reflect the modern-day expectations of young people. Wrapped has since been rebranded, with input from young people, and is now called Halo. The Halo intervention is well positioned to have population-level impact as there is potential for widescale implementation across the web-based STI testing sector. With support from the NIHR's Public Health Research programme, a feasibility randomised controlled trial (fRCT) of the intervention, then named Wrapped, was completed in May 2023. This showed that the intervention was acceptable to both users and service commissioners, and positively impacted condom use beliefs and behaviours. The trial methods were feasible and acceptable. The independent Data Monitoring and Ethics Committee (DMEC) and Trial Steering Committee (TSC) recommended progression to full trial.

The work undertaken as part of this project includes an RCT with implementation activities, a nested process evaluation, and a study within a trial (SWAT). This protocol covers the RCT and implementation activities only; the nested process evaluation and the SWAT are subject to separate protocols.



2. Research question and objectives

2.1 Research question

Is Halo plus usual care (usual STI prevention information provided by STI testing websites) effective and cost-effective in reducing STI positivity amongst 16–24-year-olds at 12 months in comparison to usual care only?

2.2. Objectives

Primary objective:

1. To determine whether adding Halo to usual care reduces chlamydia positivity at 12 months

Secondary objectives:

- 2. To determine whether adding Halo to usual care reduces gonorrhoea positivity at 12 months
- 3. To determine whether adding Halo to usual care reduces repeat infections or (cumulative) incidence of chlamydia or gonorrhoea
- 4. To determine whether adding Halo to usual care increases the frequency of correct and consistent condom use during vaginal and/or anal sexual intercourse
- 5. To examine whether STI and behavioural outcomes differ by subgroup (ethnicity, sexual orientation, and deprivation)
- 6. To determine whether the effect of Halo on STI outcomes is mediated by changes in the targeted behaviour and behavioural determinants
- 7. To determine whether adding Halo to usual care is cost-effective and analyse impacts on equity
- 8. To describe the level and patterns of engagement with Halo, and to identify whether patterns of engagement differ by subgroup (ethnicity, sexual orientation, and deprivation)
- 9. To determine whether STI and behavioural outcomes differ by patterns of engagement with Halo

3. RCT timeline

Table 1 below presents the timeline for the RCT along with associated milestones.

Table 1. Halo trial timeline and milestones

Months	Activities	Associated milestones (to be achieved by end of time period specified unless otherwise stated)
-3 to 0	TSC/DMEC set-up	TSC/DMEC in place
-3 to 3	Protocol developmentEthics application (RCT)	 NIHR approval of protocol (by end of month 5) Ethics approval (RCT; by end of month 5)
-3 to 6	Trial set-up Legal agreements	All legal agreements in place
1 to 6	Intervention (formerly Wrapped) optimisationREDCap (database) set-up	 Optimisation of intervention (formerly Wrapped) complete Database set-up complete



Months	Activities	Associated milestones (to be achieved by end of time period specified unless otherwise stated)	
7 to 8	Set-up of Halo website on external server	 Halo hosted securely on external server; testing complete 	
9 to 26	Recruitment to RCT	RCT recruitment target met	
9 to 39	RCT data collection	RCT follow-up complete	
9 to 38	Analytics data collection	 Analytics data collection complete 	
39-41	Analytics data analysis	 Analytics data analysis complete 	
40 to 45	RCT data analysis	RCT data analysis complete	
43 to 48	 (if cost-effective) Hold 'roadmap' stakeholder event Report writing and dissemination activities 	 All conference and stakeholder presentations delivered Lay summary (written and video) distributed 	
43 to 48+2 weeks	 Journal article and synopsis production as part of threaded publication for NIHR journal library 	 Submission of all articles (and post trial, publication) 	

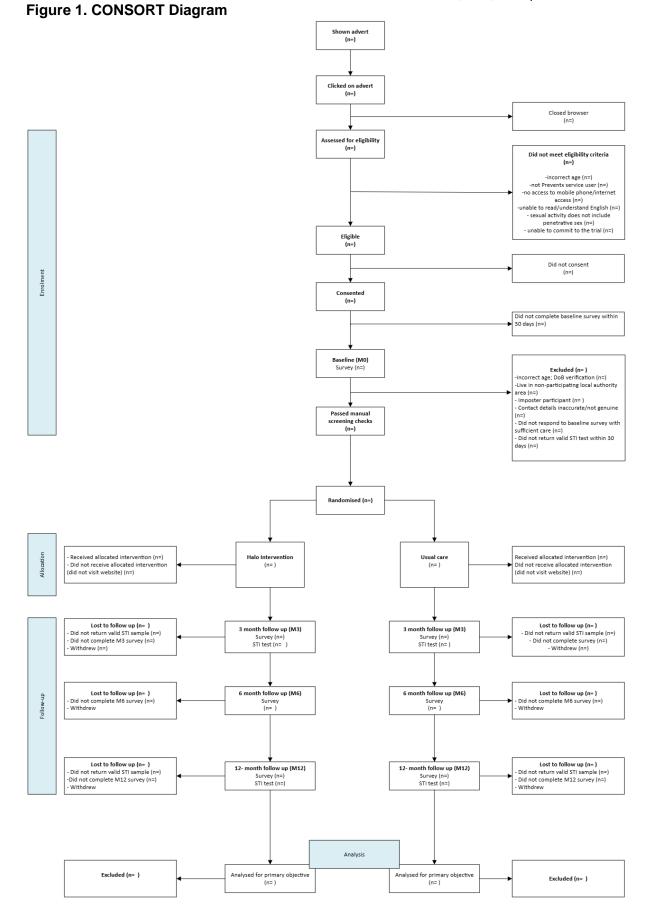
4. Methods

4.1. Trial design

A two-arm, parallel group RCT, in which Halo in addition to usual care (standard STI prevention information provided by STI testing websites) is tested against usual care alone. See figure 1 for an overview of participant involvement in the Halo RCT.

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4.2. Trial setting

Data will be collected in England. Participants will be recruited online from one of three STI self-sampling websites (SH.UK, Freetest.me or SHL.UK), operated by Preventx Ltd (a health technology company that provides remote STI self-sampling). Preventx provides web-based STI self-sampling services to over 70 local authority areas in England which for most young people, are free at the point of use. Users residing in local authority areas representing diverse demography, and a mix of urban, rural, and coastal locations, will be invited to participate. Preventx will support recruitment of the required number of local authority areas needed to achieve our target sample size.

4.3. Trial participants and sample size

3576 users of three STI self-sampling websites (SH.UK, Freetest.me, or SHL.UK) operated by Preventx Ltd, will be randomised.

For the primary objective (objective one), the trial has been designed to detect a reduction of chlamydia positivity from 10% to 6.5% i.e. 3.5 percentage points. To have 90% power (α =0.05) to obtain the projected difference in the comparative analysis, 1353 (2,706 total) participants per treatment group are required.

The recruitment target and the size of the sampling pool required to achieve this has been calculated based on the levels of recruitment and retention observed in the fRCT. Attrition (for primary outcome) was 24.3% at 12 months. To allow for this, the baseline sample needs to be 1788 per treatment group (1353/0.757; 3576 participants in total). During the feasibility RCT (fRCT), 1.5% of all Preventx users shown the trial advert were recruited. A sampling pool of 238,400 users of SH.UK/freetest.me/SHL.UK aged 16-24 years is therefore required to achieve this target (3576/0.015). It is estimated that the size of the available sampling pool will be at least 585,000 users (877,500 over 18 months; based on recent Preventx data).

Secondary objectives include examining STI and behavioural outcomes by subgroup (ethnicity, sexual orientation, and deprivation). To detect these interaction effects (subgroup x treatment group), the sample size needs to be fourfold greater than for the primary outcome analysis if they are the same magnitude as the main effect (27). For smaller interaction effects, the sample size needs to be increased even further. Power to detect an interaction effect of the same magnitude as the main effect, between two binary variables (one of which is treatment group), will be approximately 33%. Given the low power for a test of interaction effects, these analyses will therefore be considered exploratory.

4.4. Eligibility

Inclusion Criteria:

- 1) Young people aged 16-24 years old at baseline
- 2) Living in one of the local authority areas participating in the trial
- 3) Ordered a self-sampling kit that includes a test for chlamydia and gonorrhoea from Freetest.me, SH.UK, SHL.UK websites
- 4) Access to personal mobile phone and internet access
- 5) Able to read/understand English language

Exclusion Criteria:

- 1) Unlikely to have penetrative sex (penis in either vagina or anus) over the next 12 months
- 2) Do not feel able to commit to the trial over the next 12 months



There are no plans to exclude individuals from the RCT based on knowing someone else who is already participating. As this presents a risk of contamination, this will however be monitored from the start by asking participants how they found out about the trial (with one option available for selection being 'I know someone else taking part in the trial'). If monitoring indicates that contamination may be an issue, we will begin to exclude these individuals. Before implementing this change, we would seek approval from the Trial Management Group and Data Monitoring and Ethics Committee/Trial Steering Committee.

5. Trial Procedures

5.1. Recruitment

All young people aged 16-24 years, using either Freetest.me, SH.UK, or SHL.UK for STI self-sampling services, and residing in one of the participating local authority areas, will be invited to take part (thus meeting inclusion criteria 1-3). The trial advert, offering a £75 voucher incentive, will be positioned on the 'thank you' page of these websites, seen by users after ordering STI self-sampling kits. This will be followed up by an SMS text message containing the same text.

Advert text as follows: Your voice matters

Help shape the future of sexual health

Take part in groundbreaking sexual health research Earn up to £75 in vouchers for your time and insights

Additionally, users of SH.UK and SHL.UK will be alerted to the trial by a notification positioned within their individual service user account area. This will inform users that to take part they need to order a test kit (access to which is also via their user account area). In addition, the trial advert may also be positioned at other appropriate points in the user journey (e.g. when users access their test results, confirm their details) during the trial.

The hyperlink in the advert will take users to the trial webpage (hosted on REDCap; a secure data capture and management platform hosted on a UH server) for participant information and to provide consent. No vulnerable groups are being specifically targeted for recruitment as we aim to have a representative sample of 16-24 year olds. Recruitment will end at 18 months or when the target sample size is achieved (whichever comes sooner).

5.2. Participant information

Clicking on a hyperlink embedded within the study advert will take individuals through to the study webpage hosted on REDCap. The trial webpage will provide potential participants with the participant information sheet (PIS) outlining, what the trial is about, who can take part, what is expected of them, trial procedures, confidentiality, data protection, risks/benefits, dissemination plans, how to contact the team, and how to make a complaint (see Appendix 3). Users will have time to review the information sheet and make an informed decision on whether to participate in the trial. They will have the opportunity to contact the research team to ask questions via email (halo@herts.ac.uk) and by phone.

5.3. Eligibility assessment

Ahead of providing consent, individuals will be asked to confirm that they meet the inclusion criteria (except criterion 2) and do not meet exclusion criteria 1-2 (see section 4.4; yes/no response to items). Once this confirmation provided, individuals will be able to proceed to the next webpage where informed consent is taken.



We will not ask participants to confirm whether they reside in a participating local authority area (criterion 2) as they will not be party to this information. Instead, at screening (see section 5.6) we will use participants' responses to the item on local authority area within the baseline survey to check for eligibility. At screening, we will additionally double check that responses given in the baseline survey are consistent with meeting criteria 1 (date of birth), and that baseline STI test results are available (demonstrating use of Preventx services for chlamydia and gonorrhoea testing; criterion 3).

5.4. Informed consent

Those who decide to take part will provide digital informed consent within REDCap by selecting 'I agree to the above statements and consent to taking part in the research project', and then by typing their name, selecting the date, and digitally signing the form (using touchpad if on tablet/phone, or using mouse if on a computer). See Appendix 4. In addition to providing overall consent to take part in the trial, specific consent will be obtained from all participants for the following:

- Accessing STI test results from Preventx at M(Month)0, M3, and M12
- Accessing personal details from Preventx to confirm their identity (if necessary, as part of screening checks; see section 5.6)
- Sharing data with their local sexual health service (NHS or local authority) to refer for treatment/aftercare following a positive STI test result (not applicable for M0 tests as clinical management will be the responsibility of local NHS trust as per existing agreements), and where applicable to refer for support with safeguarding concerns
- Tracking their use of the intervention using analytics software to provide individual level analytics data (relevant to objectives 8-9)
- To retain all data provided up to the point of withdrawal from the trial (if applicable)
- Sharing data outside of the UK for the purpose of data analysis
- To be contacted about other research opportunities related to the trial (optional consent item)

If during the RCT any safety information become known that results in a significant change to the protocol, and accordingly to the risk/benefit analysis, the participant information sheet and/or the consent form will be updated accordingly. Participants will be informed of the update via email and signposted to the revised information sheet on REDCap, and asked to indicate if they do not wish to continue in the trial.

5.5. Baseline

Baseline measures will be obtained through STI testing (Nucleic acid amplification (NAA) for chlamydia and gonorrhoea) and completion of a survey. Participants will be invited to complete the baseline survey in REDCap immediately after consent is obtained. The baseline measures of STI are those resulting from STI self-sampling kit requests made by participants just prior to seeing the trial advert. The results of these baseline tests for chlamydia and gonorrhoea will be shared securely by Preventx with the UH core research team (see section 7.2.1 for more details).

On completion of the baseline survey and the STI test, the UH core research team will perform a series of screening checks (outlined in section 5.6); only individuals who pass these checks will be randomised.

We will ask those with positive results for chlamydia and/or gonorrhoea at baseline to self-report adherence to treatment. These individuals will receive a link via SMS text message, 14 days post-result, to a survey on REDCap to record whether the infection has been treated as prescribed (for most participants, this will allow them sufficient time to access and take their



prescription). If the participant does not respond to this request, they will be sent two reminders (first by text message, second by both text message and email) to complete this survey, each spaced 3 days apart. If the participant confirms at either of these timepoints that they have taken the full course of treatment as prescribed they will not receive any further reminders. If however, they report that treatment is incomplete but that they intend to complete it, they will be sent a further SMS text message 7 days later asking them to confirm that treatment has been taken as prescribed. They will then be given a further 7 days to report whether treatment is complete¹. Figure 2 displays this flow of communications visually.

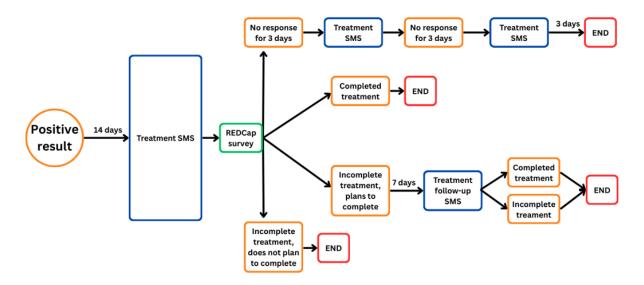


Figure 2 Flow of communications for treatment

5.6. Screening

On participant completion of the baseline survey, screening checks will be performed by unblinded members of the UH core research team to:

- 1) Detect and remove imposter participants who are 1) non- genuine users of SH.UK, Freetest.me, SHL.UK (including bots) or 2) people attempting to enter the trial more than once. This will be undertaken as follows:
 - Preventx will implement either or both of the following two methods to enable authentication of individuals as genuine users of SH.UK, Freetest.me, SHL.UK. These include:
 - Passing an ID/code through to REDCap from advert
 - When users of SH.UK, Freetest.me, and SHL.UK click on the RCT advert, their user ID/order number or a randomly generated code will be appended to the end of the URL used to access the trial webpage. This ID/order number will be captured by REDCap and associated with each individual participant. If this proves technically challenging, individuals may instead be asked to self-report their Preventx ID/order number at the beginning of the baseline survey.
 - If screening identifies that there is no ID/order number, then access to the trial webpage will have been from a source other than Preventx (e.g bot) and the individual will not be randomised.

¹ In line with <u>BASHH guidelines</u>, the maximum treatment window for uncomplicated chlamydia is 14 days. For uncomplicated gonorrhoea, this is one day. This schedule therefore allows for a 14-day treatment window but no longer (as this would indicate non-adherence which presents a risk of treatment failure).



- Where there is an ID/order number, this will be checked for uniqueness against the existing cohort of participants. If the details are already associated with an existing participant, this will either indicate that the same individual has attempted to enter the trial on more than one occasion, they have passed the URL onto someone else (who is ineligible to participate), or that a bot is attempting to gain access. Under these circumstances, this individual and any future individuals with the same details) will not be randomised.
- On occasion, where we suspect there is a duplicate user, it may be necessary to validate who is the genuine user against personal details held by Preventx. Any sharing of such data will comply with UK Data Protection Act (2018) and the General Data Protection Regulations (EU GDPR) 2016/679 requirements.
- If bots present a significant or recurring issue, we will embed a reCAPTCHA widget within the study webpage (at the point of assessing eligibility/taking consent) to help mitigate this.
- Preventx will set the URL used to access the trial webpage as 'one-time use' or with a timed expiry.
- 2) Detect individuals who do not have accurate/genuine contact details (required to communicate with participants throughout the trial) so that these details can be corrected, or the individual excluded from the trial. Specifically, the following processes will be implemented:
 - To check that all mobile phone numbers are accurate, they will be verified by a text
 message. If an undelivered message is received, the individual will be contacted via
 one other available means to give them the opportunity to correct this. If the individual
 does not respond within 5 working days, they will not be randomised.
 - Where concerns exist that a postal address is not accurate or genuine, this will first be checked using the Royal Mail 'find an address' service. If concerns persist, the individual will be contacted via one other available means to give them the opportunity to correct this. If the individual does not respond within 5 working days, they will not be randomised.
 - Where concerns exist that an email address is not accurate or genuine (e.g. is made up of random letters and numbers) the individual will be contacted via this email address asked to send a reply; at the same time, they will also be contacted via one other available means in case an error was made in providing this information. If the individual does not respond within 5 working days, they will not be randomised.
- 3) Detect and remove participants who have provided baseline responses that are inconsistent with our eligibility criteria; namely date of birth makes them under 16 years or over 24 years at baseline, or they reside in a local authority area that is not participating in the trial
- 4) Detect and remove individuals who have not responded to the baseline survey with sufficient care.
 - Specifically, the following processes will be implemented:
 - Anyone taking less than the minimum expected time taken to complete the survey will not be randomised (the minimum time will be determined following multiple rounds of test completion)
 - Anyone with evidence of random responding (against pre-identified questions) will not be randomised

A screening and enrolment log, including date and initials of UH core research team member conducting the screening, will be created within the REDCap database. Following the screening checks, randomisation will occur providing participants complete the following activities within 30 days of consent 1) the baseline survey, and 2) return of the STI test kit they ordered at baseline (just prior to seeing our trial advert) to the Preventx laboratory with a valid biological sample such that their STI status for chlamydia can be determined. The 30-day



window is to ensure that the two sets of data are commensurate. Note, we will not require a valid biological sample for gonorrhoea as this is a secondary outcome measure.

