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4 Abstract: Background: Preliminary evidence indicates that acute and chronic psychological 5 stress affect sexual arousal and satisfaction. African American women, in particular, are 6 vulnerable to the impacts of gender- and race-related stress, given their socially constructed 7 identities as African Americans and as women. Aim: We examined associations between 8 minority stress and sexual function using data from 248 African American women. Methods: 9 Surveys were conducted with 248 African American women in South LA with male partners at 10 risk for acquiring HIV. We analyzed self-reports on 1) stress indicators: chronic burden, 11 perceived racism/sexism, and histories of trauma/sexual abuse; 2) Female Sexual Function Index 12 domains: desire, arousal, and satisfaction; and 3) potential moderators: social support and 13 spirituality. We used multiple regression, adjusting for potential confounding factors, to examine 14 the relationships between stress indictors, potential moderators, and sexual function domains. 15 Outcomes: The outcomes were the female sexual function index domains of desire, arousal, and 16 satisfaction. Results: This largely low-income sample experienced significant chronic and acute 17 stressors, was highly spiritual, and reported strong social support. Moderate-high chronic burden 18 and increasing sexism scores were independently associated with decreased arousal (B=-0.38, 19 95%CI=-0.75, -0.02) and satisfaction (B=-0.03, 95%CI=-0.06, 0.00) scores, respectively. 20 Clinical implications: Providers may want to explore chronic burden in patients who complain 21 about low sexual arousal. Additionally, to develop effective HIV- and other STI-related 22 interventions that impact behaviors that can confer sexual risk, prevention strategies are needed 23 that either reduce contextual stressors or mitigate their impact. Strengths and Limitations:

- 24 Strengths of this research are that it focuses on sexual function among previously under-studied,
- 25 low-income African American women and that it takes into account the unique set of stressors
- 26 faced by these women. A limitation is that the sample size may have been too small to capture
- 27 the effects of potential moderators. Conclusions: Low income African American women
- 28 accumulate life stressors that may harm sexual function.
- 29
- 30

31 Introduction

32 Sexual health is increasingly recognized as an important aspect of general wellbeing. Positive 33 sexual health and sexual satisfaction, especially among women, have been shown to be 34 protective factors against risky sexual behaviors such as non-condom use and casual sex ¹⁻³. The 35 biopsychosocial approach to female sexual functioning recognizes that biological, psychological, 36 interpersonal, and sociocultural factors can all affect female sexual functioning, and that they interact with one another in a dynamic system over time ^{4,5}. Hence, consideration of female 37 38 sexual functioning has the potential to complement traditional disease control and prevention 39 efforts related to HIV/AIDS and other sexually transmitted infections (STIs), as well as to 40 address social/emotional issues such as intimate partner violence and mental health.

The biopsychosocial approach identifies perceived stress as one of the factors that contributes to poor sexual functioning and satisfaction, together with potentially overlapping factors of hormonal imbalance, chronic diseases, anxiety, depression, incompatibility of couples, and sexual function disorder in partners ⁶. However, limited research has been conducted on the effects of stress on female sexual functioning, with preliminary evidence indicating that acute and chronic psychological stress affect sexual arousal and satisfaction ⁷⁻⁹.

47 Stress, or the physiological demand placed on the body when one must adapt, cope, or 48 adjust to major life events, dangerous situations, and personal challenges, helps to keep the body 49 alert and the brain focused. However, prolonged exposure to stress can disrupt the body's 50 processes through over-activity of the autonomic nervous system in association with oxidative 51 imbalance, thus increasing the risk of numerous health problems such as cardiovascular disease 52 ^{10, 11}. Chronic stressors, particularly among racial and ethnic minorities, can be a result of 53 inequalities in employment, income, and educational opportunities as well as experiences of discrimination ^{12, 13}. African American women, in particular, are vulnerable to the impacts of
gender- and race-related stress, given their socially constructed identities as African Americans
and as women ^{14, 15}. A number of investigations demonstrate that African American women
experience discrimination in employment, health care, and education because of gender- and
race-related biases ^{14, 16, 17}.

59 Additional sexual health stressors that may particularly affect low-income African 60 American women include the characteristics of their sexual partnerships, as the pool of potential 61 partners for Black women is constrained by systemic, social, and cultural forces that limit 62 choices and strain relationships. These factors include high levels of overlapping sexual 63 partnerships or concurrency, the greater frequency of bisexual behavior observed among African 64 American men who have sex with men (MSM) than among MSM of other race/ethnicities, and 65 sometimes disempowering gender dynamics ¹⁸⁻²¹. Collectively, the influences of these 66 experiences on disparities in health outcomes can be measured and conceptualized using the 67 minority stress model. The theoretical model proposes that health disparities among members of 68 stigmatized minority groups can be explained by a number of factors, such as low socioeconomic 69 status, and by stressors induced by a hostile environment that includes interpersonal prejudice 70 and discrimination ²². Minority stress refers to excess stress to which individuals from 71 stigmatized social categories are exposed because of their social, often minority, and position. It 72 has been associated with both negative physical and mental health outcomes ²².

We explore the association of minority stress and sexual function among a sample of
African American women with at-risk sexual partners who participated in an HIV behavioral
intervention study conducted in South Los Angeles – a high poverty urban community that is
impacted by disinvestment, poor employment opportunities and high rates of incarceration ²³.

77 Based on the Diagnostic and Statistical Manual of Mental Disorders 5 definition of sexual 78 dysfunction that informed the development of the scale for sexual function examined here ²⁴, we 79 define female sexual function as the persistent or recurrent ability to attain and maintain 80 sufficient sexual excitement in a manner that supports general well being. It may be expressed as 81 subjective arousal, desire, and satisfaction, including accompaying genital responses. The study 82 explores the impact of minority stressors - chronic burden, racism, sexism, sexual abuse and 83 other traumas – on sexual desire, arousal, and satisfaction. This study group represents a 84 population that experiences unique and intersecting sets of experiences and stressors. Our 85 analysis can improve understanding of the impacts on sexual function, identify potential targets 86 for intervention, and inform sex-positive interventions to address sexual health.

87

88 Methods

89 Study participants and setting

90 Between September 2013 and March 2017, African American women ages 18 and above with 91 male partners were invited to participate in a trial of an HIV/STI prevention intervention, the 92 Females of African American Legacy Empowering Self (FemAALES) Project. Because the 93 primary mode of HIV transmission for women is through heterosexual intercourse, eligibility 94 was limited to women reporting male partners in the prior three months who were at increased 95 risk for HIV. At-risk partners were defined as men who (1) had an unknown sexual history, (2) 96 had sex with other men, (3) had sex with transgender women, (4) had been incarcerated for more 97 than six months, or (5) had used injection drugs, crack cocaine, or methamphetamine. The 98 intervention itself aimed to address sexual risks for HIV and STIs among women whose male

