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Drugs, Women and Violence in the Americas: U.S. Quantitative Results of a Multi-Centric Pilot Project (Phase 2)

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Abstract

Objectives—To explore the collective and individual experiences that Latin American females in the U.S. have with substance abuse, violence and risky sexual behaviors.

Methods—This study was conducted in two phases from July 2006 to June 2007 in south Florida. This paper covers Phase 2. In Phase 2, questionnaires were provided to women to test whether there is a relationship between demographics, acculturation, depression, self-esteem and substance use/abuse; whether there is a relationship between demographics, acculturation, depression, self-esteem and violence exposure and victimization; whether there is a relationship between demographics, acculturation, depression, self-esteem, HIV knowledge and STD and HIV/AIDS risks among respondents; and whether there is a relationship between substance abuse, violence victimization and HIV/AIDS risks among respondents.

Results—Participants reported high rates of alcohol and drug abuse among their current or most recent partners. This is a major concern because partner alcohol use and drug use was related to partner physical, sexual and psychological abuse. Only two factors were associated with lifetime drug use: income and acculturation. Over half of the participants reported being victims of at least one form of abuse during childhood and adulthood. A substantial component of abuse reported during adulthood was perpetrated by a currently or recent intimate partner.

Conclusions—The results from this study suggest that substance abuse, violence and HIV should be addressed in an integrative and comprehensive manner. Recommendations for the development of policies, programs and services addressing substance abuse, violence and risk for HIV among Latinos are provided.

Keywords

substance abuse; violence victimization; STDs; HIV; Hispanic; women

Introduction

As the Hispanic/Latino population grows to 13.3% of the U.S. population, health needs for this population become increasingly important. The population is expected to continue to increase and the diversity of the Latino population needs to be analyzed. For this reason it is

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important to study and compare various Latino populations found throughout Latin America and the United States, particularly those targeting Latino women. This paper summarizes the research related to substance abuse, violence and HIV among Latinas in the U.S., summarizes findings of the quantitative portion of a study exploring the experiences of Latino women in the U.S. with regards to these conditions (1) and provides recommendations to governments, researchers and service providers. Please refer to the other article in this issue regarding the qualitative portion of the study as well as the literature review.

Methods

This pilot project was part of a multi-centric research project including various countries in Latin America and the U.S. The study was conducted in two phases and utilized both qualitative (phase one) and quantitative methods (phase two) to gather data on the experiences Hispanic women in the U.S. have with substance abuse, violence and risky sexual behaviors. This paper reports on the results from the second, quantitative phase of the project, which sought to accomplish the following: To examine the relationship among acculturation, depression, self-esteem, substance abuse, violence exposure and victimization, and intimate/sexual relationships; To examine the interrelationship between substance abuse, violence, and intimate/sexual relationships.

- a. The data collected from these questionnaires were used to test the following hypotheses:
- b. There is a relationship between demographics, acculturation, depression, self-esteem and substance use/abuse.
- c. There is a relationship between demographics, acculturation, depression, self-esteem and violence exposure and victimization.
- d. There is a relationship between demographics, acculturation, depression, self-esteem, HIV knowledge and STD and HIV/AIDS risks among respondents.

There is a relationship between substance abuse, violence victimization and HIV/AIDS risks among respondents.

Numerous statistical analyses were used to describe the relationships hypothesized above. Details about the quantitative analysis are described in the methodology section.

Sample and Setting

In order to be eligible for the study, participants had to be women of Hispanic/Latino decent, Spanish, English or Portuguese speaking (according to country) and between the ages of 18 and 60. Non-Brazilian study participants (n=81) were primarily recruited from a community agency in Broward County, where they were recruited with flyers. Additional participants from the Dade and Broward counties were recruited through an article in the local newspaper that described the study and provided readers with contact information and through snowballing sampling methods in where participants encouraged their friends and relatives to also participate. CICAD/OAS (Inter-American Drug Abuse Control Commission, Office of American States) and SENAD (National Anti-Drug Organization in Brazil) required that we purposely recruit and enroll 10 Brazilian women into the study. This component of the sample (n=10) was recruited by a Brazilian research assistant who placed flyers in Portuguese at Brazilian grocery stores and businesses and approached perspective participants in these areas.

Phase Two Methodology

In second phase of the study, individual face-to-face in-depth interviews were used to collect data on the individual experiences that participants have with substance abuse, violence victimization and sexual relationships. Data on the respondent's demographics, level of acculturation, self-esteem and depression were collected using general demographic questions, the Bidimensional Acculturation Scale (2), the Rosenberg Self-Esteem Scale (3), and the CES-D Scale for depression (4) respectively. Although these are not the main outcome variables, they have been identified as being related to the main outcomes of interest (substance abuse, violence victimization and risky sexual behaviors).