The range of possible results for chlamydia and gonorrhoea are: detected (positive), not detected (negative), and other (this categorisation is used for unknown or unclear results due to, for example, insufficient specimen, contaminated specimen, or lab error). Randomisation decisions taken on the basis of test results for chlamydia are as follows:

- Those with a positive or negative result for chlamydia reported² within 30 days of consent will be randomised
- Those with 'other' results for chlamydia will be contacted by email to arrange further testing. If it is agreed that they can re-order another STI test (from SH.UK, Freetest.me, or SHL.UK) and return it within the 30-day window, we will ask them to go ahead and to inform us of the assigned kit code so that we can link the result of this test with their data. If there is insufficient time for this, we will ask them to repeat the process of providing consent and completing the baseline survey (to ensure that both sets of data are commensurate). Under these circumstances, a note of this will be made on the participants' case report form to avoid them being excluded as a duplicate participant.

We will randomise participants regardless of their result for gonorrhoea (positive, negative or other).

All the circumstances under which individuals may be excluded from randomisation to the trial will be outlined in the PIS. On occasions when randomisation does not occur, the individual concerned will be contacted by email setting out the reasons.

5.7. Randomisation and blinding

Participants will be individually randomised to one of two treatment groups: Halo plus usual care (intervention) or usual care alone (control).

Randomisation of participants to treatment groups (1:1) will be managed within REDCap. The Clinical Trials Unit (Brighton and Sussex CTU, UKCRC ID 66) statistician (Saskia Eddy; SE); overseen by senior statistician Stephen Bremner (SB) will generate the randomisation list in .csv format for simple randomisation which will be uploaded to REDCap by the Database Manager (Debbie Lambert; DL). This list will determine the order in which participants are randomised into each of the two trial groups (stratified by group to maintain balance across key demographic criteria: ethnicity, sexual orientation, deprivation). A member of the UH core research team will perform the manual screening checks as detailed above (section 5.6) and then approve the participants for randomisation by the REDCap randomisation feature. Responsibility for this randomisation approval process will be undertaken by unblinded members of the UH core research team on a rotating basis. Participants randomised to the RCT will be documented on REDCap which will act as an enrolment log.

Participants will be blind to treatment group allocation since both groups will receive web-based STI prevention information. Laboratory staff who test STI samples will also be blind. Statistical Analysis Plans (SAPs) will be written and signed off prior to database lock and the final analysis commencing by the trial statistician (SE) and co-investigators responsible for secondary analyses. These individuals therefore need to be blinded up to this point but not beyond (the lead trial statistician SB will however be blinded throughout). No other UH core research team members need to be blinded as it will not be possible for them to influence randomisation or participant responses to surveys. Individuals responsible for telephoning

² 'reported' date will be taken as the date at which the sample was received by the Preventx laboratory; this allows for any delays which may occur in processing samples by the laboratory.



participants to support collection of a minimum data set (see section 7.1.2), will be blinded to treatment allocation throughout.

Due to the nature of the intervention, it is very unlikely that there will be a need to break the randomisation code (see section 6 below). However, if this is necessary, for example due to a serious adverse event, then the joint-Cls (KN and KB) will be contacted in the first instance (including if out-of-hours). The Trial Manager will be able to identify/confirm the allocation of an individual participant using the REDCap system if the joint-Cls are still blinded at this point. Contact details of all members of the team are available within the Trial Team folder of the Trial Master File.

5.8. Intervention

5.8.1. Halo (intervention group)

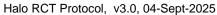
Participants randomised into the intervention group will be sent an SMS text message with a hyperlink (containing a unique identifier to track website use) giving them access to the Halo website. On first access they will be asked to register (username and password set up by user; these credentials will be required by the participant to gain access on future visits). An SMS text message reminder to access the content will be sent to participants who have not registered on the site one week after first access is provided. This will be followed by an email and SMS text message reminder a further week later if they are still yet to register.

The Halo intervention was first developed nearly ten years ago. Its first iteration (26), then called Wrapped, was developed in 2016-17 with support from Medical Research Council (MRC) Public Health Intervention Development (PHIND) funding. Its second iteration (now rebranded as Halo), to be tested in this RCT, has the same theoretical basis, and largely utilizes the same practical strategies, but with the presentation of content updated to reflect the modern-day expectations of young people.

The Halo intervention aims to increase correct and consistent condom use through addressing condom accessibility and four sub-behaviours, namely storing condoms, carrying condoms, communication about condoms, and applying condoms (see logic model, Appendix 5). Targeted theoretical determinants of these sub-behaviours include self-efficacy, social norms, attitudes, skill. Key underlying knowledge and beliefs addressed include condom fit and feel, knowledge and skills required to store, carry and use condoms effectively, beliefs about the impact of condom use on pleasure, enjoyment, and condom use stigma. Content is delivered through a website. The website has recently been updated in collaboration with our Young People's Advisory Group (YPAG). The theoretical model remains the same, and largely the practical strategies through which the condom-use determinants are addressed are also retained. Where changes have been made, these are in response to a clear steer from young people. These important insights were gained through a process evaluation embedded within our feasibility trial (28), and a subsequent think-aloud qualitative study with young people (n=18 16-24 year olds) to gather further in-depth feedback on content that was less supported (29). The rebranding of the intervention to Halo was also supported by our YPAG and PPI coinvestigators.

The current iteration of the intervention, now called Halo, to be tested in this RCT, is represented by the site map presented in Appendix 6. There are two ordering features:

Sample Pack: A free box containing ten different condoms (different brands, sizes, textures, thicknesses, internal/external) and sachets of lubricant for users to try out. The box includes step-by-step instructions on how to correctly apply condoms. It is delivered in discreet plain packaging. The aims of this component are to help young people identify their preferred type of condom/lubricant, to help them overcome any issues around the smell, fit & feel of condoms, and to make positive associations between condoms and pleasure by instructing users to





interact with them on their own i.e. getting them out of packet, feeling them, unwrapping, smelling, tasting etc. Users will be encouraged to put the condoms on themselves or insert into their vagina. It will be suggested that users try out all the different types of condoms to identify their preferred type(s). Users will also be encouraged to practice applying condoms until they can do so confidently and with ease. The box itself is designed to be a permanent store for condoms at home. The inside bottom of the box has a reminder to keep it stocked up.

Condom ordering: A service delivering free condoms to users (in discreet packaging). Users will be able to select and change their preferred type(s) of condom and delivery address. Delivery will be triggered by an online order from the user. Each user will be limited to one order per month. Each order consists of one type of condom in bundles of five or ten. Users can also add lubricant to their order. A reminder email or SMS text (as selected by user) will be sent to users when they are able to order more condoms. As well as offering this service, users will be linked to information about other online and off-line places where they can access free or affordably priced condoms.

The remaining sections provide written and video content (drawing on and featuring real-life testimony from young people), supported by graphics and custom illustrations that aim to increase knowledge and skills, and to build positive beliefs about condom use. Those new to or less confident with condoms can access content on how to choose the 'right' condom, how to put them on (or insert them in the case of internal condoms), how to avoid common problems such as breaking/slipping, and how condoms can be used to enhance sexual pleasure and enjoyment. Content to build the knowledge and skills required by young people to ensure that they always have a ready-supply of usable condoms to hand is also included (i.e. condoms that are in-date, have been stored/carried correctly, replaced as needed). There is also content aiming to build strong beliefs in favour of condom use, including that which takes a rights-based approach through challenging stigma (particularly around young women having and carrying condoms). Further, how to initiate conversations about condom use and cope with resistance is modelled, with users encouraged to formulate plans for how they will act in different scenarios including where decision making is more challenging e.g. under the effects of alcohol. Finally, information on other forms of contraception and STIs, as well as how to access support for sexual health and wellbeing is also provided.

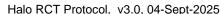
Participants will be able to choose what and how much of the intervention they engage with. Physical materials (i.e., sent as part of condom sample pack and condom ordering) will be delivered to the participant's home address (or another address of their choosing). Digital materials (videos, illustrations and written information) will be available on the Halo website.

5.8.2. Control group

Participants randomised into the control group will be sent an SMS text message with a hyperlink giving them access to the control website. If the site is not accessed, an SMS text message reminder, followed by an SMS text message and email reminder, will be sent at one and two weeks respectively.

Existing STI self-sampling websites typically provide only basic information on STIs and condom use to their users (30). To replicate this level of health promotion content, and to provide an equivalent 'intervention' experience, participants randomised to the control group will be directed to a stand-alone WordPress website that presents comparable basic information. This will be akin to information provided by NHS Choices. The same basic information is also be duplicated within the Halo website.

5.9. Follow up procedures





Participants will complete follow up surveys via REDCap at 3 months (M3), 6 months (M6) and 12 months (M12). STI self-sampling test kits (Nucleic acid amplification (NAA) tests for chlamydia/gonorrhoea) will be sent to participants by Preventx at 3 months (M3) and 12 months (M12) follow up. As per baseline, at M3 and M12 participants will return their test kit to Preventx who will be responsible for processing the samples. In the case of a positive test result, treatment status data will be requested from participants as per the procedure set out in section 5.5.

5.10. End of Trial

The trial will end 48 months from the start (31st October 2028). Recruitment is anticipated to commence on 1st July 2025 and will end 18 months later on 31st December 2026 (or sooner if target sample size is reached). All participant involvement will end by 31st December 2027.

6. Safety

A full risk assessment has been conducted for the trial with relation to participant safety. Potential risks are considered in line with normal everyday risks.

6.1. Adverse events (AEs)

Adverse events (AEs) will be captured throughout the entirety of the trial, using both formal (survey) and informal (other direct communication) methods. Items to identify the AEs stated below will be included in the M3, M6 and M12 surveys. At M3, these will ask participants to self-report any AEs from the start of the trial (taken as the point at which they viewed the trial advert). At M6 and M12, these will ask participants to self-report any AEs that occurred in the intervening time periods. Participants will also be able to report AEs directly to both the Trial Team and Preventx at any time, using the contact details provided. AEs will be followed up by an email to participants, offering support and seeking further information on the event to establish severity, relationship to the intervention and outcome.

The Trial Manager and joint-CIs will be alerted of all AEs that occur during the RCT. A report will be created for each AE and stored in the TMF/Preventx Investigator Site File (ISF), and all safety events (regardless of origin and seriousness) will be recorded in an adverse events log on REDCap from trial commencement. All safety events will be reviewed by the UH core research team on a weekly basis and will be followed up until resolved (if applicable). AEs will be reported to the CTSN and Sponsor.

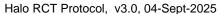
All AEs will also be documented in each DMEC and TSC report, allowing members to confirm that adverse events have been appropriately managed and resolved. DMEC and TSC members will provide guidance and advice on how to address recurring and/or concerning AEs during the meetings.

Any events considered serious will follow the procedure outlined in 6.1.3.

6.1.1. Survey items used to identify Adverse Events (AEs)

We have identified four potential expected adverse events that could occur because of participation in the RCT:

- Inadvertent disclosure to another person that the participant is sexually active/testing for an STI
- 2. Side effects of STI treatment (if relevant)





- 3. Experience embarrassment and/or distress because of referral for positive STI test result and/or safeguarding concern
- 4. Allergic reaction to condoms (e.g. due to latex)³

Participants will be asked to select whether any of the above events have occurred for them. There will also be an 'other' option to allow participants to record anything else that has happened.

Any safeguarding concern will be treated as an adverse event and reported as set out below.

6.1.2. Safeguarding

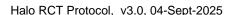
Oversight for safeguarding will be provided by UH's School of Health, Medicine and Life Sciences (HML) safeguarding lead. A Halo safeguarding procedure has been developed and will be applied to the RCT (see Appendix 7). This procedure is in line with HML departmental safeguarding policy. The Halo safeguarding procedure has been approved by a UH safeguarding lead (school level) and the DMEC.

UH will have responsibility for identifying safeguarding concerns. UH, together with NHS trusts, located within partner local authority areas from which participants are drawn, will have responsibility for acting on safeguarding concerns. The Halo safeguarding procedure is summarised here.

Questions will be included within all follow-up surveys (M3, M6, M12) to identify evidence of sexual exploitation, abuse, assault, or coercion. These questions have been reviewed by a UH safeguarding lead (school level) and UH Disability Services. Where indicated, participants aged 18+ will be sign-posted to sources of information and support via email, as well as being offered one-to-one support from the HML safeguarding lead. Those under 18 years will be referred to their local NHS Trust sexual health service for further investigation and support. This could involve further onwards referral to statutory services such as adult/child social services or reporting to the police where a crime has been committed; this would however be a decision made by the respective trust, in consultation with the participant where appropriate. They will be informed by email that this is happening and supported by the UH core research team through this process; the email will advise that contact will be by phone, that the person making contact will be a sexual health nurse, and that they will confirm their identity and that it is safe to speak before proceeding. When making the referral, the UH core research team will send the trust the individual's contact details along with the responses they made to the relevant survey questions. This limit to confidentiality will be clearly outlined in the participant information sheet and reiterated within the survey just prior to completion of the relevant questions (which are optional).

During the research, it is possible that a participant may directly disclose that they are experiencing, or have experienced, sexual exploitation, coercion, assault or abuse to a member of the research team (e.g. when undertaking telephone calls to collect minimum data from surveys). Prior to the commencement of data collection, training will be delivered to the UH core research team and anyone else responsible for data collection by the HML safeguarding lead on how to identify and appropriately respond to safeguarding needs. In line with the Halo safeguarding procedure, if a participant is aged 18+, and there is no indication of specific vulnerability, they will be sign-posted to sources of information and support via

³Allergic reactions to condoms will be managed as AEs, not Adverse Reactions (ARs), for the following reasons; i) this is a non-CTIMP trial, ii) the effect of the condoms on clinical outcomes is not being investigated; they are being provided as an optional product within the Halo intervention, and iii) condoms provided as part of this trial already have marketing authorisation within the UK.





email, as well as being offered one-to-one support from the HML safeguarding lead. If they are under 18 years of age (or they are considered vulnerable in other ways), the HML safeguarding lead would be contacted and the case discussed. If the individual is deemed to be at clear risk of harm, then confidentiality would be broken, and their contact details passed on to their local NHS trust as above. Where the level of risk is unclear, the HML safeguarding lead will ask that further information is gathered (without the need to break confidentiality) and then use this to decide on the appropriate course of action. Where the level of risk is considered low, the HML safeguarding lead may advise that the individual is signposted to sources of support (without the need to break confidentiality). As before, this is clearly explained within the participant information sheet. If any contact with the participant identifies that they are (or may have been) the victim of a crime, the HML safeguarding lead will support them to report this to the police, if that is their express wish.

All participants will be given sources of information, advice, and support in relation to sexual exploitation, abuse, assault and coercion. This will be provided by default on completion of each survey, included within debriefing material, and embedded within the intervention and control group websites.

Note: just prior to entering the trial our participants will have been assessed for safeguarding by Preventx (using a set of questions which duplicate those used in our follow-up surveys). This occurs as part of the process of users ordering their STI self-sampling kit, with those requiring support being referred as required. To avoid confusion and parallel referrals for the same issue, we will therefore not include safeguarding items in our baseline survey. From the beginning of the trial, all our communication with participants will however provide details on how individuals can contact the team if they wish to discuss any concerns about their sexual health or wellbeing with us; this is also included in our participant information.

6.1.3. SAEs

An Adverse Event will be considered serious if the event:

- · resulted in death
- is life-threatening
- required hospitalisation or prolongation of existing hospitalisation
- results in persistent or significant disability or incapacity
- is considered medically significant by the joint-Cls/delegate⁴
- results in safeguarding due to experience of physical or sexual violence or abuse

Any research personnel who become aware of a possible SAE will notify the Trial Manager and joint-CIs within 24 hours of knowledge, who will then report this to the CTSN and Sponsor immediately using the CTSN SAE reporting form. All SAEs will be recorded in the AE log in REDCap and will be followed up until resolution, with any additional information reported to the CTSN. Original SAE reporting forms and subsequent follow-up information will be stored within the TMF and Preventx ISF.

Reports of SAEs that are i) **related** to the trial (i.e. they resulted from administration of any of the research procedures, and ii) **unexpected** (i.e. not listed in this protocol as an expected occurrence) will be reported to the relevant NHS Research Ethics Committee (REC) using the HRA Non-CTIMP Safety Reporting Form within 15 days of the joint-CIs becoming aware of the event. A copy of the SAE notification and REC acknowledgement receipt will be copied to the CTSN and Sponsor and stored in the TMF/Preventx ISF.

⁴ Participants reporting an active medical event will be referred to appropriate medical services for assessment (e.g. directed to 111, A&E, GP). The event will be followed up by the Trial Team in the same way as for other SAEs.



7. Data Collection, management and analysis

7.1. Data collection

Table 2 below provides an overview of measures and timepoints.

Table 2. Halo measures and timepoints

		Timepoint		
Measure	M0	М3	M6	M12
STI tests				
Nucleic acid amplification (NAA) tests for chlamydia/gonorrhoea	✓	✓		✓
Survey data				
Participant contact details (name, email address, postal address	✓			
and mobile phone number for communication during the trial)				
Demographic characteristics (date of birth, sex, gender identity,	✓			
ethnicity, sexual orientation; postcode from postal address will				
be used to identify Indices of Multiple Deprivation quintile)				
Current relationship status	✓	✓	✓	✓
Self-reported STI diagnoses		✓	✓	✓
Condom use behaviour (correct use and consistent use)	✓	✓	✓	✓
Behavioural determinants (Condom use self-efficacy, social	✓	✓	✓	✓
norms for condom use, attitude towards condom use, condom				
use skill, accessibility of condoms, condom use intentions)				
Health-related quality of life (EQ5D-5L)	✓	✓	✓	✓
Resource use and personal costs	✓	✓	✓	✓
Evidence of adverse events		✓	✓	✓
Evidence of contamination				✓
Safeguarding items (to identify evidence of sexual exploitation,		✓	✓	✓
abuse, assault or coercion).				

The total voucher incentive offered to participants is £75. Payment is staggered across the course of the RCT and paid in return for completing set activities as described in table 3 below.

Table 3. Schedule of incentives

Timepoint	Trigger	Amount (£)
MO	Participant randomised (occurs when they have provided all baseline data within 30 days of consent and passed all eligibility and screening checks)	10
Between M0 and M3	Control website: participant clicks on link provided Halo website: participant registers	5
M3	Participant completes M3 survey within 30 days of M3 survey invite	5
	Participant returns STI self-sample within 30 days of M3 survey invite	15
M6	Participant completes M6 survey within 30 days of M6 survey invite	10
M12	Participant completes M12 survey within 30 days of M12 survey invite	10
	Participant returns STI self-sample within 30 days of M12 survey invite	20



7.1.1. Baseline (Month 0)

STI Tests

The results of self-sampling tests (for presence of chlamydia and/or gonorrhoea at genital sites) ordered by participants just prior to seeing the advert for the trial, and which confer eligibility for participation in the RCT, will be considered the baseline measure (M0). The M0 self-sampling tests will be processed by Preventx. Reminders to return the M0 test kit (if required) will be managed by Preventx in line with their usual service pathway. Requests/reminders to confirm treatment status (in the case of positive test results) will be managed by the UH core research team and collected via a survey on REDCap (see section 5.5 for the schedule of requests/reminders).