99	partners were at increased risk for HIV. It encouraged HIV testing and condom use and
100	communication with partners about sex and sexual risk, including HIV testing.
101	The FemAALES Project was approved by the CDU/UCLA Institutional Review Board
102	and registered with clinicaltrials.gov (#NCT02189876). All participants provided written
103	informed consent prior to participation. Participants were recruited through direct and passive
104	outreach at health fairs, outdoor shopping centers, and community events. As well as through
105	social medial outreach and direct referrals from two federally qualified health centers that
106	partnered with the study, from community based organizations, and from other study
107	participants. Participants received cash compensation for completing study surveys.
108	
109	Data collection and processing
110	The current study is based on data from the baseline surveys of FemAALES participants. Of the
111	254 enrolled FemAALES participants, 249 confirmed eligibility during the baseline survey and
T T T	234 enrolled remarkles participants, 249 commed englointy during the baseline survey and
112	served as the analysis group. All surveys were administered via an audio-computer assisted self-
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112 113	served as the analysis group. All surveys were administered via an audio-computer assisted self- interview (A-CASI) interface. The first set of sociodemographic questions was asked by the
112 113 114	served as the analysis group. All surveys were administered via an audio-computer assisted self- interview (A-CASI) interface. The first set of sociodemographic questions was asked by the interviewer, who input the responses into ACASI, after which the participants self-entered the
112 113 114 115	served as the analysis group. All surveys were administered via an audio-computer assisted self- interview (A-CASI) interface. The first set of sociodemographic questions was asked by the interviewer, who input the responses into ACASI, after which the participants self-entered the responses to the remaining questions. The survey took a mean of 91 (s.d. = 34) minutes to
112 113 114 115 116	served as the analysis group. All surveys were administered via an audio-computer assisted self- interview (A-CASI) interface. The first set of sociodemographic questions was asked by the interviewer, who input the responses into ACASI, after which the participants self-entered the responses to the remaining questions. The survey took a mean of 91 (s.d. = 34) minutes to complete. It covered a wide range of socio-demographic, attitudinal, knowledge, substance use
112 113 114 115 116 117	served as the analysis group. All surveys were administered via an audio-computer assisted self- interview (A-CASI) interface. The first set of sociodemographic questions was asked by the interviewer, who input the responses into ACASI, after which the participants self-entered the responses to the remaining questions. The survey took a mean of 91 (s.d. = 34) minutes to complete. It covered a wide range of socio-demographic, attitudinal, knowledge, substance use and sexual behavior factors, as well as information on respondents' prior and current experiences

121 Sexual function was assessed using questions from the Female Sexual Function Index 122 (FSFI), a self-reported set of measures that assesses the level of functioning in the past four 123 weeks using 5-point Likert scores (1-low; 5-high), with some items including 0 to indicate no 124 sexual activity. We focused on the three subjective domains from the 5-domain FSFI that were 125 included in the survey: 1) sexual arousal, 2) sexual satisfaction, and 3) sexual desire, as they 126 were relevant to the intervention, which highlighted strategies for achieving sexual pleasure in 127 the context of sexual health. The items in each domain are summed and then multiplied by a 128 domain factor ratio to improve comparability across domains ²⁴. Possible arousal scores range 129 from 0 to 6, and satisfaction scores range from 0.8 to 6. The domain scores for arousal and 130 satisfaction showed high internal reliability (Cronbach's alpha: sexual arousal = 0.87, 131 satisfaction = 0.86). We asked only one of the two questions from the desire domain, "Over the 132 past 4 weeks, how often did you feel sexual desire or interest," so this item was analyzed based 133 on its original Likert score, with a possible range of 1-5, and referred to as desire frequency. 134 Chronic burden was assessed using the 21-item Chronic Burden Scale that measures 135 difficulties experienced in the past month from a number of stressors including insufficient 136 money to meet basic needs, insufficient savings, being laid off from work, being a victim of a 137 crime, and immigration and housing problems ²⁵. Each question had four possible responses: (1) 138 Not a problem for me in the past month, (2) A little bit of a problem for me in the past month, (3) 139 Somewhat of a problem for me in the past month, and (4) A major problem for me in the past 140 month. Scores were dichotomized to low and moderate-to-high chronic burden based on the 141 existing literature related to chronic burden among African American women at increased risk 142 for HIV²⁵. Possible scores range from 21 to 84. Given that we could not locate established 143 cutoffs for this scale, we calculated tertiles and used the minimum of the middle tertile (29) as a

144 cutoff score to classify participants with moderate-to-high chronic burden. Cronbach's alpha145 showed high reliability (0.89) for the sample.

146 Psychological distress was measured using the Brief Symptom Inventory (BSI-18), which 147 consists of 18 descriptions of physical and emotional complaints, with 6 items each for 148 somatization, depression and anxiety dimensions ²⁶. Participants were asked to indicate on a scale 149 from 0 (not at all) to 4 (extremely) to what extent they were troubled by the complaints. Scores 150 for the present sample had an internal reliability of 0.95. The summed score, known as the 151 Global Severity Index (GSI), represents the respondent's overall level of psychological distress. 152 GSI scores were converted to t-scores using gender-specific norms, as suggested in the published 153 manuals. A GSI total score \geq 50 was categorized as having significant psychological distress, 154 based on the optimal cutoff score determined in a study among adult survivors of childhood 155 cancer²⁷.

Child and adult sexual abuse were assessed with six screening items from the Wyatt
Sexual History Questionnaire – Revised (WSHQ-R) structured interview ²⁸. Four questions
centered on childhood sexual abuse including fondling, oral sex, attempted and completed
intercourse, and two questions on attempted and completed non-consensual sexual abuse in
adulthood. A positive response from any of the questions classified the participant as having
experienced child and/or adult abuse, as appropriate.

Lifetime history of exposure to traumatic events was reported using a modified version of the Traumatic History Questionnaire ²⁹. It is an inventory of potentially traumatic events based on the DSM-IV criterion for post-traumatic and acute stress disorders and the range of experiences were divided into 2 categories: 4 questions about crime-related events and 12 questions related to general disaster and trauma. Participants were asked to indicate whether they ever experienced a specific event. Endorsed items were summed for total scores that range from
0 to 16, and participants were classified as having 'low trauma' if they reported no traumatic
events or only one kind of traumatic event, whereas participants were classified as 'high trauma'
if they reported experiencing two or more kinds of traumatic events ³⁰. It was not possible to
distinguish individuals who had experienced a specific type of traumatic event (e.g., physical
assault) once from those who had experienced that type on multiple occasions.

173 Racism-related experiences were measured using the Racism and Life Experience Scale – 174 Brief version, a general overview measure of racism-related experiences and stress that includes 175 9 questions that assess direct, vicarious, and collective experiences of racism, as well as 176 perceived stress associated with racism ³¹. Seven questions assess the extent of influence of 177 racism in different areas of the participant's life using a 5-point Likert scale ranging from 0 to 4, 178 and two questions assess for frequency of racism-related incidents in the prior year and over 179 one's lifetime, also on a scale ranging from 0 to 4. A summed summary score represents the 180 degree of perceived racism experienced; possible scores range from 0 to 36 with an internal 181 reliability of 0.86 in this sample.

The Modified Schedule of Sexist Events (SSE-LM) was used to assess experiences of sexism ³². This modified scale has previously been shown to be correlated with women's sexual risk behaviors ³². The modified scale was composed of thirteen items that measure lifetime experiences of sexism (e.g., "As a woman, have often have people made inappropriate or unwanted sexual advances at you?"). Each sexism scale item had four response options (0 = never; 1 = rarely; 2 = sometimes; and 3 = often). Responses were summed to create a sexism scale (Cronbach's alpha =0.91), with possible scores ranging from 0 to 39. 189 Social support was assessed using the Multidimensional Scale of Perceived Social 190 Support (MSPSS), a self-report measure of perceived support from 3 sources: family, friends and 191 a significant other ³³. The scale is comprised of five questions each for the family and friends 192 subscales and four questions for the significant other subscale, with a total of 14 items. It was 193 measured in a 6-point Likert-type response format (strongly disagree, disagree, mildly disagree, 194 mildly agree, agree, strongly agree). The mean total scores were computed, and any mean total 195 scale score between 1 and 2.5 was considered low support; a score of 2.6 to 4.5 was classified as 196 moderate support; and a score from 4.6 to 6 was considered high support. These cutoffs were 197 chosen to roughly reflect the valance of the scale descriptions, that is disagreement, neutral, and 198 agreement with the statements about support, using a strategy consistent with that suggested by 199 Zimet³⁴. The scale had a high internal reliability (α =0.92) in this sample. 200 Religious beliefs and spirituality were assessed using a modified version of a religiosity

201 scale that has been validated and used among African Americans in previous research ³⁵. Eight of

202 the items were measured in a 4-point Likert-type response format (1= strongly disagree, 2 =

203 disagree, 3 = agree, 4 = strongly agree) and regarded spiritual practices and reliance on God (e.g.