Substance abuse was assessed using the TWEAK and the Psycho-active Drug History Questionnaire. The TWEAK, is a five-item questionnaire (7-point scale) that assesses alcohol abuse. The acronym stands for T (tolerance), W (worry), E (eye-openers), A (amnesia) and K (cut down) (5). This is one of the few alcohol abuse instruments that has been developed for and validated among women as well as Hispanics in the U.S. (6,7). The Psychoactive Drug History Questionnaire, a widely used drug use inventory, measured the type of drugs that were used, the amount of years they were used for, if these drugs were injected, and the frequency of used during the last six months (5). An additional column was added to this questionnaire to assess drug use during the last three months.

Exposure to violence was assessed in various sections of the questionnaire. Violence victimization questions are included in the partner table (see description below) and a violence history that assesses exposure to community violence as well as physical, sexual and verbal/psychological abuse during both child and adulthood. The researchers on this team developed these questions. A psychological violence victimization scale, the PMWI-F (short version) (8) was used to further explore verbal/psychological abuse among Latinas. This is a 15-item tool that assesses psychological abuse within intimate relationships. Additional questions relating to this specific area of abuse were added because women are often unfamiliar with this type of abuse and are therefore presumably less likely to report these in an abuse history.

Risky sexual practices and risk for STDs and HIV/AIDS were assessed in the sexual history portion of the questionnaire. The research team developed the questions included in this section, most of which have been used before (9). These questions will assess the risk for STDs and AIDS/HIV. Questions about contraception use and sexual practices were included, as well as an in-depth history of the lifetime partners of the respondent (partner table). Respondents were asked to identify the number of lifetime partners and trace their partners from their current or most recent partner to their first. Data on their sexual practices, exposure to violence and substance abuse during the time they were intimately involved with each partner were documented on the questionnaire. General knowledge about HIV and its prevention were assessed using the HIV Knowledge Questionnaire developed by Heckman et al. (10).

Study participants were required to sign an additional consent form prior to administering the face-to-face questionnaire (Phase 2). The principal investigators and co-investigators trained train bilingual, bicultural graduate students from the University of Miami to assist with conducting the interviews in English and Spanish and the Brazilian research assistant to conduct the interviews in Portuguese. Participants completing this phase of the study were also paid \$50 to compensate them for their time, travel and child care expenses.

Analytical Methods, Phase 2 (Quantitative Data)

Data collected from the questionnaires were analyzed using SPSS (v.14.0) for Windows. Analyses included descriptive statistics of demographic characteristics, acculturation, self-

esteem and depression. The proportion of participants reporting drug and alcohol use, violence exposure and risky sexual practices were also described by category and classification (i.e. cocaine use, sexual harassment, never using condom during vaginal intercourse). Simple, multiple and logistic regression analysis and chi-square analysis was used to explore relationships between demographics, acculturation, depression and self esteem and the outcomes of interest (substance abuse, violence and STD/HIV risks) and to explore relationships between the outcomes themselves. Finally, t-tests were used to explore differences between the Brazilian and non-Brazilian (Hispanic) sub-groups of the sample in regards to the outcomes of interest.

Results and Analysis, Quantitative Results

Demographics

Latino women participating in the study were diverse in respect to their age, country of origin, socioeconomic situations and other socio-demographic variables (See Tables 1 and 2). The average age of participants was 39 years of age ($SD=10.73$) and had spent an average of 9 years in the U.S ($SD=9.30$). Participants represented almost all countries in Latin America, with the largest proportion of participants coming from Colombia (42.4%), Venezuela (12.0%), Brazil (10.9%) and Ecuador (7.6%). All participants had a high level of non-U.S. acculturation (100%), while many were highly acculturated to the U.S. (41.3%) and were therefore, also considered bicultural according to the Bidimensional Acculturation Scale (2). As typically found within Latino cultures, the majority of participants reported being Roman Catholic (60.9%) and being influenced at least somewhat by their religious beliefs (83.7%). A large proportion of participants were married (57.6%) and currently living with a partner (62.0%). They had an average of 1.65 children ($SD=1.26$). The majority of participants were also not employed (56.5%). Consequently, they had an average monthly income of less than \$1,000 ($M=955.54$, $SD=1316.07$). Their household monthly income was little higher ($M=2,554.18$, $SD=1735.13$), but still low considering that an average of 3.46 people ($SD=1.26$) lived off of this money. Although they had a low income, participants had a relatively high level of education. In fact, 89.1% had either graduated from high school or had obtained their GRE. The average years of education of participants was over 14 years ($M=14.25$, $SD=3.75$), signaling that the majority of participants had obtained at least some years of college level education. Only 23.5% of the sample had access to private or public insurance. The remainder of the participants paid their health care out of pocket (28.3%), had not access health care in the U.S. (17.4%), found a health center where they gave them reduced prices because of their no insurance status (10.9%) or returned to their countries of origin when they needed to access care (2.2%).