At M0, the UH core team will on a weekly basis, complete an Excel file containing the user's first name, date of birth, telephone number and date of consent, for any new participants that have consented to participate in the RCT in the preceding week. The same information will also be included for any participants who consented prior to that week that we still do not have any baseline STI data for (until the 30-day window for providing a sample has passed; see section 5.6). This file will be stored in a folder on the Trial Master File/SharePoint. Access to this will be granted to a nominated member(s) of Preventx staff responsible for preparing and sharing baseline STI data with the UH core team. This nominated individual will be notified by the UH core team when the file is ready for their input. In response, they will record any known test results (detected, undetected, other) along with the date the sample was received at the laboratory and the date the result was reported.

Survey data

REDCap will be used to manage all survey data collected during the RCT. Completion of the M0 survey will occur immediately after consent is obtained.

The M0 survey will include:

- Participant contact details (name, email address, postal address, and mobile phone number for communication during the trial)
- Demographic characteristics (date of birth, sex, gender identity, ethnicity, sexual orientation; postcode from postal address will be used to identify Indices of Multiple Deprivation quintile)
- Current relationship status
- Condom use behaviour (correct use and consistent use)
- Behavioural determinants (Condom use self-efficacy, social norms for condom use, attitude towards condom use, condom use skill, accessibility of condoms, condom use intentions)
- Health-related quality of life (EQ5D-5L) (31)
- Resource use and personal costs

One text message reminder will be sent to all participants who have not completed their M0 survey three and six days after consent has been provided. As set out in section 5.6, those who have not completed their M0 survey 30 days after they completed consent will be classed as a non-responder and will not be randomised.

7.1.2. Follow up (Months 3, 6 and 12)





STI Tests

An account area, referred to as the Halo service area, will be set up by Preventx (on the secure external server they use for the sharing of STI data with NHS trusts) to enable Preventx and the UH core research team to co-ordinate the M3 and M12 processing of test kits and communication of test results. A user ID and password will be required to access the service area, which will be restricted to unblinded UH core research team members.

The UH core research team will trigger the distribution of STI self-sampling kits by Preventx via the Halo service area. As at baseline, these kits will be used to test for the presence of chlamydia and/or gonorrhoea at genital sites. Participants will receive an SMS text message six days before the test kit is sent, which provides a link to REDCap with the opportunity to check and amend their address details if required (address check'). Kits will contain the usual user instructions to collect a sample and return by Freepost to Preventx for processing.

Participants will receive an SMS text message reminder (originating from Redcap) to complete and return their self-samples five days after the test kit is dispatched (if no result yet reported in the Halo service area). If the sample remains unreturned, up to two additional SMS text message reminders will be sent, the first after a further 5-day interval (this time originating from the Halo service area), and the second after a further 8-day interval (again originating from the Halo service area). If the self-sample remains unreturned after these reminders, one email reminder 5 days later, followed by a phone call 6 days later, will be made if needed. Where no sample is received by the Preventx laboratory within 30 days of the M3 timepoint, or where this is received but the sample is classed as 'other', the participant will be classed as a non-responder (although see below for our offer of secondary kits for those with 'other' results). Non-responders will continue to receive surveys and self-sampling kits at future time points, unless they request to withdraw from the trial. The communication of test results to the UH core research team differs for M3 and M12. For these timepoints, the results will instead be recorded by Preventx in the Halo service area.

Participants who return their test kit and yield a 'other' result will be contacted and offered an additional test kit if there is at least 14 days left before the end of the 30-day window (thus allowing us sufficient time to send them another test kit and for them to return it). If they agree to this, a second self-sampling kit will be sent out. This will also be offered on occasions where a participant tells us that their kit is lost or undelivered. Participants receiving these secondary kits will receive one SMS text message reminder to complete and return their self-samples 5 days after their test kit is dispatched.

In line with the Preventx standard protocol, participants will be contacted by SMS text message (originating from Halo service area) when their result is known. In the case of negative results, the result will be communicated within the body of the message. Where the result is positive, the message will ask them to contact their local NHS trust sexual health service to discuss their result (contact details provided). This notification will be triggered in the Halo service area by the UH core research team (the team will be notified of the availability of new results via email). For those with a positive result, the UH core research team will make a direct referral to the same NHS Trust sexual health service (subject to data sharing agreements between UH and each NHS Trust; participant consent for this is required to enter the trial). This ensures that the service is aware of the positive case when the young person makes contact or can actively pursue contact if they are not forthcoming. Once contact is made, the sexual health service will arrange for appropriate treatment and support. Referral forms will be sent by the UH core research team to a '.nhs' or '.gov' email using UH's encrypted File Exchange. The referral to the trust will be made following a standardised procedure, using the same form as used for the safeguarding referrals, and in accordance with the requirements of each NHS Trust.

Participants who receive a positive test result will receive the same SMS text message request and reminders for treatment status as sent at baseline (see section 5.5).



Survey data

Participants will be asked, via an SMS text message sent from REDCap, to complete survey measures at M3, M6 and M12. The message will include a link to the relevant survey. The follow-up surveys include all items included in the baseline survey (M0), except for contact details and demographic characteristics (items excluded from follow-up surveys). Participants will be asked to self-report STI diagnoses since the last measurement timepoint. Items to identify evidence of adverse events will be included at M3 (to identify events from the point of seeing the advert), M6, and M12. The M12 survey will also include items to identify intervention use and evidence of contamination between trial groups.

If a survey has not been started, or is incomplete, five days after the invitation was sent, participants will receive up to three SMS text message reminders, then one email reminder, each spaced five days apart. If after five days there is still no response, participants will be telephoned and invited to provide verbal responses to a reduced set of survey questions (self-reported STI diagnoses, STI treatment (if relevant), condom use intentions, and condom use). Participants will be classed as non-responders if they have not completed the survey within 30 days of the initial invitation. Non-responders will continue to receive surveys and self-sampling kits at future time points unless they request to withdraw from the trial.

Figure 3 below displays the schedule of invites and reminders sent to participants requesting completion of surveys and STI test kits. At M6, only the survey invites and reminders are relevant (green bubbles).

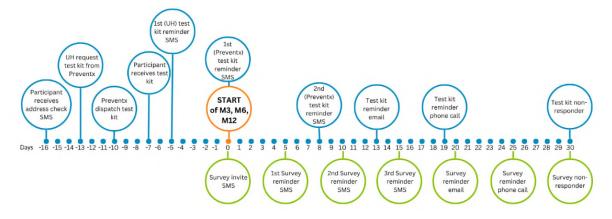


Figure 3. Schedule of survey and STI test kit invites and reminders at follow-up

7.1.3. Other data

Halo intervention website registration details

As part of the registration process for the Halo intervention website, participants will be asked to create log-in details (email and password) and enter the following data: name, postal address, mobile phone number, email address, date of birth (to determine age).

Characteristics of the sampling pool

Preventx will provide the UH core research team with weekly data on the demographic characteristics (age, biological sex, ethnicity, IMD quintile, sexual orientation) and levels of chlamydia positivity of users, by local authority area, who during the recruitment period: a) are shown the RCT recruitment advert, and b) click on the advert. This will enable analysis to determine whether those who choose to participate are representative of the sampling pool i.e. of Freetest.me/SH.UK/SHL.UK users.



Engagement with the intervention website

Data on individual-level engagement with the Halo website will be collected using within-website analytics. Participants' access to the Halo website will be via a unique URL (containing each participants trial ID) enabling individual-level use to be recorded.

For each participant randomised to receive the Halo intervention, we expect to collect the following data:

- Whether they register
- How many times they visit
- Whether the condom sample pack is ordered (one-off order)
- Whether they use the condom ordering service used (ever)
- For each visit:
 - Duration of visit
 - o For each video, whether played, and if so, how long for
 - Pages visited and time spent on each page (not including time spent watching any videos)
 - o Whether the condom ordering service used and if so:
 - Number of condoms orders (if applicable)
 - Number of sachets of lubrication ordered (if applicable)

We are still exploring what data will be available but it likely to include all the above as a minimum.

Engagement with the control website

Data on engagement with the control website will be collected using within-website analytics. Unlike for the intervention website, this will be aggregate-level data (rather than individual-level data). We are still exploring what data will be available but it likely to include, total number of visits to the site, mean duration per visit, and total number of visits to each page.

7.2. Data management

Data collected during the trial will be managed and processed in accordance with the Data Protection Act (2018) and the UK General Data Protection Regulations (UK GDPR). All data will be pseudo-anonymised prior to storage by removing name, mobile phone number, postal address, and email address. A participant identification number (PID) will be automatically allocated to every participant by REDCap upon their consent to take part in the trial. A pseudonymisation file will be maintained to ascertain a participant's identity where safeguarding concerns are raised or where there are data processing queries.

Data will be stored on REDCap during the trial. REDCap is a secure data capture and management platform hosted on a UH server and which has been assessed by UH's Data Protection Officer as meeting UK GDPR data standards. Only unblinded members of the UH core research team, the trial database manager (DL), and the trial statistician (SE; once SAP signed off) will have access to data on REDCap. Co-investigators (Tia Broderick (TB) and Kanika Leo (KL)), and other delegated individuals, responsible for collecting survey data by telephone will enter this directly on to a separate REDCap instrument linked to the Halo REDCap database (thus they will remain blinded to treatment allocation).

A Data Protection Impact Assessment (DPIA) has been completed and approved by the UH Data Protection Officer. Procedures for data handling and archiving of specific types of trial data are detailed below and are specified in the Halo Data Management Plan.



- Consent, survey (M0 (including personal details), M3, M6 and M12) and STI treatment outcome data (M0, M3 and M12): These will be stored on REDCap for the duration of the data collection.
- STI test results (M0, M3 and M12): M0 STI test result data from Preventx will be stored in a restricted MS Teams channel or SharePoint folder for the purposes of data sharing and then moved to the R Drive for storage during the data collection period. M3 and M12 test result data will remain in the Halo Service area (with personal details and test kit codes) on the Preventx website, during data collection. Upon receipt of these data (all time points), results will be directly entered into REDCap by unblinded UH core research team members. Entered data will be monitored for accuracy by other unblinded members of the team. These STI test results will be stored in REDCap for the duration of the data collection.
- Safeguarding and STI treatment referral data: PID, referral type, and date of referral
 will be recorded within REDCap and referral forms will be stored on the Halo UH R Drive,
 encrypted with a password. The UH R Drive is a secure research data file storage system
 hosted on the University of Hertfordshire server that meets UK GDPR data standards.
- Halo website registration data: Halo registration data (name, email address, postal
 address, mobile phone number, date of birth) will be stored within the Halo website content
 management system for the duration of the data collection. No registration is required to
 access the control website; no data is directly requested from participants using this site.
 For the Halo website, PIDs (appended to URL used to direct users to the site) will be
 automatically captured to enable individual-level analytics data to be associated with the
 trial data.
- Intervention engagement data: Engagement data will be stored within the Halo and
 control websites for the duration of data collection. This will be accessible to the unblinded
 members of the UH core research team. In addition, specified members of the website
 development team (Red Bullet) will have access to engagement data stored on the Halo
 website. These individuals will have administrative access during the trial to enable them
 to provide technical support as/when required.
- Adverse Event data: An AE log will be held within REDCap. Completed AE/SAE forms, and relevant supporting documentation, will be stored in the TMF and Preventx ISF (where appropriate). The TMF and Preventx ISF will be held on a Halo MS Teams site, with access restricted to individuals specified in the delegation log.
- Sampling pool data: For the purposes of data sharing with the Trial Team, the weekly sampling pool data will be briefly stored in a restricted MS Teams channel or SharePoint folder. The files containing this data will then be moved to the UH R Drive for storage during the data collection period.
- **SMS message data:** Participant telephone number and first name will be stored on Twilio (third-party service to send alerts/notifications/reminders via text message) during the data collection period.

7.2.2. During analysis

• Consent data: Consent forms will be downloaded and deleted from REDCap, then stored on the UH Halo R Drive for 6 years (as per Sponsor requirements).



• Survey data (M0, M3, M6 and M12), and STI test result and treatment outcome data (M0, M3 and M12): At the end of data collection, the trial database (containing survey data, and STI test result and treatment outcome data) will be locked and data downloaded from REDCap by the BSCTU Database Manager (DL). The downloaded data will be stored in a folder on a private channel within the Halo MS Teams site, or a restricted SharePoint folder, hosted on secure UH servers. Personal data (email address, postal address, phone number, date of birth) will be removed and then the data cleaned and coded in preparation for analysis; data will reside here until analysis is complete. Access to the data folder will be limited to the trial manager (SW), trial statisticians (SE, SB) and co-investigators undertaking analysis relating to some of the secondary outcomes (Katie Newby (KN), Katherine Brown (KB), Rik Crutzen (RC), Louise Jackson (LJ) and health economist TBC). In accordance with the respective data sharing agreements, and as specified in the DPIA, these co-investigators will be allowed to upload and process the data within relevant data analysis software providing this resides within a folder located on their secure university server.

If data is transformed during processing, a new version will be created and named with a version history used to record these transformations. This will ensure that it is always possible to compare the original data with the processed data.

- Safeguarding and STI referral data: Referrals type and date recorded within REDCap will be managed as per the survey, STI and treatment status data.
- **Website registration data:** Registration data is not collected by the control website. Halo registration data will be retained on the website until the end of the trial.
- Intervention engagement data: Analytics data (along with PIDs; required for those randomised to Halo for linking purposes) will be downloaded from the Halo and control website content management systems. During data analysis an encrypted pseudonymised file containing the engagement data will be stored within a folder in a private channel within the secure Halo MS Teams site hosted on the secure UH server and access limited as described above.

7.2.3. End of trial

At the end of the trial, data will be archived in accordance with the procedures outlined in section 12.3 (record retention and archiving).

7.3. Data analysis

Sociodemographic, clinical, and quality of life data at baseline will be described by treatment group, and overall. Means, standard deviations and ranges will be calculated for normally distributed variables, and medians interquartile ranges and ranges for skewed continuous variables. Frequencies and percentages will be calculated for categorical variables. An overview of analyses per objective is provided as follows. This is subject to modification as our thinking evolves through the process of developing our Statistical Analysis Plans.

1. To determine whether the addition of Halo to usual care reduces chlamydia positivity at 2 months (primary objective).

Chlamydia positivity at 12 months (calculated using biological test data), will be compared, between treatment groups, using a log-binomial regression model, adjusting for baseline chlamydia positivity, including a fixed effect for treatment group and adjusted for the following covariates considered a priori, prognostic of outcome: sexual identity (MSM vs. all others), ethnicity (Black vs. all others), IMD quintile (each quintile vs. quintile 1 (most



deprived)), gender (male vs. all others), and age (in years). We will report the relative risk, its 95% confidence interval and p-value. Should the model fail to converge, we will instead estimate the odds ratio by fitting a logistic regression model.

2. To determine whether the addition of Halo to usual care reduces gonorrhoea positivity at 12 months.

Analysis and reporting as per the primary outcome above, except adjusting for baseline gonorrhoea positivity.

3. To determine whether the addition of Halo to usual care reduces repeat infections or (cumulative) incidence of chlamydia or gonorrhoea.

Cumulative incidence of either infection will be compared between groups using a proportional hazards model for time-to-diagnosis based on the biological data. We will adjust for the same covariates listed in objective 1 as well as baseline positivity, reporting the estimated hazard ratio for Halo plus usual care versus usual care alone, the 95% CI and p-value. Repeat infections in the 12 months post-randomisation will be modelled using an ordinal logistic regression model with the outcomes being: no infection, one infection episode, or more than one infection episode (based on biological samples and self-report). We will adjust for baseline positivity and the same covariates listed in objective 1 and report the estimated odds ratio, 95% CI and p-value.

4. To determine whether the addition of Halo to usual care increases the frequency of correct and consistent condom use during vaginal and/or anal sexual intercourse.

Condom use at last sex will be analysed using mixed effects Poisson regression with clusterrobust standard errors adjusting for the same covariates listed in objective 1, plus a categorical variable for time point, treatment by time interaction term and a random effect to take account of the repeated quarterly survey sampling per participant. We will report the estimated prevalence ratio comparing the treatment groups, 95% CI and p-value. Condom use frequency in the last 3 months will be analysed using a mixed effects ordinal logistic regression model adjusting for baseline condom use frequency in the last 3 months and the same covariates listed in objective 1, plus a categorical variable for time point, treatment by time interaction term and including a random effect for the repeated quarterly survey sampling per participant. We will report the estimated odds ratios, 95% CI and p-value. For incidence of protected sex in the last 3 months, we will fit a mixed effects tobit model, adjusting for baseline incidence of protected sex in last 3 months and the same covariates listed in objective 1, plus a categorical variable for time point, treatment by time interaction term and a random effect for the repeated quarterly survey sampling per participant. We will report the estimated difference in mean proportions between trial groups, the 95% CI and pvalue. Each of these models will be fitted separately for main/usual partner outcome data and casual partner outcome data.

5. To examine whether STI and behavioural outcomes differ by subgroup (ethnicity, sexual orientation, and deprivation).

Three separate models will be fitted including the interaction term between randomisation group and each of these subgroup variables in turn. The same covariates listed in objective 1 included.

6. To determine whether the effect of Halo on STI outcomes is mediated by changes in the targeted behaviour and behavioural determinants.

We will perform a causal mediation analysis by fitting parametric regression models. For each of the five potential mediators (condom use self-efficacy, social norms for condom use,



attitude towards condom use, condom use skill, accessibility of condoms), two models will be estimated. The first model is for the mediator conditional on treatment group and the covariates listed above. The second model is for STI positivity conditional on treatment group, the mediator, and the covariates (as per objective 1), whereupon direct and indirect effects will be estimated. We will report the estimated effects, 95% CIs and p-values.

7. To determine whether adding Halo to usual care is cost-effective and analyse impacts on equity.

A within study analysis and a model based economic analysis will be undertaken.

Within study analysis: The within study analysis will primarily use the data collected within the RCT. Initially, the base case analysis will be framed in terms of a cost-consequences analysis, and data will be reported in a disaggregated manner on the incremental cost and important consequences assessed in RCT. The main economic analysis will involve a cost-utility analysis based on incremental cost per quality-adjusted life year (QALY) gained at 12 months (in line with NICE guidelines (58)), with a secondary cost-effectiveness analysis of cost per reduction in chlamydia positivity at the same time point (to reflect the primary clinical outcome of the trial).

