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## Young people, partner abuse and sexual health: indicators of increased risk

--Manuscript Draft--

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<b>Abstract:</b>	<p>Partner abuse (PA) is common among young people, but is often missed by professionals working in health, social care, education and the criminal justice system. This paper explores the types of PA experienced by young people and links with sexual health to see whether there are factors which indicate greater vulnerability to abuse.</p> <p>Young people aged 16 to 20 from across the UK (n=1,754) completed an online survey in 2010-11. We report experience of emotional, physical and sexual partner abuse and model the associations with demographic and sexual health variables in bivariate analysis using logistic regression.</p> <p>A third of participants reported one or more types of partner abuse within the previous three months, regardless of gender of partner. Partner abuse was significantly associated with sexually transmitted infection (Odds Ratios 1.6 and 2.9 for young women and young men respectively), regretted sex (OR 2.7 and 1.9), distress or worry about sex life (OR 2.7 and 4.6), sexual problems, numbers of sexual partners (OR 1.2 for each additional partner), and sexual health service use (for young men) (OR=1.9).</p> <p>These 'indicators' may be noticed by professionals who work with young people, and can act as prompts to ask about partner abuse.</p>
<b>Keywords:</b>	Intimate Partner Violence; Domestic Violence; Surveys and Questionnaires; Sexual Health; Sexually Transmitted Infection
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<b>Question</b>	<b>Response</b>
<b>Key Messages</b>	-Emotional abuse and control were commonly reported by young people
Please enter 2-3 single sentence bullet points describing the key messages of the paper.	-Young people with greater numbers of sexual partners, sexually transmitted infection or sexual problems are more likely to suffer partner abuse  -More than a third of those who regretted sex, or who felt distressed or worried about their sex lives had experienced partner abuse
<b>Word Count</b>	4596
Academic articles should be between 5000 and 7000 words in length.	

<p>Policy and Practice articles should be between 2000 and 4000 words in length.</p> <p>Open Space pieces should be between 2000 and 4000 words in length.</p>		
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<p><b>Author Comments:</b></p>	<p>Dear Professor Hester,</p> <p>I am pleased to submit the final version of our paper which I have checked carefully.</p> <p>I have also developed an infographic to convey the main messages of the paper. It is currently with the graphic designer and I'll forward it to you as soon as I can.</p> <p>With best wishes,</p> <p>Julia Bailey (Dr)</p>	
<p><b>Response to Reviewers:</b></p>	<p>All points addressed</p>	

## Young people, partner abuse and sexual health: indicators of increased risk

### INTRODUCTION

Partner abuse (PA) refers to controlling, coercive or threatening behaviour, violence or abuse from an intimate partner regardless of gender or sexuality, and includes emotional, physical and sexual abuse, and control of freedom and resources. Partner abuse is a global, gendered problem (Heise and Kotsadam, 2015). It affects men as well as women, although women suffer more sexual abuse, more severe physical abuse, and more coercive control than men (Feder and Howarth, 2014). The lifetime prevalence of partner abuse internationally ranges from 15% to 71% (Garcia-Moreno et al, 2006). In England and Wales, an estimated 6.5% of women and 2.8% of men aged 16 to 59 experienced partner abuse in 2016, with a lifetime prevalence of 28.3% and 14.7% respectively (Office for National Statistics, 2017).

Partner abuse also occurs in young people's relationships, at higher rates than for older age groups. Women aged 16 to 19 were more likely than older age groups to experience domestic abuse (13.1% compared with 6.8% overall), (Office for National Statistics, 2015) and the same is true for young men (7.5% compared with 3.0%). Young women were also more likely to be victims of sexual abuse and stalking compared with older age groups (Office for National Statistics, 2015). For many young women, their first sexual experience is coerced: 17% of women in Tanzania, 24% of women in Peru, and 30% of women in Bangladesh reported their first sexual experience as forced (Garcia-Moreno et al, 2006). PA is the second most common

1 risk factor for disability adjusted life years globally in women aged 20 to 24 years (Mokdad et al,  
2 2016).

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6 A UK school survey found that 72% of girls and 51% of boys aged 13 to 17 had been subject to  
7 emotional violence from a partner (Barter et al, 2009). Twenty-five percent of girls and 18% of  
8 boys had suffered physical violence, and 31% of girls and 16% of boys had suffered sexual  
9 violence. In the National survey of Sexual Attitudes and Lifestyles (NATSAL-3), 6.9% of young  
10 women and 0.8% of young men aged 16 to 24 reported non-consenting sex (ever) (Macdowall et  
11 al, 2013). Intimate partner violence is therefore more commonly experienced by girls than by  
12 boys, but is also more often ongoing, and has a greater negative impact on girls' wellbeing (e.g.  
13 feeling frightened or upset).(Barter et al, 2009)  
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28 Intimate partner violence damages health (Trevillion et al, 2012). Women who experience  
29 intimate partner violence are at greater risk of chronic health conditions, including  
30 gynaecological problems, gastrointestinal disorders, neurological symptoms, chronic pain,  
31 cardiovascular conditions and mental health problems (particularly post-traumatic stress  
32 disorder, depression, anxiety, suicidal thoughts, and substance misuse) (Ellsberg et al. 2008;Feder  
33 et al, 2011; Macdowall et al, 2013). The prevalence of domestic violence (including partner  
34 abuse) is high in primary care populations and amongst those who present to sexual health  
35 services, for example women seeking abortion, and women who are pregnant under 18  
36 (Macdowall et al, 2013). PA is associated with adverse sexual health outcomes including sexually  
37 transmitted infection, vaginal discharge, chronic pelvic pain, sexual risk-taking, inconsistent  
38 condom use and sexual dysfunction (Coker 2007; Ellsberg et al, 2008).  
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Although partner abuse is so common, professionals working in health, education, social care and the criminal justice system may not be aware of it. For example, most women are not asked about abuse in health care settings, despite the clear links with ill-health (Feder et al. 2011). Young people may be reluctant to disclose partner abuse to adults. For example, only 8% of school-age girls and 7% of boys told a parent or carer about physical violence, and 3% of girls and 5% of boys told another adult (Barter et al, 2009).

In this paper we report the findings of a web-based sexual health survey of 1,754 young people living in the United Kingdom. We report in detail the type of partner abuse (PA) experienced by young women and men, and explore links with sexual health to see which factors might indicate increased vulnerability.

## *METHODS*

### *Design and setting*

This study is a cross-sectional survey of 1,754 young people aged 16 to 20, recruited mainly online. The survey comprised demographics and sexual health questions which were asked at baseline in an online randomised controlled trial of the Sexunzipped website (Bailey et al, 2013) (*see Appendix – sexual health questionnaire*). For this study of partner abuse, we analysed the baseline responses of all trial participants (before randomisation), treating the data as a non-randomly selected cross-sectional survey. The study was approved by the University College London ethical committee (reference 1023/002).

### *Participant recruitment*

We advertised the study on sexual health websites and Facebook, sent an advert to schools and colleges, and invited participants to tell friends (Bailey et al, 2013). The advertisement featured

1 the Sexunzipped logo and asked, ‘*Interested in sexual health? Willing to help us with our*  
2 *research?*’ The study focused on many dimensions of sexual wellbeing, and was not specifically  
3 about intimate partner abuse. Eligible participants (young people 16 to 20 years old, resident in  
4 the United Kingdom) enrolled online through the Sexunzipped trial website, submitting consent  
5 online and completing the baseline questionnaire online before randomisation. The online trial  
6 system automatically assigned code numbers to participants to preserve their anonymity, and we  
7 stored electronic data securely on encrypted hard drives.  
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### 10 *Outcome measurement*

11 The Sexunzipped questionnaire featured items from validated sexual health outcome  
12 measurement instruments including indicators for AIDS prevention programs,(UNAIDS 2009)  
13 the National Survey of Sexual Attitudes and Lifestyles (Wellings et al, 2001) and the HARK  
14 four-question scale to assess intimate partner abuse (Sohal et al, 2007). The questionnaire  
15 solicited demographic information and sexual health outcomes including mediators of sexual  
16 behaviour change (sexual health knowledge, self-efficacy, and safer sex intention), sexual  
17 behaviour (condom and contraception use, use of services, and partner numbers), self-reported  
18 sexually transmitted infections, pregnancy, sexual problems, partner abuse, regretted sex, sexual  
19 pleasure, and relationship and sexual satisfaction (*see Appendix: sexual health questionnaire*)  
20 (Bailey et al, 2013). We asked six questions concerning partner abuse (see Box 1). Four questions  
21 were derived from the HARK abuse assessment tool (Pathak et al. 2017; Sohal et al, 2007). We  
22 adapted the wording of the third HARK question to omit the term ‘raped’ in the light of feedback  
23 from young people during qualitative field testing of the questions. Data were collected between  
24 November 2010 and March 2011.  
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## Box 1. HERE - Partner abuse questions

### *Data analysis*

We estimated proportions of young people experiencing emotional, sexual and physical abuse, and the associations with demographic and sexual health variables. A positive response to one or more of the HARK questions was taken to indicate PA. HARK 1 or 2 or Additional Question 1 were considered ‘emotional abuse’; HARK 3 or Additional Question 2 were considered ‘sexual abuse’; and HARK 4 was considered ‘physical abuse’. We used bivariate logistic regression to model the associations of demographic and sexual health variables with partner abuse. We restricted this analysis to participants reporting opposite gender sexual partners (F-M and M-F) because of the small numbers of men with male partners (n=117), women with female partners (n=41), men with both gender partners (n=67), women with both gender partners (n=73), and transgender or other gendered people (n=12). Statistical analyses were conducted using STATA Version 12 (StataCorp LP, Texas, USA).