Psychological Variables

Participants scored high on the CES-D scale. The mean score for participants was 14.90 ($SD=11.83$), which was very close to the clinical depression cut-off point of a score equaling 16 and above. When this variable was dichotomized to separate those above and below the clinical cut-off point, 39.1% of the participants had probable clinical depression. Despite high rates of depression, they had relatively high levels of self-esteem according to the results of the Rosenberg Self-esteem Scale. In a scale ranging from 10 to 40, in where 10 is the poorest self-esteem and 40 is the greatest, participants scored an average of 34.79 ($SD=4.52$). The relationship between demographics, acculturation, depression and self-esteem and the outcomes of primary interest (substance abuse, violence and HIV risks) will be described in the following sections. This will be followed by the results of the analysis testing relationships between the primary outcomes and differences identified between Non-Brazilian and Brazilian sub-groups.

Substance Abuse

Alcohol use and lifetime and 3 month drug use were relatively low among the sample of participants. The majority of participant reported either never drinking alcohol or only drinking on special occasions, once or twice a year (58.7%). Fewer drank once a month or once a week (17.4% each), various times a week (4.3%) or once a day (2.2%). Participants also reported drinking few alcoholic beverages during occasions when they did drink ($M=1.32$, $SD=1.30$). Wine (37.0%), mixed drinks (15.2%) and beer (14.1%) were the most common alcoholic beverages participants drank during these occasions. Less than a third of the sample (28.3%) reported using/ experimenting with any illicit or non-illicit drug (excluding alcohol) included in the Psychoactive Drug Inventory during their lifetimes, while few reported any drug use during the last three months (5.4%). Among the illicit drugs included in the inventory, cannabis (8.7%) and cocaine/crack (4.3%) were the most frequently abused drugs participants reported abusing during their lifetimes. Among the non-illicit drugs, benzodiazepines (17.4%) were the most frequently used drugs participants reported using during their lifetimes. A very small proportion of these lifetime users reported also using these drugs during the past three months (all less than 2.2%). Reported alcohol and substance abuse rates were much higher among participant's current or most recent partner. In fact, 10% of participants reported that their partners were almost always drunk and 4.4% reported that they were almost always high on drugs. Occasional use was even greater (See Table 3).

When the relationship between years in the U.S., age, years of education, income and risk for alcoholism in a logistic regression model, the only relationship that was significant was found between individual monthly income and risk for alcoholism ($p=.004$). Participants who earned over the mean income were over five times more likely ($OR=5.70$, $CI=1.74$, 18.70) to score in the high risks categories of the TWEAK than those who earned under the mean income. High U.S. or non-U.S. acculturation, depression and self-esteem were not related to risks for alcoholism.

When lifetime drug use was used as the outcome, the only demographic variable that was a significant predictor was years of education ($OR=1.16$, $CI=1.005$, 1.344 , $p=.04$). While the score on the non-U.S. acculturation was not related to lifetime drug use, the score on the U.S. acculturation was ($p=.008$). Individuals who more acculturated to the U.S. were more likely to report lifetime drug use than individuals who scored lower on this sub-scale of the BAS ($OR=1.087$, $CI=1.02-1.15$). Because of low rates of drug use in the last 3 months (cells with $n < 5$), this outcome was not examined.