Model-based analysis: If the trial shows that Halo is effective in reducing chlamydia positivity compared with usual care, the cost-effectiveness of the intervention over the longer term will be assessed. For this, a decision-analytic model will be used to evaluate the longer-term impacts of the intervention compared with usual care (59). The evidence used in the model will be drawn from the RCT, with data on longer term costs and outcomes derived from the literature. If data availability permits (based on an assessment of the results of the RCT and a pragmatic literature review), a societal perspective will be adopted, alongside an NHS perspective. An appropriate time horizon for the model will be determined based on the results of the pragmatic literature review and if possible, based on assessment of the available data, a lifetime approach will be adopted (60). The uncertainty around key parameter estimates will be modelled using probability distributions to allow a probabilistic sensitivity analysis (PSA) to be undertaken (61).

As an additional analysis we will consider impacts on equity. These methods are still being refined, and a range of options will be considered (62). As such methods have not previously been used in a sexual health context, we will first conduct a pragmatic review of the literature to assess the most appropriate approach and be informed by emerging practice (63). For example, proposed approaches include equity impact analysis, equity trade-off analysis, and multi-criteria decision analysis (64). Drawing on this evidence base, we will undertake both a traditional economic evaluation and a fuller analysis taking into account equity considerations to inform decision-making.

The economic evaluation will be conducted and reported in accordance with relevant guidelines (e.g. (57)). For the longer-term analyses, discounting will be undertaken to reflect recommendations by NICE.

8. To describe the level and patterns of engagement with Halo, and to identify whether patterns of engagement differ by subgroup (ethnicity, sexual identity and deprivation).

We will describe engagement with Halo using analytics data This will include: frequency of registrations; percentage of conversions (proportion of those shown the advert who register); median and interquartile range for time spent on site, number of visits to site, number of videos played, and time spent watching videos; frequencies and percentages for order of condom/lube sample pack and condom carrier; the frequency/percentage of those making



one or more monthly condom/lube orders, and the median and interquartile range for the number of orders.

To determine whether engagement differs by subgroup, we will first perform a hierarchical cluster analysis to identify meaningful groupings that reflect patterns of use e.g. 'early disengagers', 'committers'. We will then perform logistic regression to identify whether sexual orientation, ethnicity, IMD, gender and age (groupings as per primary objective), predict cluster membership.

9. To determine whether STI and behavioural outcomes differ by patterns of engagement with Halo.

To address this objective, we will examine RCT outcomes across the engagement clusters (as identified previously - see objective 8 above). This will be performed using logistic regression for STI positivity, mixed effects Poisson regression with cluster-robust standard errors for condom use at last sex, mixed effects ordinal logistic regression for frequency of condom use, and mixed effects tobit regression for instances of protected sex. Covariates as per objective one will be entered into the models and for the mixed models, additionally time point as a categorical variable, treatment by time interaction and a random effect of the repeated quarterly survey sampling.

Trial data will be analysed following intention to treat principles. Patterns of missingness will be examined and multiple imputation may be performed as appropriate, with sensitivity analyses for data missing at random. Statistical analysis plans (SAPs), developed by the statisticians (SB & SE) and co-investigators, will be reviewed by the TSC statistician prior to database lock and the final analysis commencing. The DMEC statistician and health economist, and the TSC health economist, will be invited to review the SAPs but this will not be a requirement.

Any deviations to analyses as specified in the SAPs will be made in agreement with the trial statisticians (SB & SE) from Brighton and Sussex CTU and the relevant co-investigators. A log of these deviations will be maintained in the TMF. They will also be fully described and justified in the final report.

A report for each participating local authority will be produced following the end of recruitment, based on the baseline characteristics of trial participants from each respective area. Baseline demographic, STI positivity and condom use data will be described using means, standard deviations and ranges for normally distributed variables, and medians interquartile ranges, and ranges for skewed continuous variables. Frequencies and percentages will be reported for categorical variables.

Recruitment, retention and safety data will be analysed on a 6-monthly basis and reported to the DMEC and TSC. These data will be described using frequencies and percentages, by treatment group (DMEC only, following unblinding of trial statistician) and overall. No other interim analyses are planned.

8. Ethical considerations

The Halo RCT will be undertaken according to the principles of ICH Good Clinical Practice (GCP), the Declaration of Helsinki (2024), and all relevant ethics and governance processes. Ethical approval will be sought from the UH research ethics committee and an NHS Research Ethics Committee (REC) prior to the start of recruitment. Protocol amendments



will be approved by the Sponsor and relevant REC prior to their implementation; the ISRCTN registry record will also be updated.

Ethical considerations for the Halo Trial:

- Fully informed consent: participants will be required to provide informed consent prior to
 participation in the RCT. Participant information (including possible benefits and risks) will
 be provided, and participants will be given the opportunity to ask questions. Consent forms
 will be completed online.
- Participants' rights: participants will be able to contact the UH core research team at any time via email Halo@herts.ac.uk and telephone. Participants will be able to withdraw from the trial at any point, with no requirement to provide a reason.
- Participants' safety: the intervention and control material are unlikely to have any harmful effects on users. Nonetheless information on organisations that can offer help and support with regards to sex and relationships will be included on both the intervention and control websites and provided by default on completion of each survey and included within debriefing material following a qualitative interview. A Halo Trial-specific safeguarding procedure is also in place to identify and appropriately support individuals who disclose sexual abuse/coercion during the trial (see section 6.1 above). As research sponsor, the University of Hertfordshire will provide professional indemnity through its insurance cover.

An end of study declaration and final study report will be submitted to the REC at trial end. If the research is terminated early, or is temporarily suspended, the REC will be notified within 15 days.

9. Quality assurance and control

9.1. Risk assessment

A formal Risk Assessment has been completed for the trial. The risk assessment breaks down possible risks into four areas:

- Impact on the rights and safety of participants
- Risks associated with project concept (design) and reliability of results
- Risks associated with project management and governance
- Any other risk considerations

Participation in the Halo RCT is considered to pose limited risk. Participants will complete survey measures and provide STI self-samples. Participants will need to provide consent for sensitive personal data held about them by Preventx to be accessed (result of their M0, M3 and M12 chlamydia and gonorrhoea test result). This, along with all other data collected as part of the trial, will be handled in accordance with the latest data protection legislation and as stated in the Halo data management plan.

All participants will be provided with information about how to access support for anything related to their participation in the trial.

Those provided with a link to Halo will be able to access web-based resources designed to encourage and support condom use. These individuals will be free to choose whether they order products and/or view the material provided on the website. Risks associated with these actions are in line with normal everyday risk. As a result of engaging with the content, some people may attempt to use condoms and fail, and this may have some negative psychological impacts in the short-term.

Those provided with a link to the control website will have access to usual care information about STIs and condom use.



The Quality Assurance (QA) and Quality Control (QC) procedures for mitigating these risks, and those relating to project design, management and governance, are detailed in the formal Risk Assessment and described below.

9.2. Monitoring

The Trial Manager, with support from the unblinded members of the Trial Team and the CTSN, will be responsible for the monitoring of the trial. Monitoring oversight will be provided by the UH Clinical Trials Support Network (CTSN). Monitoring will be conducted in accordance with the Halo Trial Quality Management and Monitoring Plan (QMMP), informed by the outcome of a formal Risk Assessment.

9.3. Trial oversight

The UH CTSN and BSCTU will collaborate to provide trial oversight. The CTSN will support the Trial Manager (SW) and oversee quality assurance (including monitoring). The BSCTU (SB, SE, DL) will oversee database management and provide statistical analysis.

The Halo Trial will be overseen by the following committees/groups:

- 1) Trial Steering Committee (TSC)
- 2) Data Monitoring and Ethics Committee (DMEC)
- 3) Trial Management Group (TMG)
- 4) Trial Team (TT)

9.3.1. Trial Steering Committee (TSC)

The TSC, led by an independent chair, will meet every six months. They will provide overall supervision for the trial on behalf of the project sponsor and the project funder. This will include stakeholders who will guide project planning, decision-making, project delivery, dissemination and impact planning and delivery, with reference to their experience of the contexts, people and infrastructures of relevance to web-based STI self-sampling. They will ensure that the trial is conducted to the standards set out in the Department of Health and Social Care's Research Governance Framework for Health and Social Care and the Guidelines for Good Clinical Practice.

The Committee will consist of at least 75% independent members and include a sexual health commissioner, a representative of sexual health service provision (e.g. a sexual health consultant), an independent health economist, an independent statistician, an independent senior sexual health researcher, third sector representation (e.g. Brook, Terrence Higgins Trust, Sex Education Forum), and representatives from the three main types of web-based STI self-sampling (commercial, third sector, and NHS). Members of the Young People's Advisory Group representing Patient and Public Involvement will also join the TSC, supported by the PPI lead (LMB).

9.3.2. Data Monitoring and Ethics Committee (DMEC)

The DMEC, led by an independent chair, will meet every six months, approximately four weeks before the TSC meetings and will provide overall supervision for the trial on behalf of the project sponsor and the project funder. All DMEC members will be independent, with no competing interests, and will include a statistician and health economist. The DMEC's role is to monitor trial data and make recommendations to the TSC on whether there are any ethical or safety reasons as to why the trial should not continue, ensuring the safety, rights, and wellbeing of the trial participants. However, the final decision to end the trial lies with the Sponsor.



9.3.3. Trial Management Group (TMG)

This will comprise of the Trial Team (see 9.3.4) and all the co-investigators. Should the Preventx co-investigator (MC) be unable to attend TMG meetings, another staff member (JH) will attend in his place. The TMG will be responsible for monitoring the progress of the trial, addressing key issues that may arise and reporting to the funder. Meetings will take place every three months, or more frequently if required. The TMG will meet a month before the DMEC so that the DMEC and TSC reports can be approved.

9.3.4. Trial Team (TT)

The Trial Team will consist of the UH core research team which includes the joint-CIs (KN and KB), Trial Manager Stef Williams (SW), Research Fellows Kayleigh Kwah (KK) and Lauren Schumacher (LS) and Research Assistant Isobel Simmons (IS). They will meet weekly, with additional ad hoc meetings and email discussion as required. In addition, BSCTU staff (DL, SE) and the CTSN Manager (KI) will attend this meeting once a month at a minimum, but more frequently when required. The Trial Team will be responsible for managing day-to-delivery of the trial. This team will ensure all practical aspects of the trial are progressing well and identify potential issues as early as possible. Other co-investigators will attend these meetings and will have separate ad hoc meetings with members of the Trial Team as required.

9.3.5. Brighton and Sussex Clinical Trials Unit (BSCTU)

The Brighton and Sussex CTU will be providing trial oversight. Trial personnel from the BSCTU are the co-investigator and lead statistician (SB), statistician (SE) and database manager (DL). The BSCTU statisticians will:

- Develop the Statistical Analysis Plan (SAP) for the main primary and secondary outcomes, and support relevant co-investigators to develop SAPs for their planned analyses (other secondary outcomes), with input from the Trial Team
- Produce the DMEC reports, with support from the Trial Manager
- Conduct statistical analysis of data relating to the main primary and secondary outcomes, and support relevant co-investigators to perform their analyses (other secondary outcomes)

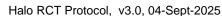
The database manager (DL) will support the design, delivery and management of the trial database, with support from Research Fellow (KK), and will support data cleaning.

10. Public and patient involvement

Public involvement will be embedded throughout the trial. The Halo Public Involvement Lead (LMB) has extensive expertise in supporting diverse young people's involvement in research using inclusive approaches. Young people's involvement will be planned in collaboration with the public co-investigators (KL and TB) and young people's advisory group (YPAG) members to be as flexible and inclusive as possible, with 'pockets of participation' depending on young people's interests, availability, and personal circumstances.

Young people's involvement will be led by LMB along with the other members of the 'public involvement team' (KN, IS, KL and TB), who will meet monthly to plan and review public involvement. Public involvement will also be a standing item on all TMG meetings, ensuring that it is seen as central to the project by the wider team, who will also be encouraged to attend YPAG meetings. Public involvement in the trial will include a combination of:

A YPAG of up to 12 young people, who will be involved throughout the project. This
number is anticipated to fluctuate throughout the project, in which case further
recruitment can take place.





- We anticipate that the YPAG will meet mainly online four times per year and two inperson meetings have been costed for across the project. The timing, format and location of meetings will however be determined through discussions with YPAG members. The YPAG will also have opportunities to inform the project in other ways (e.g. contributing to documents in between meetings using digital platforms, subgroups meeting to focus on specific elements where more intensive input is needed). The group will receive training and support as needed throughout the project.
- Two public co-investigators (KL and TB) will be involved throughout as part of the public involvement team and will co-facilitate YPAG meetings with LMB.
- Two YPAG members will be on the Trial Steering Committee and provide a link to/from the wider group.

All young people involved will be paid for their time. The public co-investigators will be employed on an 'Expert by Experience' contract and paid at the standard UH public involvement rate. Members of the YPAG will be paid for their time in either vouchers or BACS transfer (according to their preference) at £20 per hour.

Young People's Advisory Group (YPAG) Recruitment

Young people will be recruited through multiple routes to maximise reach and diversity across demographic characteristics including:

- Inviting those who participated in the former Wrapped feasibility trial
- Inviting those who participated in a user experience study of the former Wrapped intervention (who had been recruited by nationwide Preventx advert and via the UH psychology student cohort)
- Inviting those approaching the department for work experience enquiries
- Advertising via local schools, colleges and further/higher education
- Advertising via relevant charities e.g. Brook
- Word of mouth and snowballing

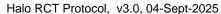
11. Protocol compliance

The joint-CIs will ensure that the trial is conducted in compliance with the principles of the Declaration of Helsinki (2024), and in accordance with all applicable regulatory requirements including but not limited to the Research Governance Framework, Trust and Research Office, and Clinical Trial Support Network (CTSN) policies and procedures, and any subsequent amendments.

All potential breaches of GCP or deviations from the protocol, will be reported immediately to the joint-Cls or, in their absence, the Trial Manager. Any deviations will be documented in the Trial Master File (TMF). The joint-Cls (or Trial Manager) will carry out an assessment of whether the event should be treated as a serious breach i.e. it affects the safety, physical or mental integrity of trial participants, or the scientific value of the trial. If the event relates only to a protocol violation, this will be documented in the TMF.

Any possible serious breaches will be reported to the Sponsor and CTSN immediately (within 24 hours). The CTSN will discuss the issue with the joint-CIs and details of this discussion will be provided to the UH's Governance of Clinical Studies Group (GCSG) immediately. The GCSG/sub-group will assess the event and consider if it qualifies as a serious breach of GCP. If so, the Trial Team will be informed of further actions and recommendations. Serious breaches will also be reported to the relevant ethics committee within 7 days if the deviation is in breach of the ethical conditions of trial approval. The sponsor/CTSN will work with the Trial Team to devise a formal plan of Corrective And Preventative Action (CAPA) to address the breach.

The sponsor will maintain a log of any non-compliance to ascertain if there are any trends developing which need to be escalated. The sponsor will assess the non-compliances and





action a timeframe in which they need to be dealt with. Each action will be given a different timeframe dependant on the severity. If the actions are not dealt with accordingly, the Sponsor/CTSN will agree an appropriate action, such as a full audit of the trial and general trial management systems and procedures.

12. Data protection and participant confidentiality

12.1. Confidentiality

The joint-CIs have a responsibility to ensure that participant anonymity is protected and maintained. They will ensure that participant identities are protected from any unauthorised parties. Information regarding trial participants will be kept confidential and managed in accordance with the UK Data Protection Act (2018) and the General Data Protection Regulations (EU GDPR) 2016/679, NHS Caldicott Guardian, The Research Governance Framework for Health and Social Care, and Research Ethics Committee (REC) Approvals.

In accordance with current Data Protection legislation, UH and Preventx will be joint data controllers for all data residing within the Halo service area, and UH will be data controller for all other data. The joint-CIs (KN and KB) are the 'custodian' of the data. All unblinded UH core research team members will have access to personal, identifiable data; this is required should a safeguarding concern arise. Pseudonymised data will be available to specified members of the TMG that are responsible for data analysis and reporting. Specified members of the website developer team will have administrative access to the website database to provide technical support for the duration of the trial. Data residing within the Halo service area will be accessible to nominated Preventx employees and unblinded UH core research team members. A Data Protection Impact Assessment (DPIA) has been completed.

Personal, identifiable data will be stored securely in the UK. The following personal identifiable information will be collected from RCT participants:

- Name
- Email address
- Mobile phone number
- Postal address
- Date of Birth

The following GDPR special category data will also be collected from RCT participants:

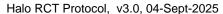
- Ethnic origin
- Physical or mental health information
- Sex life/sexual orientation
- Biometric data

Participants can withdraw from future participation in the trial at any point, resulting in them not receiving any future correspondence from the team. They will not have the right to request the removal of any data collected up until that point. Any publications resulting from the trial will use anonymised data only.

12.2. Case Report Form

12.2.1. REDCap

REDCap will be used to set up the electronic Case Report Form (eCRF) for the Halo RCT. The eCRF (referred to within this protocol as the trial database) will be hosted on the UH secure server. Access to REDCap, and specific fields within the trial database, will be restricted using password protection according to pre-specified user requirements. A list





identifying individuals permitted to add and make changes to the data will be stored in the TMF.

Database design

The REDCap database will be based on that used for the former Wrapped feasibility trial. The functional specification for the trial database will be developed by the Database Manager (DL), supported by a member of the UH core research team (KK), with guidance on data requirements provided by relevant co-investigators and Trial Team members.

Database build and Quality assurance

The database will be tested (as described above) to ensure it is fit for purpose and in accordance with the pre-specified functional specification. The trial statisticians will review the database, the database code book and the statistical analysis plans, and ensure that data collected is appropriate and in the correct format to enable analysis.

Prior to moving the REDCap project into production, the database will be thoroughly tested by the Database Manager (DL), statisticians (SB, SE), members of the YPAG, and the UH core research team. A database test plan will be developed by the Database Manager (DL) using the current BSCTU standard operating procedures. The test plan will include 1) System developer testing, ii) User Acceptance Testing, and iii) Export testing. Testing will take place on a test database, and the process will involve:

- The Database Manager, or delegated individual, will check the database against the design specifications, to include technical checks of mapping the data to the correct tables, format, lengths, variable types etc.
- One complete set of dummy data will be entered, containing both valid and invalid data
 e.g. some date fields with inconsistent dates such as a date of randomisation before
 date of birth. Deliberate errors such as boundary values or incorrect values should be
 included to ensure any form or rule-based input validation works as expected. Any
 inconsistencies or errors will be recorded on a REDCap Testing Issue Log and given
 to the Database Manager at the end of each testing cycle
- An export of the test data including at least two complete participants will be sent to the statisticians, and all co-investigators responsible for secondary analyses, for approval
- Relevant changes to the database will be made based on the Issue Log and a new version of the database released for further testing
- Each new version will be recorded on the REDCap Testing Report and Sign Off Form
- Testing will continue until no more errors are found in the design and the Trial Team are satisfied that the database has been thoroughly tested
- The joint-CIs will approve the final trial database using the REDCap Testing Report and Sign Off Form
- The Database Manager will then release a clean, live version of the database

All documentation including correspondence, dummy CRFs, REDCap Testing Issue Logs, and completed REDCap Testing Report and Sign Off Form, will be stored in the TMF.

