Original Research Article

- Vulnerability and Gonorrhea: A Qualitative Study of Black Women in South Africa 2
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Abstract

4 **Background:** Gonorrhea is becoming a health concern globally due to its susceptibility to 5 antiresistance of antibioticsmicrobial resistance, and this is a concern particularly for Black women in South Africa. Vulnerability among Black women leads to unsafe sexual practices 6 7 and this qualitative study explores the relationship between vulnerability and risk of 8 gonorrhea.

9 **Methods:** To understand this relationship, participants were interviewed using an in-depth 10 questionnaire at Lovelife, a local non-governmental organization in the Langa township of 11 Cape Town, South Africa from October 2014-December 2014. Interviews were conducted 12 using the information-motivation-behavioral skills conceptual framework and analyzed using 13 thematic coding and triangulated through member-checking.

14 **Results:** Vulnerability affected the women's motivation to change at-risk behavior because 15 the control was out of her hands. Of the 12 respondents, 92% were unemployed and 16 dependent on her partner and his family (in some circumstances), which lowered their sexual 17 power and ability to make decisions about sexual behavior that led them to at least one 18 gonorrhea infection.

19 **Conclusion:** The findings from this study are of great social influence globally because 20 regardless of age, social economic status or educational level, women feel a need to discuss 21 behavior in a medium that is not judgmental or instructive, but one that fosters openness and 22 support.

23 Vulnerability and Gonorrhea: A Qualitative Study of Black Women in South Africa

24 Introduction



having decreased susceptibility to treatment (Duplessis et al., 2015). Vulnerability refers to
the individual factors that increase risk of HIV/STI infection (Lamptey, 2002). The
vulnerability paradigm explains that women's susceptibility to HIV_is because of biological
differences versus with men, reduced sexual autonomy, and men's sexual power and privilege
(Higgins et al., 2011).

53 UNAIDS considers that vulnerability includes factors outside the control of the 54 individual, which reduces the ability of individuals and communities to avoid the risk of 55 HIV/STIs (Nzewi, 2009). Poverty is a characteristic that increases vulnerability of women 56 with unsafe sexual practices because of lack of knowledge, lack of access to protection, and 57 the inability to negotiate condom use (Booysen & Summerton, 2002). Some of the individual 58 factors include unemployment, illiteracy, and gender inequality. These factors can also be 59 characterized as social, but in the context of this psychosocial study determinant factor, they 60 will be classified as individual susceptibilities. Vulnerability has been studied in various populations around the world and although Black women in South Africa are affected the 61 same way in regards to disease burden, this study used qualitative methodology to get a 62 deeper understanding of how vulnerability affected risk of gonorrhea. 63 The main objective of the study was "How does a woman's sense of vulnerability 64 play a part in risk of gonorrhea among Black South African women?"?" Vulnerable persons 65 in many countries can include adolescent girls and women. If any factors come into play, 66 67 such as illiterate women with limited skills, few job opportunities, and limited access to 68 health information and services, are more likely than other women to engage in unprotected 69 sex for money increasing their vulnerability and risk of infection (Lamptey, 2002). Women 70 are also considered vulnerable to rape and violence in their relationships and tend to have

- 71 limited control over their sexual relationships (Johnson & Budlender, 2002). Promiscuity is
- 72 also a risk factor found in literature and women are put at risk because of whom they have

73	sex with rather than how many people they have sex with (Johnson & Budlender, 2002).
74	Interventions that address vulnerability to create economic opportunities for those at most
75	risk, can decrease vulnerability and risk of infection among the most affected groups.
76	Methodology
77	Study Setting and Participants
78	The research was undertaken in a government-funded clinic in the Langa Township
79	located in the metropolitan area of Cape Town, South Africa. Townships in South Africa are
80	historically predominately Black African with a majority Xhosa in traditional ethnicity and
81	language. In Langa, Black Africans make up 99.5% of the population, unemployment is
82	4056%, and females make up $50.42%$ of the population according to the 201101 Cape Town
83	Census. Out of the female population in Langa, 2.2% have no schooling, 4% have completed
84	primary, 45% have some secondary <u>education</u> , and <u>3340</u> % have a Grade 12 education (Cape
85	Town Census, 2011). With females as the predominate gender in Cape Town, the probability
86	of reaching study participants was greater. One of the main reasons for the choice to study in
87	this particular area was because these populations have high incidences of HIV and STI
88	among Black females.
89	Many of the local residents use government-funded_public health clinics because of
90	easy accessibility, free services and most residents do not have national health insurance. The
91	clinic has trauma services, mental health services, a pharmacy, obstetrics, a HIV/AIDS and

