

A Systematic Review of the Literature: Exploring Correlates of Sexual Assault and Homelessness

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Abstract

Sexual assault is a traumatic event and the aftermath can be devastating. Victims who of sexual assault may experience comorbid issues while trying to recover from this trauma, such as homelessness. Whether the victim is trying to escape an abusive home situation or is being sexually molested while serving in the armed forces, homelessness has been observed as a trend among those impacted. The purpose of this systematic literature review (SLR) was to provide an extensive summary of the impact that sexual assault has on an individual's life and to also provide information regarding the number of articles pertaining to sexual assault and homelessness. A systematic approach was used to analyze the available literature; using keywords to help identify important articles that were pertinent to the topic. The outcome of the literature review revealed a total of 25 relevant articles relating to the key words. This literature indicated that further education is imperative for caregivers or social workers to better understand the symptoms associated with adolescent homelessness and runaway-ism, as most homeless youth will also meet the criteria for psychiatric disorders.

Keywords: Sexual assault; Homelessness; Systematic literature review; Long-lasting effect

Introduction

There are an estimated 800,000 to 2 million youth who become homeless each year in the U.S. Among these, approximately 40% will never return home [1]. Causes of runaway behavior vary depending on the individuals, reasons including, but not limited to, family conflict, escape from family violence, desire for independence and financial circumstances [2]. According to Terrell, "one in eight adolescents will run away from home prior to his or her 18th birthday. In addition, when a child is from a single-parent household or a household with eight or more persons, figures almost double" [3]²⁶⁸. Studies conducted in the 1990s estimate that 70% of homeless adolescents were physically and/or sexually abused [3]. Although not as common, some youth run away from home for the freedom and lack of structure but unfortunately they soon realize they have put themselves at an increased risk to become a victim of assault [3].

Studies have found that gay, lesbian and bisexual homeless youth experience higher rates of victimization than heterosexual youth because of the increased rates of abuse, both physical and sexual, in the home [4]. Gay, lesbian and bisexual youth also experience higher rates of family conflict and lack of support. Higher rates of abuse while living on the streets have been reported among gay, lesbian and bisexual homeless youth [4].

Homeless youth and adolescents are not the only population to experience sexual assault. On any given night, up to 300,000 women

across the nation are without a home [5]. Rates of abusive history are higher among homeless persons than the general population, and are also higher among women than men [5]. A survey of the Los Angeles area found that only 4% of single men were sexually assaulted while homeless compared to 16% of single women [6].

Another population that has limited research is the homeless who are victims of military sexual assault or trauma. Female veterans report less combat exposure than their male counterparts but report higher rates of sexual assault and harassment. Female veterans are at a higher risk of homelessness when measured against non-veteran females [7]. Although majority of military sexual trauma is experienced by females, it is not completely nonexistent among men. Of the homeless population who report to the Veteran Health Administration, 39.7% of females and 3.3% of males are victims of military sexual assault [8].

Based on the research that was obtained, historically, mental illness has played a major role in sexual assault and homelessness. As of 1995 majority of the research on the development of services was based on observations of homeless mentally ill men or housed mentally ill women [9]. A lack of research has been recorded by Goodman regarding the high levels of victimization among the homeless mentally ill population, especially women. Her study sought to change that problem [9]. Since her research, there have been several additional studies on the topic of homeless women who may also have a mental illness.

Existing research regarding sexual assault and homelessness varies depending on the location and specific demographic that is being studied. Youth and adolescent populations seem to be the most

common, followed by females who may or may not have dependents. However, research appears scarce in regards to military sexual assault in relationship to becoming homeless, as well as homelessness and sexual assault correlation among a wider variety of demographics and populations. A review of the existing literature is needed to evaluate the breadth of existing data, as well as underline gaps that must be filled. Given the astonishing prevalence of homeless individuals, it is important that professionals have at their disposal information for use in education, therapy, interventions, and advocacy for the various populations that are affected. With a more comprehensive academic description of these trends, professionals may use this data to more effectively prevent assaults and assist those already victimized.

This systematic literature review was completed by utilizing online library resources generated by East Carolina University. The variables for this literature review were defined as homelessness and sexual assault. No hypothesis is recorded, as this was an exploratory study. The purpose of this review was to provide a comprehensive report of the available research regarding the correlation of sexual assault and homelessness. The researchers were interested in the number of studies to begin to understand the scope of the problem, which was a limited amount of data available in regards to specific demographics. Articles were selected using the keywords 'sexual assault' and 'homelessness' to assess the amount of research that was available.

Search Methods

This study was completed using a systematic literature review using the guidelines in Figure 1. A systematic literature review is a carefully organized, comprehensive, and transparent studies of previous research on a particular topic [10]. This research follows written protocols that specify their central objectives, concepts, and methods in advance [10]. This review explores sexual assault and homelessness using Figures 1 and 2. A search for relevant articles was conducted by utilizing the key words 'sexual assault' and 'homelessness'. Multiple databases were searched including SocIndex with full Text; Academic Search Complete, ERIC, LGBT Life, PsycARTICLES, PsycINFO, and Women's Studies International. The search resulted in articles that ranged from 1988 to current 2015 studies (Tables 1 and 2). Dissertations, books, magazines, and articles that did not match the specified key words were then omitted from the results list. The search was also limited to peer reviewed scholarly articles. Following the systematic review shown in Figure 1 the search revealed N=25 articles, 20 of these being within the last 10 years. Prior to the year 1989, research was extremely limited, and possibly nonexistent depending on the specific geographic location desired for study. The 20 articles consisted of only peer reviewed scholarly articles. The 25 articles were selected based on key words and relevancy to the topic studied.