Data entry

During the trial, data will be entered into the database by participants, UH core research team members and specific members of the TMG (TB, KL) as described below:

• **Trial participants**: Consent; M0, M3, M6, and M12 surveys; M0, M3 and M12 treatment status, M6 and M12 address check.

Participant-facing instructions on how to complete consent, surveys and treatment status within REDCap will be reviewed by the YPAG (see section 10 for details) to ensure that they



are clear and easily understood. Text will be kept to a minimum. The survey items themselves will also be tested by the YPAG.

- **UH core research team:** Randomisation, participant eligibility checks, STI test results (taken from Excel file at M0 and Halo service area at M3 and M12), safeguarding and treatment referrals, adverse events reporting.
- TMG members (TB, KL and other delegated individuals): M3, M6, M12 survey data from telephone calls (short version of survey only)⁵. Answers to the survey questions will be entered into a separate REDCap instrument linked to the main database, to avoid unblinding.

During project set-up, all individuals responsible for data collection and entry will receive training in how to enter data into REDCap for this project, in accordance with a REDCap data entry guide developed by the core UH research team and the Database Manager (DL). Database checks will be completed to ensure the accuracy of the data entered (see 9.2 monitoring).

12.2.2. Data analytics

Data on participant engagement with the Halo website and the control website will be collected using within-website analytics. The data capture fields will be determined prior to the websites going live and these will be thoroughly tested by the UH core research team prior to data collection. This will involve:

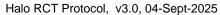
- Creating test data for both the intervention and control websites. Test data must allow testing of all scenarios of use
- Checking that unique PIDs are captured by the Halo website (through direct access from survey link, through link in access reminder email/ SMS text message)
- Reviewing test data to check that all planned data analysis to achieve research objectives can be performed

12.3. Record retention and archiving

During the Halo Trial, all records are the responsibility of the joint-CIs and will be stored securely (see section 7.2 on Data Management). Consent forms, referral forms, pseudonymisation files, pseudonymised research data from REDCap (surveys, STI tests and treatment status, registration data, engagement data) will be stored on the Halo UH R Drive for 6 years (folder encrypted with a password), then deleted. Consent data and data collected about any participants who did not go on to be randomised will be separated from the main data set and stored on the UH R drive for six years, it will then be deleted. Sampling pool data will not be retained within MS Teams or the UH R Drive past the trial end.

Preventx user IDs, Preventx kit IDs, personal data (postal address, email address, telephone phone number, date of birth), original safeguarding and treatment referral forms will not be stored on the UH R Drive and will be deleted at the end of the trial. All data will be deleted from REDCap, Twilio, and the intervention and control websites at the end of the trial. Co-investigator access to shared data (via Halo Teams channel and REDCap) will be revoked, and all data stored on external university servers will be deleted, at the end of the trial.

⁵ Should the TMG members be unavailable to conduct telephone calls another HML staff member (LL, IF), both of whom are familiar with the project and have substantial experience of data collection, will do this. These individuals will be specified on the trial delegation log and will receive REDCap training as specified above.





At the end of the trial, a copy of the pseudonymised research data will be anonymised (PID, and Preventx user ID or Preventx kit code ID numbers removed) and uploaded to the University of Hertfordshire Research Archive (UHRA). The documents contained within the TMF will be archived following trial conclusion in accordance with sponsor requirements and will be retained for 5 years after trial completion.

A summary of record storage and retention timeframes, according to data type, are specified in the Data Protection Impact Assessment (DPIA) and in the Halo data management plan.

13. Publication, dissemination and impact

Newsletters reporting on trial progress will be disseminated quarterly to trial participants and a range of stakeholders in sexual health. Upon completion of recruitment, each participating local authority will receive a report which provides area-specific demographic data and summary statistics on STI positivity and condom use (based on the baseline characteristics of trial participants from their area; see section 7.3).

The main trial findings publication will be reported in line with the CONSORT statement. Eligibility for authorship on any publications associated with this trial will satisfy the International Committee of Medical Journal Editors (ICMJE) criteria (32). Trial findings will be disseminated as widely as possible using a range of methods. As such, a publication, dissemination and impact plan will be developed for the trial (32). These methods will include, but are not limited to, the following:

- Peer reviewed open-access articles
- NIHR Public Health Research threaded publication
- Conference presentations
- Stakeholder presentations
- Updates on a Halo trial webpage, hosted on UH website
- A lay summary and video co-produced with the YPAG; shared directly with participants, and to the wider public via the Halo trial webpage and social media channel(s).
- A presentation to the English HIV and Sexual Health Commissioners' Group at one of their meetings

In addition, if our trial demonstrates the cost-effectiveness of Halo, we will hold an in-person implementation stakeholder meeting. To this we will invite representatives from all three sectors of web-based STI testing infrastructure currently operational in the UK (commercial, third sector, and NHS), from front-line service provision, and from commissioning, to reflect on the current commissioning and service delivery context, discuss implementation issues, and to generate a road map for implementation. Following this, key possibilities for research impact include: improved condom distribution systems; wider access to condoms for young people; more efficient preventive sexual health services with better quality of data for commissioners; strong evidence (currently limited) on which to base future sexual health policy and local strategy; Improvements to public health via reduced STI positivity and improved sexual health and quality of life; reduced burden on sexual health care staff and reduced costs of STI treatment; reduced health inequality.



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Appendix 1- SPIRIT checklist



SPIRIT 2013 Checklist: Recommended items to address in a clinical trial protocol and related documents*

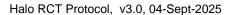
Section/item	Item No	Description	Addressed on page number
Administrative in	formati	on	
Title	1	Descriptive title identifying the study design, population, interventions, and, if applicable, trial acronym	
Trial registration	2a	Trial identifier and registry name. If not yet registered, name of intended registry	1
	2b	All items from the World Health Organization Trial Registration Data Set	Appendix 2
Protocol version	3	Date and version identifier	1
Funding	4	Sources and types of financial, material, and other support	1
Roles and	5a	Names, affiliations, and roles of protocol contributors	6-9
responsibilities	5b	Name and contact information for the trial sponsor	1
	5c	Role of study sponsor and funders, if any, in study design; collection, management, analysis, and interpretation of data; writing of the report; and the decision to submit the report for publication, including whether they will have ultimate authority over any of these activities	5



	5d	Composition, roles, and responsibilities of the coordinating centre, steering committee, endpoint adjudication committee, data management team, and other individuals or groups overseeing the trial, if applicable (see Item 21a for data monitoring committee)	39-40
Introduction			
		Description of research question and justification for undertaking the trial, including summary of relevant studies (published and unpublished) examining benefits and harms for each intervention	12-14
	6b	Explanation for choice of comparators	24
Objectives	7	Specific objectives or hypotheses	10-11/14
Trial design	8	Description of trial design including type of trial (eg, parallel group, crossover, factorial, single group allocation ratio, and framework (eg, superiority, equivalence, noninferiority, exploratory)	
Methods: Participa	ants, in	terventions, and outcomes	
Study setting	9	Description of study settings (eg, community clinic, academic hospital) and list of countries where data will be collected. Reference to where list of study sites can be obtained	17
Eligibility criteria	10	10 Inclusion and exclusion criteria for participants. If applicable, eligibility criteria for study centres a individuals who will perform the interventions (eg, surgeons, psychotherapists)	
Interventions	11a	Interventions for each group with sufficient detail to allow replication, including how and when they will be administered	23-24, appendix 5/6
	11b	Criteria for discontinuing or modifying allocated interventions for a given trial participant (eg, drug dose change in response to harms, participant request, or improving/worsening disease)	N/A
	11c	Strategies to improve adherence to intervention protocols, and any procedures for monitoring adherence (eg, drug tablet return, laboratory tests)	23-24, 29-31



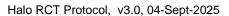
	11d	Relevant concomitant care and interventions that are permitted or prohibited during the trial	N/A	
Outcomes 12 Primary, secondary, and other outcomes, including the specific measurement variable (eg, systolic blood pressure), analysis metric (eg, change from baseline, final value, time to event), method of aggregation (eg, median, proportion), and time point for each outcome. Explanation of the clinical relevance of chosen efficacy and harm outcomes is strongly recommended				
Participant timeline	13	Time schedule of enrolment, interventions (including any run-ins and washouts), assessments, and visits for participants. A schematic diagram is highly recommended (see Figure)	16, 31	
Sample size	14	Estimated number of participants needed to achieve study objectives and how it was determined, including clinical and statistical assumptions supporting any sample size calculations	17	
Recruitment	15	Strategies for achieving adequate participant enrolment to reach target sample size	17	
Methods: Assignr	ment o	f interventions (for controlled trials)		
Allocation:				
Sequence generation	16a	Method of generating the allocation sequence (eg, computer-generated random numbers), and list of any factors for stratification. To reduce predictability of a random sequence, details of any planned restriction (eg, blocking) should be provided in a separate document that is unavailable to those who enrol participants or assign interventions	22-23	
Allocation concealment mechanism	16b	Mechanism of implementing the allocation sequence (eg, central telephone; sequentially numbered, opaque, sealed envelopes), describing any steps to conceal the sequence until interventions are assigned	22-23	
Implementation	16c	Who will generate the allocation sequence, who will enrol participants, and who will assign participants to interventions	22-23	
Blinding (masking)	17a	Who will be blinded after assignment to interventions (eg, trial participants, care providers, outcome assessors, data analysts), and how	22-23	
	17b	If blinded, circumstances under which unblinding is permissible, and procedure for revealing a participant's allocated intervention during the trial	22-23	





Methods: Data collection, management, and analysis

Data collection methods	18a	Plans for assessment and collection of outcome, baseline, and other trial data, including any related processes to promote data quality (eg, duplicate measurements, training of assessors) and a description of study instruments (eg, questionnaires, laboratory tests) along with their reliability and validity, if known. Reference to where data collection forms can be found, if not in the protocol	27-32
	18b	Plans to promote participant retention and complete follow-up, including list of any outcome data to be collected for participants who discontinue or deviate from intervention protocols	27-32, 42
Data management	19	Plans for data entry, coding, security, and storage, including any related processes to promote data quality (eg, double data entry; range checks for data values). Reference to where details of data management procedures can be found, if not in the protocol	32-34, 38, 42-45
Statistical methods	20a	Statistical methods for analysing primary and secondary outcomes. Reference to where other details of the statistical analysis plan can be found, if not in the protocol	34-37
	20b	Methods for any additional analyses (eg, subgroup and adjusted analyses)	34-37
	20c	Definition of analysis population relating to protocol non-adherence (eg, as randomised analysis), and any statistical methods to handle missing data (eg, multiple imputation)	34-37
Methods: Monitori	ng		
Data monitoring	21a	Composition of data monitoring committee (DMC); summary of its role and reporting structure; statement of whether it is independent from the sponsor and competing interests; and reference to where further details about its charter can be found, if not in the protocol. Alternatively, an explanation of why a DMC is not needed	39
	21b	Description of any interim analyses and stopping guidelines, including who will have access to these interim results and make the final decision to terminate the trial	37, 39
Harms	22	Plans for collecting, assessing, reporting, and managing solicited and spontaneously reported adverse events and other unintended effects of trial interventions or trial conduct	25-31, 41-42
Auditing	23	Frequency and procedures for auditing trial conduct, if any, and whether the process will be independent from investigators and the sponsor	41-42





Ethics and dissemination

Research ethics approval	24	Plans for seeking research ethics committee/institutional review board (REC/IRB) approval 37-	
Protocol amendments	25	Plans for communicating important protocol modifications (eg, changes to eligibility criteria, outcomes, analyses) to relevant parties (eg, investigators, REC/IRBs, trial participants, trial registries, journals, regulators)	19, 37-38, 41
Consent or assent	26a	Who will obtain informed consent or assent from potential trial participants or authorised surrogates, and how (see Item 32)	19
	26b	Additional consent provisions for collection and use of participant data and biological specimens in ancillary studies, if applicable	N/A
Confidentiality	27	How personal information about potential and enrolled participants will be collected, shared, and maintained in order to protect confidentiality before, during, and after the trial	25-34, 38, 42, 44- 45
Declaration of interests	28	Financial and other competing interests for principal investigators for the overall trial and each study site	5
Access to data	29	Statement of who will have access to the final trial dataset, and disclosure of contractual agreements that limit such access for investigators	5, 32, 42
Ancillary and post- trial care	30	Provisions, if any, for ancillary and post-trial care, and for compensation to those who suffer harm from trial participation	38, appendix 3
Dissemination policy	31a	Plans for investigators and sponsor to communicate trial results to participants, healthcare professionals, the public, and other relevant groups (eg, via publication, reporting in results databases, or other data sharing arrangements), including any publication restrictions	45
	31b	Authorship eligibility guidelines and any intended use of professional writers	45
	31c	Plans, if any, for granting public access to the full protocol, participant-level dataset, and statistical code	1, 45

Appendices



Informed consent materials	32	Model consent form and other related documentation given to participants and authorised surrogates App	endix 3/4
Biological specimens	33	Plans for collection, laboratory evaluation, and storage of biological specimens for genetic or molecular analysis in the current trial and for future use in ancillary studies, if applicable	N/A

^{*}It is strongly recommended that this checklist be read in conjunction with the SPIRIT 2013 Explanation & Elaboration for important clarification on the items. Amendments to the protocol should be tracked and dated. The SPIRIT checklist is copyrighted by the SPIRIT Group under the Creative Commons "Attribution-NonCommercial-NoDerivs 3.0 Unported" license.



Appendix 2- World Health Organization Trial Registration Data Set

Section	Item No.	Information
Primary Registry and Trial Identifying Number	1	ISCTRN
Date of Registration in Primary Registry	2	
Secondary Identifying Numbers	3	
Source(s) of Monetary or Material Support	4	NIHR Public Health Research Programme (NIHR157903)
Primary Sponsor	5	University of Hertfordshire
Secondary Sponsor	6	N/A
Contact for Public Queries	7	halo@herts.ac.uk
Contact for Scientific Queries	8	Professor Katie Newby; Professor of Behaviour Change and Public Health; College Lane Campus, University of Hertfordshire, Hatfield, AL10 9AB; +44(0)7842600795; k.newby@herts.ac.uk
Public Title	9	The Halo Trial
Scientific Title	10	Reducing sexually transmitted infections amongst those at highest risk: The Halo randomised controlled trial
Countries of Recruitment	11	England
Health Condition(s) or Problem(s) Studied	12	Sexually Transmitted Infections (STIs)
Intervention	13	Intervention: Halo. Multi-component interactive digital intervention for users of web-based STI self-sampling services aged 16-24 years Control: Usual care. Website providing information on STIs and condom use, akin to that of the NHS choices website.
Key Inclusion and Exclusion Criteria	14	Inclusion criteria: 1) Young people aged 16-24 years old at baseline 2) Living in one of the local authority areas participating in the trial 3) Ordered an STI self-sampling kit that includes tests for chlamydia and gonorrhoea from Freetest.me, SH.UK, or SHL websites 4) Access to personal mobile phone and the internet. 5) Able to read/understand English language Exclusion criteria: 1) Unlikely to have penetrative sex (penis in either vagina or anus) over the next 12 months



		2) Unable to commit to the study over the next 12 months
Study Type	15	Interventional Allocation: randomised; two-arm, parallel assignment Primary purpose: prevention
Date of First Enrolment (anticipated)	16	15 th September 2025
Sample Size	17	3576
Recruitment Status	18	Pending
Primary Outcome	19	Chlamydia positivity
Key Secondary Outcomes	20	Gonorrhoea positivity Incidence of repeat infections of chlamydia and gonorrhoea Cumulative incidence of chlamydia and gonorrhoea Correct and consistent condom use during vaginal and/or anal sexual intercourse Condom attitude, condom competence, condom availability, condom use self-efficacy, and condom communication self-efficacy Resource use and Health-related quality of life (HRQL) Engagement with Halo
Ethics Review	21	Status: Not approved
Completion date (anticipated)	22	31st December 2027
Summary results	23	
IPD sharing statement	24	Plan to share IPD: Yes, No Anonymised datasets will be shared via the University of Hertfordshire research archive (UHRA)

WHO Trial Registration Data Set (Version 1.3.1)



Appendix 3- Participant Information Sheet

Participant Information

Thank you for your interest in our research project!

What is the full project title?

Reducing sexually transmitted infections (STIs) amongst those at higher risk: The Halo randomised controlled trial.

IRAS Project ID: 352986

Key Info:

- This research project is being undertaken by researchers from the University of Hertfordshire in partnership with Preventx, the STI self-testing service that operates freetest.me, SH.UK and SHLUK.
- It aims to test whether a newly created website can reduce sexually transmitted infections (STIs) amongst 16-24 year olds who are accessing online STI self-testing services.
- As part of the research project, you will be directed to one of two websites, some people will
 get the new website whereas others will get another similar website (random chance as to
 who gets which). Both will be branded as 'Halo', and you won't know which of the two
 websites you have been given.
- Participants are asked not to share information about the website they receive with anyone else (see Detailed Info: 'what will happen to me'); this is important otherwise the research project won't work.
- There are some restrictions on who can take part (see Detailed Info: 'Are there any age or other restrictions that may prevent me from participating?')
- Over the next 12 months, participants will be asked to:
 - complete four surveys (each takes about 10 mins)
 - o complete two additional STI self-tests (for chlamydia and gonorrhoea), kits sent to an address of their choice
 - o view one of the two websites
- Each time a participant completes one of the above activities, they'll be emailed an Amazon e-voucher in return (see Detailed Info: 'benefits of taking part').
- In this research project we will use information from you and Preventx. We will collect survey responses, STI test results (from Preventx), and website usage data. We will only use information that we need for the research project. We will let very few people know your name or contact details, and only if they really need it for this project.
- Everyone involved in this project will keep your data safe and secure. We will also follow all privacy rules.
- All data will be kept confidential but there are some limits to that confidentiality (see Detailed Info: 'limits to confidentiality').
- We will make sure no-one can work out who you are from the reports we write.
- At the end of the project, we will save some of the data in case we need to check it.
- The detailed information below tells you more about the project.



Detailed information

Here is all the information you need to know about taking part. Please take time to read it carefully.

What is the full project title?

Reducing sexually transmitted infections (STIs) amongst those at higher risk: The Halo randomised controlled trial.

IRAS Project ID: 352986

Can you tell me more about why you are doing this research project?

The Halo Research Project is being run by researchers from the University of Hertfordshire in partnership with Preventx. Preventx runs the STI self-testing websites freetest.me, SH.UK, and SHL.UK. You have just used one of these three websites to order an STI self-test kit; throughout the remainder of this document, we will refer to this as 'your testing website'.

We have developed a website called 'Halo'. Halo aims to increase condom use and decrease diagnoses of sexually transmitted infections (STIs), amongst young people who use online STI self-testing services. What we want to know is whether Halo works. To find this out, we need to run a type of experiment called a Randomised Controlled Trial (RCT). It is this RCT that you are being invited to take part in.

Do I have to take part?