### *RESULTS*

#### *Participant recruitment*

There were almost three million UK Facebook users aged 18-20 in 2010 (Inside Network 2012) but we do not know how many actually saw the advertisement or heard about the study via other routes. An estimated 6,710 people viewed the Sexunzipped study website: 4,931 of these met the eligibility criteria for age and UK residence and 2,036 of those (41%) submitted online questionnaire data (See Consort diagram). Most participants were recruited via Facebook (84%), with others via friends or relatives (9%), email (4%), and through school or college (2%) (Bailey et al, 2013)

### *Participant identity verification and data cleaning*

1 Eighteen participants withdrew, and twelve registered more than once so were removed from the  
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3 data set. Sixty six participants who gave inconsistent answers to sexual health questions were  
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5 removed, and we also excluded 119 participants who were not in sexual relationships in the last  
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7 three months and 108 who had never had (genital) sex, since self-reported STI was a principal  
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9 outcome of interest. These categories were not mutually exclusive. Twenty three people whose  
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11 own or partners' gender was transgender or 'other', could not be included, since the numbers  
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13 were too small to do meaningful analyses. We analysed data from the remaining 1,754  
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17 participants.  
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22 Consort diagram here -  
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### *Participants*

26 Two thirds of participants were female (1129/1754). Participants ranged in age from 16 to 20  
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28 with a median age of 19 years, recruited from across the UK (Bailey et al, 2013). Ninety percent  
29  
30 of participants were White (British, Irish, European or other); 2.2% Black (British, Caribbean,  
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32 African or other); 2.2% Asian (British, Chinese, Pakistani, Indian or other); 3.3% of mixed  
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34 cultural background; and 0.1% 'other'. Most (79%) were still in education. Most sexual  
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36 partnerships within the last 3 months were with opposite-gender partners (Table 1), and most  
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38 young people reported being in a relationship with one person (*see Appendix - Supplementary*  
39  
40 *data*).  
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### *Partner abuse by gender and gender of partner/s*

48 A third of all participants reported one or more types of partner abuse within the previous three  
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50 months, regardless of gender of partner (31% of young women (n=347/1129) and 35% of young  
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men (n=217/625)). Emotional abuse and control were the most common forms of abuse reported by both male and female participants, with 10% to 37% reporting this over the last three months (Table 1).

Table 1 HERE - Partner abuse by gender and gender of partner/s

Young people commonly experienced more than one type of abuse. Emotional abuse was reported by 26% of young women with male partners (n=1019), with 12% reporting sexual abuse or pressure and 7% physical abuse in the previous three months (see Figures 1 and 2). The proportions of types of abuse were similar for young men with female partners (n=441).

Figure 1. HERE - Young women with male partners: type of partner abuse in previous 3 months (n=1019)

Figure 2. HERE - Young men with female partners: type of partner abuse in previous 3 months (n=441)

## **Factors associated with partner abuse – young women with male partners**

### *Factors associated with increased PA*

There were significant associations of PA with regretted sex (OR 2.7; 95% CI 2.0 to 3.6); 1-5 episodes of unprotected anal sex (OR 1.7; 95% CI 1.1 to 2.6), self-reported STI (OR 1.6; 95% CI 1.1 to 2.5), lack of interest in sex (OR 1.7; 95% CI 1.3 to 2.3; vaginal dryness (OR 1.8; 95% CI 1.3 to 2.4); difficulty with orgasm (OR 1.8; 95% CI 1.3 to 2.6); distress or worry about sex life

(OR 2.7; 95% CI 1.9 to 3.9), and greater numbers of male sexual partners in the last three months (OR 1.2 for each additional partner, 95% CI 1.1 to 1.3) (Table 2).

### *Protective factors*

There were significantly reduced proportions of PA over the previous three months in women who were not White (OR 0.6; 95% CI 0.4 to 0.9), women still in education (OR 0.7; 95% CI 0.5 to 1.0), and those in a relationship with one person (OR 0.5; 95% CI 0.4 to 0.7). We also found significantly reduced proportions of PA for women reporting greater emotional or physical pleasure at last sex (OR 0.4; 95% CI 0.3 to 0.6), (OR 0.5; 95% CI 0.4 to 0.7); greater satisfaction with relationships (OR 0.4; 95% CI 0.3 to 0.6); satisfaction with their sex lives (OR 0.5; 95% CI 0.4 to 0.8), and higher levels of safer sex communication self-efficacy (OR 0.4; 95% CI 0.3 to 0.6) (Table 2). There were no associations of partner abuse with unprotected vaginal sex, being too drunk or high to remember sex, use of any form of contraception, or use of sexual health services.

Table 2. HERE - Associations with partner abuse ( $\geq 1$  HARK questions) – women with male partners

## **Factors associated with partner abuse – young men with female partners**

### *Factors associated with increased PA*

Young men with female partners who were not White were more likely to report PA (OR 2.1; 95% CI 1.1 to 3.8). We also found significant associations of PA with regretted sex (OR 1.9; 95% CI 1.1 to 3.2); self-reported sexually transmitted infection (OR 2.9; 95% CI 1.4 to 6.1); use of sexual health services (OR 1.9; 95% CI 1.1 to 3.2); lack interest in sex (OR 1.8; 95% CI 1.1 to 3.1); anxiety during sex (OR 1.0; 95% CI 1.0 to 1.0); distress or worry about sex life (OR 4.6;

95% CI 2.5 to 8.2), and greater numbers of female sexual partners in the last three months (OR 1.2 for each additional partner, 95% CI 1.0 to 1.3) (Table 3).

#### *Protective factors*

Men reporting greater physical pleasure at last sex (OR 0.5; 95% CI 0.3 to 0.9); and greater satisfaction with their relationships (OR 0.3; 95% CI 0.1 - 0.5) and satisfaction with their sex lives (OR 0.4; 95% CI 0.2 - 0.7) were less likely to have experienced PA (Table 3). For men, there were no associations between PA and still being in education, levels of self-efficacy, being too drunk or high to remember sex, or unprotected anal or vaginal sex (Table 3).

Table 3. HERE - Associations with partner abuse ( $\geq 1$  HARK questions) – men with female partners

### **Partner abuse and regretted sex or distress or worry about sex life**

Regretted sex, and distress or worry about sex life were associated with PA for both men and women, so we tested whether these variables might be useful as ‘indicator’ questions to help detect partner abuse by health professionals, combining data from both male and female respondents.

The proportion of those who regretted sex who had also experienced recent PA in the previous three months was 207/611 (positive predictive value 34%). The proportion of those who had not regretted sex who had not experienced PA was 950/1143 (negative predictive value 83%).

The proportion of those who were distressed or worried about their sex lives who had also experienced PA in the previous three months was 130/344 (positive predictive value 38%). The

1 proportion of those who were not distressed or worried and who had not experienced PA was  
2 1140/1410 (negative predictive value 81%).  
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## 5 *DISCUSSION*

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9 Partner abuse was common in this population of young people who were recruited online, with  
10 emotional abuse and control the most common forms of abuse. PA is associated with a cluster of  
11 negative sexual health outcomes for young people with opposite gender partners. We found  
12 significant associations with regretted sex; sexual problems; reduced satisfaction with  
13 relationships and sex life; distress or worry about sex life; and reduced pleasure at last sex.  
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15 PA was also associated with greater numbers of sexual partners in the last three months,  
16 unprotected anal sex (for women), and self-reported sexually transmitted infection. More than a  
17 third of those who had regretted sex recently, or who felt distressed or worried about their sex  
18 lives had experienced partner abuse.  
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33 We recruited a large number of young people from all four countries of the UK, but since  
34 participants in this study were not randomly selected, we cannot make inferences about the  
35 national prevalence of partner abuse. Soliciting data online facilitates honesty (Copas et al, 2002;  
36 Nicholas et al, 2013) and the high internal consistency of responses demonstrates good data  
37 validity. The associations with predictive variables are robust and provide insight into clusters of  
38 harms which are associated with PA. Sample sizes were not large enough to explore links with  
39 sexual health for young people in same-gender relationships.  
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There are inherent imprecisions in analyses of survey data (Potter, 2001). The study may have attracted young people who particularly wished to report their sexual health experiences (those with either positive or negative experiences). Abuse may be under-reported for many reasons including fear of the consequences (Andersson et al, 2010) not identifying with terms used to describe abuse (Evans et al, 2016) or perceiving it as normal (Barter, 2015). There are substantial gender differences in the experience of PA, over and above differences in prevalence (Barter et al, 2009; Brennan, 2009; Hester, 2013), but we did not measure intent, severity, frequency and impacts of PA (other than STIs) (Myhill, 2017). Two thirds of the participants were female and 90% of them reported opposite gender partners (F-M =1019/1129), so the precision of the analyses of these women’s responses was greater than for the other groups. The cross-sectional nature of our data does not allow conclusions about causal pathways, and we did not conduct multi-variate analyses since clusters of adverse sexual health outcomes are linked with abuse in complex ways (Andersson et al, 2010).