92 STI unit, and psychiatric services, among others, making them full-service health facilities.

93 The LoveLife organization is a non-profit group that caters to young adults and

94 comprehensive sexual preventive services. LoveLife is very visible in the local area and

95 works with the local schools to deliver education about how to practice safe sex and other

sexual preventive methods to curb the high rate of HIV/STIs in the area.

97	To be eligible for the study, participants had to be a Black female, aged 18 to 35 years
98	old, read and speak at least intermediate English. All correspondence was translated in Xhosa
99	to increase the chances of greater participation. Each participant would have had at minimum
100	one sexual experience and at least one positive test for gonorrhea in the past 2 years. The goal
101	was to recruit as many participants who had received a positive test for gonorrhea within the
102	past 2 years with a goal of no less than 10 participants. Ten was the minimum target because
103	in a review of prevalence studies within this geographic area and population, it was not
104	difficult to recruit participants. Although this study had a small sample of 12 participants, this
105	is normal in qualitative studies to allow the time for the researcher to establish trust with each
106	participant and dig deeply into their thought processes and feelings. In order to recruit as
107	many participants as possible to give a detailed understanding of the psychosocial effects of
108	the women affected by gonorrhea, I asked LoveLife to assist in passing out flyers for
109	participant recruitment. Walden's IRB board recommended this way of recruitment as
110	opposed to clinic nurses and doctors asking participants directly to avoid participants being
111	coerced into being in the study.
112	Ethical considerations were maintained throughout the entire study and IRB approval
113	as part of the research protocol. The IRB approval number was 09-05-14-0132506. The
114	participants' identity and research responses were kept confidential, and risks and benefits
115	were expressed to each participant prior to data collection.
116	LoveLife, as the community partner, allowed the use of their volunteers (GroundBreakers)
117	for translation and assistance with distributing study participant recruitment flyers as well as
118	their LoveLife facility in Langa to host the interviews in a confidential area (the boardroom).
119	The Walden University Institutional Board (IRB) during the application process felt that the
120	focus groups initially proposed would not be conducive to participants sharing sensitive and
121	confidential information, so the accepted IRB application called for only one-on-one
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122	interviews. The IRB also asked that consideration for possible translations be a part of the
123	data collection in the case that a person who wanted to be a part of the study but could not
124	speak English fluently or was not confident in the language could not be excluded due to a
125	language barrier, which was satisfied through LoveLife that had translators available for my
126	use. There were approximately four participants who asked for a translator to be part of the
127	interview. Before the interview began, I went over the Informed Consent form and received
128	consent from each participant.
129	Because of the number of studies that have been done in the clinics with HIV, the
130	women are aware of how studies are conducted. Compensation of R50 grocery store vouchers
131	were given to participants for volunteering their time to participating in the study. Data
132	collection included individual one-on-one in-depth interviews.
133	Measures
134	The outcome variable Vulnerability was created using three sets of questions:
135	a. Why would you refrain from sexual contact if you or your partner had
136	gonorrhea?
137	b. How confident are you with using condoms and are you able to negotiate with
138	your partner to use condoms if you are not in a monogamous relationship?
139	c. How confident are you to refuse sexual intercourse with your partner if they
140	choose not to use a condom?
141	The participant's respondents were then coded with the following themes poverty,
142	basic needs, sexual power, decision making, and violence in the relationship.
143	Data Analysis
144	Data analysis began with transcription of the focus groups and hand-coding of themes
145	found from the one-on-one interviews with study participants. The interviews were

146 transcribed and hand-coded on a line by line basis. From this process, descriptive themes 147 were then deciphered from the variables outlined with the psychosocial variables previously 148 discussed. There was no need to use a qualitative software package because the themes and 149 codes could be deciphered from hand-coding. The use of methodological triangulation to 150 establish credibility and dependability was established in the data collection and analysis 151 stages, respectively, as participants were given a questionnaire prior to the interview to gather 152 demographic information. When the research questions were given in the individual 153 interview, more probing questions were asked for clarification if more analysis was needed 154 from the participant responses. Member checking occurred at the completion of the interview 155 through replaying the audio-tape to determine if the responses were accurate and if they 156 reflected the true outcomes. 157 **Results and Discussion** 158 **Demographics**