In conducting a systematic literature review there are a variety of designs and measures. Of the articles revealed (N=25), the measures consisted of checklist, face-to-face interviews, focus group interviews, telephone interviews, registries, self-administered questionnaires, surveys, short forms, psychometric instruments, Wechsler Abbreviated Scale of Intelligence, and structured assessments. The research designs consisted of an AB design, case-control study, qualitative articles, national cross-sectional study, cross-sectional, observational study, multivariable logistic regression; a secondary analysis of data collected from a previous cross-sectional study, systematic review, and probability based sampling design, longitudinal diagnostic study,

empirical study, and systematic sampling strategy. Articles contained a variety of participants, consisting of youth, young adults, men, and women of all races. The researchers found their participants at shelters, drug rehabilitation programs, on the street, specialized homeless veteran programs, drop-in centers, and meal locations. Most of this research took place in the U.S, but there were also articles that involved research from the United Kingdom, Canada, and Australia. During the research process, the literature that was reviewed indicated that majority of participants left home because of some type of abuse going on in the home.

1. Defining the review question and developing criteria for including studies: How many articles are in the professional literature regarding sexual assault and homelessness?
2. Searching for studies: The following search engines were used: ERIC, PsycARTICLES, Social Work Index, Academic Search Complete, LGBT Life with Full Text, PsycINFO, Women's Studies International
3. Selecting studies and collecting data: Using key words, each article was reviewed for relevance. A nominal list of articles was constructed and a total of 80 articles were evaluated. 25 articles were selected for the literature review.
4. Assessing risk of bias in included studies: A bias that was encountered was assuming that all sexual assault victims are low income, female and victimized by a male.
5. Analyzing data: Unit of Analysis is the literature review sheets that are completed for each article. N=25
6. Addressing and reporting biases: Limiting selected articles to peer reviewed articles in a specific geographic location.
7. Presenting results and "summary of findings" tables: See Table 2.
8. Interpreting results and drawing conclusions: After analyzing and assessing the results from the systematic literature review, several

Figure 1: Cochrane systematic review.

Results

As shown in Tables 1 and 2, research studies have provided a substantial amount of information regarding the topic of homelessness and history of sexual assault. The findings of the 25 articles that were located can be organized into several bodies of information (Table 3).

Research Question: How many articles are in the professional literature regarding sexual assault and homelessness?	
1. Revised Research Question	
2. Purpose: To determine if a history of sexual assault is an indicator of homelessness	
3. Revised Purpose: To create an understanding of the number of articles found in the literature	
4. Title: Exploring Sexual Assault and homelessness using a Systematic Literature Review	
5. Variables: Homelessness and Sexual Assault	
6. Attributes: 25 articles (unit of analysis)	
7. Level of Measurement: ratio	
8. Hypothesis: no hypothesis – exploratory study	
9. Design: systematic literature review; see Figure 1	
10. Issues with Feasibility: Initial limitations on quantity of articles	
11. Literature Review:	
12. Outcome: N=25	
13. Level of Competency before Class: Low	
14. Level of Competency after Class	
15. What other information do you need to continue? Nothing, literature review is complete	

Figure 2: Research question and purpose.

concurrent with different patterns of homelessness. Rew's study determined that homeless youth experienced more sexual abuse than those with a home [11]. Heslin et al. attributed lack of personal protective shelter as a cause of violence, including sexual, to the homeless [6]. Regarding sexual abuse among homeless youth, Whitbeck et al. [12] found that their lives are characterized by a high frequency of sexual trauma, and according to Tyler et al. [13] between one-third and one-half of this demographic were found to be affected since becoming homeless. In an earlier study, Tyler found that among homeless youth, lesbian, gay, or bisexual individuals were more likely to experience victimization [4]. Sundin et al. reported that sexual assault among homeless youth was more prevalent in Western countries than the projected average of the world [14]. Three articles reported the willingness of homeless abuse victims to seek help. Tyler et al. stated that women are more likely than men to report any sexual assault or abuse and those minorities are more likely to be discrepant reporters [15]. However, Maas et al. found in an earlier study that women may be reluctant, due to feelings of shame, guilt, and fear [2]. In addition, youth without a high school diploma were more likely to be interested in treatment options [1].

Eight articles made suggestions of sexual or physical abuse being predictive or causative of homelessness or running away from home in youth and women. As part of their study, Davies-Netzley et al. found 76.7% of homeless women reported abuse during childhood [16]. Studies by Maas et al., Powers et al. and Ferguson determined among homeless youth that childhood abuse and neglect, including that of a sexual nature, was a preceding occurrence in fleeing their households [2,17,18]. In a self-report collection, Terrell observed that one in eight youth will run away from home before their 18th birthday [3]. The data of Johnson et al. indicted that female adolescent victims of sexual assault were more likely to leave their home following abuse within the household [19]. The only study on homeless women who ran away from their households following domestic abuse was performed by Whitbeck et al. which identified two-thirds of homeless women were badly beaten or raped by their partner, and over half of these women were sexually assaulted in some form other than rape [20]. Hudson et al. additionally found of homeless women that one-third were abused as minors, either physically or sexually [21].

Eleven of the articles reviewed concerned the extent of sexual assault among homeless individuals. Washington et al. [10] found that sexual assault was a characteristic of homelessness in addition to Tsai [7], the latter also indicated that different types of sexual trauma were

Study	N	Activities	Research Design	Measures	Statistical Analysis	Outcomes
Trauma experience among Homeless Female Veterans.	1	Funded specialized homeless veterans programs.	AB Design	*Exposure to trauma was assessed with the Life Events Checklist. *Self-reporting.	*N=581, 121 reported rape, 176 reported sexual assault during military duty. *Descriptive statistics summarized participant's baseline. *Linear mixed models and generalized linear models were conducted on follow ups.	*Different types of trauma showed different patterns for homelessness. *Sexual assault was associated with more homeless days. 42% of participants reported sexual assault while in the military.
Risk factors for homelessness among women veterans.	2	Subjects recruited outreach (shelters, centers) and referrals from VA centers.	Case-control study (matched case-control design)	Face to face and telephone interviews were conducted.	N= 33 homeless veterans and N=165 housed veterans (age matched) *Characteristics measured by using chi-squared tests and students t-test. Logistics were calculated using LogXact.	Women who have served in the military are three to four times more likely to become homeless than non-veteran women.