Violence

Unlike substance abuse, there were alarmingly high rates of child abuse, adult abuse and IPV. The majority of participants reported being victims of at least one form of child abuse (56.5%). The most common type of child abuse reported by participants was psychological abuse (40.25%), followed by sexual abuse (35.9%) and physical abuse (25.0%). Even a greater proportion of participants reported being victimized as adults. In fact, 67.4% reported at least one form of abuse. Like with child abuse, psychological abuse (66.3%) comprised the highest proportion of victimizations, followed by physical abuse (44.6%) and sexual abuse (23.9%). A large proportion of participants also reported being victimized by their current or most current partner. Almost half of the participants (45.6%) of participants reported being screamed at by their partner in a frightening way (psychological abuse). A large proportion of participants also reported being hit or hurt (23.3%) (physical abuse) and being forced into sex (11.1%) (sexual abuse). A significant proportion of participants also reported having to call upon someone for help (25.6%), having to leave the house (20.0%), seeking medical attention (12.2%) and calling the police (11.1%) because of their partner's

behavior (See Table # 7). Even higher levels of psychological abuse were detected using the PMWI-F. In fact, the mean score was 24.59 ($SD=11.82$). Given the cut-off score of 14, 83.1% reported some form of psychological abuse identified through this scale.

When the participants number of years in the U.S., their age, years of education, income and marital status were included in a logistic regression model with child abuse (physical, sexual and psychological) as the outcome, the only demographic variable that predicted any type of child abuse was income. Participants with a higher income were more likely to report sexual abuse during childhood than individuals with lower incomes, although the increase in risk was small ($OR=1.001$, $CI=1.000$, 1.001 , $p=.015$). While acculturation was not related to any type of child abuse, the psychological measures were related to some forms of abuse. Individuals with a better self esteem were less likely to report physical abuse ($OR=.899$, $CI=.800$, $.997$, $p=0.28$) and sexual abuse ($OR=.899$, $CI=.816$, $.991$, $p=.033$). However, self-esteem was not related to psychological abuse. On the other hand, depression was only related to psychological abuse during childhood ($p=.029$). Individuals with higher scores of depression were more likely to report psychological abuse ($OR=1.042$, $CI=1.004$, 1.081).

When adult abuse was used as the outcome, demographic variables and acculturation were not significant predictors of physical, sexual or psychological abuse. Self-esteem was related to physical and psychological abuse, but not sexual abuse during adulthood. Those with a higher self esteem were less likely to report physical ($OR=.892$, $CI=.809$, $.983$, $p=.022$) and psychological abuse ($OR=.896$, $CI=.804$, $.998$, $p=.047$). Depression was related to all three forms of adult abuse. Individuals with higher depression scores were more likely to report physical ($OR=1.045$, $CI=1.007$, 1.085 , $p=.021$), sexual ($OR=1.041$, $CI=1.001$, 1.083 , $p=.047$) and psychological abuse ($OR=1.052$, $CI=1.006$, 1.100 , $p=.025$).

When victimization by a current or most current partner was used as the outcome (physical, sexual, psychological), demographic variables and acculturation were not predictors of any form of abuse. Self-esteem was only a predictor of psychological abuse. Those with a higher self-esteem were less likely to report psychological abuse by a current/most current partner ($OR=.908$, $CI=.824$, 1.000 , $p=.049$) in a logistic regression model and had a lower score on the PMWI-F in a linear regression model ($\beta=-.686$, $SE=.272$, $t(81)=-2.49$, $p=.015$). Depression scores were related to all forms of partner abuse. Those with a higher depression score were more likely to report physical abuse ($OR=1.044$, $CI=1.003$, 1.086 , $p=.036$), sexual abuse ($OR=1.051$, $CI=1.001$, 1.092 , $p=.012$), and psychological abuse both in the partner table ($OR=1.051$, $CI=1.011$, 1.092 , $p=.012$) and in the PMWI-F ($\beta=.446$, $SE=.101$, $t(81)=4.412$, $p < .001$).

HIV Risks

Numerous HIV risks were identified among the women in the sample, however, these varied significantly. Although participants reported an average of 3.76 partners ($SD=3.76$) during their lifetimes, these varied from having no partners to 20. The sample also performed poorly on the HIV knowledge component of the questionnaire. In fact, on average, participants answered less than 9 out of the 12 questions correctly ($M=68.88$, $SD=19.62$). They also reported low rates of condom use. Among those reporting participating in vaginal, oral and anal sex with a current/most current partner, only few reported consistent condom (8.9%, 5.6% and 3.3% respectively). Some participants reported a history of sexually transmitted infections (STIs). The most prevalent of these was trichomonas (5.4%), herpes (4.3%), pelvic inflammatory disorder (4.3%), and vaginal warts (3.3%).

Women also reported high risks behaviors among their partners. While only 2.2% reported that their partners had injected drugs at some point in their lives, 6.7% did not know if they had. Similarly, while 4.4% percent reported that their partners had had sex with men, 12.2%

reported that their partners had sex with commercial sex workers (CSW), and 2.2% reported that their partner had sex with someone with an intravenous drug use (IDU), a greater proportion of them reported not knowing if their partners had participated in these behaviors (7.8%, 30.0% and 16.7% respectively). Among participant's current/most current partner, 58.9% of participants reported that their partner had been previously tested for HIV, 24.4% reported that they had not, and 16.7% of the participants did not know if their partners had been tested or not (See Table 5).