204 I have a personal relationship with God). A summed score of these items was used for analysis,

with possible scores that ranged from 0 to 24 and an internal reliability of 0.90.

206

207 Data analysis

Descriptive analyses of socio-demographic characteristics and study variables were done using median, interquartile ranges and frequency distributions. Univariate regressions were used to assess the relationships between minority stress variables, protective variables, and potential confounders and observed FSFI domain scores for satisfaction and arousal, as well as for desire 212frequency. Minority stress variables included scores for chronic burden, racism, sexism, sexual213abuse, and other (non-sexual) trauma; potentially protective variables included social support and214spiritual beliefs; and potential confounders included age, sexual orientation, and whether the215respondent had at least one main male sexual partner. We then ran a multiple linear regression216for each FSFI outcome, including variables that showed a univariate association at the level of p217< 0.2. For regressions, we used p < 0.05 to determine significance. All analyses were performed</td>218using SAS 9.2.

219

220 Results

221 Demographic and clinical characteristics of participants

Socio-demographic characteristics of the participants are shown in Table 1. The median age was
33 years (IQR 25), with the modal group being between 18 and 29 years. Although nearly three
quarters of the participants had completed high school, a general equivalency diploma (GED), or
higher educational attainment, 63.1% had a monthly income of less than \$1000 and 46.6% were
unemployed. Seventy-seven percent had experienced housing instability and 56.6% had been
incarcerated in their lifetimes.

Most participants self-identified as heterosexual (78.7%), and, per the eligibility criteria,
all reported having oral, vaginal, or anal sex in the prior 90 days with at-risk male partners, with

- **230** 88.0% reporting having at least one main sexual partner during the prior 90 days.
- 231 Descriptive analyses of minority stress variables, protective variables, and potential
- 232 confounders are presented in Table 2. Most of the participants reported moderate-to-high chronic
- burden (66.4%) and significant psychological distress (58.2%). Lifetime history of two or more
- traumatic events was very high among this population, with 84.4% reporting two or more events

235 not related to sexual abuse. Childhood sexual abuse was reported by 65.8%, and non-consensual 236 sexual contact or rape in adulthood was reported by 45.5%. Almost three-quarters of participants 237 reported personally experiencing at least some racism in their lifetime (74.8%), and 65.5% 238 reported being treated unfairly by family or important men in their lives due to being a woman. 239 Stress related to experiences of racism (mean score = 18.7 ± 7.2 out of 36) and sexism (mean 240 score = 17.5 ± 8.9 out of 39) was moderate. It was a highly religious sample (mean score = 20.1 241 \pm 4.4 out of possible 24) with moderate-to-high levels of social support (91.9%). 242 Sexual function domain scores were relatively high, with means $(\pm \text{ s.d.})$ of 4.7 (± 1.1) 243 and 4.6 (\pm 1.4) for the arousal and satisfaction domains, respectively. The mean score (\pm s.d.) for 244 desire frequency was substantially lower: $3.4 (\pm 1.3)$. 245 Sexual arousal was negatively associated with moderate-to-high chronic burden in both 246 the univariate (Table 3; p = 0.008) and multivariable linear regressions analyses (p = 0.041; 247 Table 4). 248 In univariate analyses (Table 3), sexual satisfaction was negatively associated with older 249 age (50+ relative to 18-29; p = 0.048), a history of childhood sexual abuse (p = 0.046), 250 significant psychological distress (p = 0.001), moderate-high chronic burden (p = 0.006), and a 251 high sexism stress score (p < 0.001); it was positively associated with identifying as lesbian, gay, 252 bisexual, or queer (p = 0.016) and having at least one main partner (p < 0.001). In the 253 multivariable analysis (Table 4), satisfaction was negatively associated with a higher sexism 254 stress score (p = 0.022), and positively associated with identifying as lesbian, gay, bisexual, or 255 queer (p = 0.006) and with having at least one main partner (p < 0.001). 256 Desire frequency was not significantly associated with any of the hypothesized minority

257 stress, protective, or confounding variables in either analysis.

258

259 Discussion

260 Study findings affirm that multiple domains of minority stress (e.g., chronic burden, experiences 261 of sexism, racism, and trauma) tend to co-occur in Black/African American women. At least two 262 of these types of chronic stressors appear to have a substantial negative impact on their sexual 263 function, particularly sexual arousal and satisfaction; while acute stressors, including childhood 264 or adult sexual abuse, do not have independent associations with female sexual function in these 265 data. Chronic stress has been linked to several health outcomes including psychological distress 266 and sexual health in previous research ^{8, 11, 36, 37}. The present study expands upon that research by 267 accounting for domains of minority stress among previously under-studied, low-income Black 268 women and examining how each impacts their sexual functioning.

269 The study demonstrated that higher chronic burden was negatively associated with 270 female sexual arousal, and increased experiences of sexism were associated with lower sexual 271 satisfaction. Hamilton and Meston have shown that small cumulative stressors, called daily 272 hassles, have negative effects across multiple health domains, including sexual health, and that 273 daily hassles, rather than major life events, were related to sexual difficulties ⁸. Beyond daily 274 hassles of work, school and social obligations that were commonly measured in previous studies, 275 the present study assessed chronic pressures that are faced disproportionately by women of color 276 because of the ways that structural racism and sexism shape opportunities and because of police/ 277 government surveillance ^{38, 39}. The high chronic burden scores are sobering measures of the 278 struggles that these women encounter frequently, and the findings draw attention to their 279 associated consequences on a core aspect of wellbeing – sexual pleasure. Clinicians and sexual

health professionals should consider the role of psychosocial stressors in sexual wellbeing infemales, especially when treating patient populations with similar sociodemographics.

282 Negative associations of sexual arousal with chronic burden, which includes day-to-day 283 stress associated with economic difficulties, were consistent with preliminary studies conducted 284 by Hamilton and colleagues ^{40, 41} wherein financial stressors were associated with lower scores on 285 all aspects of sexual functioning in women. In addition to economic and employment problems 286 assessed in the chronic burden scale, it also measures stresses related to concerns about crime, 287 housing, immigration, caregiving, and incarceration -- all factors that disproportionately burden 288 women of color. Black women are often caregivers for older relatives, in addition to their 289 children, and at times, their partners ⁴² and often experience involvement with the child welfare 290 system ⁴³. African Americans are incarcerated at nearly six times the rate of their white 291 counterparts and seek refuge in homeless shelters at rates seven times higher than do whites ^{44, 45}. 292 Prior research suggests that experiences of sexism can lead to psychological distress, 293 compromised sexual agency, and condomless sexual intercourse ⁴⁶. Experiences of racism have 294 also been shown to contribute to decreased sexual satisfaction and condom efficacy ⁴⁷. The 295 present study tested associations with three aspects of female sexual functioning (desire, arousal, 296 and satisfaction) and examined several minority stressors, providing a holistic picture of the 297 effects of minority stress on female sexual health. Higher scores on the Modified Schedule of 298 Sexist Events scale, but not the Racism and Life Experiences Scale were negatively associated 299 with sexual satisfaction, providing evidence of the direct impact of sexism-induced stress on 300 health outcomes. Although self-reported experiences of racism were not associated with female 301 sexual function, chronic burden was. Due to the multiple pathways through which systemic

302 racism contributes to chronic burden, these findings suggest an indirect effect of racism on sexual303 function.