No, it is completely up to you whether or not you decide to take part in this research project. What we do ask is that you carefully consider what's involved first - this is described below (see 'What will happen to me if I take part and how long will it take?'). Each of the activities that you'll be asked to do will require some commitment on your part, such as finding time to complete the online surveys and STI self-test kits and to explore the website. These things are easy to do, they just take a little bit of time and dedication. We will reimburse you for this time (see 'Benefits of taking part' below). The success of this research project depends on those involved completing all activities.

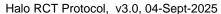
Therefore, if you feel like this might be too much for you to commit to over the next 12 months, we ask that you please don't join the project.

Are there any age or other restrictions that may prevent me from participating?

Yes, to take part in the project you must:

- Be aged 16-24 years at the start of the project (if you turn 25 during the project you can still participate)
- Be a user of freetest.me, SH.UK or SHL.UK and have been invited to participate via our advert
- Have your own mobile phone and access to the internet
- Be able to read and understand English

And you cannot take part if:





- You are unlikely to have penetrative sex (i.e. penis in vagina or anus) over the next 12 months (this is because STIs are mostly passed in this way, and this research project is focused on reducing STIs)
- You are unable to commit to the research project over the next 12 months

If you meet these criteria and wish to take part, you will be asked to provide your consent (next page) and then to complete the first of four surveys. To be accepted on to the research project you must:

- Complete this first survey, and do so with sufficient care and attention
- Return the STI self-test kit that you have just ordered with a valid urine/vaginal swab sample (that allows the lab to test for chlamydia and gonorrhoea) within 30 days of providing consent; the result of this will form part of our data set (see 'How will my taking part in this research project be kept confidential?' below for more information)
- Provide us with accurate and valid personal and contact details (your name, date of birth, postal address, mobile phone number, email address)

If the test you have just ordered does not lead to a clear positive or negative result (this sometimes happens if for example, the sample has been contaminated or damaged in the post), then we will contact you about your options. It will still be possible for you to participate but we would need to arrange for another test to be done.

We will be performing checks to make sure that everyone who signs up for the project meets the above criteria. If we think there may be an error in the contact details you have provided, we will contact you (by phone or email) to check these. You can only enter the project once; we will be running checks to make sure that each new person is unique (that is, they are not already participating). We will also check for bots (sign-ups by computer rather than real people). If we are concerned that a person is not a user of freetest.me, SH.UK, or SHL.UK, we may check their details against those held by Preventx, the operator of these services.

If you do not pass our checks, you will not become a participant in this project and you will not receive any voucher payments (see 'what are the possible benefits of taking part' section below). Under these circumstances, we will keep any data you have provided up to that point (responses to questions in first survey and/or result of first STI test) for analysis purposes, but any information that identifies you will be removed.

What do I need to do to take part and how long will it take?

The whole research project takes 12 months to complete but the activities are well spaced out, we will tell you everything you need to do and when, and we will reimburse you for your time (see 'Benefits of taking part' section below), so don't be put off! Here's what we'll ask you to do:

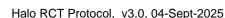
1. Complete an initial online survey (takes approx. 10 minutes) – this asks questions about you (e.g. your age, gender, sexual orientation etc.), your thoughts on condom use, your sexual behaviour (condom use), and any previous STI testing and results. We also will also ask you to provide your contact details at this point – we need these so that we can send you future surveys and post out STI self-test kits.



- 2. Tell us about any treatment you've had if the test you have just ordered from your STI testing website comes back positive (takes approx. 2 minutes). We will receive the results of this test from Preventx. If you test positive for chlamydia and/or gonorrhoea, we'll send you a text message a little while afterwards to ask you whether you completed the treatment prescribed.
- 3. View one of the two websites (time spent on this is up to you) we'll send you a link to visit one of two websites (selected at random). The website will be available to you throughout the entire research period (12 months). We will send you a link to this in an email so that you can return there as often as you like. You must not share information about the website you have been allocated with anyone else if people in the research do this then we might not get a clear result about whether Halo works.
- 4. Take a second STI self-test for chlamydia and gonorrhoea at 3 months (3 months from when you started the project; this takes approx. 5 minutes to complete) this will be sent to you by Preventx, so as before, it will fit through your letterbox and arrive in the same discreet packaging. You can choose what address we send this to (it doesn't have to be your home address); we will ask you where you want us to send this, and you can change this address later if you want to.
- 5. Complete a first follow-up online survey also at 3 months (takes approx. 10 minutes to complete).
- 6. Complete a second follow-up online survey at 6 months (takes approx. 10 minutes to complete).
- 7. Take a third STI self-test for chlamydia and gonorrhoea at 12 months (takes approx. 5 minutes to complete) as before, sent by Preventx to an address of your choice.
- 8. Complete a final follow-up online survey at 12 months (takes approx. 10 minutes to complete)

Info about the chlamydia and gonorrhoea tests at 3 and 12 months

- Chlamydia and gonorrhoea self-test kits will be sent to you in the post by Preventx. This will come in 'Freetest.me' packaging.
- If you currently use the SHL.UK service, you will be familiar with kits that test for four STIs (HIV, syphilis, chlamydia and gonorrhoea). The kits we are using for this research project just test for chlamydia and gonorrhoea.
- Six days before the chlamydia/gonorrhoea self-test kit is posted, we will send you a text message to confirm your preferred delivery address.
- You will be asked to take a sample as before for chlamydia/gonorrhoea (urine or vaginal swab) and return it to Preventx by Freepost for processing (full instructions on how to do this will be provided in the box). Reminders to complete and return the self-tests will be sent.
- The sample you send back will be stored safely in the Preventx laboratory. Only trained staff who work at Preventx will be allowed to handle it; the research team





will not have access to this, and samples will not be sent on to anyone else. Your sample will be kept for up to 30 days before it is destroyed. The form you send back with your sample, which includes your personal details, will be kept for at least 2 weeks. Sometimes, a digital copy of the form might be saved and linked to your sample in the laboratory's system. Preventx is responsible for keeping your sample in good condition and making sure that both your sample and any information linked to it stay private and secure.

- The result will be recorded by Preventx and shared securely with us. Participants will be contacted by text message when their result is known. In the case of negative results, the result will be communicated within the body of the message. Where the result is positive, the message will ask you to contact your local sexual health service to discuss the result (contact details will be provided). We will also notify this service so that they are aware of the result and can follow this up with you if needed.
- A little while later, we will contact you by text to find out if you have taken the prescribed treatment. We will send up to 3 texts to try and obtain this information and then stop. Based on your responses, it is possible we may send you a few extra text messages about treatment to help us understand your situation better.
- All our communication with you will be discreet (see the section: 'What are the
 possible disadvantages, risks or side effects of taking part?' for details on this). We
 may also make a friendly call to remind you to return the test or to provide us with
 information on the outcome of treatment. This phone call would take less than 2
 minutes and before beginning, we would always make sure you were in a private
 space where you were able to talk.

Info about the follow-up surveys at 3, 6 and 12 months

- A link to each survey will be sent via text message at the appropriate timepoint.
- Four reminders (three text message and one email, each 5 days apart) will be sent to those who do not complete the survey after receiving the invite.
- Each follow-up survey will contain many of the same questions as the first survey.
 That's so that we can detect any changes that people experience in their condom use beliefs or behaviour so please don't be put off by the repetitiveness, its deliberate!
- It is possible that we may make a friendly call to remind you to return a survey; we
 may use this opportunity to ask you a limited number of survey questions (just the
 most important stuff!). This phone call would take less than 5 minutes, and we
 would always first make sure you were in a private space where you were able to
 talk.

End of the research project

At the end of the 12-month research project we will send you a final email thanking you for taking part. Once we have collected data from everyone participating in the project (expected to be December 2027), we will let you know whether you received Halo or not and provide you with information about the website that you didn't see.

What are my choices about how my information is used?

We understand that life can sometimes get in the way of plans. If you can't complete one of the activities, then it's no big deal; we will simply carry on sending you invites to future activities so that you can continue to be involved.



You can stop being part of the research project at any time, without giving a reason, but we will keep information about you that we already have. Just email us at halo@herts.ac.uk to let us know – we won't ask you why you want to stop, we'll just respect your wishes and stop sending you invitations to complete activities. Under these circumstances we will keep any data that you have provided up to that point for analysis purposes, but any information that identifies you will be removed from the dataset.

You have the right to ask us to access, remove, change or delete data we hold about you for the purposes of the research project. You can also object to our processing of your data. We might not always be able to do this if it means we cannot use your data to do the research. If so, we will tell you why we cannot do this.

Please know that a decision to withdraw at any time, or a decision not to take part at all, will not affect the service that you receive from Preventx via your testing website, or from the NHS (should this be relevant), either now or in the future. In the event of any significant change to the aims or design of the project you will be informed and asked to renew your consent to participate.

What are the possible disadvantages, risks or side effects of taking part?

Taking part in this project requires you to complete surveys and STI self-tests, respond to text messages, and to view a sexual health website. We therefore consider the risks of taking part to be low and in line with normal everyday activities.

All communication with you will be discreet. For example, STI self-test kits will be sent in plain packaging and will fit through your letterbox, email subject lines will not reveal what the project is about, and our text messages won't refer to STI testing or treatment specifically (they will say for example, 'You should now have received your test results. Click the link below to let us know the outcome' or 'You should now have been contacted about treatment following your test result. Can you tell us about any treatment received?'). If we make a phone call to you, or leave a voicemail message, it will be friendly and discreet in nature; we will mention the name of the project (Halo) and remind you to return your survey or self-test kit and ask if you need any help or have any questions. We will never refer to STI testing or to the nature of the project.

The website may lead you think about your own condom use and sexual health. Information will be provided on the website itself about how you can access condoms and support on issues relating to sexual health. An auto-generated email will also be sent to you on completion of each survey containing information on sources of further help and support should you need it.

If you are currently being supported by agencies or professionals (e.g. sexual health service, social worker or mental health team) because you have experienced any form of sexual abuse or harm, we advise that you carefully consider whether this research project is for you. Whilst you can still take part, it is best that you wait until you are in a good place (physically and mentally) before you do.

With regards to the STI self-test kits: Preventx will send these to you; they are therefore in the usual discreet packaging and will fit though your letterbox. As with all testing of this



kind, there is the chance that someone finds out you are testing for a STI when you didn't want them to know. If you are anxious about this, we suggest that you do not participate.

When you complete the STI self-test kit, there's a chance you might get a positive result. This could feel upsetting or stressful, and it's completely normal to worry about your health. If that happens, we'll send your result directly to your local sexual health service so that they can offer treatment and support.

Please note we will only be testing you for genital chlamydia and gonorrhoea as part of this project. We will not be testing for anal or oral infection, or for any other sexually transmitted infections (STI). If you want any additional testing, then you should return to your testing website to place another order or visit your local sexual health service.

What are the possible benefits of taking part?

You will be given access to one of the two websites which you may enjoy; you will be free to use this as much as you like for 12 months. Furthermore, anyone taking part should feel rightly proud of contributing to important science; only with the input of our participants will it be possible for us to learn if Halo has a positive impact on young people's sexual health. Because of this we really value everyone's input! Finally, in recognition of your time and effort, you will receive Amazon vouchers for each completed activity as follows:

ACTIVITY	REWARD *
 Joining the research project* 	£10
 Visiting the website 	£5
 Completing the month 3 survey 	£5
 Returning the month 3 STI self-test kit 	£15
 Completing the month 6 survey 	£10
 Completing the month 12 survey 	£10
 Returning the month 12 STI self-test kit 	£20

To receive the vouchers, all activities need to be completed within **30 days** of you being invited to complete them – we will send you plenty of reminders and be on hand to help you throughout the process if you need it.

- *We will send you your first voucher for joining the research project once you have:
- 1) Completed the first survey
- 2) Returned your first self-test kit (the one you've just ordered)
- 3) Passed our screening checks (for those not passing these checks, we reserve the right to prevent further participation and to withhold voucher payments) see 'Are there any age or other restrictions that may prevent me from participating?' section above for more information. As we will need to wait for all of this to be in place, there will be a delay in receiving your first voucher from us.

How will you use information about me in this research project?

We will need to use information from you and Preventx (the STI self-testing service that operates freetest.me, SH.UK and SHL.UK) for this research project.



This information will include your:

- Name
- Date of birth
- Preventx user ID, STI self-sampling test kit code and order number
- Contact details (postal address, email address, phone number)
- Gender
- Ethnicity
- Sexual orientation, relationship status
- STI diagnosis and treatment outcomes
- Condom use
- Sexual wellbeing, quality of life
- Health appointment data
- Website usage

People will use this information to do the research or to check your records to make sure that the research is being done properly. People who do not need to know who you are, will not be able to see your name or contact details. Your data will have a code number (Participant ID) instead.

The University of Hertfordshire is the sponsor of this research. The University of Hertfordshire is responsible for looking after your information.

We will share your information related to this research project with the following types of organisations:

- Academic institutions (who are working with us to deliver this project)
- Local sexual health services (operated in partnership with NHS and local authorities)
- Preventx

How will my taking part in this research project be kept confidential?

We will keep all information about you safe and secure by:

- Handling all data in accordance with the General Data Protection Regulations (GDPR) and the Data Protection Act 2018 (DPA).
- Using three secure pieces of software for data collection and storage: REDCap (used to collect and manage research data), the R Drive (secure data storage area) and the Halo Microsoft Teams Channel/SharePoint (also a secure data storage area). All these pieces of software are located behind the University's Firewall, are backed up daily, are password protected, and will only be accessible to the research team.

Your decision to take part and any data that you provide will be kept confidential. People who do not

need to know who you are will not be able to see your name or contact details. Please note, there are

circumstances under which we would break that confidentiality. Please see the 'Are there any limits to

confidentiality?' section below for further detail on this.



If you decide to take part, you will be asked to complete an online consent form on the next page. These forms will be completed and stored in REDCap (you are viewing this information on REDCap now). Whilst your name will be on this consent form, it will not be associated with any of your survey responses or test results held by us. Rather than using names, we will identify participants using a unique number ID. This will be assigned at the time of consent. This ID will be used throughout the process of the project to link all your data together.

For the project, we need to collect information on your use of the website you are shown e.g. which pages you visit and how long you spend there. To reduce the burden on you, rather than ask you questions about this in our surveys, we will instead track your use within the website itself using specialist analytics software. The website will record this data along with your unique participant ID.

STI self-test result data: For the STI self-test you have just ordered, Preventx will share the result with us using a secure means of transfer. The research team will access this data and record your result within REDCap alongside your survey data. As described above, we will be asking you to take two additional STI self-tests; one 3 months into the project, and one at the end (12 months). Preventx will process these additional tests for us. The self-test kits will be similar to the one you have just ordered. Preventx will record the results of these tests in a secure Preventx service area. We will access your result by logging in to the service area. We will use your name and the kit code to identify you on this system and then record this result on our REDCap database alongside your survey data. If the self-test you have just ordered comes back positive, you and your local sexual health service will be notified by Preventx directly. If your month 3 or month 12 STI self-test comes back positive, you will be notified by Preventx, and we will share this result with your local sexual health service ourselves. Either way, the outcome is the same for you - you will be notified and will receive support and treatment from your local service. To ensure that your data is treated with the upmost care and security, we (the University of Hertfordshire) have legal Data Sharing Agreements in place with both Preventx and the sexual health service in your local area.

Are there any limits to confidentiality?

Safeguarding means protecting a person's right to live in safety, free from abuse and neglect. Everyone who takes part in this research project will be provided with information on sources of help and support on issues relating to sexual wellbeing (within the websites themselves and via an automated email at the end of each survey).

We do however have a particular responsibility to protect individuals under the age of 18 years, or those who may be vulnerable in other ways. If you fall into either of these groups and reveal information to us during the project which indicates that you may be at risk of significant harm, our safeguarding procedure will be followed. By significant harm, we mean neglect, or physical, mental or emotional harm, or harm to your physical, mental or emotional well-being. There are questions in each survey which could alert us to this. We will highlight these to you so that you can choose whether or not to answer them. You may also reveal this to us if we ever have direct contact with you (e.g. through email, phone). Regardless of the source of the information, if there is a safeguarding concern, our confidentiality agreement would end, and we would pass on the information that you have



provided to the relevant safeguarding organisation(s) so that they can support you. You cannot refuse this referral process, but we would tell you that it was happening and support you through it.

Factors that might put others at risk

If during the research you reveal evidence of any activity that has put others at risk, then we may be obliged to refer the matter to the appropriate authorities (e.g. police), and you may be removed from the research project.

Will my data be shared outside the UK?

Most data about you will be processed and analysed within the UK. We may share or provide access to data about you outside the UK for research related purposes to:

conduct data analysis

If this happens, we will only share the data that is needed. We will also make sure you can't be identified from the data that is shared where possible. If your data is shared outside the UK, it will be with the following sort of organisation:

 Academic institution where a research team member is based (University of Maastricht, The Netherlands)

We will make sure your data is protected. Anyone who accesses your data outside the UK must do what we tell them so that your data has a similar level of protection as it does under UK law. We will make sure your data is safe outside the UK by doing the following:

- we do not allow those who access your data outside the UK to use it for anything other than what our written contract with them says
- we need other organisations to have appropriate security measures to protect your data which are consistent with the data security and confidentiality obligations we have. This includes having appropriate measures to protect your data against accidental loss and unauthorised access, use, changes or sharing
- we have procedures in place to deal with any suspected personal data breach. We
 will tell you and applicable regulators when there has been a breach of your personal
 data when this is legally required. For further details about UK breach reporting rules
 visit the Information Commissioner's Office (ICO) website: https://ico.org.uk/fororganisations/report-a-breach

How will you store information about me during the research project?

Consent data- This data will be stored electronically on REDCap for the duration of data collection (expected end date December 2027).

Survey and STI self-test result data- This data will be stored electronically on REDCap for the duration of data collection (expected end date December 2027).



Analytics data- This data will be stored within each website's content management system (CMS) for the duration of data collection (expected end date December 2027)

How will you use information about me after the project ends?

Once we have finished the study, we will keep some of the data so we can check the results. We will write our reports in a way that no-one can work out that you took part in the study. We will keep your study data for the minimum period of time required by the University of Hertfordshire (further detail below). The study data will then be fully anonymised and securely archived or destroyed.

Consent data- This data will be downloaded and stored within a folder on the R Drive at the end of data collection. At this point, the original data on REDCap will be deleted. This consent data will be kept on the R drive for 6 years and then deleted.

Survey and STI self-test result data- This data will be downloaded at the end of data collection and stored on the Halo Microsoft Teams channel/SharePoint for analysis purposes. Before storing the data, we will use your postcode to calculate an 'Indices of Multiple Deprivation' (IMD) score (you can find out more about what that score is here if you're interested), and then delete it along with the rest of your address. We will also delete your email address, mobile phone number, and date of birth. At this point the survey data will contain no identifying information about you i.e. it will be 'pseudonymised'. Once analysis is complete, the survey data will be removed from the Teams channel/SharePoint and stored on the R drive for 6 years and then deleted.