Other studies have found that abuse was more commonly reported by young women than young men (Barter et al, 2009) and seems to be more frequent in young people who have sexual partners of both genders (Finneran and Stephenson, 2013; Macdowall et al, 2013; Mercer et al, 2007; Pathela and Schillinger, 2010). The UK NATSAL-3 found associations between non-consenting sex and more lifetime sexual partners, STI, and low sexual function in both men and women (Macdowall et al, 2013) and PA was also associated with acquisition of HIV (Li et al, 2014). We found associations between PA and with unprotected anal sex in young women, but not with unprotected vaginal sex. Other studies describe links between PA and partner refusal to use a condom or not permitting women to use contraception (Fair and Vanyur, 2011). Sexual pressure

1 and control of freedom is common amongst young women and young men (Barter, 2015). The  
2 ubiquitous use of technology such as mobile phones and social networking sites provide avenues  
3 for abuse which particularly affect young people, and there are strong links between online abuse  
4 and physical abuse (Barter, 2015).  
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10 Young people may be reluctant to disclose partner abuse to anyone, especially adults (Barter et  
11 al, 2009). Healthcare services may be the only point of contact with professionals and there is  
12 polling evidence in England and Wales that children aged 11 to 17 have greater trust in doctors  
13 than in other groups of adults (Ipsos MORI, 2017). Adult women would like health care  
14 professionals to provide support (Feder et al, 2011), to be non-judgmental and nondirective, and  
15 to appreciate the complexity of partner violence (Feder et al, 2006), and men are also willing to  
16 being asked about abuse and violence in a health service setting (Morgan et al. 2014). We found  
17 an association between PA and use of sexual health services for young men (although men  
18 generally consult health services less frequently than women).  
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35 There are screening tools available to increase detection of abuse, but no evidence that screening  
36 and detection alone reduces future occurrence or the impact of abuse (O'Doherty et al, 2014). An  
37 effective alternative approach in health care contexts is to ask about the abuse in relation to  
38 symptoms and conditions that are associated with abuse, such as anxiety, depression, chronic  
39 pain, non-specific symptoms, and, after disclosure, to offer to refer on to specialist advocacy  
40 services (Feder et al, 2011 There are a cluster of adverse sexual health outcomes associated with  
41 PA which may be symptoms (e.g. STI or sexual problems), or factors which may emerge in a  
42 sexual history (e.g. larger numbers of sexual partners, regretted sex, distress or worry about sex  
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life). It is essential that disclosure is in patients’ best interests, and will not lead to harms such as breaches of confidentiality and escalation of risk (Feder et al, 2006; Pathak et al, 2017) Clear pathways for referral are vital (Pathak et al, 2017). Improvement in the response to PA among young people and adults of any age needs to focus less on how people experiencing PA are identified and more on how to support them after disclosure (Feder, 2016).

### *CONCLUSIONS*

Partner abuse is experienced by young women and young men, and is associated with a cluster of negative sexual health outcomes including sexually transmitted infections, higher numbers of sexual partners, sexual problems, regretted sex, and distress or worry about sex lives.

These ‘indicators’ may be noticed by professionals who work with young people in a variety of settings including health and social care, education, youth work, and the criminal justice system, and can act as prompts to ask about partner abuse.

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## Young people, partner abuse and sexual health: indicators of increased risk

### Box 1. Partner abuse questions

#### Adapted HARK abuse assessment screening questions

In the last 3 months, have you been....

1. Humiliated or emotionally abused in other ways by a partner or ex-partner?
2. Afraid of a partner or ex-partner?
3. Forced to have any kind of sexual activity by a partner or ex-partner?
4. Kicked, hit, slapped or otherwise physically hurt by a partner or ex-partner?

Response options:  Yes  No  Not sure

#### Additional questions:

In the last 3 months, has a partner...

1. Told you who you could see and where you could go
2. Pressurised you into any form of sexual activity?

Response options:  Yes  No  Not sure

Figure 1. Young women with male partners: type of partner abuse in previous 3 months (n=1019)

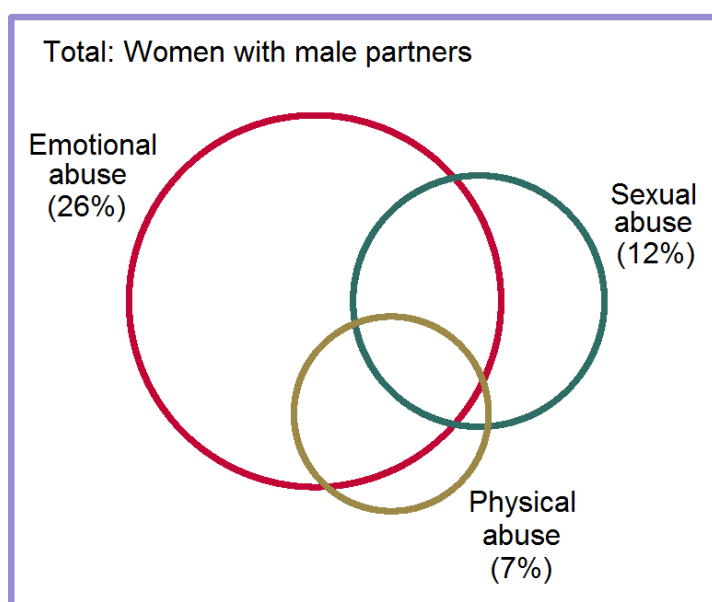
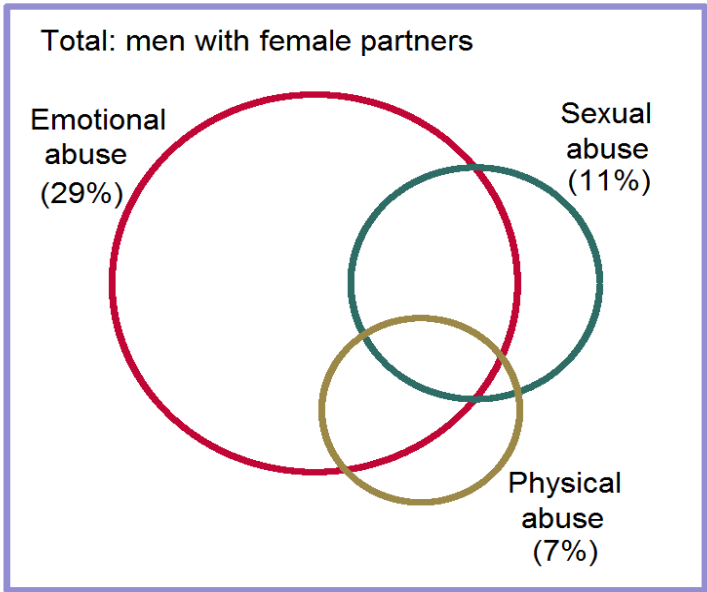
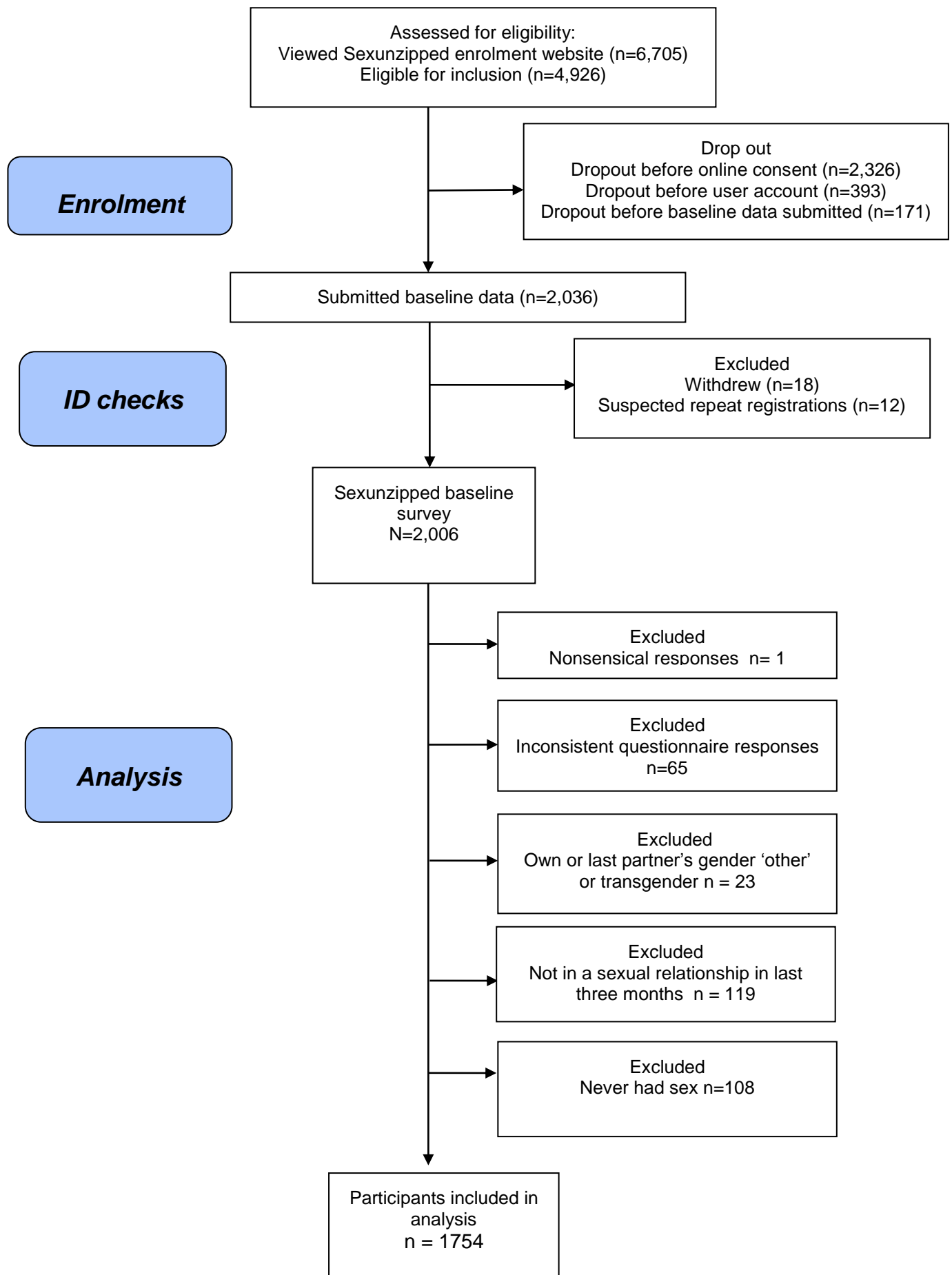