304 Regardless of statistical significance, associations between minority stress and sexual 305 desire were largely not observed in this study. Desire differs from the other domains examined in 306 that the question was not based on sexual interaction with a partner. The FSFI as a measure of 307 sexual functioning is primarily used in the diagnosis of sexual dysfunction, and the sexual desire 308 and sexual arousal domains assess for symptoms of hypoactive sexual desire disorder (HSDD) 309 and female sexual arousal disorder (FSAD). Because desire is much more subjective than arousal 310 or satisfaction, the question may not be sensitive enough to detect the differences likely to be 311 found within our non-clinical study population. A recent analysis of a nationally representative 312 sample of Black women measured one aspect of sexual desire -- "sexual wantedness" and found 313 that over 70% reported wanting their last partnered sexual experience "very much" ⁴⁸. 314 We observed a significant negative association between the oldest age group (50^+ years) 315 and satisfaction in univariate analysis, although the association was not significant in the adjusted 316 multivariable analysis. In a study of middle-aged women (40-70), sexual satisfaction was 317 strongly associated with psychological wellbeing ⁴⁹. The lack of a significant association in our 318 multivariable analysis, which adjusted for several aspects of psychological wellbeing, may 319 suggest that reduced psychological wellbeing accounted for the association observed in the 320 univariate analysis. Finally, we note the positive associations of having a main partner and of 321 identifying as other than heterosexual with sexual satisfaction. We suspect that these findings 322 speak to something about relationship dynamics and perhaps participants' level of comfort with 323 their own sexuality. However, our study was not designed to examine these associations, hence 324 further research is warranted.

325 One study limitation was that the sample size might have been insufficient to capture the 326 effects of potential protective factors in the multivariable regression, especially given the high 327 levels of religiosity and moderate-to-high social support in this sample. Because this study took 328 advantage of data obtained through an HIV prevention study, the study population was limited to 329 women with at-risk male partners, and did not capture the full range of experiences of urban, 330 low-income African American women. Furthermore, because the study population was urban 331 and largely low-income, the results may not be generalizable to African American women in the 332 US at large, although it should be noted that even African American women with substantial 333 resources are impacted by some of the same stressors. Despite these limitations, this is one of the 334 first studies that used reliable and established measures to look at associations of FSFI with a 335 multidimensional assessment of a wide range of the daily stressors and traumatic events faced by 336 many minority women.

337

338 Recommendations and Conclusion

Future studies related to stress and sexual functioning in women should involve replication in
other sexual orientation and racial/ethnic minority populations, as well as research on larger,
non-clinical samples of Black women from a broader range of socio-economic statuses, in order
to identify nuances in the interrelationships of these domains.

In the context of designed to reduce HIV and STI risk, the findings challenge scientists to engage prevention strategies that recognize the importance of sexual arousal, desire, and satisfaction on the relationship choices, potential risk behaviors, and attitudes of women⁵⁰. Many have argued that pleasure is a forgotten or under-attended aspect of too many HIV prevention interventions. Given that people engage in sex to, among other things, experience pleasure and relieve stress, rather than for the purpose of avoiding HIV and STIs, attending to the domains of
arousal, satisfaction, and desire has the potential to encourage intervention participation and to
improve prevention-focused dialogue between patients and their providers.

351 The implications of the study, however, extend well beyond disease prevention. 352 Identifying minority stress as a negative predictor of sexual satisfaction expands the narrative of 353 minority disenfranchisement and its impact on health outcomes to other vital aspects of 354 wellbeing. Medical providers may want to explore chronic burden in women who complain 355 about low sexual arousal; and mental health practitioners may want to address both chronic 356 burden and experiences of sexism when counseling with women or couples who complain about 357 low sexual desire and arousal. The latter is important because low sexual arousal and satisfaction 358 may contribute to or worsen relationship problems, particularly if the source of the problem is 359 misunderstood. The collective analysis of these life stressors provided a broad picture of the life 360 experiences of urban, low-income African American women and further evidence of the 361 disproportionate burden that these women face at the intersection of their gender, race, and 362 socio-economic status. Greater inclusion of measures of female sexual function in research on 363 stress will deepen this understanding and may offer directions for supporting sexual activity 364 among this population of women that is that is both healthy and pleasurable.

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485 Table 1. Sociodemographic characteristics of Females of African American Legacy Empowering

Characteristics	n (%)
Age	
18-29	95 (38.1)
30-39	66 (26.5)
40-49	51 (20.5)
50-59	37 (14.9)
Highest Level of Education Completed	
Less than High School	66 (26.5)
GED	19 (7.6)
High school diploma	113 (45.4)
Two-year associate degree or higher	51 (20.5)
Sexual Orientation	
Heterosexual	196 (78.7)
Not heterosexual (i.e., lesbian, gay, bisexual, or queer)	53 (21.3)
Ever incarcerated	141 (56.6)
Ever homeless	192 (77.1)
Ever married	67 (26.9)
Employment Status	
Employed	92 (36.9)
Unable to work because of disability	41 (16.5)
Unemployed	116 (46.6)
Monthly income	
Less than \$1,000	157 (63.1)
\$1,000 - \$ 1,999	68 (27.3)
\$2,000 and above	24 (9.6)
Number of male sexual partners in the last 90 days (Mean \pm	1.9 ± 1.4

486 Self (FemAALES) HIV prevention study participants at baseline (n=249)

SD)	
At least one current main sexual partner	212 (88.0)

489 Table 2. Characteristics of hypothesized minority stress variables, protective variables, and

490 potential confounders among Females of African American Legacy Empowering Self

491 (FemAALES) HIV prevention study participants at baseline

21-item Chronic Burden Scale Low 78 (33.6) Moderate-to-high (score ≥ 29) 154 (66.4) Brief Symptom Inventory-18	
Moderate-to-high (score ≥ 29) 154 (66.4)	
Brief Symptom Inventory-18	
Low 102 (41.8)	
"significant psychological distress Case" (BSI score ≥ 50) 142 (58.2)	
History of childhood sexual abuse (from Wyatt Sexual History154 (65.8)	
Questionnaire – Revised)	
History of adult non-consensual sexual abuse (from Wyatt110 (45.5)	
Sexual History Questionnaire – Revised)	
History of two or more other traumatic events (Traumatic206 (84.4)	
History Questionnaire)	
Multidimensional Scale of Perceived Social Support	
Low 20 (8.1)	
Moderate 123 (49.6)	
High 105 (42.3)	
(Mean score ±	SD)
Religiosity/spirituality scale (Scale range 0-24) 20.1 ± 4.4	
Modified Schedule of Sexist Events (Scale range 0-39) 17.5 ± 8.9	
Racism and Life Experience Scale – Brief (Scale range 0-36) 18.7 ± 7.2	