Analytics data- This data will be downloaded and stored on the R Drive alongside the survey data at the end of data collection. At this point, the original data will be deleted. At this point the analytics data will contain no identifying information about you i.e. it will be 'pseudonymised'. Once analysis is complete, this analytics data will be stored on the R drive for 6 years and then deleted.

After we have finished our analysis, we will anonymise the survey, STI result data and the analytics data, so that can no longer be linked back to you. This will then be securely archived within the University of Hertfordshire's Research Archive (UHRA). Here it will be available to others on an 'open access' basis, meaning that it will be available indefinitely to others for the purposes of performing further analysis for the benefit of science. It will not be possible to identify any individual within this dataset.

Please click on [this link] to view/download our data privacy notice.

Will there be opportunities to take part in future research projects?

On the consent form, we will ask if you agree to be contacted about research opportunities related to this project (such as an interview). This is entirely optional. If you agree to this, we will store your name and contact information securely on the R drive so that we can contact you for this purpose. It will be kept until the end of the project (expected to be October 2028) and then deleted.



How have patients and the public been involved in this research project?

A group of 16-24 year olds, many of whom are users of online STI self-testing, are advising us on this project. This includes working with us to ensure that this project is acceptable and accessible to all young people who take part. They have approved this participant information, the consent form (on the next page), the surveys you will receive, and other types of participant-facing material.

Who has reviewed this research project?

This research project has been reviewed by:

- The University of Hertfordshire Health, Science, Engineering and Technology Ethics Committee with Delegated Authority (The UH protocol number is XXX)
- London Central NHS Research Ethics Committee (REC)- IRAS Project ID number (352986)

What will happen to the results of this research project, and will I find out about them?

We will write all our reports in a way that no-one can work out that you took part in the research project. We will publish the results of this research in scientific journals and present them at conferences. If Halo is found to be effective at increasing condom use and decreasing STI diagnoses, we will work to make it available to as many young people as possible across the country.

Periodically through the project, we will text or email you with a brief update on our progress. Once we have completed our analysis (expected to be autumn 2028), we will also produce a short written and video summary of what we have found. We will ask you if you want a copy of this in the final survey and if you do, we'll send it to you via email.

Who can I contact if I have any questions?

You can contact the research team at any time by emailing halo@herts.ac.uk and we'll get back to you within 1-2 working days. You can also use the team phone number 07842600795. We're a friendly bunch and will try to answer any questions you have and/or help you with any problems you are experiencing. Please don't hesitate to get in touch.

Where can I find out more about how my information is used?

You can find out more about how we use your information, including the specific mechanism used by us when transferring your personal data out of the UK:

- by accessing this leaflet http://www.hra.nhs.uk/patientdataandresearch
- by sending an email to the research team: halo@herts.ac.uk
- by ringing the research team on 07842600795
- by sending an email to our data protection officer: dataprotection@herts.ac.uk

Who should I contact if I have a complaint?

Although we hope it is not the case, if you are concerned about any aspect of this research project, please contact the chief investigators Professor Katie Newby (k.newby@herts.ac.uk);



07842600795) and Professor Katherine Brown (<u>k.brown25@herts.ac.uk</u>) in the first instance.

If you remain unhappy and wish to complain formally, you can do this by contacting the University's Secretary and Registrar using the details below.

Secretary and Registrar
University of Hertfordshire
College Lane
Hatfield
Herts
AL10 9AB

The University of Hertfordshire, as Sponsor, has appropriate insurance in place in the unlikely event that you suffer any harm as a direct consequence of your participation in this research project.

Thank you very much for reading this information and considering participation in this research project.

Eligibility

If you would like to go ahead, please confirm that:

- 1. You are aged 16-24 years (Yes/No)
- 2. You have been directed to this page from either freetest.me, SH.UK or SHL.UK having ordered an STI self-test kit (only when we have the result of this test will you receive your first voucher) (Yes/No)
- 3. You have access to a personal mobile phone and internet access (Yes/No)
- 4. You are able to read and understand English (Yes/No)
- 5. You feel able to commit to the research project over the next 12 months (Yes/No)
- 6. You are likely to have penetrative sex (i.e. penis in vagina and/or anus) at some point over the next 12 months (Yes/No)



Project title: Reducing sexually transmitted infections (STIs) amongst those at higher risk: The Halo randomised controlled trial.

IRAS Project ID: 352986

Nearly there, please read the through the following statements...

- 1] I confirm that I have read the participant information and the [add hyperlink to privacy notice]
- **2]** I have been assured that it is my choice about whether to take part and that I can choose to withdraw from the research project at any time without disadvantage or having to give a reason. If I withdraw from the research project, I understand that all data I have provided will be retained
- 3] I have been given information about the potential risks and benefits of taking part
- **4]** I have been told how information relating to me (data obtained during the research project, and data provided by me about myself) will be handled: how it will be kept secure, who will have access to it, and how it will or may be used, including that anonymised data will be deposited in a repository with open access (i.e. freely available to others)
- **5]** I understand that website analytics will be used to track my use of the website I am shown as part of this research project
- **6]** I understand that the results of any STI tests that I complete whilst taking part in this research project (at months 0, 3 and 12) will be shared by the STI self-testing provider Preventx (who operate freetest.me, SH.UK, and SHL.UK) with the research team. I understand that some of my personal details may be shared with Preventx to verify my eligibility to take part
- 7] I understand that any positive chlamydia and/or gonorrhoea test results will be shared with my local NHS sexual health service so that they can provide care and treatment
- **8]** I understand the ways in which my taking part will be kept confidential but also that there are limits to that confidentiality
- **9]** I understand that if I tell the research team about any activity that has put others at risk, they may refer the matter to the appropriate authorities
- **10]** I confirm that I will not share information about the website that I am shown with anyone else
- **11]** I understand that a portion of my data collected during this project will be transferred, with my name removed, outside the UK (with a team member at the University of Maastricht, The Netherlands) for the purposes of data analysis



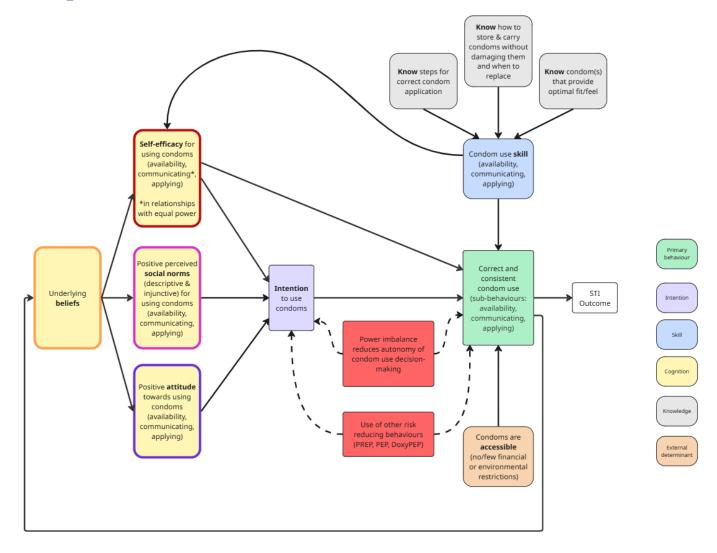
I agree to the above statements and consent to taking part in the research project Yes/No

12] I consent to being contacted about other research opportunities related to this project (optional) **Yes/No**

First name Surname	
Signature	Date

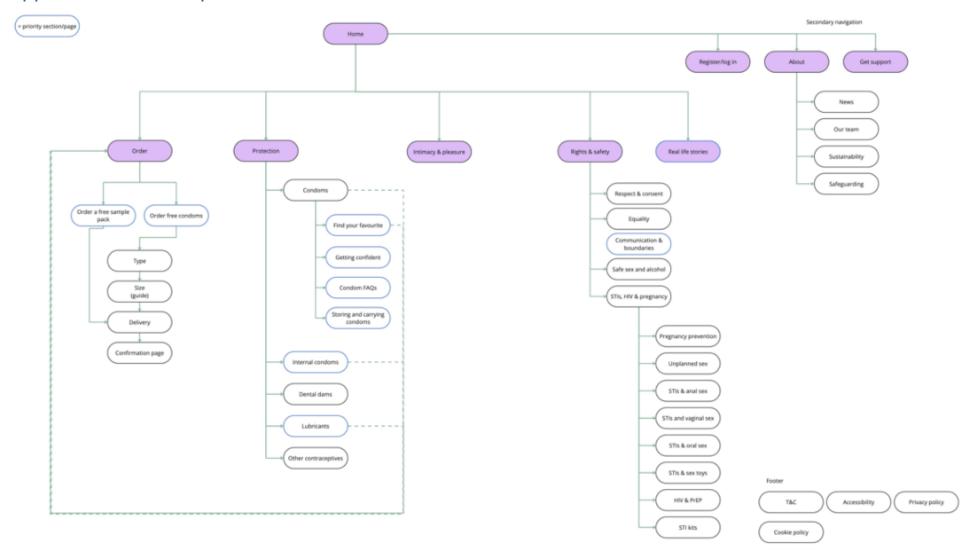


Appendix 5- Halo logic model





Appendix 6- Site map





Appendix 7- Safeguarding procedure

Halo Randomised Controlled Trial: Safeguarding Procedure

This document details how we will identify and respond to safeguarding concerns that arise during the Halo trial. The procedure is summarised visually in the form of two flow diagrams below, after which further detail is provided.

Note: all safeguarding concerns will be recorded as adverse events within our 'adverse event log' held on REDCap. New/cumulative adverse events will be presented by the Trial manager at weekly Trial Team meetings and discussed. They will also be reported to the Data monitoring and Ethics Committee (DMEC) and Trial Steering Committee (TSC) via 6-monthly reports with the opportunity to discuss at the meetings which follow.

Flowcharts

The need to safeguard a participant could present itself either through their:

- 1. Completion of safeguarding items within a survey at any of our follow-up timepoints⁶ (M3, M6 or M12)
- 2. Disclosure in a qualitative interview or through direct contact made with the research team via email or telephone.

There are different procedures to follow in each event, depending on the age of the participant (18+ years or <18) as set out in figures 1 and 2 respectively.

⁶ Just prior to entering the study, all participants are screened for safeguarding concerns by the STI self-sampling provider Preventx and help/support arranged as required. We are therefore not duplicating this via our M0 survey to avoid parallel referrals. Participants from the start of the study (via our participant information and all communications) are informed that they can contact us at any point via email or phone.



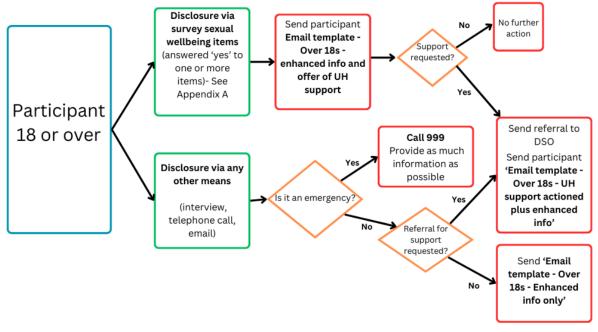


Figure 1. Flow diagram describing procedures to follow for participants aged 18 years or over

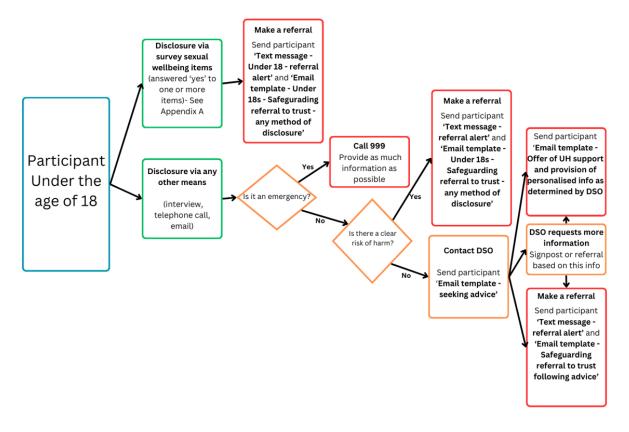


Figure 2. Flow diagram describing procedures to follow for participants aged under 18 years



Sexual well-being support provided to all participants

All participants by default will receive our standard sexual well-being email after the completion of each survey (M0, M3, M6, M12) (See <u>Appendix B Email template - All - Standard Sexual Wellbeing Support provided at survey end</u>). Information on help and support with sexual health and wellbeing is also provided to participants within both websites (intervention and control).

Participants 18 years or over

Disclosure of safeguarding concern via Survey

Within each follow-up survey (M3, M6 and M12) we ask safeguarding questions (see Appendix A). If a participant responds positively to one or more items, automated emails are triggered to both the participant and the UH core team as follows.

The UH core team will receive automated emails alerting them to any safeguarding concern arising as a result of responses to these items. In response they will record the event in the 'adverse event log' instrument on REDCap. The participant will simultaneously be sent an automated email (triggered within REDCap in response to survey responses) containing enhanced information on sources of support and the offer of talking to our UH Designated Safeguarding Officer (DSO) – see Email template - Over 18s - enhanced info and offer of UH support.

If the participant requests support from the DSO:

- The UH core team will:
 - Complete the UH Safeguarding Concern Form (see <u>HS10-Apx-4-Safeguarding-Incident-Report-Form-adults-v02.0</u>) and email this to the DSO within 48 hours. Send this with a read and delivery receipt and mark as 'confidential' (under 'sensitivity' settings). Ask the DSO to reply to the email with a 'received and will now action' statement
 - Once DSO has confirmed that a response will be actioned, send an email to inform the participant that a request for support has been made (see <u>Email</u> template - Over 18 - UH support actioned plus enhanced info).
 - Record all actions, including that participant requested referral for UH support, and outcomes in the adverse events log.
- The DPO will contact the participant within **2 working days** and inform UH core team of the outcome (e.g. signposted to further support; referred to external organisation; etc.) within **5 working days** (set calendar reminder to follow-up)
- The UH core team will then record this in the adverse events log

Disclosure of safeguarding concern by any other means (interview, telephone call, email)

Clear, immediate risk of significant harm in an emergency

- Call the police on 999
- Provide as much information as possible (location, etc.)
- Note all actions taken & outcome on the adverse events log
- Inform Joint Cls and Trial Manager
 - Support for the researcher will be arranged as required (in line with <u>UH</u> guidance)

All non-emergency situations

Actions required at time of disclosure:

• Listen/respond to the participant with empathy and remember that you are not an investigator: you don't need to ask questions





- Reassure the participant you believe what they are telling you
- Explain to the participant that whilst you are not trained to provide specialist support, you can put them in touch with others who are
- Tell them that we will send them an email listing sources of help and support
- And, that if they wish, we can additionally put them in touch with UH support services so that they can talk through their circumstances with someone who can help. Ask them if they would like us to do this.
- Ask if they have any questions and respond as best you can
- Make notes

Actions required afterwards - if UH referral has not been requested

- Send Email template Over 18s Enhanced info only to the participant
- Type up any handwritten notes and store in the designated folder on the R drive along with participant ID (shred any paper notes). If original notes digital, then move these to the R Drive (no digital copies to be kept elsewhere)
- Note all actions taken & outcome on the adverse events log
- Inform Joint Cls and Trial Manager
 - Support for the researcher will be arranged as required (in line with <u>UH</u> <u>guidance</u>)

Actions required afterwards - if UH referral has been requested

- The UH core team will:
 - Complete the UH Safeguarding Concern Form (see <u>HS10-Apx-4-Safeguarding-Incident-Report-Form-adults-v02.0</u>) and email this to the DSO within 48 hours. Send this with a read and delivery receipt and mark as 'confidential' (under 'sensitivity' settings). Ask the DSO to reply to the email with a 'received and will now action' statement
 - Once DSO has confirmed that will be actioned, send an email to inform the
 participant that a request for support has been made (see <u>Email template -</u>
 <u>Over 18 UH support actioned plus enhanced info</u>).
 - Record all actions, including that participant requested referral for UH support, and outcomes in the adverse events log.
 - Inform Joint Cls and Trial Manager
 - Support for the researcher will be arranged as required (in line with <u>UH guidance</u>)
- The DPO will contact the participant within **2 working days** and inform UH core team of the outcome (e.g. signposted to further support; referred to external organisation; etc.) within **5 working days** (set calendar reminder to follow-up)
- The UH core team will then record this in the adverse events log

Participants under the age of 18

Disclosure of safeguarding concern via Survey

Within each follow-up survey (M3, M6 and M12) we ask safeguarding questions (see Appendix A). If a participant under the age of 18 years responds positively to one or more items, automated messaging is triggered to both the participant and the UH core team. The participant will be sent both an automated text message and email (in parallel; triggered within REDCap in response to survey responses). The Text message – under 18 – referral alert has the dual purpose of flagging the email to the young person and providing instruction to open this email in a safe space. The trust - any method of disclosure informs them that a safeguarding referral will be made. The UH core team will simultaneously receive an automated email alerting them to any safeguarding concern. In response they will:

- Record the event in the 'adverse event log' instrument on REDCap.
- Make a referral (see 'How to Make a Referral' below).



Disclosure of safeguarding concern by any other means (interview, telephone call, email)

Clear, immediate risk of significant harm in an emergency

- Call the police on 999
- Provide as much information as possible (location, etc.)
- Note all actions taken & outcome on the adverse events log
- Inform Joint CIs and Trial Manager
 - Support for the researcher will be arranged as required (in line with <u>UH</u> guidance)

Clear risk of significant harm, non-emergency situation

Actions required at time of disclosure

- Listen/respond to the participant with empathy and remember that you are not an investigator: you don't need to ask questions
- Reassure the participant that you believe what they are telling you
- Thank them for telling you this. Explain to them that you are worried about their wellbeing and that because of their age, you are obliged to pass their details on to someone who could help.
- Explain that you will do this straight away, and that they will shortly be contacted by a specialist nurse from their local sexual health clinic who will work with them to understand what help they may need
- Reassure them that this person will confirm that it is them before proceeding and check that it is safe for them to talk first
- Make notes
- Tell them that you will send them an email which outlines what you have told them
- Ask if they have any questions and respond as best you can

Actioned required afterwards

- In parallel send <u>Text message referral alert</u> and <u>Email template Under 18s Safeguarding referral to trust any method of disclosure</u>
- Make a referral (see 'How to Make a Referral' below).
- Note all actions taken & outcome on the adverse events log
- Inform Joint CIs and Trial Manager
 - Support for the researcher will be arranged as required (in line with <u>UH</u> <u>quidance</u>)

Unclear risk of significant harm, non-emergency situation

Please note, as well as for <18s, this route is also for use by researchers for any young person aged 18+ years who they believe to be vulnerable in other ways e.g. because they have care and support needs which make them unable to protect themselves from the risk or experience of abuse and neglect (e.g. learning disability). The researcher does not need to know that this vulnerability exists, they just need to have reason to believe this may be the case.