Three different outcomes (HIV knowledge, number of sexual partners and consistent condom use) were used to assess the relationship between demographics, acculturation, self-esteem and depression and HIV risks among participants using logistic and linear regression models. The only demographic variable related to HIV knowledge was years of education ($\beta=1.258$, $SE=.536$, $t(90)=2.348$, $p=.021$). HIV knowledge was also related to non-US acculturation. The more acculturated participants were to their countries of origin the lower they scored on the HIV knowledge questionnaire ($\beta=-1.141$, $SE=.585$, $t(90)=2.11$, $p=.018$). Self-esteem and depression were not related to HIV knowledge. Year in the U.S. was the only demographic predictor of number of partners. With every increase in years one the U.S., there was an increase in the number of partners ($\beta=.063$, $SE=.031$, $t(90)=1.999$, $p=.049$). This relationship between years in the U.S. and number of partners becomes stronger when, age is controlled for ($\beta=.073$, $SE=.032$, $t(89)=2.27$, $p=.025$). Similarly, participants scoring higher on the U.S. acculturation subscale, reported a higher number of partners ($\beta=1.69$, $SE=.042$, $t(90)=4.037$, $p<.001$). Self-esteem and depression were not related to the number of partners participants reported. The last HIV risk outcome assessed was consistent condom use. After dichotomizing condom use into consistent (always using a condom) and inconsistent condom use (occasional use or never using) and running a logistic regression analysis, no variables were significant predictors.

Substance abuse, violence and risky sexual behaviors

The relationships between substance abuse outcomes (TWEAK code, lifetime drug use), violence outcomes (child, adult and current/most recent partner physical, sexual, and psychological abuse, PMWI-F) and HIV risks (number of lifetime sexual partners, condom use with current/most recent partner and HIV knowledge, partner's risk behaviors such as substance abuse and sex with men, commercial sex workers, injection drug users) were explored using chi-square analysis and Pearson correlations. The significant relationships between these variables are summarized in Tables 6 and 7. As noted when reviewing Table 6, the partner's substance abuse and risky sexual behaviors appear to more closely related to the participants risk for violence than their own behaviors. While participants alcohol and drug use was not related to their exposure to any form of abuse, partner alcohol use and drug use were related to partner sexual abuse, $X^2(5, N=90)=14.14$, $p=.015$ and $X^2(5, N=90)=13.176$, $p=.017$ respectively. Partner alcohol use was also related to condom use, $X^2(10, N=90)=21.54$, $p=.018$. Partner intravenous drug use, was not only related to partner physical and sexual abuse, but also to participants physical and sexual victimization as children. Partner ever having sex with an IDU, men and CSW was also related to various forms of child and partner abuse. In fact, participants' responses in regards to whether their partners had ever had sex with men was related to all forms of adult abuse ($p<.01$ for all types).

Relationships between substance abuse, violence and HIV risk were also established through Pearson correlations (see Table 7). The participants' score on the PMWI-F questionnaire, which measured psychological violence, was related to their partner's alcohol use ($r=-.345$, $p=.001$) and partner's sex with IDUs ($r=.380$, $p<.001$) and men ($r=.279$, $p=.011$). As expected, there was a high correlation between the score on the PMWI-F and their exposure to child, adult and partner abuse ($p<.03$ for all types). However, participant's alcohol and

substance abuse were not related. HIV knowledge was only related to the number of sexual partners participants reported in their lifetime ($r=.215$, $p=.04$). Participant's substance abuse, condom use, exposure to violence and partner's risks were not related. Finally, participant's number of lifetime partners were related to their lifetime drug use ($r=.320$, $p=.002$) and HIV knowledge ($r=.215$, $p=.04$). However, the number of sexual partners was not related to violence victimization or any partner risks.