494 Table 3. Univariate associations of hypothesized minority stress variables, protective variables,

495 and potential confounders with observed FSFI domains

	Arousal B (95% CI)	p-value	Satisfaction B (95% CI)	p-value	Desire B (95% CI)	p-value
Age (ref = 18-29) 30-39 40-49 50+ Sexual orientation	-0.11 (-0.50, 0.27) 0.23 (-0.18, 0.64) -0.43 (-0.89, 0.03)	0.565 0.274 0.067	-0.35 (-0.83, 0.12) -0.06 (-0.55, 0.44) - 0.56 (-1.11, 0.00)	0.139 0.826 0.048	-0.02 (-0.42, 0.38) 0.01 (-0.43, 0.44) -0.45 (-0.93, 0.04)	0.919 0.977 <i>0.074</i>
(ref = heterosexual) not heterosexual						
(i.e., lesbian,						
gay, bisexual, or						
queer) Childhood sexual	0.22 (-0.15, 0.59)	0.249	0.56 (0.11, 1.01)	0.016	0.11 (-0.28, 0.49)	0.579
abuse ²⁸						
(ref = no) Yes Adult sexual abuse ²⁸	-0.16 (-0.48, 0.17)	0.347	-0.41 (-0.80, -0.01)	0.046	-0.05 (-0.38, 0.29)	0.788
(ref = no) yes Traumatic History	-0.30 (-0.60, 0.01)	0.054	-0.20 (-0.57, 0.17)	0.290	-0.24 (-0.56, 0.07)	0.132
Questionnaire (ref =						
low) high Brief Symptom	-0.17 (-0.61, 0.28)	0.463	-0.21 (-0.74, 0.33)	0.444	0.05 (-0.39, 0.49)	0.811
Inventory-18						
significant						
psychological						
distress (ref = no)						

	yes 21-item Chronic	-0.27 (-0.58, 0.05)	0.094	-0.64 (-1.01, -0.27)	0.001	0.02 (-0.30, 0.34)	0.688
	Burden Scale (ref =						
	low) moderate-high At least one main	-0.44 (-0.77, -0.11)	0.008	-0.56 (-0.95, -0.16)	0.006	0.01 (-0.33, 0.36)	0.946
	partner (ref = no) yes Multidimensional	0.13 (-0.36, 0.62)	0.607	1.32 (0.75, 1.88)	<0.001	0.32 (-0.17, 0.81)	0.201
	Scale of Perceived						
	Social Support (ref						
	= low) moderate high Racism and Life	-0.13 (-0.70, 0.44) 0.26 (-0.32, 0.84)	0.658 0.377	-0.11 (-0.80, 0.58) 0.51 (-0.18, 1.21)	0.745 0.149	-0.12 (-0.73, 0.49) -0.01 (-0.63, 0.61)	0.704 0.981
	Experience Scale –						
	Brief						
	(scale range: 0-36) Modified Schedule	0.00 (-0.02, 0.02)	0.999	-0.01 (-0.04, 0.01)	0.293	-0.01 (-0.03, 0.02)	0.577
	of Sexist Events						
	(scale range: 0-39) Religiosity/	-0.01 (-0.03, 0.01)	0.181	-0.04 (-0.06, -0.02)	<0.001	0.00 (-0.01, 0.02)	0.596
	spirituality (scale						
49	range: 0-24) 6	0.00 (-0.03, 0.04)	0.891	0.02 (-0.02, 0.06)	0.329	0.01 (-0.02, 0.05)	0.445
497							
498							
499							