Actions required at time of disclosure

- Attempt to gather information about the situation:
 - What is happening to them?
 - Who is doing this?
 - Do they feel safe?
- Tell them that you are worried about what they have said and that you would like to seek advice from someone at the university so that you know how best to respond.



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Explain that you won't tell this person their name, just speak to them about their situation.

- Tell them that you will send them an email outlining what you have said
- Ask if they have any questions and respond as best you can
- Make notes

Actions required:

- Send the participant Email template seeking advice
- Telephone the DSO (see contact details below) for advice and agree/implement one of the following actions:
 - 1) signpost send Email template Offer of UH support and provision of personalised info as determined by DSO)
 - 2) seek further info/details from the individual contact the individual to obtain this (for this, follow method of communication used up to that point)
 - Once response received, contact DSO with this information and consider options 1, 2, or 3 once again
 - if no response received within a fixed period (as agreed with DSO) then make a referral (see 'How to Make a Referral' below); inform individual
 - 3) In parallel send <u>Text message referral alert</u> and <u>Email template Safeguarding referral to trust following advice</u>, and make a referral to safeguard them (see 'How to Make a Referral' below).
- Type up any handwritten notes and store in the designated folder on the R drive along with participant ID (shred any paper notes). If original notes digital, then move these to the R Drive (no digital copies to be kept elsewhere)
- Note all actions taken & outcome on the adverse events log
- Inform Joint CIs and Trial Manager
 - Support for the researcher will be arranged as required (in line with <u>UH</u> quidance)

How to make a referral

- Check which local authority area the participant resides in, and complete the <u>Halo</u> Referral Form
- If the local authority is not a participating in the trial, liaise with DSO to identify most appropriate trust and make contact with them for a referral.
- Save the referral form within the designated folder on the R drive.
- Send the referral form using UH File Exchange (secure, encrypted file exchange service) within *one working day*. Request that the safeguarding contact replies to this email with a 'received and will now action' statement they are required to do this within 2 working days.
- Update adverse events log

UH Designated Safeguarding Officer (DSO) Contact Details

[Name] is the DSO for this project and should be contacted in the first instance. In their absence, [name; job title] will fulfil this role.

[Name] and [Name] are to be contacted directly but contact details for their Executive Assistant (EAs) are also provided below should these be needed.

	Designated Safeguarding Officer DSO	DSOs Executive Assistant
Name	TBC	TBC
Role	TBC	TBC
Email	TBC	TBC
Campus phone number	TBC	TBC



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Mobile phone number	TBC	TBC
Working days		

	[Job title]	[Job title] Executive Assistant
Name	TBC	TBC
Role	TBC	TBC
Email	TBC	TBC
Campus phone number	TBC	TBC
Mobile phone number	TBC	TBC
Working days		

Trust Contact Details

Name of Trust	Contact details including secure designated email address



Appendix A – Safeguarding questions used across all surveys

Title of section in survey

Sexual Wellbeing- abuse, assault & coercion

Information

Important, please read

- In this section we ask you about whether you have recently experienced unwanted sex or other types of illegal or unacceptable behaviour by a partner
- (message displayed to under 18's) If you are under 18, we have a responsibility to
 protect you. This means that if you tell us that you have been a victim, we will pass
 your contact details on to relevant organisation(s) in your local area who will try to
 get in touch so that they can work with you to find out what help (if any) is needed
- (message displayed to over 18's) In these circumstances, we would like to be able to offer you additional support. If you select one or more of these items, we will be in touch to see if you would like this.
- Everyone will receive an email on completion of this survey containing links to organisations that can help

Questions (16-17 year olds)

Please select any items that are true for you now or have been in the last [3 months/ 6 months]

If you have not experienced any of these things, please select none of the above.

- 1. Having a sexual partner who is more than 5 years older or younger than you, or in a position of trust (e.g. teacher, police officer)
- 2. Someone close to you (e.g. family member or partner) has physically hurt you, made you feel frightened or made you do something sexual that you didn't want to do/couldn't say no to
- 3. Someone has given you gifts, money, drugs, alcohol or protection for sex
- 4. You have sent or received messages of a sexual nature, or someone having sexual pictures of you
- 5. You have tried to hurt yourself or self-harm
- 6. None of the above

Questions (18 and over)

Please select any items that are true for you now or have been in the last [3 months/ 6 months]

If you have not experienced any of these things, please select none of the above.

- 1. A family member or partner has made you feel frightened or hurt you
- 2. A partner has made you feel like you are being controlled or manipulated (e.g. telling you who you can talk to or what you can wear)
- 3. Someone close to you has made you do something sexual that you didn't want to do or couldn't say no to
- 4. None of the above

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Select any that apply





Appendix B Safeguarding emails and SMS texts

Email template - All - Standard Sexual Wellbeing Support provided at survey end

Baseline (M0) survey

SUBJECT LINE: Thank You for signing up to the Halo Research Project

Hi insert name,

Thank you for signing up to the Halo research project and completing the first survey!

You'll next hear from us once we've received the result of your STI test. Once we get this it will just take us 1-2 days to complete our eligibility checks.

As you know the Halo research project aims to support young people's sexual health. If you have any issues of concerns or would like some support or information, please visit these NHS pages on sexual health

We appreciate your participation and will contact you again soon!

Best wishes, Kayleigh, Lauren and Isobel The Halo Research Project

LOGO HERE

halo@herts.ac.uk

Team phone number: 07842600795

M3, M6 and M12 surveys

SUBJECT LINE: Thank You from the Halo Research Project

Hi insert name,

Thank you for taking part in the latest Halo research project survey, we really appreciate it! Your thank-you voucher will be coming in a separate email, make sure to watch out for it (and to check your junk email if you don't see it in your inbox)!

As you know the Halo research project aims to support young people's sexual health. If you have any issues of concerns or would like some support or information, please visit these NHS pages on sexual health

Best wishes, Kayleigh, Lauren and Isobel The Halo Research Project





Team phone number: 07842600795

Email template - Over 18 - Enhanced info and offer of UH support

SUBJECT LINE: Additional Support from the Halo Research Project

Please note: this is an auto-generated email

Hi insert name,

This email has been automatically triggered because of responses you have given to questions about your sexual wellbeing in the Halo survey. These indicate to us that you have experienced unwanted sex, or other types of illegal or unacceptable behaviour by a sexual partner.

We want you to know that there are organisations available that can help you to understand what has happened to you and provide you with any necessary support.

One option is that we can put you in touch with support services available at the University of Hertfordshire. We have trained specialists at the university who can speak to you (in confidence) about your situation. They would always check that it is you before beginning, and that it is a good time to talk and that you are in a safe place where you can talk freely. They would work with you to try to find out what help and support you might need. Please email us using herts.ac.uk if you would like this kind of support and we'll be happy to arrange this for you.

Alternatively, below are details of other types of support you can access. We encourage you to reach out to them.

- The NHS website provides lots of information on getting help after rape and sexual assault - <u>click here</u>
- To find your local rape and sexual assault centre (SARC) click here

The following organisations also have information on local services:

- Rape crisis- website: https://rapecrisis.org.uk/
- The Survivors Trust website: https://www.thesurvivorstrust.org Tel: 08088 010818
- Survivors UK offers support with male rape and sexual abuse- website: https://www.survivorsuk.org/contact-us/ Tel: 02035983898 email: help@survivorsuk.org
- National organisations for support with domestic abuse can be found on the NHS website https://www.nhs.uk/live-well/healthy-body/getting-help-for-domestic-violence/
- If you are worried about relationship abuse, the following website has lots of useful information http://www.talk2someone.org.uk
- If you are under 19, you can talk through any concerns you have with Childline
 Telephone 0800 11 11 website: https://www.childline.org.uk/get-support/contacting-childline/





- Other organisations that offer support:
- Women's Aid Federation- website: https://www.womensaid.org.uk/
- National Domestic abuse line for women and children website: https://www.nationaldahelpline.org.uk
 Telephone: 0808 2000 247
- Men's advice line website: https://mensadviceline.org.uk Telephone: 0808 801032

If you have any further questions or want to know more about the support we can offer through the University of Hertfordshire, do get in touch.

Take care,

Kayleigh, Lauren and Isobel

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795

LOGO HERE



University of Hertfordshire

Safeguarding Incident Report Form - adults - V02.0 UPR HS10 Appendix IV - Effective: 1 September 2023

University of Hertfordshire: Cause for Concern Form		
Section 1-The details of the individual		
Name		
Address		
Date of Birth/ Age		
Contact number		
Emergency contact if known		
Consent to share information with emergency contact?		
Section 2 – Details of the person	completing this form/ Your details	
Name		
Contact phone number(s)		
Email address		
Line manager or alternative		
contact		
Your Role in organisation		
Section 3 – Details of concern		
Please explain why you are concerned. Please give details about what you have seen/been told/other that makes you believe the adult/child is at risk of harm or is being abused or neglected (include dates/times/evidence from records/photos etc.)		
Date/ Time	What happened	



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Section 5 – Details of the person thought to be causing harm (if known)		
Name		
Address		
Date of Birth/Age		
Relationship/connection to adult		
Role at the University or other		
Do they have contact with other adults at risk/children in another capacity? E.g. in their work/family/as a volunteer		
Section 6 - Have you discussed your concerns with the adult? What are their views, What have they stated about what they want to happen and what outcomes they want?		
Section 6A – Reasons for not discussing with the adult		
Discussion would put the adult or	r others at risk. Please explain:	



Email template - Over 18 - UH support actioned plus enhanced info

Email heading: Halo Research Project: Support has been arranged

Hi insert name,

Thank you for telling me about your situation. We understand that this experience will have been painful and difficult for you, and we want to reassure you that there are trusted, safe places for you to seek support.

You told me that it might be helpful to talk your situation through with someone, and we agreed that I organise this for you. I have now done this. As a result, a trained specialist at the University of Hertfordshire will call with you within 2 working days. They will talk with you (in confidence) and arrange any help that you may need. They would always check that it is you before beginning, and make sure that it is a good time to talk and that you are in a safe place where you can talk freely.

In the meantime, below are details of other types of support you can access. We encourage you to reach out to them.

- The NHS website provides lots of information on getting help after rape and sexual assault - <u>click here</u>
- To find your local rape and sexual assault centre (SARC) <u>click here</u>

The following organisations also have information on local services:

- Rape crisis- website: https://rapecrisis.org.uk/
- The Survivors Trust website: https://www.thesurvivorstrust.org Tel: 08088 010818
- Survivors UK offers support with male rape and sexual abuse- website: https://www.survivorsuk.org/contact-us/ Tel: 02035983898 email: help@survivorsuk.org
- National organisations for support with domestic abuse can be found on the NHS website https://www.nhs.uk/live-well/healthy-body/getting-help-for-domestic-violence/
- If you are worried about relationship abuse, the following website has lots of useful information http://www.talk2someone.org.uk
- If you are under 19, you can talk through any concerns you have with Childline
 Telephone 0800 11 11 website: https://www.childline.org.uk/get-support/contacting-childline/
- Other organisations that offer support:
- Women's Aid Federation- website: https://www.womensaid.org.uk/
- National Domestic abuse line for women and children website: https://www.nationaldahelpline.org.uk Telephone: 0808 2000 247
- Men's advice line website: https://mensadviceline.org.uk Telephone: 0808 801032

If you have any further questions or want to know more about the support we can offer through the University of Hertfordshire, do get in touch.



[Name of relevant researcher]

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795

LOGO HERE

Email template – Over 18s – Enhanced info only

Email heading: Halo Research Project: Support is available

Hi insert name.

Thank you for telling me about your situation. We understand that this will have been painful and difficult experience for you, and we want to reassure you that there are trusted, safe places for you to seek support. These places will listen to you and work with you to provide you with the support you need.

Below are details of types of support you can access. We encourage you to reach out to them.

- The NHS website provides lots of information on getting help after rape and sexual assault click here
- To find your local rape and sexual assault centre (SARC) click here

The following organisations also have information on local services:

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- Women's Aid Federation- website: https://www.womensaid.org.uk/
- National Domestic abuse line for women and children website: https://www.nationaldahelpline.org.uk Telephone: 0808 2000 247
- Men's advice line website: https://mensadviceline.org.uk Telephone: 0808 801032

Whilst you didn't want me to put you in touch with support services available at the University of Hertfordshire, I can still arrange this for you if you change your mind. Please email us using halo@herts.ac.uk and we'll arrange this for you.

If you have any further questions or want to know more about the support we can offer through the University of Hertfordshire, do get in touch.

Take care.

[Name of relevant researcher]

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795



Text message - referral alert

Safeguarding disclosure by survey

Hi [name], we have sent you an email in relation to your recent survey. It's important you read this when you're in a safe space. Please talk to us if you have any concerns, the Halo Team.

Safeguarding disclosure by other means

Hi [name], we have sent you an email in relation to something you have recently told us. It's important you read this when you're in a safe space. Please talk to us if you have any concerns, the Halo Team.

Email template - Under 18 - Safeguarding referral to trust - any method of disclosure

Title of email: Halo Research Project: we are concerned about your wellbeing

Dear insert name



Halo RCT Protocol, v3.0, 04-Sept-2025

We are making contact because of information you have shared in one of our surveys / with me [delete as appropriate] about your sexual wellbeing. Your responses suggest you may have had a experience that was non-consensual or concerning. We understand that this will have been a painful and difficult experience for you, and we want to reassure you that there are trusted, safe places out there that can help you. These places will listen to you and work with you to provide you with the support you need.

Because of your age, it is necessary for us to pass the information you have shared on to your local sexual health service so that they can make contact. They will work with you to better understand what (if any) help you might need.

We want to assure you that this process is designed to support you, and you will be involved in decision making about the next steps. All your personal details will be handled carefully and in the strictest of confidence. A sexual health nurse, from your local NHS service, will be in touch with you by phone within 48 hours (or on Monday if it is now the weekend) just to talk through things and see if they can help you. They will make sure that it is you they are speaking to before they go ahead and check that it is safe to talk. If they are unable to reach you, they may attempt to call again later or use another appropriate method to check in.

In the meantime, there is also information below on organisations that can help.

- The NHS website provides lots of information on getting help after rape and sexual assault - <u>click here</u>
- To find your local rape and sexual assault centre (SARC) <u>click here</u>

The following organisations also have information on local services:

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- National organisations for support with domestic abuse can be found on the NHS website https://www.nhs.uk/live-well/healthy-body/getting-help-for-domestic-violence/
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 Telephone: 0808 2000 247
- Men's advice line website: https://mensadviceline.org.uk Telephone: 0808 801032

In the event of an emergency, please call 999 to receive immediate support.



Kayleigh, Lauren and Isobel (if triggered survey)

[Name of relevant researcher] (if triggered by other means)

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795



Email template - Seeking advice

Title of email: Halo Research Project: what to expect next

Dear insert name,

Thank you for telling me about your situation. I understand that this will have been a painful and difficult experience for you, and I want to reassure you that there are trusted, safe places out there that can help you. These places will listen to you and work with you to provide you with the support you need.

Because of what you have told me, I would like to seek guidance from a trained specialist at the University of Hertfordshire on how best to support you. I do not need to share your name to do this. The outcome of these discussions may be that we simply signpost you to organisations that can help. Alternatively, we may decide that we need further information from you to decide what to do next, in which case I will get back in touch to ask for this.

A final outcome, if we are particularly concerned about your wellbeing, may be that we decide to share your contact details with your local sexual health clinic so that help can be arranged to keep you safe. If that is the outcome, I would however contact you first to let you that I was going to do this and to explain what to expect.

I will be back in touch again in the next 48 hours (or on Monday if it's now the weekend) to let you know the outcome.

Sincerely,

[select researcher: Kayleigh, Lauren, Isobel]

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795



LOGO HERE

Email template - Offer of UH support and provision of personalised info as determined by DSO

Title of email: Halo Research Project: additional support

Dear insert name.

Thank you for your patience whilst I sought some advice. I have now spoken to a specialist at the University of Hertfordshire, and they have advised that I provide you with the offer of specialist 1-2-1 support, and also some links to further information.

We want you to know that there are organisations available that can help you to understand what has happened to you and provide you with any necessary support.

One option is that we can put you in touch with support services available at the University of Hertfordshire. We have trained specialists at the university who can speak to you (in confidence) about your situation. They will make sure that it is you they are speaking to before they go ahead and check that it is safe to talk. If they are unable to reach you, they may attempt to call again later or use another appropriate method to check in. They would work with you to try to find out what help and support you might need. Please email us using halo@herts.ac.uk if you would like this kind of support and we'll be happy to arrange this for you.

Alternatively, below are details of other types of support you can access. We encourage you to reach out to them.

[list sources of support as agreed with DSO]

Take care,

[select researcher: Kayleigh, Lauren, Isobel]

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795

LOGO HERE



Email template - Safeguarding referral to trust following advice

Title of email: Halo Research Project: we are concerned about your wellbeing

Dear insert name

In my last email on [date], I let you know that I would be seeking advice from a specialist on how best to support you. I have now had that conversation. Because of the information that you have shared, they have decided that the best course of action is for us to inform your local sexual health service about your circumstances. They will work with you to better understand what (if anything) help you might need.

We want to assure you that this process is designed to support you, and you will be involved in decision making about the next steps. All your personal details will be handled carefully and in the strictest of confidence. A sexual health nurse, from your local NHS service, will be in touch with you by phone within 48 hours (or on Monday if it is now the weekend) just to talk through things and see if they can help you. They will make sure that it is you they are speaking to before they go ahead and check that it is safe to talk. If they are unable to reach you, they may attempt to call again later or use another appropriate method to check in.

In the meantime, there is also information below on organisations that can help.

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 Telephone: 0808 2000 247
- Men's advice line website: https://mensadviceline.org.uk Telephone: 0808 801032



Sincerely,

[Name of relevant researcher]

The Halo Research Project

halo@herts.ac.uk

Team phone number: 07842600795

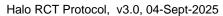
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HALO REFERRAL FORM (sexual health and safeguarding support)

Reason for referral:			
•	Sexual health; chlamydia detected recorded)	(Date/time	
•	Sexual health; gonorrhoea detected)	(Date/time recorded	
•	Sexual health; gonorrhoea detected (unconfirmed)	(Date/time recorded	
•	Safeguarding; disclosure of abuse)	(Date/time recorded	
Safeg	juarding further information:		
If no safeguarding disclosure, delete this whole section and replace with the statement 'No safeguarding disclosure made to the research team']			
Method of disclosure:			
0	Email contact		
0	Telephone contact		
0	Survey response		
0	Qualitative interview		
	Details of the disclosure: [complete below if survey response. If other form of disclosure, delete below survey items and add details about the disclosure]		
0	Having a sexual partner who is more than 5 years older or younger than you, or in a position of trust (e.g. teacher, police officer)		





- Someone close to you (e.g. family member or partner) has physically hurt you, made you feel frightened or made you do something sexual that you didn't want to do/couldn't say no to
- Someone has given you gifts, money, drugs, alcohol or protection for sex
- You have sent or received messages of a sexual nature, or someone having sexual pictures of you
- o You have tried to hurt yourself or self-harm