Differences between Brazilians and non-Brazilian Latinas (Hispanics)

Although comparisons between sub-grouping of Latinas was not within the aims of this pilot project, it is important to briefly summarizing some notable differences that must be considered when interpreting the results of this study. Although Hispanics and Brazilians were similar in respect to the average number of years they had lived in the U.S. ($M=9.04$, $SD=12.73$ and $M=11.52$, $SD=7.29$, respectively), average age ($M=39.06$, $SD=11.10$ and $M=41.90$, $SD=6.87$, respectively), years of education ($M=14.32$, $SD=3.92$ and $M=13.70$, $SD=1.89$, respectively), the Brazilian women earned a significantly higher monthly salary than Hispanics ($M=2398.00$, $SD=1316.07$ versus $M=505.24$, $SD=802.44$). While they did not differ significantly between their levels of acculturation and depression and self-esteem scores, the Brazilian group scored significantly higher on the HIV knowledge test when compared to Hispanics ($M=85.83$, $SD=9.66$ vs. $M=66.81$, $SD=19.56$, $t(90)=-3.02$, $p=.003$). The Brazilian group also had a significantly higher mean number of lifetime sexual partners than Hispanics ($M=9.40$, $SD=5.21$ vs. $M=3.2$, $SD=3.11$, $t(90)=-3.09$, $p=.012$). These two groups did not differ on any other outcome variables. The differences between these two groups may have played a role in the relationships between variables that were explored in this study.

Conclusions

Both the results from the focus groups and the interviews stress the need of addressing substance abuse, violence and risky sexual behaviors among Latinos in the U.S. Although there were not alarming rates of substance abuse (i.e. lifetime drug use, number of sexual partners) reported by participants of the study, participants reported high rates of alcohol and drug abuse among their current or most recent partners. This is a major concern because partner alcohol use and drug use was related to partner physical, sexual and psychological abuse. Only two factors were associated with lifetime drug use. The first of these was income. However, contrary to expected, those with a greater income were more likely to report drug abuse. Acculturation was also related to lifetime drug use. Latinas who were more acculturated to the U.S. culture were more likely to report drug abuse. Perhaps if this sample was comprised of a greater proportion of highly U.S.-acculturated Latinas, reported substance use and abuse rates would be more substantial.

An alarmingly high prevalence of abuse was reported by the participants of the study. Over half of the participants reported being victims of at least one form of abuse (physical, sexual and/or psychological) during childhood and adulthood. A substantial component of abuse reported during adulthood was perpetrated by a currently or recent intimate partner. Individuals who reported abuse had a lower self-esteem and higher scores of depression according to the CES-D. This relationship was supported by the results of the qualitative content analysis, which not only identified the cycle of abuse as one of the main themes, but also stressed the importance that self-esteem played in the victimization process. Although being victimized was not related to the participants' substance abuse and risky sexual behaviors, they were related to these outcomes among their partners. In fact, individuals reporting being childhood or partner physical or sexual abuse were more likely to report partner drug use. All forms of partner abuse were also related to participant's responses to their partners ever having sex with men. Notably, scores on the PMWI-F measuring partner

psychological abuse were higher among participants that reported physical child abuse and all forms of adult and partner abuse, thus signaling that psychological abuse often accompanies other forms of violence.

Finally, although the number of lifetime sexual partners was not high among the participants, there were very low rates of consistent condom use with their current or most recent partner. Participants also had poor knowledge of HIV and its risk factors. Individuals that were more acculturated to their countries of origin (non-U.S. acculturation) scored lower on HIV knowledge. Although this may have indicated a positive effect of acculturating to the U.S. in regards to HIV risk, there also appears to be stronger negative effects. In fact, the more years that one spent in the U.S. and the more acculturated participants were to the U.S. culture, the higher number of partners they reported. However, none of these predictors were also related to consistent condom use. It could therefore be interpreted that although Latinas may have more sexual partners as they acculturate to the U.S. and perhaps have a greater knowledge about HIV, they still do not practice consistent condom use. This is especially worrisome considering the high level of risk behaviors found among their partners. Concerns about their partners' infidelity and their inability to negotiate condom use with them were also supported in the focus group discussions. This is important note since alcohol and drug use was found to be related to violence.

This study contributes to the current state of knowledge by providing an in-depth analysis of the experiences Latinas have with substance abuse, violence and risk for HIV as described from both a qualitative and quantitative perspective. This knowledge can serve as the basis for future research in this area, the development of health programs and services targeting similar Latino populations and guide the development of policies directed towards this population.

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The investigators in the U.S. collaborated closely with researchers in Latin America, who were also studying substance abuse, violence and risky sexual practices among women in their communities. This collaboration began as a result of a CICAD/OAS (Inter-American Drug Abuse Control Commission, Office of American States) and SENAD (National Anti-Drug Organization in Brazil) initiative that aimed to target drugs and violence among various countries in Latin America and the U.S.