Military Sexual Trauma (MST) among homeless veterans.	3	Obtained from Veteran Health Administrators database.	National crosssectional study	VHA Support Service Center Homeless Registry.	*N=126,598. All analysis was conducted separately by gender, comparisons made by chisquare test.	*Of homeless veterans 39.7% of females and 3.3% of males have experienced MST.
Correlations of adult assault among homeless women	4	Homeless adults, who were stratified by type of site (homeless shelter, drug rehab program or street based) were informed of the study by flyers that were posted in residential sites or where participants received care. Those interested called or visited research nurses in nearby clinics.	Qualitative	Instruments utilized have been previously tested and validated using the CHSCP (comprehensive Health seeking and Coping Paradigm) in impoverished and/or homeless African American, Latino and white adults. All instruments were adapted to the 6th grade level and were administered orally by research staff to all participants in a private location.	*Chi-squared tests and analysis of variance were used to assess group differences in types of perpetrators abuse. *Logistic regression analysis was used to identify correlates of adult physical assault, controlling for important sociodemographic characteristics. *Stepwise multiple logistic regression modeling was used to identify correlates of adult physical and sexual assault, controlling for important sociodemographic characteristics.	*The sample comprised of 202 women, the majority were African American. *Average age of respondents was 42.3 (SD=9.0). *Approximately 33% of the women were raped as adults and over one-third were sexually harassed or physically abused as adults. *Child sexual abuse was reported by 20% of women while almost 33% of the women had been physically abused as children; over one-third under the age of 18 had been sexually harassed. *Ten respondents reported being raped within the previous 6 months.
Homelessness Related Traumatic Events and PTSD among women Experiencing episodes of homelessness in Three U.S. cities.	5	*Systematic random sample from women at shelters, meal locations, and outdoor locations. *Interviews and selfadministered questionnaires.	Qualitative	The standardized WHOCIDI algorithm was used to compute diagnoses based on criteria outlined in DSM-IV-TR.	N=91, 62.8% raped. N=73, 50.3% sexual assault or molestation other than rape.	*42.6% met criteria for lifetime PTSD and 29.7% met the criteria for past year PTSD. *The number of traumatic events reported ranged from 0 to 16 with median of 6 and mean of 6.22
The high-risk environment of homeless young adults: Consequences for physical and sexual victimization.	6	Data are from the Homeless Young Adult Project (HYAP), a pilot study designed to examine the effect of neglect and abuse histories on homeless young adults' mental health and high-risk behaviors.	Qualitative	Over a period of approximately 1 year (from April of 2004 through June of 2005), 199 young adults were interviewed in three Midwestern cities.	*Ages ranged from 19 to 26 years with a mean of 21.5 years. *The average age at which youth ran from home was 14.5 years, and most young people ran 2 or 3 times. *The sample included 36 females (28%) and 91 males (72%).	*The majority of respondents (94%) had experienced some type of physical victimization since being on the street, and 32% had been sexually victimized at least once. *Sixteen percent of youth reported selling sex, and 32% reported having friends who have done so.
Factors associated with poor mental health status among homeless women with and without dependent children.	7	The purpose of this study was to estimate the prevalence of mental health problems among a representative sample of homeless women with and without dependent children and determine if the effects of risk factors for mental health are modified by the presence of dependent children.	Cross Sectional	*Data were obtained using structured, in-person interviews. *Outcome measures for mental health were obtained using two separate instruments: (1) the 12 item Short Form (SF-12) Health Survey and (2) the Addiction Severity Index (ASI). *SF-12 MCS scores were entered as the dependent variable for linear regression and presence of ASI mental health problem was entered as the dependent variable for logistic regression. *Bivariate comparisons between women with dependent children and those without dependent children were made using the Student's t test for normally distributed, continuous variables and the Chi square tests for categorical variables.	*In total, 522 (91.6%) women in the study were included in the analysis, 219 (42.0%) of whom were women with dependent children and 303 (58.0%) of whom were women without dependent children. *Compared to women without dependent children, women with children were more likely to be 25-39 years old.	*Mental health problems are closely associated with the presence of chronic health conditions, physical and sexual assault, drug use, and perceived access to social support networks. *Over one-half of our sample were considered to have either a mental health or substance use problem in the past 12 months, compared to approximately 11% of Canadian women who experience symptoms of depression, mood disorders, anxiety disorders, or substance dependence.