Figure 2. Young men with female partners: type of partner abuse in previous 3 months (n=441)



### Consort diagram – Intimate partner abuse among young people



## Young people, partner abuse and sexual health: indicators of increased risk

Table 1. Partner abuse by gender and gender of partner/s

Gender and gender of partners, last 3 months	Number in each group Total = 1,754	HARK 1 Humiliated or emotionally abused by a partner or ex- in last 3 months? % (95% CI)	HARK 2 Afraid of a partner or ex-partner in last 3/12? % (95% CI)	HARK 3 Forced to have any kind of sexual activity by a partner or ex- in last 3/12? % (95% CI)	HARK 4 Kicked, hit, slapped or otherwise physically hurt by a partner or ex- in the last 3 months? % (95% CI)	Positive response to one or more HARK questions % (95% CI)	Has a partner told you who you could see and where you could go? % (95% CI)	Has a partner pressurised you into any form of sexual activity? % (95% CI)
F-M	n=1019	14.3 (12.3 to 16.6)	9.4 (7.8 to 11.4)	4.5 (3.4 to 6.0)	7.1 (5.6 to 8.8)	22.8 (20.3 to 25.4)	12.5 (10.6 to 14.6)	9.9 (8.2 to 11.9)
F-MF	n=70	34.3 (23.9 to 46.4)	22.9 (14.3 to 34.4)	18.6 (11.0 to 29.7)	30.0 (20.2 to 42.0)	48.6 (36.9 to 60.4)	27.1 (17.8 to 39.0)	20.0 (12.1 to 31.3)
F-F	n=40	15.0 (6.7 to 30.4)	2.5 (0.3 to 17.0)	2.5 (0.3 to 17.0)	7.5 (2.3 to 21.7)	20.0 (10.0 to 36.0)	22.5 (11.8 to 38.7)	0.0
M-F	n=441	10.2 (7.7 to 13.4)	4.3 (2.8 to 6.7)	2.9 (1.7 to 5.0)	7.0 (5.0 to 9.8)	17.2 (14.0 to 21.1)	20.9 (17.3 to 24.9)	10.7 (8.1 to 13.9)
M-FM	n=67	14.9 (8.1 to 25.9)	10.4 (5.0 to 20.7)	13.4 (7.0 to 24.2)	11.9 (6.0 to 22.4)	28.4 (18.7 to 40.6)	37.3 (26.4 to 49.7)	22.4 (13.8 to 34.2)
M-M	n=117	18.8 (12.6 to 27.0)	12.0 (7.2 to 19.3)	6.0 (2.8 to 12.1)	6.0 (2.8 to 12.1)	26.5 (19.2 to 35.4)	15.5 (9.8 to 23.2)	14.5 (9.2 to 22.3)

**Table 2. Associations with partner abuse ( $\geq 1$  HARK questions) – women with male partners**

	Odds Ratio	95% Confidence Interval	P value
Age (each one year increase)	0.93	0.799 - 1.079	0.33
Ethnicity ('non-white' vs. 'white')	0.56	0.351 - 0.898	0.02
In education	0.68	0.476 - 0.956	0.03
Not in a relationship	1		
In a relationship with one person	0.51	0.372 - 0.700	<0.001
In a relationship with >1 person	2.05	0.899 - 4.677	
Last partner regular (vs one-off)	0.83	0.541 - 1.268	0.39
Too drunk or high to remember sex in the last 3/12	1.29	0.872 - 1.909	0.20
Any regretted sex in the last 3/12	2.70	1.993 - 3.643	<0.00
Safer sex communication self-efficacy (1 unit increase in score)	0.43	0.306 - 0.597	<0.00
Sexual pleasure communication self-efficacy (increase in score)	0.78	0.577 - 1.051	0.10
Condom use self-efficacy	0.90	0.698 - 1.169	0.44
No unprotected vaginal sex in the last 3/12	1	-	0.25
1-5 episodes of unprotected vaginal sex in the last 3/12	1.42	0.918 - 2.204	
>5 episodes of unprotected vaginal sex in the last 3/12	1.15	0.770 - 1.721	
No unprotected anal sex in the last 3/12	1	-	0.04
1-5 episodes of unprotected anal sex in the last 3/12	1.68	1.110 - 2.550	
>5 episodes of unprotected anal sex in the last 3/12	1.51	0.685 - 3.346	
Any use of service in the last 3/12	1.24	0.858 - 1.792	0.25
Any STI in the last 3/12	1.63	1.079 - 2.450	0.02
Use of any contraception including condoms	0.84	0.610 - 1.167	0.31
Lacked interest in sex in last 3/12	1.71	1.262 - 2.307	<0.01
Lacked enjoyment in sex in last 3/12	1.01	0.993 - 1.029	0.25
Felt anxious during sex in last 3/12	1.02	0.991 - 1.053	0.18
Physical pain during sex in last 3/12	1.02	0.987 - 1.045	0.28
No excitement or arousal during sex in last 3/12	1.03	0.998 - 1.053	0.07
Did not orgasm	1.80	1.254 - 2.590	<0.01
Orgasm too quickly	1.03	0.681 - 1.564	0.88
Uncomfortably dry vagina	1.75	1.285 - 2.374	<0.01
Number of male partners in last 3/12 (reference category 1)	1.18	1.051 - 1.321	<0.01
Satisfied with relationships (neither agree nor disagree)	0.81	0.477 - 1.375	0.44
Satisfied with relationships (agree)	0.37	0.247 - 0.546	<0.01
Satisfied with sex life (neither agree nor disagree)	0.76	0.469 - 1.226	0.26
Satisfied with sex life (agree)	0.54	0.379 - 0.773	<0.01
Distressed or worried about sex life (neither agree nor disagree)	2.47	1.674 - 3.639	<0.01
Distressed or worried about sex life (agree)	2.69	1.855 - 3.891	<0.01
Ever talked to partner about sex you like	0.73	0.477 - 1.108	0.14
Ever talked to partner about sex they like	0.86	0.559 - 1.324	0.50
Emotional pleasure at last sex	0.40	0.277 - 0.590	<0.01
Physical pleasure at last sex	0.51	0.376 - 0.695	<0.01
Log of deprivation score	0.97	0.785 - 1.190	0.75
Pregnant within the last 3 months	1.85	0.928 - 3.669	0.08