Table 1 presents the demographic characteristics of the participants. The research

160 participants (Table 1), 92% of the women were unemployed, 58% were high school graduates

161 (25% had less than a grade 12 education, and 17% were university students). All of the

162 participants considered themselves single, but 67% were in a relationship, and 33% were

single, not in a relationship. The average age of the study participants was 21.7 years old.

165	Measure	Total Sample (N=12)
166	Age (years, average)	21.7
167	Unemployed (yes)	92%
168	High School education completed	75%
169	Single (Not in a current relationship)	33%

164 Demographic Characteristics of the Study Sample

171 The desire to change at-risk behavior in order to prevent STI transmission and 172 prevention is dependent on the individual motivation to make said changes. The majority of 173 women in the study were adamant that after having a positive gonorrhea diagnosis, they are 174 fully confident and motivated to practice safer sex. Vulnerability affected the women's 175 motivation to change at-risk behavior because the control was out of their hands. The 176 overwhelming majority, 92% of women, were unemployed and dependent on their partner 177 and his family (in some circumstances), which lowered their sexual power and ability to 178 make decisions about sexual behavior. About half of the women continue to stay in abusive 179 relationships with the partner who gave them the disease. For some of the women, the partner 180 never received treatment due to lack of believing that he was infected which makes for the 181 answering of particular questions in the interview related to this determinant difficult to 182 decipher among those women. Women are put at risk because of whom they have sex with 183 (as found with the majority of women) rather than how many people they have sex with 184 although in a couple of cases with the participants, affection and self-gratification was sought 185 by casual encounters. This analysis solely focuses on vulnerability and was part of a larger study, thus the small number of participant responses and quotes from participants #8 and #9, 186 respectively. 187

188 Vulnerability focuses on the individual factors that increase the risk of HIV/STI
189 infection that are out of the control of the individual. Several of these factors came out in the
190 interviews including unemployment and gender inequality. The majority of women in the
191 study stated that they do not work and rely on family and boyfriends for basic needs that at
192 times results to violence in relationships with limited control in the relationship.

193 Participant #8:

194 For most of them [women that stay in violent relationships], it's because they are 195 dependent on the guy-financially and emotionally. For them, they come from a 196 broken home so they look at the boyfriend as a refuge because when you go home, 197 there is no food, mom is drunk and dad is drunk; no one has their story on. You go to 198 your boyfriend's house and then everyone welcomes you there with warm hands, you 199 can sleep there, they buy you clothes, everything. Behind closed doors, he beats you 200 up-blue eyes. The mom wouldn't be concerned and would ask about the blue eye, but 201 once you smile, they want to shower you with gifts. So that you forget the abusive 202 relationship so I think [they stay] because of broken families and depending on the 203 person.

Having multiple partners was found to be a factor in the data collection in the form of women seeking out affection and self-gratification from someone other than their main boyfriend.

207 Participant #9:

208 No, I didn't know [who gave her gonorrhea]. There was one time I did have a risky 209 situation. So, it happened then, so I wasn't sure. I thought he [the boyfriend] would 210 say it was from you, you came to me with this thing. But I had to speak to him about 211 it to go to the clinic. When the time came to have sex, I couldn't so I had to be open 212 why. But I didn't tell him about the risky decision I had on the side. [Tell me more 213 about the risky decision you had on the side] It was a guy I was chatting with and then 214 the feelings developed and went to another level but after we did that, I just saw that it 215 was wrong. I was flattered with the words he was saying, and then I did that [had 216 unprotected sex].

The research question asked: "How does a woman's sense of vulnerability play a part in risk of gonorrhea among Black South African women?" The answer is that vulnerability is an important psychosocial factor to predetermine among high risk groups because it lowers the ability to make safe choices in relationships or home dynamics that contribute to risk of disease. A key finding in this study was that the motivation to change risky behaviors is affected by the women's sense of vulnerability to how much control she has in her relationship.