Discrepancies in reporting of physical and sexual abuse among homeless young adults.	8	This study investigated risk factors for discrepant reporting of physical and sexual abuse among 172 homeless young adults.	Cross Sectional	<p>*Demographic Characteristics: age, gender, race, sexual orientation and education.</p> <p>*Family Background Characteristics: Foster care, warmth, neglect, physical abuse, sexual abuse.</p> <p>*Discrepant Reporting: Discrepant reporting of physical and sexual abuse.</p>	<p>*The sample included 69 females (40.1%) and 103 males (59.9%). Of these, 31 respondents (18.5%) self-identified as gay, lesbian, or bisexual (GLB).</p> <p>*The sample included 69 females (40.1%) and 103 males (59.9%).</p> <p>*The actual age of the sample ranged from 19 to 26 years with a mean of 21.45 years.</p> <p>*The majority of the sample was White (80%) but 9% were Black or African American, 4% Hispanic or Latino, 2% American Indian or Alaskan Native, 1% Asian, and 5% biracial or multiracial.</p>	<p>*31% of the respondents were discrepant reporters on this minor abuse item.</p> <p>*In terms of severe physical abuse, 14 denied ever experiencing Physical abuse, resulting in a 31% discrepant reporting on this item.</p> <p>*In terms of very severe physical abuse, when asked about being grabbed around the neck and choked by a caretaker, six respondents confirmed that they had been very severely abused in this manner although they denied experiencing physical abuse in general. This resulted in 25% of respondents being discrepant reporters on this item.</p>
Military sexual assault and homeless women veterans.	9	This observational study compared clinical symptoms, pre-military experiences, and treatment preferences among 509 female veterans with and without MSA who enrolled in 11 VA Homeless Women Veterans Programs.	Observational study	<p>Demographic information was collected, including information on race and ethnicity, marital status, branch of military service, use of any federal or state aid program in the last 2 years, and duration of homelessness.</p>	<p>*First, the proportion of homeless female veterans reporting MSA is presented.</p> <p>*Next descriptive statistics, odds ratios, and t-tests were conducted to compare homeless female veterans who did and did not report MSA on demographic and clinical variables, recent victimization, PTEs experienced before entry into the military, and interest in treatment.</p>	<p>*Over one third of participants (41.1%) reported MSA.</p> <p>*In multivariate analyses, homeless female veterans who reported MSA endorsed greater severity of PTSD and other psychiatric symptoms.</p> <p>* Of the 509 homeless women veterans in the study, 209 (41.1%) reported experiencing MSA. In bivariate analyses, participants who reported MSA were more likely to be currently married and to endorse greater severity of PTSD and psychiatric symptoms.</p>
Physical and sexual abuse history in women seeking treatment at a psychiatric clinic for the homeless.	10	Records of initial psychiatric evaluations obtained from all female patients receiving services at the I.M. Sulzbacher Homeless Shelter mental health clinic in Jacksonville, Florida during a 16-month period (from July 2000 through November 2001) were reviewed to determine demographic characteristics, abuse history, and psychiatric diagnoses. *Of the 138 records reviewed, only the 99 that contained documentation of positive or negative abuse history were analyzed.	Multivariable logistic regression	<p>*Assessed the association between age and the presence or absence of abuse using the Student's t test.</p> <p>*Assessed association between each dichotomous predictor and abuse using chi-square tests.</p> <p>*Descriptive statistics, univariate analyses, and multivariable logistic regression were performed using SAS 9.1.3 software.</p> <p>*For the analysis, race was dichotomized while age was analyzed continuously.</p>	<p>The study population as a whole was 64% white, 33% African-American, and 2% Hispanic, with a mean age of 36.8 (\pm 9.6) years.</p>	<p>*Rates of substance abuse and mood disorders diagnoses did not differ significantly between abused and non-abused subjects.</p> <p>*Rates of anxiety disorders between abused (54.8%) and non-abused (15.4%) subjects did differ significantly.</p>
Gender differences in victimized homeless adolescents.	11	*Homeless adolescents who received health and social services from a street outreach program were	A secondary analysis of data collected for a previous cross-sectional	<p>*Multivariate analysis of variance (MANOVA), which takes into consideration intercorrelations among the measures and controls the overall level of significance,</p>	<p>*Participants consisted of 414 youths (104 males who reported sexual abuse and 124 who did not; and 95 females who reported sexual abuse and 75 who</p>	<p>*The median age at first intercourse was 14 years.</p> <p>*Age at first voluntary intercourse ranged from 14.17 for the Non-abused males to 14.70 for those abused.</p>