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Table 1

Demographic Characteristics of Study Participants-Continuous Variables (N=92)

Variable (N=92)	Mean (M)	Range	SD
Age	39.37	(19–60)	10.73
Years in the U.S.	9.31	(.17–85)	9.30
Number of Children	1.65	(0–6)	1.26
Number of children living with participant	1.16	(0–3)	.99
Years of education	14.25	(0–25)	3.75
Number of months working at current job (n=39)	23.89	(.08–276.00)	49.41
Participant monthly income (US dollars)	955.54	(0 – 10,000)	1316.07
Household monthly income (US dollars)	2,554.18	(200 – 10,000)	1,735.15
Number of people living off of monthly income	3.46	(1–7)	1.26

Table 2

Demographic Characteristics of Study Participants- Categorical Variables (N=92)

Variable (N=92)		(%)
Country of Origin		
	Colombia	42.4
	Venezuela	12.0
	Brazil	10.9
	Ecuador	7.6
	Honduras	4.3
	Republica Dominicana	4.3
	Mexico	3.3
	Peru	3.3
	Argentina	3.3
	Cuba	2.2
	Puerto Rico	2.2
	United status	2.2
	Costa Rica	1.1
	Uruguay	1.1
Currently living with partner (Yes)		
		62.0
Marital Status		
	Single	19.6
	Single, living with partner	5.4
	Married	57.6
	Divorced	8.7
	Separated	6.5
	Widowed	2.2
Religion		
	Roman Catholic	60.9
	Protestant	3.3
	Jehovah Witness	0.0
	Baptist	1.1
	Evangelist/Pentecostal	13.0
	Other Christian	9.8
	Other non-Christian	8.7
	No religion	3.3
Influence of religious beliefs on daily life		
	Not in any way	12.0
	A little	38.0
	A lot	45.7
	Not applicable	4.3

Variable (N=92)	(%)
High school graduate/GED (Yes)	89.1
Currently employed (Yes)	43.5
Health insurance status	
Private (via work)	15.2
Private (self-paid)	8.7
Medicaid/Medicare	6.5
Insurance paid covered by partner	1.1
No insurance, out of pocket	28.3
No insurance, does not pay	5.4
Has not accessed health services	17.4
Health plan for indigent populations	10.9
Returns to country for care	4.3
Other	2.2
Acculturation	
High U.S. acculturation	41.3
High Non-U.S. acculturation	100.0
High on both (Bicultural)	41.3

Table 3

Reported alcohol use, risk for alcoholism (TWEAK), illicit and non-illicit drug use during their lifetime and past 3 months and current/most recent partners' alcohol and substance use.

Variable (N=92)	(%)
Frequency of Alcohol Use	
Never	26.1
Once or twice a year	32.6
Once a month	17.4
Once a week	17.4
Various times a week	4.3
Once a day	2.2
TWEAK	
Low Risk	83.7
Risk for Alcoholism	7.6
Probable Alcoholism	8.7
Any Drug Use (lifetime/past 3 months)	(life) (3mos) 28.3 5.4
Illicit Drug Use (lifetime/past 3 months)	(life) (3mos)
Cannabis	8.7 2.2
Cocaine/Crack	4.3 1.1
Stimulants	1.1 0.0
Amphetamines	1.1 0.0
Heroin	1.1 0.0
Methadone	0.0 0.0
Hallucinogens	1.1 0.0
Inhalants	0.0 0.0
Non-Illicit Drug Use (lifetime/past 3 months)	(life) (3mos)
Benzodiazepines	17.4 2.2
Opiates	3.3 0.0
Sedatives	0.0 0.0
During relationship with current/most recent partner, with what frequency was he drunk?	
Almost always	10.0
Occasionally	48.9
Never	40.0
Don't know	1.1
During relationship with current/most recent partner, with what frequency was he high on drugs?	
Almost always	4.4
Occasionally	11.1
Never	82.2
Don't know	2.2

Table 4

Reported abuse during childhood, adulthood and with current or most current partner

Variable (N=92)	(%)
Child Victimization	
Physical	25.0
Sexual	35.9
Psychological	40.2
At least one form	56.5
Adult Victimization	
Physical	44.6
Sexual	23.9
Psychological	66.3
At least one form	67.4
Violence with most current Partner (N=90) *	
Forced Sex	11.1
Hit or hurt in any way	23.3
Screamed in a frightening way	45.6
Called upon someone for help	25.6
Had to leave the house	20.0
Had to seek medical attention	12.2
Had to call the police	11.1