Arousal -0.14 (-0.55, 0.26) 0.49 30-39 -0.14 (-0.55, 0.26) 0.49 40-49 0.31 (-0.13, 0.75) 0.16 50+ -0.38 (-0.87, 0.11) 0.12' Adult sexual abuse (from Wyatt Sexual History Questionnaire – -0.38 (-0.87, 0.11) 0.12' Revised) (ref = no) yes -0.19 (-0.54, 0.15) 0.26' Brief Symptom Inventory-18 "significant psychological distress" -0.24 (-0.60, 0.13) 0.20' 21-item Chronic Burden Scale (ref = low) -0.38 (-0.75, -0.02) 0.04 Modified Schedule of Sexist Events (Scale range 0-39) -0.38 (-0.75, -0.02) 0.04 Satisfaction -0.27 (-0.75, 0.21) 0.27' Age (ref = 18-29) -0.27 (-0.75, 0.21) 0.27' 20-39 -0.27 (-0.75, 0.21) 0.20' Satisfaction -0.36 (-0.92, 0.20) 0.20' Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.00' Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.83' Brief Symptom Inventory-18 "significant psychological distress" (ref = no) -0.20 (-0.63, 0.23) 0.36'			p-
Age (ref = 18-29) $0.30 - 39$ $-0.14 (-0.55, 0.26)$ 0.490 30-39 $0.31 (-0.13, 0.75)$ 0.16 50+ $0.31 (-0.13, 0.75)$ 0.16 Adult sexual abuse (from Wyatt Sexual History Questionnaire – $-0.38 (-0.87, 0.11)$ $0.12'$ Adult sexual abuse (from Wyatt Sexual History Questionnaire – $-0.19 (-0.54, 0.15)$ $0.26'$ Brief Symptom Inventory-18 "significant psychological distress" $-0.24 (-0.60, 0.13)$ $0.20'$ (ref = no) $-9.24 (-0.60, 0.13)$ $0.20'$ yes $-0.24 (-0.60, 0.13)$ $0.20'$ 21-item Chronic Burden Scale (ref = low) $-0.38 (-0.75, -0.02)$ 0.04 Modified Schedule of Sexist Events (Scale range 0-39) $-0.27 (-0.75, 0.21)$ $0.27'$ 20-39 $-0.27 (-0.75, 0.21)$ $0.27'$ 20-39 $-0.27 (-0.75, 0.21)$ $0.27'$ 40-49 $0.01 (-0.50, 0.52)$ $0.97'$ 50+ $-0.36 (-0.92, 0.20)$ $0.20'$ Sexual orientation (ref = heterosexual) $0.67 (0.20, 1.15)$ $0.00'$ Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48)$ $0.83'$ Brief Symptom Inventory-18 "significant psychological		B (95% CI)	value
30.39 -0.14 (-0.55, 0.26) 0.490 40.49 0.31 (-0.13, 0.75) 0.16 $50+$ -0.38 (-0.87, 0.11) 0.12' Adult sexual abuse (from Wyatt Sexual History Questionnaire – -0.19 (-0.54, 0.15) 0.26' Brief Symptom Inventory-18 "significant psychological distress" -0.19 (-0.54, 0.15) 0.26' Yes -0.24 (-0.60, 0.13) 0.20' 21-item Chronic Burden Scale (ref = low) -0.38 (-0.75, -0.02) 0.04' Modified Schedule of Sexist Events (Scale range 0-39) -0.27 (-0.75, 0.21) 0.27' Satisfaction -0.36 (-0.92, 0.20) 0.20' Satisfaction -0.36 (-0.92, 0.20) 0.20' Sexual orientation (ref = heterosexual) -0.36 (-0.92, 0.20) 0.20' not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.00' Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.83' West -0.21 (-0.65, 0.22) 0.32' 21-item Chronic Burden Scale (ref = low) -0.20 (-0.63, 0.23) 0.36' moderate-high -0.20 (-0.63, 0.23) 0.36' At least one main partner (ref = no) yes -0.20 (-0.63, 0.23)	Arousal		
40.49 $0.31 (-0.13, 0.75)$ 0.16 $50+$ $-0.38 (-0.87, 0.11)$ 0.12^{-10} Adult sexual abuse (from Wyatt Sexual History Questionnaire – $-0.19 (-0.54, 0.15)$ 0.26^{-10} Revised) (ref = no) $9e^{-10}$ $-0.19 (-0.54, 0.15)$ 0.26^{-10} Brief Symptom Inventory-18 "significant psychological distress" $-0.19 (-0.54, 0.15)$ 0.26^{-10} Yes $-0.24 (-0.60, 0.13)$ 0.20^{-10} 21-item Chronic Burden Scale (ref = low) $-0.38 (-0.75, -0.02)$ 0.04 Modified Schedule of Sexist Events (Scale range 0-39) $-0.38 (-0.75, -0.02)$ 0.04 Satisfaction $-0.27 (-0.75, 0.21)$ 0.27^{-10} $0.27 (-0.75, 0.21)$ $0.27 (-0.75, 0.21)$ $0.27 (-0.75, 0.21)$ $0.27 (-0.75, 0.21)$ $0.27 (-0.75, 0.21)$ $0.27 (-0.75, 0.21)$ 0.20^{-10} Satisfaction $-0.29 (-0.20, 0.20)$ $0.01 (-0.50, 0.52)$ $0.97 (-0.36 (-0.92, 0.20)$ 0.20^{-10} Sexual orientation (ref = heterosexual) $-0.36 (-0.92, 0.20)$ 0.20^{-10} not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.000^{-10} Childhood sexual abuse (from Wyatt Sexual History $0.21 (-0.65, 0.22)$ 0.32^{-1}	Age (ref = $18-29$)		
50+ $-0.38(-0.87, 0.11)$ $0.12'$ Adult sexual abuse (from Wyatt Sexual History Questionnaire – $-0.38(-0.87, 0.11)$ $0.12'$ Revised) (ref = no) yes $-0.19(-0.54, 0.15)$ $0.26'$ Brief Symptom Inventory-18 "significant psychological distress" $-0.24(-0.60, 0.13)$ $0.20'$ 21-item Chronic Burden Scale (ref = low) moderate-high $-0.38(-0.75, -0.02)$ $0.04'$ Modified Schedule of Sexist Events (Scale range 0-39) $-0.24(-0.60, 0.13)$ $0.20'$ Satisfaction $-0.38(-0.75, -0.02)$ $0.04'$ Age (ref = 18-29) 20-39 $-0.27(-0.75, 0.21)$ $0.27'$ $20-39$ $-0.27(-0.75, 0.21)$ $0.20'$ Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67(0.20, 1.15)$ $0.00'$ Childhood sexual abuse (from Wyatt Sexual History $0.04(-0.39, 0.48)$ $0.83'$ Brief Symptom Inventory-18 "significant psychological distress" $0.04(-0.39, 0.48)$ $0.83'$ (ref = no) yes $-0.21(-0.65, 0.22)$ $0.32'$ 21-item Chronic Burden Scale (ref = low) moderate-high $-0.20(-0.63, 0.23)$ $0.36'$ At least one main partner (ref = no) yes $-0.20(-0.63, 0.23)$ $0.36'$ Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46(-1.18, 0.25)$ $0.19'$	30-39	-0.14 (-0.55, 0.26)	0.490
Adult sexual abuse (from Wyatt Sexual History Questionnaire –Revised) (ref = no) yes-0.19 (-0.54, 0.15)0.264Brief Symptom Inventory-18 "significant psychological distress"-0.24 (-0.60, 0.13)0.202(ref = no) yes-0.24 (-0.60, 0.13)0.20221-item Chronic Burden Scale (ref = low) moderate-high-0.38 (-0.75, -0.02)0.04Modified Schedule of Sexist Events (Scale range 0-39)-0.38 (-0.75, -0.02)0.04Satisfaction-0.27 (-0.75, 0.21)0.27(Age (ref = 18-29) 20-39-0.27 (-0.75, 0.21)0.27(20-39-0.27 (-0.75, 0.21)0.27(40-490.01 (-0.50, 0.52)0.9750+-0.36 (-0.92, 0.20)0.203Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer)0.67 (0.20, 1.15)0.004Childhood sexual abuse (from Wyatt Sexual History0.04 (-0.39, 0.48)0.839Brief Symptom Inventory-18 "significant psychological distress"0.04 (-0.39, 0.48)0.839(ref = no) yes-0.21 (-0.65, 0.22)0.32'21-item Chronic Burden Scale (ref = low) moderate-high-0.20 (-0.63, 0.23)0.362At least one main partner (ref = no) yes-0.20 (-0.63, 0.23)0.362Multidimensional Scale of Perceived Social Support (ref = low) moderate-0.46 (-1.18, 0.25)0.19	40-49	0.31 (-0.13, 0.75)	0.161
Revised) (ref = no) -0.19 (-0.54, 0.15) 0.264 Brief Symptom Inventory-18 "significant psychological distress" -0.24 (-0.60, 0.13) 0.203 21-item Chronic Burden Scale (ref = low) -0.38 (-0.75, -0.02) 0.04 Modified Schedule of Sexist Events (Scale range 0-39) -0.38 (-0.75, -0.02) 0.04 Satisfaction -0.27 (-0.75, 0.21) 0.276 Satisfaction -0.36 (-0.92, 0.20) 0.203 Sexual orientation (ref = heterosexual) -0.36 (-0.92, 0.20) 0.204 not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.006 Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.839 Brief Symptom Inventory-18 "significant psychological distress" 0.04 (-0.39, 0.48) 0.839 (ref = no) yes -0.21 (-0.65, 0.22) 0.327 21-item Chronic Burden Scale (ref = low) -0.20 (-0.63, 0.23) 0.366 Modierate-high -0.20 (-0.63, 0.23) 0.366 At least one main partner (ref = no) yes -0.20 (-0.63, 0.23) 0.366 Multidimensional Scale of Perceived Social Support (ref = low) -0.46 (-1.18, 0.25) 0.199	50+	-0.38 (-0.87, 0.11)	0.127