		invited by social services personnel to participate in the study. *Those who indicated a willingness to participate, gave written informed consent, completed a written survey, and received a snack and \$10.	I study of the sexual health practices of homeless adolescents.	was used to examine group differences on the basis of their centroids. *For each measure, intra-class reliability coefficient was estimated, using Cronbach's Coefficient Alpha. *The Statistical Package for Social Sciences (SPSS) was employed for the purpose of data entry, manipulation, and analysis.	did not; 16 with missing data). *The participants were primarily Anglo American (76.1%), heterosexual (63.3%) with a mean age of 18.46 years (SD = 1.29).	*There is evidence from this study that although males and females are similar in many respects, abuse victims differ in terms of their cognitive and behavioral factors and associated sexual health practices.
Prevalence of childhood abuse among people who are homeless in Western countries.	12	Twenty-four reports published between January 1990 and August 2013 in three countries provided estimates obtained from up to 9,730 adult individuals who were homeless.	Systematic review	*Substantial heterogeneity was observed among the studies (I ² C 98 %). Most involved a single interview or questionnaire item, however, five studies use psychometric instruments. *For studies where both CPA and CSA data are reported, N is usually identical for each measure, but in a few instances sample sizes differ for CPA and CSA. *This included four using the Childhood Trauma Questionnaire (CTQ)	Sources of heterogeneity in the prevalence rates were explored by meta-regression analysis.	*Prevalence of reported childhood physical abuse ranged from 6 to 94 % with average prevalence of 37 %, 95 % CI. *Reported sexual abuse ranged from 4 to 62 %, with average prevalence estimated as 32 %, 95 % CI for female and 10 % for male, 95 % CI.
Exploring the psychosocial and behavioral adjustment outcomes of multi-type abuse among homeless young adults.	13	In this cross-sectional study, convenience sampling was used to select 28 homeless young adults (ages 18 to 24) from a homeless youth drop-in center.	Cross Sectional Study	*Mental health status comprised three variables: depressive symptoms, internalizing behaviors, and externalizing behaviors. *Internalizing and externalizing behaviors were assessed using the Adult Self-Report (ASR). *Chi-square and Fishers exact tests were used to assess group differences in categorical psychosocial and behavioral variables and the abuse variable.	*Of the six types, participants experienced an average of 2.96 types of abuse (SD = 1.88, Mdn=3.00). *Seventy-one percent (H=20) reported histories of three or more types, with 18% (n=5) experiencing five or six types.	*Among the 23 of the 28 subjects with at least one abuse type, 65% were previously in foster care (compared with 57% of the sample of abused and nonabused subjects). *The mean age at which these youths entered foster care was 8.3.^ years (SD = 4.69) (compared with 9.00 years in the full sample), and the average number of placements was 3.27 (SD = 2.52).
Community characteristics and violence against homeless women in Los Angeles County.	14	Participants were interviewed at 66 assistance programs in Los Angeles County, California.	Probability-based sampling design	Sampling proceeded in two stages: (1) selection of 78 sites stratified by 8 regions of LA County (e.g., Downtown, Westside, Hollywood) and by type of site (shelter versus meal program); and (2) selection of visits by homeless women at the sites.	Intra-class correlation (ICC) estimates showed that the proportion of between-ZIP code variance was 7.4% for sexual assault (chi-squared=7.60; p=.003) and 3.7% for physical assault (chi-squared=3.51; p=.03).	*Approximately 33% of respondents had been physically assaulted, and 14% had been sexually assaulted, at least once in the previous 12 months. *Approximately 85% of the women belonged to racial/ethnic minority groups, and the average age was 33 years old.
Victimization and posttraumatic stress among runaway homeless adolescents.	15	The data was collected by full-time street interviewers on the streets and in shelters in eight Midwestern cities of various populations.	Longitudinal diagnostic study	*The UM-CIDI was used to assess major depressive episode, PTSD, alcohol abuse, and drug abuse. *To assess behavioral problems, the conduct disorder module was used from the DISC-R.	*Rates of lifetime PTSD have been estimated to be in the range of 10%-12% for women, and 5%-6% for men. *PTSD rates for young persons aged 15 to 24 years from the National Comorbidity Survey were 10.3% for women and 2.8% for men. *Using data from a national probability sample, Kilpatrick et al. (2003) reported rates of 3.7% for	*About one-third (35.5%) of the runaways met lifetime criteria for PTSD and 16.1% met 12-month criteria for the disorder. *More than 90% of the adolescents who met criteria for PTSD met criteria for at least one of the other four diagnoses. *Almost one-half of the runaways *About one-third (35.5%) of the runaways met lifetime criteria for PTSD and 16.1% met 12-month criteria for the disorder. *More than 90% of the adolescents who met criteria for

					boys and 6.3% for girls aged 12-17.	PTSD met criteria for at least one of the other four diagnoses. *Almost one-half of the runaways *About one-third (35.5%) of the runaways met lifetime criteria for PTSD and 16.1% met 12-month criteria for the disorder. *More than 90% of the adolescents who met criteria for PTSD met criteria for at least one of the other four diagnoses. *Almost one-half of the runaways *About one-third (35.5%) of the runaways met lifetime criteria for PTSD and 16.1% met 12-month criteria for the disorder. *More than 90% of the adolescents who met criteria for PTSD met criteria for at least one of the other four diagnoses. *Almost one-half of the runaways *About one-third (35.5%) of the runaways met lifetime criteria for PTSD and 16.1% met 12-month criteria for the disorder. *More than 90% of the adolescents who met criteria for PTSD met criteria for at least one of the other four diagnoses. *Almost one-half of the runaways *About one-third (35.5%) of the runaways met lifetime criteria for PTSD and 16.1% met 12-month criteria for the disorder. *More than 90% of the adolescents who met criteria for PTSD met criteria for at least one of the other four diagnoses. *Almost one-half of the runaways (48%) who met criteria for PTSD also met criteria for major depressive disorder.
Neurobehavioral and cognitive function is linked to childhood trauma in homeless adults.	16	A sample of 55 homeless adults was recruited from homeless services in the city of Sheffield, UK. All were interviewed to acquire substance misuse information, record experiences of childhood trauma, and assess cognitive and neurobehavioral traits.	Qualitative	*Childhood Trauma Questionnaire. *Participants also completed the Wechsler Abbreviated Scale of Intelligence and the FrSBe, which was completed with respect to current behavior and conduct prior to homelessness. *Comparisons between FrSBe scores were performed with t tests, including one-sample, paired-sample, and Independent-sample tests as appropriate. *All analyses were performed with SPSS 14.	*Around three-quarters of the sample scored in the clinically significant range for current neurobehavioral impairment. *The mean group IQ was below average at 88.	*Abuse or neglect during their upbringing was reported by 89% of the sample. *Evidence suggests that these neuropsychological factors may, in part, constitute a long-term consequence of childhood trauma.
Prevalence of histories of abuse in homeless youth.	17	Homeless and street involved persons aged 18-23 filled out a questionnaire and participated in structured assessments of abuse, substance abuse and tobacco.	Empirical study, interview, quantitative study	2 part assessment- starting with a 70 item questionnaire about childhood experiences and current behavior. Next participants completed a structured interview to assess perceived effects and motivation to engage in treatment. Two-sided Fisher's exact tests were calculated to compare study subjects.	Adverse childhood experiences questionnaire.	Abuse victims who were interested in treatment were more likely to not have graduated high school. The higher the education, the higher the resistance to treatment. 80% of participants reported some history of childhood abuse.
Risk factors for sexual victimization among gay, lesbian, bisexual and heterosexual homeless young adults.	18	Homeless Young Adult Project (HYAP) Over 1 year, 199 young adults were interviewed in	Empirical study, quantitative study, Systematic	Parent-child conflict tactics scale. Center for epidemiologic studies depression scale.	69 females, 103 males. Of these 31 self-identified as gay, lesbian or bisexual. Age sampled ranged from 19-26 years old.	Sexual victimization was positively associated with being sexually abused, higher levels of neglect, being depressed, having traded sex, having