The research addressed social and structural barriers that increase vulnerability to STI infection—two of the key strategic objectives for the South African National AIDS Council's National Strategic Plan--is critical to decreasing sexual disease epidemics that affect the country, in particular impoverished areas that have limited basic resources.

228 Implications for Practice and/or Policy

229 Recommendations for further research should include a wide vast of women in 230 surrounding townships in Cape Town inclusive of Khayelitsha (one of the largest townships 231 in Cape Town) and Nyanga, and also townships within the greater Johannesburg area. 232 Because of the interest of the women to "tell their story" and to have a say about their life, 233 concerns, and behaviors, this study could easily expand to not only South Africa, but to all 234 parts of the world. A comparison study of Black women in South Africa with Black women 235 in populated areas in the United States could really give salient information about the 236 information, motivation, and behaviors of sexually vulnerable women in regards to 237 relationships and relevant target focused support interventions could be established all over 238 the world.

The effectiveness of the targeted interventions could have a significant impact on the
 disproportionate incidence and prevalence of HIV/STIs among Black women globally. The

interventions have to allow the participants to speak freely about their vulnerabilities and
influence of peer and family pressures on sexual behavior, and lack of economic and social
support in their understanding of sexual behavior information and knowledge to actually
make a difference in consistent practices of preventive sexual behaviors. Individual
interviews is ideal to gather information with someone experienced and understanding of
impoverished communities to incite real and authentic conversations among the participant
group in regards to personal conversations about sexual behavior.

The potential impact of this study for positive social change at the individual level is the confidence and sexual power that a vulnerable woman can develop. Women's understanding of the importance in maintaining confidence (information and motivation) in providing and using contraception whether in a monogamous or causal relationship is imperative in reducing the burden of disease among this population.

Families have to have a significant change in conversation and dynamic in order for a woman to feel secure enough to trust those around them to speak up and not hide concerns when they feel a sense of vulnerability to their sexual behaviors and relationships.

256 Having knowledge of the impact of education and economic factors on women of 257 reproductive age can be resourceful in establishing job creation and awareness of the 258 importance of education to extend options and form a way out of impoverished households 259 and abusive relationships that can lead to high risk and burden of disease that can be 260 addressed at the societal and policy levels, respectively. Most of the stakeholders and 261 advocates of social change in regards to HIV/STIs affecting vulnerable populations found in 262 townships and in rural areas of South Africa link together with other human rights 263 organizations (i.e. Treatment Action Campaign (TAC)), to spark movements of change, but

are currently under sourced and underfunded. If this continues to occur, health challenges incommunities in most need will continue to be disenfranchised and under-represented.

266 The main recommendation for practice in a community such as Langa is that it is 267 imperative to first get a sense of the dynamics of the community that is involved in the 268 research. This allows dialogue to maintain consistency and also limit risks associated with 269 studying a vulnerable population. Also, development of relationships by the researcher with 270 the community partner assisting in the research from the executive level to the entry level is 271 crucial in maintaining integrity and support throughout the data collection and data analysis 272 stages of the research. At the end of the research, a presentation given by the researcher to the 273 stakeholders in the community—inclusive of the community partner and its' stakeholders 274 allows those involved and even those not directly involved to understand that they were a 275 significant partner in the outcomes of the research done in their community.

276 Conclusion

277 This study focused on the attitudes and behaviors of Black women in the township of 278 Langa in regards to their understanding of the variables that impacted their diagnosis of the 279 STI gonorrhea. The literature stated that this population was most at risk for HIV/STIs and 280 this research has showed that more work needs to be done to consider the individual 281 components of sexual behavior among this population, partnership dynamics, and 282 social/environmental influence. Although preventive methods have been implemented by 283 NGOs like LoveLife, inclusive of their local establishments and clinics, more continuous 284 work is needed to keep the at risk group informed about their risk. The findings from this 285 study can be of great social influence globally because regardless of age, SES or educational 286 level, women feel a need to discuss behavior in a medium that is not judgmental or 287 instructive, but one that fosters openness and support. Quantitative follow-up studies should 288 be conducted to get access to the quantifiable psychosocial determinants of a larger

- 289 population of women in order to tailor support groups and workshops to each particular
- 290 variable to impact this sentinel group.

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