yes -0.19 (-0.54, 0.15) 0.264 Brief Symptom Inventory-18 "significant psychological distress" -0.24 (-0.60, 0.13) 0.202 21-item Chronic Burden Scale (ref = low) -0.38 (-0.75, -0.02) 0.044 Modified Schedule of Sexist Events (Scale range 0-39) -0.27 (-0.75, 0.21) 0.276 Satisfaction -0.29 (-0.75, 0.21) 0.276 Age (ref = 18-29) -0.36 (-0.92, 0.20) 0.206 20-39 -0.27 (-0.75, 0.21) 0.276 40-49 0.01 (-0.50, 0.52) 0.97 50+ -0.36 (-0.92, 0.20) 0.206 Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.004 Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.839 Brief Symptom Inventory-18 "significant psychological distress" 0.04 (-0.39, 0.48) 0.839 (ref = no) -0.20 (-0.63, 0.23) 0.366 yes -0.20 (-0.63, 0.23) 0.366 At least one main partner (ref = no) -0.20 (-0.63, 0.23) 0.366 yes 1.02 (0.42, 1.62) <0.009	Adult sexual abuse (from Wyatt Sexual History Questionnaire -		
Brief Symptom Inventory-18 "significant psychological distress" -0.24 (-0.60, 0.13) 0.202 (ref = no) -0.24 (-0.60, 0.13) 0.202 21-item Chronic Burden Scale (ref = low) -0.38 (-0.75, -0.02) 0.042 Modified Schedule of Sexist Events (Scale range 0-39) -0.38 (-0.75, -0.02) 0.042 Satisfaction -0.27 (-0.75, 0.21) 0.277 Age (ref = 18-29) -0.27 (-0.75, 0.21) 0.277 20-39 -0.27 (-0.75, 0.21) 0.274 40-49 0.01 (-0.50, 0.52) 0.974 50+ -0.36 (-0.92, 0.20) 0.203 Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.000 Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.833 Brief Symptom Inventory-18 "significant psychological distress" 0.04 (-0.39, 0.48) 0.833 (ref = no) -0.21 (-0.65, 0.22) 0.322 yes -0.20 (-0.63, 0.23) 0.364 At least one main partner (ref = no) -0.20 (-0.63, 0.23) 0.364 yes 1.02 (0.42, 1.62) <0.009	Revised) $(ref = no)$		
Brief Symptom Inventory-18 "significant psychological distress" -0.24 (-0.60, 0.13) 0.202 (ref = no) -0.38 (-0.75, -0.02) 0.04 Modified Schedule of Sexist Events (Scale range 0-39) -0.38 (-0.75, -0.02) 0.04 Modified Schedule of Sexist Events (Scale range 0-39) -0.01 (-0.02, 0.03) 0.588 Satisfaction -0.27 (-0.75, 0.21) 0.27 Age (ref = 18-29) -0.27 (-0.75, 0.21) 0.27 20-39 -0.27 (-0.75, 0.21) 0.27 40-49 0.01 (-0.50, 0.52) 0.97 50+ -0.36 (-0.92, 0.20) 0.200 Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.000 Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.839 Brief Symptom Inventory-18 "significant psychological distress" 0.04 (-0.39, 0.48) 0.839 (ref = no) -0.20 (-0.65, 0.22) 0.32' yes -0.20 (-0.63, 0.23) 0.36' 21-item Chronic Burden Scale (ref = low) -0.20 (-0.63, 0.23) 0.36' Moderate-high -0.20 (-0.63, 0.23) 0.36' At least one main partner (ref = no) -0.4	yes	-0.19 (-0.54, 0.15)	0.264
yes $-0.24 (-0.60, 0.13)$ 0.203 21-item Chronic Burden Scale (ref = low) $-0.38 (-0.75, -0.02)$ 0.04 Modified Schedule of Sexist Events (Scale range 0-39) $-0.38 (-0.75, -0.02)$ 0.04 Satisfaction $-0.27 (-0.75, 0.21)$ 0.276 Age (ref = 18-29) $-0.27 (-0.75, 0.21)$ 0.276 20-39 $-0.27 (-0.75, 0.21)$ 0.276 40-49 $0.01 (-0.50, 0.52)$ 0.976 50+ $-0.36 (-0.92, 0.20)$ 0.203 Sexual orientation (ref = heterosexual) $0.01 (-0.50, 0.52)$ 0.976 not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.006 Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) yes $-0.21 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) $-0.20 (-0.63, 0.23)$ 0.366 At least one main partner (ref = no) yes $1.02 (0.42, 1.62)$ <0.001 yes $1.02 (0.42, 1.62)$ <0.001 Multidimensional Scale of Per	Brief Symptom Inventory-18 "significant psychological distress"		
21-item Chronic Burden Scale (ref = low) -0.38 (-0.75, -0.02) 0.04 Modified Schedule of Sexist Events (Scale range 0-39) -0.38 (-0.75, -0.02) 0.04 Satisfaction -0.27 (-0.02, 0.03) 0.589 Satisfaction -0.27 (-0.75, 0.21) 0.270 40-49 0.01 (-0.02, 0.03) 0.974 50+ -0.36 (-0.92, 0.20) 0.203 Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) 0.67 (0.20, 1.15) 0.000 Childhood sexual abuse (from Wyatt Sexual History 0.04 (-0.39, 0.48) 0.839 Brief Symptom Inventory-18 "significant psychological distress" 0.04 (-0.39, 0.48) 0.839 (ref = no) yes -0.21 (-0.65, 0.22) 0.327 21-item Chronic Burden Scale (ref = low) -0.20 (-0.63, 0.23) 0.366 Modified Scale one main partner (ref = no) yes 1.02 (0.42, 1.62) <0.001	(ref = no)		
moderate-high Modified Schedule of Sexist Events (Scale range 0-39) $-0.38 (-0.75, -0.02)$ $0.01 (-0.02, 0.03)$ 0.04 0.588 Satisfaction $0.01 (-0.02, 0.03)$ 0.589 Satisfaction $-0.27 (-0.75, 0.21)$ $0.01 (-0.50, 0.52)$ 0.276 $0.01 (-0.50, 0.52)$ $40-49$ $50+$ $0.01 (-0.50, 0.52)$ $0.01 (-0.50, 0.52)$ 0.974 $-0.36 (-0.92, 0.20)$ Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.000 Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48)$ 0.839 Questionnaire - Revised) (ref = no) yes $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23)$ 0.363 At least one main partner (ref = no) yes $0.02 (0.42, 1.62)$ 0.000 Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25)$ 0.199	yes	-0.24 (-0.60, 0.13)	0.205
Modified Schedule of Sexist Events (Scale range 0-39) $0.01 (-0.02, 0.03)$ 0.589 Satisfaction $Age (ref = 18-29)$ $0.01 (-0.02, 0.03)$ 0.589 20-39 $-0.27 (-0.75, 0.21)$ 0.270 $40-49$ $0.01 (-0.50, 0.52)$ 0.974 $50+$ $-0.36 (-0.92, 0.20)$ 0.208 Sexual orientation (ref = heterosexual) $-0.36 (-0.92, 0.20)$ 0.208 not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.006 Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) yes $-0.21 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) $-0.20 (-0.63, 0.23)$ 0.363 At least one main partner (ref = no) yes $1.02 (0.42, 1.62)$ <0.001 Multidimensional Scale of Perceived Social Support (ref = low) $-0.46 (-1.18, 0.25)$ 0.199	21-item Chronic Burden Scale (ref = low)		
Modified Schedule of Sexist Events (Scale range 0-39) $0.01 (-0.02, 0.03)$ 0.589 Satisfaction $Age (ref = 18-29)$ $0.01 (-0.02, 0.03)$ 0.589 20-39 $-0.27 (-0.75, 0.21)$ 0.270 $40-49$ $0.01 (-0.50, 0.52)$ 0.974 $50+$ $-0.36 (-0.92, 0.20)$ 0.208 Sexual orientation (ref = heterosexual) $-0.36 (-0.92, 0.20)$ 0.208 not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.000 Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48)$ 0.839 Questionnaire – Revised) (ref = no) $9es$ $0.04 (-0.65, 0.22)$ 0.327 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) $9es$ $-0.21 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) $-0.20 (-0.63, 0.23)$ 0.363 At least one main partner (ref = no) $9es$ $1.02 (0.42, 1.62)$ 0.001 Multidimensional Scale of Perceived Social Support (ref = low) $-0.46 (-1.18, 0.25)$ 0.199	moderate-high	-0.38 (-0.75, -0.02)	0.041