		three Midwestern cities.	Sampling Strategy			prostituted and having friends who have traded for sex.
Relationship of sexual abuse and perceived well-being among homeless youth.	19	Surveys, focus group interviews and individual interviews.	Empirical study. Triangulate design was used to analyze quantitative data provided by participants.	Items for quantitative survey were taken from Adolescent Health Survey (AHS), UCLA-R Loneliness scale and the General Health Rating Index (GHRI).	Quantitative data were analyzed by computing Pearson product-moment and point bi-serial correlations. Nearly 2 out of 3 participants reported a history of sexual abuse.	Significant relationships among sexual abuse, connectedness, loneliness and perceived well-being. Sexual abuse was significantly related to loneliness.
Coping mediates the relationship between PTSD symptoms and alcohol use in homeless, ethnically diverse women.	20	23 women were recruited from local homeless shelters who reported alcohol use in the last 30 days and prior to trauma.	Empirical study; quantitative study	Timeline follow back (TLFB), Drinking Motives Questionnaire (DMQ) and Posttraumatic Diagnostic Scale (PDS).	Participants drank on approximately 1/3 of the last 30 days. Women reported drinking heavily on days they consumed alcohol.	Results suggest that homeless may be "self-medicating" to ameliorate their trauma symptoms.
Childhood Abuse as a Precursor to Homelessness for Homeless Women with Severe Mental Illness.	21	Large experiment looking at delivery of independent housing with supportive case management to homeless individuals with severe mental illness in San Diego County.	Qualitative	The measure concentrated on three areas of the women's experiences: a) abuse during childhood, both physical and sexual, b) age of onset of homelessness, and c) several different aspects of mental health hypothesized to relate to childhood abuse, including depression, suicidality, and the presence of PTSD.	N=28 23.3% no abuse. N=71 59.2% physically abused. N=67 55.8% Sexual abuse (total). N=31 25.8% sexually abused by an adult member of the household. N=53 44.2% sexually abused by an adult outside of the household. N=46 38.3% both physical and sexual abuse.	The results of the investigation confirm that physical and sexual abuse are highly prevalent in the backgrounds of many homeless women with mental illness.
Maltreatment Among Runaway and Homeless Youth.	22	Data was received from the STAR project, a federal research and demonstration project designed to strengthen services to runaway and homeless youth and their families. The sample included 223 youth who sought services from 9 runaway and homeless youth programs in N.Y. State.	Qualitative	Two instruments were used to collect data. First, a semi structured questionnaire, the STAR Maltreatment Questionnaire. The second was the Youth Information Form (YIF), is routinely used by the federal government to gather information and monitor the R&HY programs which it funds.	Majority of female sought services between the ages of 15-17 and males sought services between the ages of 16-17. Across all data sets, girls were more likely to be identified as runaways while boys were more likely to be identified as homeless.	Female adolescents were more likely to be identified as having been maltreated. Girls are perceived to be in greater danger and need of protection; staff may therefore be more likely to suspect abuse and neglect among females. Young people who seek services from R&HY programs manifest a variety of problems: depression, poor self-image, alcohol and drug dependence, academic dysfunction, and suicidal behavior.
On the Outside: The Needs of Unsupported, Homeless Youth.	23	Analyzed case studies of the applicants and both Frank Mass and Robyn Hartley contributed to writing the report.	Policy background paper	The Institute report which resulted from the Commonwealth request, entitled 'On the outside: assessment of the needs of unsupported students' (Maas, 1986), reviewed the available literature and reported on information gathered from Commonwealth government agencies, State government departments, youth refuges, schools and non-government organizations.	There were 100 women who were interviewed in youth refuges, 31 were incest survivors and 18 mentioned some form of sexual assault, 79 had experienced physical or emotional violence and 69 of these mentioned the father as the perpetrator.	There are very few support services for such young women who are often left to cope by themselves with problems of guilt and alienation.
Assaults among homeless and runaway adolescents.	24	Outreach counselors affiliated with agencies that worked with homeless	Survey	Straus and Gelles's measures of family violence. Whitbeck and Simmons measures of sexual abuse. Whitbeck and Simon's	Results were analyzed using the following categories: Parental physical abuse, Parental sexual abuse, deviant	Adolescents' choice of survival techniques affect their vulnerability for serious victimization. Adolescent women are at greater risk of

		adolescents contacted participants.		measures of deviant peer group.	peers, length of time away from home, deviant subsistence strategies, aggravated assault and sexual assault.	being sexually assaulted when they affiliate with deviant peers. Adolescent men are increased risk for aggravated assault the longer they stay away from home.
Episodically Homeless Women with Serious Mental Illness: Prevalence of Physical and Sexual Assault.	25	Women who were diagnosed with a serious mental illness were interviewed between August 1993 and June 1994. All the women had been referred from a local shelter or psychiatric hospital. They were either living on the streets or in a shelter. Most has some form of housing by the time of the interviews. There were a total of 99 women interviewed.	Qualitative	Participant were paid \$10 for the 60-90 minute interview. In addition to data reported, the interview protocol was designed to illicit a wide range of information on backgrounds, prevalence of physical and sexual assault histories, and dimensions of the violence experienced.	7% reported minor child sexual abuse, 58% reported severe child sexual abuse, 11% reported minor adult sexual abuse, 65% reported severe adult sexual abuse.	The findings of this study force us to re-conceptualize the notion of trauma, at least as it occurs in the lives of highly disenfranchised women. For these women, the traumatic events and experiences are so inextricably woven into the fabric of everyday life as to be the normative.

Table 1: Literature review matrix for sexual assault and homelessness.