* Two participants reported no history of sexual partners

Table 5

HIV knowledge and reported HIV risks among participants and their current/most current partners

Variable (N=92)	(%)
Tested for HIV at some point in their lives (Yes)	83.7
History of Sexually Transmitted Infection	
Syphilis	0.0
Herpes	4.3
Vaginal warts	3.3
Pubic lice	1.1
HIV	0.0
Hepatitis	2.2
Gonorrhea	0.0
Chlamydia	1.1
Trichomonas	5.4
Pelvic Inflammatory Disorder	4.3
Condom use with current/most current partner (vaginal sex) (N=89)	
Always	8.9
Sometimes	60.0
Never	31.1
Condom use with current/most current partner (oral sex) (N=66)	
Always	5.6
Sometimes	10.0
Never	60.0
Not Applicable	24.4
Condom use with current/most current partner (anal sex) (N=19)	
Always	3.3
Sometimes	6.7
Never	17.8
Not Applicable	72.2
Had sex with partner while he was under the influence of alcohol (N=90)	
Almost always	4.4
Occasionally	47.7
Never	47.8
Had sex with partner while he was under the influence of drugs (N=90)	
Almost always	3.3
Occasionally	12.2
Never	84.4
Partner has injected drugs	

Variable (N=92)		(%)
	Yes	2.2
	No	91.1
	Don't know	6.7
Partner has had sex with men		
	Yes	4.4
	No	87.8
	Don't know	7.8
Partner has had sex with commercial sex worker		
	Yes	12.2
	No	57.8
	Don't know	30.0
Partner has been tested for HIV		
	Yes	2.2
	No	81.1
	Don't know	16.7

Chi-square analysis testing relationships between substance abuse, child, adult and partner physical (phy), sexual (sex) and psychological (psy) violence and risks for HIV risks.

Table 6

Categorical Variables	Child Phy	Child Sex	Child Psy	Adult Phy	Adult Sex	Adult Psy	Partner Phy	Partner Sex	Partner Psy	Condom use
Alcohol Use (lifetime)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Drug Use (lifetime)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Condom Use	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Partner Alcohol Use	NS	NS	NS	NS	NS	NS	NS	$\chi^2(6, N=90)=14.14, p=.015$	NS	$\chi^2(10, N=90)=21.54, p=.018$
Partner Drug Use	NS	NS	NS	NS	NS	NS	NS	$\chi^2(5, N=90)=13.176, p=.017$	NS	NS
Partner IDU *	$\chi^2(2, N=90)=6.45, p=.04$	$\chi^2(2, N=90)=6.27, p=.043$	NS	NS	$\chi^2(2, N=90)=6.71, p=.035$	NS	$\chi^2(2, N=90)=7.22, p=.027$	$\chi^2(2, N=90)=19.93, p<.001$	NS	NS
Partner ever sex with IDU			$\chi^2(2, N=90)=6.36, p=.042$				$\chi^2(2, N=90)=6.60, p=.037$			
Partner ever sex with men	NS	NS	NS	NS	NS	NS	$\chi^2(2, N=90)=10.69, p=.005$	$\chi^2(2, N=90)=7.92, p=.019$	$\chi^2(2, N=90)=10.60, p=.005$	NS
Partner sex with CSW **	$\chi^2(2, N=90)=9.29, p=.01$	NS	NS	NS	NS	NS	NS	NS	NS	NS

* IDU=Intravenous Drug User

** CSW=Commercial Sex Worker

Table 7

Pearson Correlations between substance abuse, violence and risks for HIV

Continuous Variables	Significant Variables
Psychological Maltreatment (8)	Partner Alcohol Use ($r=-.345, p=.001$) Partner Sex with: IDU ($r=.380, p<.001$), Men ($r=.279, p=.011$) History of: child physical abuse ($r=.230, p=.037$), adult physical abuse ($r=.229, p=.037$), adult sexual abuse ($r=.379, p<.001$), adult psychological abuse ($r=.407, p<.001$), and current or most recent partner forced sex ($r=.671, p<.001$), hit/hurt ($r=.512, p<.001$) and frightened ($r=.543, p<.001$). Participants alcohol and drug use were not significant
HIV Knowledge (10)	Participant's number of sexual partners ($r=.215, p=.04$) Partner substance abuse and sexual risk behaviors were not significant Participant's exposure to violence was not significant
Number of Sexual Partners	Participant lifetime drug Use ($r=.320, p=.002$) Participant HIV knowledge ($r=.215, p=.04$) Partner risk behavior, other personal risk behavior (other than drug use) and violence victimization were not significant