**Table 3. Associations with partner abuse ( $\geq 1$  HARK questions) – men with female partners**

	Odds Ratio	Confidence Intervals	P value
Age (each one year increase)	1.03	0.797 - 1.331	0.82
Ethnicity ('non-white' vs. 'white')	2.05	1.114 - 3.771	0.02
In education	0.85	0.476 - 1.506	0.57
Not in a relationship	1		
In a relationship with one person	0.52	0.307 - 0.880	0.06
In a relationship with >1 person	0.58	0.156 - 2.116	
Last partner regular	0.52	0.290 - 0.915	0.02
Too drunk or high to remember sex in the last 3/12	1.52	0.839 - 2.768	0.17
Any regretted sex in the last 3/12	1.90	1.142 - 3.165	0.01
Safer sex communication self-efficacy (1 unit increase in score)	0.75	0.440 - 1.279	0.29
Sexual pleasure communication self-efficacy (increase in score)	1.07	0.625 - 1.829	0.81
Condom use self-efficacy	0.89	0.588 - 1.347	0.58
No unprotected vaginal sex in the last 3/12	1		
1-5 episodes of unprotected vaginal sex in the last 3/12	1.35	0.654 - 2.797	0.47
>5 episodes of unprotected vaginal sex in the last 3/12	1.52	0.766 - 3.003	
Any use of service in the last 3/12	1.91	1.142 - 3.183	0.01
Any STI in the last 3/12	2.93	1.418 - 6.063	<0.01
Use of any contraception including condoms	0.69	0.405 - 1.164	0.16
Lacked interest in sex in last 3/12	1.79	1.049 - 3.050	0.03
Lacked enjoyment in sex in last 3/12	1.01	0.983 - 1.029	0.62
Felt anxious during sex in last 3/12	1.02	1.000 - 1.034	0.05
Physical pain during sex in last 3/12	1.02	0.990 - 1.047	0.21
No excitement or arousal during sex in last 3/12	1.02	0.997 - 1.038	0.10
Did not orgasm	1.51	0.909 - 2.504	0.11
Orgasm too quickly	1.43	0.862 - 2.362	0.17
Trouble getting or keeping an erection	1.00	0.978 - 1.020	0.90
Number of female partners (reference category 1)	1.16	1.015 - 1.331	0.03
Satisfied with relationships (neither agree nor disagree)	0.49	0.205 - 1.174	0.11
Satisfied with relationships (agree)	0.26	0.135 - 0.483	<0.01
Satisfied with sex life (neither agree nor disagree)	0.83	0.397 - 1.733	0.62
Satisfied with sex life (agree)	0.40	0.220 - 0.717	<0.01
Distressed or worried about sex life (neither agree nor disagree)	2.38	1.225 - 4.623	0.01
Distressed or worried about sex life (agree)	4.56	2.541 - 8.184	<0.01
Ever talked to partner about sex you like	1.02	0.477 - 2.197	0.95
Ever talked to partner about sex they like	0.77	0.397 - 1.509	0.45
Emotional pleasure at last sex	0.54	0.284 - 1.039	0.06
Physical pleasure at last sex	0.51	0.299 - 0.857	0.01
Log of deprivation score	1.16	0.808 - 1.672	0.42



## Partner abuse amongst young people

Supplementary Table. Demographics and sexual health outcomes by gender and gender of partner/s

Outcomes		F-M N = 1019 No. (%)	F-MF N = 70 No. (%)	FF N = 40 No. (%)	M-F N = 441 No. (%)	M-FM N = 67 No. (%)	M-M N = 117 No. (%)
<b>Age</b>	16	27 (2.7)	4 (5.7)	1 (2.5)	15 (3.4)	5 (7.5)	3 (2.6)
	17	50 (4.9)	4 (5.7)	1 (2.5)	17 (3.9)	2 (3.0)	6 (5.1)
	18	365 (35.8)	27 (38.6)	11 (27.5)	130 (29.5)	16 (23.9)	33 (28.2)
	19	336 (33.0)	21 (30.0)	15 (37.5)	173 (39.2)	20 (30.0)	43 (36.8)
	20	241 (23.7)	14 (20.0)	12 (30.0)	106 (24.0)	24 (35.8)	32 (27.4)
<b>Ethnicity</b>	'White'	910 (85.1)	59 (84.3)	34 (85.0)	375 (85.0)	58 (86.6)	104 (88.9)
	'Not White'	152 (14.9)	11 (15.7)	6 (15.0)	66 (15.0)	9 (13.4)	13 (11.1)
<b>In education</b>	No	202 (20.1)	12 (17.4)	7 (17.5)	100 (22.8)	14 (20.9)	31 (26.7)
	Yes	805 (79.9)	57 (82.6)	33 (82.5)	338 (77.2)	53 (79.1)	85 (73.3)
<b>Current relationship:</b>	Not in a relationship	277 (27.2)	28 (40.0)	12 (30)	118 (26.8)	34 (50.7)	56 (47.9)
	With 1 person	717 (70.4)	33 (47.1)	27 (67.5)	304 (68.9)	30 (44.8)	60 (51.2)
	With >1 person	25 (2.5)	9 (12.9)	1 (2.5)	19 (4.3)	3 (4.5)	1 (0.9)
<b>Last partner:</b>	One-off	128 (12.5)	19 (27.1)	7 (17.5)	81 (18.4)	24 (35.8)	36 (30.8)
	Regular	891 (87.4)	51 (72.9)	33 (82.5)	360 (81.6)	43 (64.2)	81 (69.2)
<b>Sex when too drunk or high to remember in last 3 months</b>	No	861 (84.8)	50 (74.6)	32 (80.0)	353 (81.1)	40 (62.5)	88 (77.9)
	Yes	154 (15.2)	17 (25.4)	8 (20.0)	82 (18.9)	24 (37.5)	25 (22.1)
<b>Regretted sex in last 3/12</b>	No	690 (67.7)	28 (40.0)	32 (80.0)	308 (69.8)	27 (40.3)	58 (49.6)
	Yes	329 (32.3)	42 (60.0)	8 (20.0)	133 (30.2)	40 (59.7)	59 (50.4)
<b>Safer sex communication self-efficacy</b>	Mean score/4 (interquartile range)	3.4 (3.0 to 3.8)	3.2 (2.8 to 3.6)	3.2 (2.9 to 3.7)	3.2 (2.8 to 3.6)	3.0 (2.5 to 3.4)	3.3 (2.8 to 3.6)
<b>Sexual pleasure communication self-efficacy</b>	Mean score/4 (interquartile range)	3.2 (2.8 to 3.6)	3.2 (2.8 to 3.6)	3.6 (3.2 to 3.9)	3.2 (2.8 to 3.6)	3.2 (2.8 to 3.4)	3.3 (2.8 to 3.6)
<b>Condom use self-efficacy</b>	Mean score/4 (interquartile range)	3.5 (3.0 to 4.0)	3.0 (2.5 to 3.5)	3.5 (3.0 to 4.0)	3.5 (3.0 to 4.0)	3.5 (2.5 to 4.0)	3.5 (3.0 to 3.5)
<b>Episodes of vaginal sex without condoms in the last 3 months</b>	0	202 (20.0)	15 (21.4)	11 (84.6)	96 (22.0)	22 (32.8)	N/A
	≥1	810 (80.0)	55 (78.6)	2 (15.4)	341 (78.0)	45 (67.2)	

### Partner abuse amongst young people

<b>Episodes of anal sex without condoms in the last 3 months</b>	0	672 (80.4)	38 (69.1)	13 (92.9)	313 (83.0)	42 (67.7)	42 (36.2)
	≥1	164 (19.6)	17 (39.9)	1 (7.1)	64 (17.0)	20 (32.3)	74 (63.8)
<b>Any use of sexual health services in last 3 months</b>	No	221 (21.7)	16 (22.9)	23 (57.5)	214 (48.5)	26 (38.8)	45 (38.5)
	Yes	798 (78.3)	54 (77.1)	17 (42.5)	227 (51.5)	41 (61.2)	72 (61.5)
<b>Any STI in last 3/12</b>	No	893 (87.6)	56 (80)	40 (100.0)	404 (91.6)	53 (79.1)	100 (85.5)
	Yes	126 (12.4)	14 (20)	0	37 (8.4)	14 (20.9)	17 (14.5)
<b>Using any contraception (including condoms)</b>	No	272 (26.7)	33 (47.1)	38 (95.0)	122 (27.7)	32 (47.8)	N/A
	Yes	747 (73.3)	37 (52.9)	2 (5.0)	319 (72.3)	35 (52.2)	
<b>1.Lacked interest in sex</b>	No	669 (65.7)	46 (65.7)	27 (77.5)	332 (75.3)	45 (67.1)	75 (64.1)
	Yes	343 (33.7)	23 (32.9)	13 (32.5)	108 (24.5)	20 (29.9)	42 (35.9)
	N/A	7 (0.7)	1 (1.4)		1 (0.2)	2 (3.0)	
<b>2. Lacked enjoyment in sex</b>	No	681 (66.8)	39 (55.7)	31 (77.5)	336 (76.2)	43 (64.2)	82 (70.0)
	Yes	328 (32.2)	30 (42.9)	9 (22.5)	100 (22.7)	20 (29.9)	33 (28.2)
	N/A	10 (1.0)	1 (1.4)		5 (1.1)	4 (6.0)	2 (3.4)
<b>3. Felt anxious during sex</b>	No	725 (71.1)	41 (58.6)	28 (70.0)	288 (65.3)	44 (65.7)	72 (61.5)
	Yes	287 (28.2)	29 (41.4)	12 (30.0)	146 (33.1)	21 (31.3)	41 (35.0)
	N/A	7 (0.7)			7 (1.6)	2 (3.0)	4 (3.4)
<b>4. Felt physical pain as a result of sex</b>	No	598 (58.7)	34 (48.6)	29 (72.5)	345 (78.2)	52 (77.6)	81 (69.2)
	Yes	416 (40.8)	35 (50.0)	11 (27.5)	93 (21.0)	13 (19.4)	35 (29.9)
	N/A	5 (0.5)	1 (1.4)		3 (0.7)	2 (3.0)	1 (0.9)
<b>5. Felt no excitement or arousal</b>	No	754 (74.0)	43 (61.4)	34 (85.0)	357 (80.9)	49 (73.1)	87 (74.4)
	Yes	257 (25.2)	25 (35.7)	6 (15.0)	79 (17.9)	16 (23.9)	29 (24.8)
	N/A	8 (0.8)	2 (2.9)		5 (1.1)	2 (3.0)	1 (0.9)
<b>6. Difficulty coming to a climax/orgasm</b>	No	278 (27.6)	24 (35.3)	18 (45.0)	204 (46.5)	34 (52.3)	50 (43.9)
	Yes	730 (72.4)	44 (64.7)	22 (55.0)	235 (53.5)	31 (47.7)	64 (56.1)
	N/A	0					
<b>7. Orgasm too quickly</b>	No	851 (85.4)	51 (77.3)	28 (71.8)	204 (46.7)	26 (39.4)	74 (64.9)
	Yes	146 (14.6)	15 (22.7)	11 (28.2)	233 (53.3)	40 (60.6)	40 (35.1)
	N/A						
<b>8. Trouble with a dry vagina</b>	No	707 (69.4)	40 (57.1)	36 (90.0)	N/A	N/A	N/A
	Yes	309 (30.3)	29 (41.4)	4 (10.0)			
	N/A	3 (0.3)	1 (1.4)				
<b>9. Trouble getting or keeping an erection</b>	No	N/A	N/A	N/A	289 (65.5)	44 (65.7)	88 (75.2)
	Yes				144 (32.7)	22 (32.8)	26 (22.2)
	N/A				8 (1.8)	1 (1.5)	3 (2.6)