Years	Keywords	Limiters	Number of Articles
1988-2015	Homelessness, sexual assault		N=104
1990-2015	Homelessness, sexual assault	Scholarly peer reviewed journals	N=42
2005-2015	Homelessness, sexual assault	Scholarly peer reviewed journals	N=25

Table 2: Synthesis of keywords.

Author/Date	Type of Study	Purpose	General Comments	Strengths and Limitations
Keeshin et al. [1]	Empirical study, qualitative study, interviews	Identify the incidence of self-reported physical and sexual child abuse among homeless youth.	Abuse victims interested in treatment options were more likely to not have graduated from high school.	Project did not include formal qualitative methodology. Small sample size.
Maas et al. [2]	Qualitative	Evaluating the needs of unsupported homeless youth	Women are reluctant to report sexual abuse due to feeling guilt, shame and fear. Young people leave home to escape rape and sexual abuse.	This report is very detailed. There are 10 chapters that discuss information on specific topics. "Information about numbers of unsupported students and their particular problems was very sketchy."(p.16)
Terrell [3]	Qualitative, Survey	Examines aggravates and sexual assaults among runaway and homeless adolescents in Des Moines, Iowa.	One in eight adolescents will run away from home prior to his or her 18th birthday.	Data collected from self-reports. Sample drawn from one city, results cannot be generalized to larger population.
Tyler [4]	Empirical study, quantitative study	Comparison of risk factors for sexual victimization among gay, lesbian, bisexual and heterosexual homeless young adults.	Gay, lesbian and bisexual homeless youth experience more victimization compared to heterosexual counterparts.	Findings based on cross-sectional data- cause and effect cannot be assumed.
Holt et al. [5]	Qualitative	Examines patterns of traumatic abuse history in women receiving mental health treatment.	High rate of lifetime exposure to physical/sexual abuse among homeless women.	Small sample size Underreporting of abuse history.

Heslin et al. [6]	Qualitative	Examine community characteristic and violence against homeless women in Los Angeles county	Homeless people are at higher risk for violent victimization due to lack of personal protective shelter.	Community variables used zip codes of the sampling site, not where victimization took place.
Tsai et al. [7]	AB design Qualitative	To examine correlations between history of trauma and housing.	Different types of trauma showed different patterns for homelessness. Sexual assault was associated with a higher number of days spent homeless.	Substantial dropout rates during the study. Study was based on self-reporting.
Pavao et al. [8]	Qualitative, National cross-sectional study	To estimate the prevalence of military sexual trauma (MST) and examine the correlation between MST and mental health conditions in homeless populations.	Veterans who experience MST utilized significantly more mental health visits compared to those who did not experience MST.	Study only included veterans who use VHA- study cannot be generalized to larger populations.
Goodman et al. [9]	Qualitative, interview	Evaluate the prevalence of physical and sexual assault on homeless women with serious mental illness.	Results indicate that lifetime risk for victimization was so high that it was considered a normal experience for this population.	Reliability of participants' reports due to severe mental illness. Study was mostly urban, African American women who also suffered from substance abuse, generalizability is an issue.
Washington et al. [10]	Qualitative, case control study	To determine risk factors for homelessness in non-institutionalized women veterans.	Sexual assault is a characteristic associated to homelessness.	Large sample size. Limited in ability to establish a complete sampling frame due to the transitory nature of the participants.
Rew [11]	Qualitative, interviews survey,	Evaluate the relationship of sexual abuse and perceived well-being among homeless youth.	Sexual abuse rates are higher among homeless youth when compared to non-homeless. Significant relationship among sexual abuse and perceived well-being.	Convenience sampling utilized.
Whitbeck et al. [12]	Qualitative, longitudinal diagnostic study	Examine victimization and PTSD among run away and homeless adolescents	Lives of runaway and homeless youth are characterized by high frequency of rape. Molestation and other traumatic events.	Nonprobability sample. Finding are limited to adolescent self-report and not parent reports.
Tyler & Beal [13]	Qualitative	Investigate the potential risk for victimization among homeless young adults.	Between one-third and one-half of homeless youth have experienced sexual or physical victimization since being on the street.	All data was based on self-reports. Reports were retrospective in nature which may have affected the accuracy of the reports.
Sundin et al. [14]	Systematic Review	Study the prevalence of childhood abuse among people who are homeless in Western Countries.	Findings suggest that childhood physical and sexual abuse is more prevalence among homeless populations in Western countries than in the global population.	Convenience sampling led to slightly higher estimates of sexual abuse.
Tyler & Melander [15]	Cross- sectional	Investigate risk factors for discrepant reporting of physical and sexual abuse among homeless young adults.	Males are more likely to initially deny abuse. Minorities are more likely to be discrepant reporters due to perceived lack of resources.	Data is based off self-reporting. Reporting is retrospective which may result in over or under reporting.
Davies-Netzley et al. [16]	Qualitative, interview	To determine if childhood abuse is a precursor to homelessness.	76.7% of participants reported experiencing abuse during childhood.	Participants were taking part in a larger study related to independent housing.
Powers et al. [17]	Qualitative	Demonstrate a demographic profile of maltreatment.	Maltreatment usually remains hidden. Research has proven that abuse and neglect were the causes of the youth population running away and becoming homeless.	Cannot specify whether behaviour are more prevalent among runaway and homeless youth than among all troubled youth.