Age (ref = 18-29) $-0.27 (-0.75, 0.21) = 0.270$ 20-39 $-0.27 (-0.75, 0.21) = 0.270$ 40-49 $0.01 (-0.50, 0.52) = 0.974$ 50+ $-0.36 (-0.92, 0.20) = 0.203$ Sexual orientation (ref = heterosexual) $0.67 (0.20, 1.15) = 0.006$ not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15) = 0.006$ Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48) = 0.839$ Questionnaire – Revised) (ref = no) $0.04 (-0.39, 0.48) = 0.839$ yes $0.04 (-0.39, 0.48) = 0.839$ Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48) = 0.839$ (ref = no) $-0.21 (-0.65, 0.22) = 0.327$ yes $-0.20 (-0.63, 0.23) = 0.369$ At least one main partner (ref = no) $-0.20 (-0.63, 0.23) = 0.369$ yes $-0.20 (-0.63, 0.23) = 0.369$ Multidimensional Scale of Perceived Social Support (ref = low) $-0.46 (-1.18, 0.25) = 0.199$	Modified Schedule of Sexist Events (Scale range 0-39)		0.589
20-39 $40-49$ $50+$ $-0.27 (-0.75, 0.21) 0.27(-0.75, 0.21) 0.27(-0.75, 0.21) 0.01(-0.50, 0.52) 0.974-0.36 (-0.92, 0.20) 0.203Sexual orientation (ref = heterosexual)not heterosexual (i.e., lesbian, gay, bisexual, or queer)0.67 (0.20, 1.15) 0.000Childhood sexual abuse (from Wyatt Sexual History0.67 (0.20, 1.15) 0.000Questionnaire - Revised) (ref = no)yes0.04 (-0.39, 0.48) 0.839Brief Symptom Inventory-18 "significant psychological distress"0.04 (-0.39, 0.48) 0.839(ref = no)yes-0.21 (-0.65, 0.22) 0.32721-item Chronic Burden Scale (ref = low)moderate-high-0.20 (-0.63, 0.23) 0.363At least one main partner (ref = no)yes-0.20 (-0.63, 0.23) 0.363Multidimensional Scale of Perceived Social Support (ref = low)moderate-0.46 (-1.18, 0.25) 0.199$	Satisfaction		
40-49 $50+$ $0.01 (-0.50, 0.52) (0.974)$ Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15) (0.000)$ Childhood sexual abuse (from Wyatt Sexual History $0.67 (0.20, 1.15) (0.000)$ Questionnaire - Revised) (ref = no) yes $0.04 (-0.39, 0.48) (0.839)$ Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48) (0.839)$ (ref = no) yes $-0.21 (-0.65, 0.22) (0.327)$ 21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23) (0.363)$ At least one main partner (ref = no) yes $-0.20 (-0.63, 0.23) (0.363)$ Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25) (0.199)$	Age (ref = 18-29)		
$40-49$ $50+$ $0.01 (-0.50, 0.52) \\ -0.36 (-0.92, 0.20) \\ 0.203$ Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15) \\ 0.004 (-0.39, 0.48) \\ 0.839$ Childhood sexual abuse (from Wyatt Sexual History $0.04 (-0.39, 0.48) \\ 0.04 (-0.39, 0.48) \\ 0.839$ Questionnaire - Revised) (ref = no) yes $0.04 (-0.65, 0.22) \\ 0.21 (-0.65, 0.22) \\ 0.327$ (ref = no) yes $-0.20 (-0.63, 0.23) \\ 0.365 \\ $	20-39	-0.27 (-0.75, 0.21)	0.270
Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.000 Childhood sexual abuse (from Wyatt Sexual History $0.67 (0.20, 1.15)$ 0.000 Questionnaire - Revised) (ref = no) yes $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) yes $-0.21 (-0.65, 0.22)$ 0.322 21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23)$ 0.362 At least one main partner (ref = no) yes $1.02 (0.42, 1.62)$ <0.001 Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25)$ 0.199	40-49		0.974
Sexual orientation (ref = heterosexual) not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.006 Childhood sexual abuse (from Wyatt Sexual History $0.67 (0.20, 1.15)$ 0.006 Questionnaire – Revised) (ref = no) yes $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) yes $-0.21 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23)$ 0.362 At least one main partner (ref = no) yes $1.02 (0.42, 1.62)$ 0.009 Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25)$ 0.199	50+	-0.36 (-0.92, 0.20)	0.208
not heterosexual (i.e., lesbian, gay, bisexual, or queer) $0.67 (0.20, 1.15)$ 0.000 Childhood sexual abuse (from Wyatt Sexual HistoryQuestionnaire – Revised) (ref = no) $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) $0.04 (-0.39, 0.48)$ 0.839 yes $-0.21 (-0.65, 0.22)$ 0.322 21-item Chronic Burden Scale (ref = low) $-0.20 (-0.63, 0.23)$ 0.369 Multidimensional Scale of Perceived Social Support (ref = low) $-0.46 (-1.18, 0.25)$ 0.199	Sexual orientation (ref = heterosexual)		
yes $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) $0.21 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) $-0.20 (-0.63, 0.23)$ 0.369 Multidimensional Scale of Perceived Social Support (ref = low) $0.04 (-1.18, 0.25)$ 0.199 Multidimensional Scale of Perceived Social Support (ref = low) $-0.46 (-1.18, 0.25)$ 0.199		0.67 (0.20, 1.15)	0.006
yes $0.04 (-0.39, 0.48)$ 0.839 Brief Symptom Inventory-18 "significant psychological distress" $0.04 (-0.39, 0.48)$ 0.839 (ref = no) $0.21 (-0.65, 0.22)$ 0.327 21-item Chronic Burden Scale (ref = low) $-0.20 (-0.63, 0.23)$ 0.369 Multidimensional Scale of Perceived Social Support (ref = low) $0.04 (-1.18, 0.25)$ 0.199 Multidimensional Scale of Perceived Social Support (ref = low) $-0.46 (-1.18, 0.25)$ 0.199	Ouestionnaire – Revised) $(ref = no)$		
Brief Symptom Inventory-18 "significant psychological distress"(ref = no) yes $-0.21 (-0.65, 0.22) = 0.32^{\circ}$ 21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23) = 0.36^{\circ}$ At least one main partner (ref = no) yes $-0.20 (-0.63, 0.23) = 0.36^{\circ}$ Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25) = 0.19^{\circ}$		0.04 (-0.39, 0.48)	0.839
yes -0.21 (-0.65, 0.22) 0.322 21-item Chronic Burden Scale (ref = low) -0.20 (-0.63, 0.23) 0.363 Multidimensional Scale of Perceived Social Support (ref = low) -0.20 (-0.63, 0.23) 0.363 Multidimensional Scale of Perceived Social Support (ref = low) -0.46 (-1.18, 0.25) 0.199	Brief Symptom Inventory-18 "significant psychological distress"		
21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23) = 0.363$ At least one main partner (ref = no) yes $-0.20 (-0.63, 0.23) = 0.363$ Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25) = 0.196$	(ref = no)		
21-item Chronic Burden Scale (ref = low) moderate-high $-0.20 (-0.63, 0.23) = 0.363$ At least one main partner (ref = no) yes $-0.20 (-0.63, 0.23) = 0.363$ Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25) = 0.196$	yes	-0.21 (-0.65, 0.22)	0.327
moderate-high $-0.20 (-0.63, 0.23)$ 0.363 At least one main partner (ref = no) yes $1.02 (0.42, 1.62)$ <0.001 Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25)$ 0.199	21-item Chronic Burden Scale (ref = low)		
At least one main partner (ref = no) yes $1.02 (0.42, 1.62) < 0.001$ Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25) = 0.192$		-0.20 (-0.63, 0.23)	0.365
yes $1.02 (0.42, 1.62)$ <0.00Multidimensional Scale of Perceived Social Support (ref = low) moderate $-0.46 (-1.18, 0.25)$ 0.199	-	× · · /	
Multidimensional Scale of Perceived Social Support (ref = low) moderate -0.46 (-1.18, 0.25) 0.199	- • • • •	1.02 (0.42, 1.62)	<0.001
moderate -0.46 (-1.18, 0.25) 0.199		<pre> , · · · · · · · · · · · · · · · · · ·</pre>	
	••	-0.46 (-1.18, 0.25)	0.199
	high	-0.14 (-0.88, 0.60)	0.706

501 Table 4. Multivariable linear regressions for FSFI arousal, satisfaction, and desire domains

Modified Schedule of Sexist Events (Scale range 0-39)	-0.03 (-0.06, 0.00)	0.022
Desire		
Age (ref = 18-29)		
20-39	-0.01 (-0.41, 0.40)	0.964
40-49	0.07 (-0.37, 0.52)	0.747
50+	-0.39 (-0.90, 0.11)	0.127
Adult sexual abuse (from Wyatt Sexual History Questionna	ire –	
Revised) (ref = no)		
yes	-0.20 (-0.54, 0.14)	0.242