### Partner abuse amongst young people

<b>Number of male partners in last 3 months</b>	1	746 (73.2)	30 (42.9)			35 (52.2)	48 (41.0)
	2	141 (13.8)	14 (20.0)			13 (19.4)	24 (20.5)
	3	62 (6.1)	8 (11.4)	N/A	N/A	4 (6.0)	17 (14.5)
	≥4	70 (6.9)	18 (25.7)			15 (22.4)	28 (2.9)
<b>Number of female partners in last 3 months</b>	1		53 (75.7)	30 (75.0)	286 (64.9)	40 (59.7)	
	2		7 (10)	8 (20.0)	76 (17.2)	7 (10.4)	
	3	N/A	3 (4.3)	1 (2.5)	38 (8.6)	6 (9.0)	N/A
	≥4		5 (10.0)	1 (2.5)	41 (9.4)	14 (21.0)	
<b>Satisfied with relationship/s</b>	No	242 (23.7)	27 (38.6)	6 (15.0)	101 (22.9)	24 (35.7)	48 (41.0)
	Yes (agree or strongly agree)	768 (75.4)	42 (60.0)	33 (82.5)	336 (76.2)	43 (64.2)	66 (56.4)
	N/A	9 (0.9)	1 (1.4)	1 (2.5)	4 (0.9)		3 (2.6)
<b>Satisfied with sex life</b>	No	341 (33.5)	29 (41.4)				
	Yes (agree or strongly agree)	677 (66.4)	40 (57.1)	10 (25.0)	153 (34.7)	28 (41.7)	61 (52.1)
	N/A	1 (0.1)	1 (1.4)	30 (75.0)	288 (65.3)	39 (58.2)	56 (47.9)
<b>Distressed or worried about sex life</b>	Yes (agree or strongly agree)	172 (16.9)	26 (37.1)	8 (20.0)	90 (20.4)	25 (37.3)	23 (19.7)
	No	844 (82.8)	43 (61.4)	31 (77.5)	350 (79.4)	40 (59.7)	93 (79.6)
	N/A	3 (0.3)	1 (1.4)	1 (2.5)	1 (0.2)	2 (3.0)	
<b>Ever talked about sex they liked?</b>	No	125 (12.3)	8 (11.4)		53 (12.0)		21 (18.8)
	Yes	885 (86.9)	61 (87.1)	4 (10.0)	387 (87.8)	12 (17.9)	96 (80.3)
	N/A	9 (0.9)	1 (1.4)	36 (90.0)	1 (0.2)	54 (80.6)	1 (0.9)
<b>Ever talked about sex their partner liked?</b>	No	127 (12.5)	9 (12.9)		63 (14.3)		22 (18.8)
	Yes	881 (86.5)	60 (85.7)	4 (10.0)	376 (85.3)	12 (17.9)	94 (80.3)
	N/A	11 (1.1)	1 (1.4)	36 (90.0)		54 (80.6)	
<b>Emotional pleasure at last sex</b>	Mean score/2 (interquartile range)	2 (1.67 to 2)	1.67 (1 to 2)	2 (1.67 to 2)	2 (1.33 to 2)	1.5 (1.0 to 2.0)	1.7 (1.3 to 2.0)
<b>Physical pleasure at last sex</b>	No	297 (29.2)	24 (34.8)	10 (25.0)	111 (25.2)	25 (37.3)	48 (41.4)
	Moderate/a lot	721 (70.8)	45 (65.2)	30 (75.0)	329 (74.8)	42 (62.7)	68 (58.6)
<b>Pregnancy within the last 3 months</b>	No	969 (95.1)	5 (7.1)	32 (80.0)	415 (94.1)	54 (80.6)	
	Yes	38 (3.7)	65 (92.9)	0 (0.0)	10 (2.3)	4 (6.0)	
	Don't know	6 (0.6)	0 (0.0)	1 (2.5)	10 (2.3)	2 (3.0)	N/A
	N/A	6 (0.6)	0 (0.0)	7 (17.5)	6 (1.4)	7 (10.4)	

### Sexunzipped baseline outcome questionnaire

Question	Linked questions (skip patterns)
How did you hear about this research?  Facebook advert Through a friend or relative By email Online (e.g. blog, twitter) From school or college Leaflet or poster Other	
Are you.....  <input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Female to male transgender <input type="radio"/> Male to female transgender <input type="radio"/> Other (please state) .....	
Have you felt sexually attracted .....  <input type="radio"/> Only to females, never to males <input type="radio"/> More often to females, and at least once to a male <input type="radio"/> About equally often to females and to males <input type="radio"/> More often to males, and at least once to a female <input type="radio"/> Only to males, and never to females <input type="radio"/> I have never felt sexually attracted to anyone	
Which of these is true for you at the moment?  <input type="radio"/> a) I am not in a relationship  <input type="radio"/> b) I am currently in a relationship with one person <input type="radio"/> c) I am currently in relationships with more than one person	If a) Have you been in a relationship in the past?  <input type="radio"/> Yes <input type="radio"/> No  If yes, how long ago did your relationship end? <input type="radio"/> Less than a week ago <input type="radio"/> 1 to 4 weeks ago <input type="radio"/> One month to 3 months ago <input type="radio"/> More than 3 months ago
	(If b, c or yes to past relationship) Which best describes your relationship/s?  <input type="radio"/> Sexual relationship/s <input type="radio"/> Non-sexual relationship/s
What gender is your partner (or ex-partner)? (If you have more than one partner, please pick the one you are closest to or have been with the longest)  <input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Female to male transgender <input type="radio"/> Male to female transgender <input type="radio"/> Other (please state) .....	

<p><b>Confidence about sex and relationships</b></p>	
<p>When communicating about sex with a partner, how easy or difficult would it be for you to.....?</p> <ol style="list-style-type: none"> <li>1. Ask if they have ever had a sexually transmitted infection?</li> <li>2. Discuss contraception (birth control) (e.g. the pill)</li> <li>3. Discuss condom use?</li> <li>4. Refuse to have sex if they won't use a condom?</li> <li>5. Make the first move with sex</li> <li>6. Tell them that you like a specific sexual activity?</li> <li>7. Tell them you do not want to have sex?</li> <li>8. Tell them if a certain sexual activity makes you uncomfortable?</li> </ol>	<p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> Very difficult   <input type="radio"/> Difficult  <input type="radio"/> Easy   <input type="radio"/> Very easy   <input type="radio"/> Not applicable </p>
<p>How confident are you that you could.....</p> <ol style="list-style-type: none"> <li>1. Stop to use a condom in the heat of the moment?</li> <li>2. Put a condom on yourself or a partner without losing the erection?</li> <li>3. Suggest sex if you want it?</li> <li>4. Tell or show someone how they can give you sexual pleasure?</li> </ol>	<p> <input type="radio"/> I definitely could   <input type="radio"/> I probably could  <input type="radio"/> I probably could not  <input type="radio"/> I definitely could not   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> I definitely could   <input type="radio"/> I probably could  <input type="radio"/> I probably could not  <input type="radio"/> I definitely could not   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> I definitely could   <input type="radio"/> I probably could  <input type="radio"/> I probably could not  <input type="radio"/> I definitely could not   <input type="radio"/> Not applicable </p> <p> <input type="radio"/> I definitely could   <input type="radio"/> I probably could  <input type="radio"/> I probably could not  <input type="radio"/> I definitely could not   <input type="radio"/> Not applicable </p>
<p>Have you talked about these things with current (or most recent) partner/s? .....</p> <ol style="list-style-type: none"> <li>1. The kind of sex you like</li> <li>2. The kind of sex <b>a partner</b> likes</li> </ol>	<p> <input type="radio"/> Yes   <input type="radio"/> No   <input type="radio"/> Not applicable  <input type="radio"/> Yes   <input type="radio"/> No   <input type="radio"/> Not applicable </p>
<p><b>Sex and relationship problems</b></p>	
<p>In the last 3 months, have you been....</p> <ol style="list-style-type: none"> <li>1. Humiliated or emotionally abused in other ways by a partner or ex-partner?</li> </ol>	<p><input type="radio"/> Yes   <input type="radio"/> No   <input type="radio"/> Not sure</p>