Ferguson [18]	Cross-sectional study	Explore the psychosocial and behavioral adjustment outcomes of multi-type abuse among homeless young adults.	Homeless young people are highly likely to come from multi-problem and abusive families.	Sample is not likely representative of larger sample of homeless young adult population. Abuse assessments were conducted by self-reporting.
Johnson et al. [19]	Secondary analysis	Examine gender differences among victimized homeless adolescents.	Experience of sexual abuse, particularly in females, has long term health effects. Female victims are more likely to run away from home than males.	Study was conducted in only one city and therefore cannot be generalized. Self-reporting instruments were utilized.
Whitbeck et al. [20]	Qualitative	Examine the prevalence of traumatic events among homeless women.	Examine the prevalence of traumatic events among homeless women.	Examine the prevalence of traumatic events among homeless women.
Hudson et al. [21]	Qualitative	To examine correlations between adult assault and homeless women.	Among homeless women, approximately one third of respondents reported a history of childhood physical or sexual abuse.	Participants only included homeless women from participating shelters in the Los Angeles area or lived on the street. Study may not be generalized.
Decker et al. [22]	Observational Study	Examine the correlation between Military Sexual Assault and Homeless Women Veterans	Examine the correlation between Military Sexual Assault and Homeless Women Veterans	Absence of comparison sample. All data was self-reported. Lack of details of specific behavior and childhood abuse.
Pluck et al. [23]	Qualitative	Describe levels of traumatic childhood events in a sample of homeless individuals	Homeless populations often display high levels of alcoholism, psychotic disorders and major depression and personality disorders.	Data collected retrospectively which may result in over or under reporting.
Chambers et al. [24]	Cross-sectional study	Estimate the prevalence of mental health problems among homeless women with or without a dependent.	Homeless women both with and without a dependent have poor mental health status.	Since study was cross-sectional- unable to attribute causation. Did not recruit women from violence shelters therefore study may underestimate true prevalence.
Yeater et al. [25]	Empirical study, quantitative	Examine whether drinking to cope mediates the relationship between PTSD symptoms and current alcohol use in homeless, ethnically diverse women.	Results suggest that women may be "self-medicating" to ameliorate trauma symptoms.	Sample size was small, making it impractical to test differences between ethnic groups.

Table 3: synthesis of key articles for homelessness, sexual assault, scholarly peer reviewed articles (1988-2015).

Three studies conducted on homeless veterans were located among databases concerning the relationship of homelessness to military sexual assault. A key study linking homelessness to sexual assault used female veterans as its study population [10]. Decker et al. found that 41-53% of homeless female veterans reported being victimized in sexual assault, and women who have served in the military are three to four times more likely become homeless than non-veteran women [22]. Due to such trauma, many of the female veterans acknowledged psychiatric symptoms and greater severity of PTSD, mood disorders, insomnia, nightmares, anxiety, and misuse of drugs to cope with the abuse described. Pavao et al. uncovered that military veterans using the VHA that had experienced sexual trauma while serving had undergone more mental health visits than those who did not [8].

There has also been research on between homelessness and the presence of mental illness in the general population, of which six studies were compiled. Pluck et al. found that homeless populations have high levels of mental disorders, including alcohol abuse, depression, personality disorders, and psychosis [23]. In one study performed by Chambers et al. in Toronto, Canada, 522 women were

recruited from shelters and meal programs, who were either with or without dependent children [24]. The study concluded that poor mental health status was associated with homeless women whether they had dependent children or not. Over one-half of this sample was considered to have either a mental health or substance use problem in the past 12 months. Yeater et al. also obtained findings that homeless women with psychological disorders self-medicate through use of illicit drugs or alcohol [25]. Both directionalities of homelessness with a mental disorder and sexual abuse each had an existing study. Of the findings of mentally ill homeless people, Goodman et al. indicated that sexual abuse among a sample of those who were both homeless and mentally ill was the norm [9]. High rate of life-time sexual abuse was also found to be indicative of long term effects on mental and physical health in a population of homeless adolescents by Johnson et al. [19].

Discussion

With only 25 articles uncovered related to this topic, there is a paucity of information centered on numerous issues. Such limitations of the sample populations used included location, demographic areas,

self-reporting, race, small sample sizes, and the reliability of participants' report, particularly those with mental illnesses. Some studies relied only on zip codes of the sampling site, rather than where the victimization took place [6]. A large portion of the surveys used women as the only source of data, limiting the information about male sexual assault homeless victims. This may be attributed to individual study concern or resultant of the finding that men are less likely to report their abuse history [15]. With three articles remotely broaching this subject, a limited amount of research has been recorded with regards to the correlation between homelessness and military victims of sexual assault due to self-reporting. In women with mental health illnesses, there was underreporting of their abuse history. Above all, no information exists on the relationship between sexual assault and the likelihood of recovering from homelessness. As it stands, the information on this particular concern of the demographic is not comprehensive or reliable enough to accurately assess this population's needs.

Studies on the topic of homelessness and sexual assault have been conducted for the past few decades, and the existing results provide a wide variety for implications to help improve social work practice and policy. These implications vary depending on the specific population that is being studied. The most popular implications were education, training and improving interventions.

The first concern exists with improving the options for homeless people to deal with their trauma and disorders for the present. It is imperative that such victims are informed of and referred to health services within their community, who will provide care and treatment for the homeless at no charge. Programs are needed to provide homeless female veteran accommodations that will assist with gender-specific concerns. However, most shelters do not have adequate housing for the number of female veterans who need accommodation, and the general institution of homeless shelters has been deemed inadequate as recent as within the past decade [6,8]. Due to the nature of sexual assault within military populations, trauma-informed approaches are important in caring for homeless veterans [23].

Numerous amounts of youth on the streets who have undergone many encounters of physical and sexual assault/abuse since being on their own. Community awareness facilities would be beneficial to the youth on the streets that could offer counseling, self-esteem awareness classes and group therapy. Due to the long lasting effects of childhood abuse and trauma, adolescents may lack trust and self-confidence needed to recover from their psychological damage [20]. Such activities and safe places could decrease the amounts of sexual assault and abuse, thus decreasing risky and dangerous behaviors they would normally be involved with. Training programs are needed to work on self-confidence as well as trade and workplace skills.

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