<p>2. Afraid of a partner or ex-partner?</p> <p>3. Forced to have any kind of sexual activity by a partner or ex-partner?</p> <p>4. Kicked, hit, slapped or otherwise physically hurt by a partner or ex-partner?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not sure</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not sure</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not sure</p>
<p>In the last 3 months, <b>has a partner</b>..</p> <p>1. Told you who you could see and where you could go</p> <p>2. Pressurised you into any form of sexual activity?</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not sure</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not sure</p>
<p>In the last 3 months, have any of these been a problem for you?</p> <p>1. Lacked interest in having sex</p> <p>2. Lacked enjoyment in sex</p> <p>3. Felt anxious during sex</p> <p>4. Felt physical pain as a results of sex</p> <p>5. Felt no excitement or arousal during sex</p> <p>6. Did not come to a climax (experience an orgasm)</p> <p>7. Came to a climax (experienced an orgasm) more quickly than you would like</p> <p>8. (Women only) had trouble with an uncomfortably dry vagina</p> <p>9. (Men only) had trouble getting or keeping an erection</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p>
<p>(If yes to any of these)</p> <p>Have you avoided sex because of this?</p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable</p>	
<p>In the last 3 months, how many times have you had sex you regretted?</p> <p>None</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10 or more</p>	

<b>Satisfaction</b>	
Thinking about the past 3 months, how much do you agree or disagree with the following statements?	
I feel satisfied with my relationship/s	<input type="radio"/> Strongly agree <input type="radio"/> Agree
I feel satisfied with my sex life	<input type="radio"/> Neither agree nor disagree <input type="radio"/> Disagree
I feel distressed or worried about my sex life	<input type="radio"/> Strongly disagree <input type="radio"/> Not applicable

<b>The last time you had sex</b>	
When was the last time you had sex with someone (if ever)?	
<input type="radio"/> Less than a week ago	
<input type="radio"/> More than a week but less than a month ago	
<input type="radio"/> 1-3 months ago	
<input type="radio"/> More than 3 months ago	
<input type="radio"/> Never	
What gender was the last person you had sex with?	
<input type="radio"/> Male	
<input type="radio"/> Female	
<input type="radio"/> Transgender (male to female)	
<input type="radio"/> Transgender (female to male)	
<input type="radio"/> Other (please state) .....	
Was the last person you had sex with...	If b, how long have you been having sex with this person?
<input type="radio"/> a. Somebody you've had sex with only once	<input type="radio"/> Less than one week
<input type="radio"/> b. Somebody you've had sex with more than once	<input type="radio"/> 1 week to 4 weeks
	<input type="radio"/> 1 month to 6 months
	<input type="radio"/> 7 months to 1 year
	<input type="radio"/> More than 1 year
The last time you had sex.....	
1. How safe and comfortable did you feel?	<input type="radio"/> Not at all <input type="radio"/> Moderately <input type="radio"/> Very safe and comfortable <input type="radio"/> Not applicable
2. How much did you enjoy the physical feelings?	<input type="radio"/> Not at all <input type="radio"/> Moderately <input type="radio"/> A lot <input type="radio"/> Not applicable
3. How emotionally close did you feel to the other person?	<input type="radio"/> Not at all <input type="radio"/> Moderately <input type="radio"/> Very close <input type="radio"/> Not applicable
4. How much did you enjoy the pleasure you gave to the other person?	<input type="radio"/> Not at all <input type="radio"/> Moderately <input type="radio"/> A lot <input type="radio"/> Not applicable
The last time you had sex, did you have vaginal sex, where the penis entered the vagina?	(If yes) Was a condom used?
<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know <input type="radio"/> Not applicable
	(If yes):
	Was the condom used from start to finish of sex?
	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know <input type="radio"/> Not applicable

	<p>Did the condom split or fall off?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Don't know    <input type="radio"/> Not applicable</p>
<p>The last time you had sex, did you have anal sex, where the penis entered the anus?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Not applicable</p>	<p>(If yes):</p> <p>Was a condom used?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Don't know    <input type="radio"/> Not applicable</p>
	<p>(If yes): Was the condom used from start to finish of sex?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Don't know    <input type="radio"/> Not applicable</p>
	<p>Did the condom split or fall off?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Don't know    <input type="radio"/> Not applicable</p>
<p>The last time you had sex, did you or your partner use any form of contraception (birth control)?</p> <p><input type="radio"/> a. None for me, don't know about partner  <input type="radio"/> b. None for either of us  <input type="radio"/> c. Yes (skip to list)  <input type="radio"/> d. Not applicable</p>	<p>(If c, yes) Please tick all contraceptives (birth control) that you used the last time you had sex:</p> <p><input type="radio"/> The Pill, contraceptive patch, or contraceptive vaginal ring  <input type="radio"/> Condoms (including female condoms)  <input type="radio"/> Emergency contraceptive pill (morning after pill)  <input type="radio"/> Injection  <input type="radio"/> Contraceptive implant  <input type="radio"/> Withdrawal  <input type="radio"/> Intrauterine device (coil/IUD/IUS)  <input type="radio"/> Diaphragm or cap or spermicide  <input type="radio"/> Natural family planning (safe period/rhythm method)  <input type="radio"/> Don't know name of the contraception  <input type="radio"/> Other (please state).....</p>
<p>Are you or a partner trying to get pregnant at the moment?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Not applicable</p>	
<p>Have you or a female partner been pregnant in the last 3 months?</p> <p><input type="radio"/> Yes    <input type="radio"/> No  <input type="radio"/> Don't know    <input type="radio"/> Not applicable</p>	
<p>(If yes) What happened with the pregnancy?</p> <p><input type="radio"/> Still pregnant  <input type="radio"/> Miscarriage or stillbirth  <input type="radio"/> An abortion  <input type="radio"/> A baby</p>	

<b>More about sex</b>	
<p>In the last 3 months, how many male partners have you had sex with?</p> <p>0</p>	



1 2 3 4 5 6 7 8 9 10 or more	
In the last 3 months, how many female partners have you had sex with? 0 1 2 3 4 5 6 7 8 9 10 or more	
How many times in the last 3 months have you had vaginal sex without a condom?  <input type="radio"/> None <input type="radio"/> Once <input type="radio"/> Twice <input type="radio"/> 3 times <input type="radio"/> 4 times <input type="radio"/> 5 times <input type="radio"/> 6 times or more <input type="radio"/> Not applicable	
How many times in the last 3 months have you had anal sex without a condom?  <input type="radio"/> None <input type="radio"/> Once <input type="radio"/> Twice <input type="radio"/> 3 times <input type="radio"/> 4 times <input type="radio"/> 5 times <input type="radio"/> 6 times or more <input type="radio"/> Not applicable	
Which sexual health services have you used in the last 3 months (tick all that apply)  <input type="radio"/> None <input type="radio"/> Condom pick-up <input type="radio"/> Contraception/birth control <input type="radio"/> Emergency contraceptive pills <input type="radio"/> Pregnancy test <input type="radio"/> Discussion of abortion choices <input type="radio"/> Check-up for sexually transmitted infections (e.g. Chlamydia, Gonorrhoea)	

<ul style="list-style-type: none"> <li><input type="radio"/> Blood tests for sexually transmitted infections (e.g. <input type="radio"/> HIV, syphilis or Hepatitis)</li> <li><input type="radio"/> Relationship counselling</li> <li><input type="radio"/> Sexual assault/abuse counselling</li> <li><input type="radio"/> Other sexual health services</li> </ul>	
<p>Adding up these visits, how many times did you use a sexual health service in the last 3 months?</p> <p>1 2 3 4 5 6 7 8 9 10 or more</p>	
<p>Have you had Chlamydia in the last 3 months?</p> <p><input type="radio"/> Yes   <input type="radio"/> No   <input type="radio"/> Don't know</p>	
<p>Have you had antibiotic treatment for Chlamydia in the last 3 months?</p> <p><input type="radio"/> Yes   <input type="radio"/> No   <input type="radio"/> Don't know</p>	
<p>In the last 3 months, have you had any of the following (tick all that apply)?</p> <ul style="list-style-type: none"> <li><input type="radio"/> None</li> <li><input type="radio"/> Warts</li> <li><input type="radio"/> Herpes</li> <li><input type="radio"/> Gonorrhoea</li> <li><input type="radio"/> Pubic lice</li> <li><input type="radio"/> Trichomonas (TV)</li> <li><input type="radio"/> Syphilis</li> <li><input type="radio"/> HIV</li> <li><input type="radio"/> Hepatitis</li> <li><input type="radio"/> (WOMEN ONLY) Pelvic infection (PID)</li> <li><input type="radio"/> (WOMEN ONLY) Vaginal thrush (Candida, Yeast infection)</li> <li><input type="radio"/> Can't remember the name</li> <li><input type="radio"/> Other (please write in name)</li> </ul> <p>.....</p>	
<p>In the last 3 months, how many times have you been too drunk or high to remember whether you had sex?</p> <ul style="list-style-type: none"> <li><input type="radio"/> Never</li> <li><input type="radio"/> Once</li> <li><input type="radio"/> Twice</li> <li><input type="radio"/> 3 times</li> <li><input type="radio"/> 4 times</li> <li><input type="radio"/> 5 times</li> <li><input type="radio"/> 6 or more times</li> </ul>	
<p>How do you rate these sexual activities?</p> <ol style="list-style-type: none"> <li>1. Sex by phone or online</li> <li>2. Touching with clothes on</li> <li>3. Touching with clothes off</li> <li>4. Masturbating myself</li> </ol>	<ul style="list-style-type: none"> <li><input type="radio"/> Would like to try   <input type="radio"/> Would <b>not</b> like to try</li> <li><input type="radio"/> Tried and would <b>not</b> do again</li> <li><input type="radio"/> Tried and would do again</li> </ul>

<ul style="list-style-type: none"> <li>5. Masturbating someone else</li> <li>6. Being masturbated by someone else</li> <li>7. Giving someone oral sex</li> <li>8. Oral sex done to me</li> </ul>	
<ul style="list-style-type: none"> <li>1. Vaginal sex (penis-vagina)</li> <li>2. Vaginal sex (with fingers or hand)</li> <li>3. Vaginal sex (with sex toys)</li> <li>4. Anal sex (rimming)</li> <li>5. Anal sex (being rimmed)</li> <li>6. Anal sex (penis-anus)</li> <li>7. Anal sex (with sex toys)</li> </ul>	<ul style="list-style-type: none"> <li><input type="radio"/> Would like to try   <input type="radio"/> Would <b>not</b> like to try</li> <li><input type="radio"/> Tried and would <b>not</b> do again</li> <li><input type="radio"/> Tried and would do again</li> </ul>

<b>In the future</b>	
In the near future, do you think you will.....	
<ul style="list-style-type: none"> <li>1. Use a condom if you have vaginal sex with a new partner?</li> <li>2. Use a condom if you have anal sex with a new partner?</li> <li>3. Have tests for sexually transmitted infections if you have a new partner?</li> <li>4. Make sure that new partner/s have tests for sexually transmitted infections?</li> <li>5. Make sure that you (or a partner) are using contraception (e.g. The pill)?</li> <li>6. Discuss sexual enjoyment with partner(s)?</li> </ul>	<ul style="list-style-type: none"> <li><input type="radio"/> Definitely not   <input type="radio"/> Probably not   <input type="radio"/> Maybe- maybe not   <input type="radio"/> Probably   <input type="radio"/> Definitely   <input type="radio"/> Not applicable</li> <li><input type="radio"/> Definitely not   <input type="radio"/> Probably not   <input type="radio"/> Maybe- maybe not   <input type="radio"/> Probably   <input type="radio"/> Definitely   <input type="radio"/> Not applicable</li> <li><input type="radio"/> Definitely not   <input type="radio"/> Probably not   <input type="radio"/> Maybe- maybe not   <input type="radio"/> Probably   <input type="radio"/> Definitely   <input type="radio"/> Not applicable</li> <li><input type="radio"/> Definitely not   <input type="radio"/> Probably not   <input type="radio"/> Maybe- maybe not   <input type="radio"/> Probably   <input type="radio"/> Definitely   <input type="radio"/> Not applicable</li> <li><input type="radio"/> Definitely not   <input type="radio"/> Probably not   <input type="radio"/> Maybe- maybe not   <input type="radio"/> Probably   <input type="radio"/> Definitely   <input type="radio"/> Not applicable</li> <li><input type="radio"/> Definitely not   <input type="radio"/> Probably not   <input type="radio"/> Maybe- maybe not   <input type="radio"/> Probably   <input type="radio"/> Definitely   <input type="radio"/> Not applicable</li> </ul>

<b>True or false?</b>	
1. Whether or not I get a sexually transmitted infection is just luck.	<ul style="list-style-type: none"> <li><input type="radio"/> True</li> <li><input type="radio"/> False</li> <li><input type="radio"/> Unsure of answer</li> </ul>
2. I would definitely know if I had Chlamydia, without needing a test	<ul style="list-style-type: none"> <li><input type="radio"/> True</li> <li><input type="radio"/> False</li> <li><input type="radio"/> Unsure of answer</li> </ul>
3. You can easily tell who is likely to have Chlamydia	<ul style="list-style-type: none"> <li><input type="radio"/> True</li> <li><input type="radio"/> False</li> <li><input type="radio"/> Unsure of answer</li> </ul>
True or false?	
<ul style="list-style-type: none"> <li>1. Baby oil or Vaseline is a good lubricant to use on a condom</li> <li>2. With a condom on, the man should wait until the penis is soft before withdrawing</li> </ul>	<ul style="list-style-type: none"> <li><input type="radio"/> True   <input type="radio"/> False   <input type="radio"/> Don't know</li> <li><input type="radio"/> True   <input type="radio"/> False   <input type="radio"/> Don't know</li> </ul>

after sex	
True or false?	
1. A woman's clitoris is right inside the vagina	<input type="radio"/> True <input type="radio"/> False <input type="radio"/> Don't know
2. Washing the vagina after penetrative sex (penis-vagina) will help to prevent pregnancy	<input type="radio"/> True <input type="radio"/> False <input type="radio"/> Don't know
Imagine that a 17 year old girl has had sex with her boyfriend about 10 times without condoms or contraception and didn't get pregnant	
• This probably means she can't get pregnant	<input type="radio"/> True <input type="radio"/> False <input type="radio"/> Don't know
• This probably means that he can't get her pregnant	<input type="radio"/> True <input type="radio"/> False <input type="radio"/> Don't know

<b>Time to confess</b>	
For this research to be accurate, we need to be sure that only young people have completed the survey.  Are you really between 16 and 20 years old?  <input type="radio"/> Yes <input type="radio"/> No	If no:  'Thank you for your interest in our survey, if you would like to know more about the research, please contact XXX, xxx@ucl.ac.uk'
<b>About you</b>  These questions are to make sure that we've reached a mix of different young people in this survey.	
What is your date of birth?  .....(Day).....(Month) .....(Year)	
Are you..  <input type="radio"/> At school <input type="radio"/> At sixth form college <input type="radio"/> At college or university <input type="radio"/> In training <input type="radio"/> Working <input type="radio"/> Unemployed <input type="radio"/> Long-term sick or disabled <input type="radio"/> Other (please state) .....	
(If you can choose more than one, please choose the option that best describes you)	
What is your cultural background?  <input type="radio"/> White British <input type="radio"/> White Irish <input type="radio"/> Other White <input type="radio"/> Black British <input type="radio"/> Black Caribbean <input type="radio"/> Black African	

<ul style="list-style-type: none"> <li><input type="radio"/> Other Black</li> <li><input type="radio"/> Asian British</li> <li><input type="radio"/> Indian</li> <li><input type="radio"/> Pakistani</li> <li><input type="radio"/> Bangladeshi</li> <li><input type="radio"/> Chinese</li> <li><input type="radio"/> Other Asian</li> <li><input type="radio"/> Mixed cultural background</li> <li><input type="radio"/> Other cultural background</li> <li><input type="radio"/> Prefer not to say</li> </ul> <p>If other please state</p> <p>.....</p>	
<p>Who do you live with most of the time? (tick all that apply):</p> <ul style="list-style-type: none"> <li><input type="radio"/> a. With parents or step parents</li> <li><input type="radio"/> b. With other relatives</li> <li><input type="radio"/> c. With friends</li> <li><input type="radio"/> d. With partner</li> <li><input type="radio"/> d. On your own</li> <li><input type="radio"/> e. In care or foster care</li> <li><input type="radio"/> g. With your children (or partner's children)</li> </ul>	
<p>Thinking about the people that you live with, are they... (tick all that apply):</p> <ul style="list-style-type: none"> <li><input type="radio"/> At school, college or university</li> <li><input type="radio"/> In training</li> <li><input type="radio"/> Working</li> <li><input type="radio"/> Unemployed</li> <li><input type="radio"/> Long-term sick or disabled</li> <li><input type="radio"/> Not applicable</li> <li><input type="radio"/> Other (please state)</li> </ul> <p>.....</p>	

**Is there anything else that you'd like to add?**

Any comments about the answers that you gave, or about this online survey?

**Thank you for your help!**