Women Veterans and Intimate Partner Violence: Current State of Knowledge and Future Directions

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Abstract

Intimate partner violence (IPV) is a serious public health concern for all; however, women who experience IPV are more likely to sustain injury and report adverse health consequences. An expanding body of research suggests that experience of IPV is common in women veterans (WV), particularly those who access Veterans Health Administration (VA) services. With unprecedented numbers of women serving in the military and subsequently becoming veterans, it is critical that clinicians and advocates caring for WV understand the impact of IPV on this population. WV have unique risk factors for experiencing IPV, including high rates of premilitary trauma, as well as military sexual trauma and posttraumatic stress disorder (PTSD). Correlates of IPV, traumatic brain injury (TBI) and homelessness, are common among this group. Although research on WV health and IPV is emergent, evidence suggests that IPV results in multiple health sequelae and increased healthcare utilization.

In this context, we next discuss clinical and policy implications for VA. A number of targeted interventions and treatments are available for WV who experience IPV, including evidence-based mental health services. VA is well situated to implement screening programs for WV to facilitate referral to needed services and treatments available both within and outside its facilities. As the population of WV expands, future research will be needed to determine best practices; many avenues of inquiry exist. Finally, WV are strong and resilient; it is crucial that those who work with them recognize evidence of IPV and refer to needed services and evidence-based treatment to enable strength-based recovery.

Introduction

Intimate partner violence (IPV) is a serious public health challenge and a cause of women’s poor health worldwide.1–3 The Centers for Disease Control and Prevention defines IPV as physical, sexual, or psychological harm or stalking behavior by a current or former partner that occurs on a continuum of frequency and severity.4 IPV can occur in heterosexual or same-sex relationships and does not require sexual intimacy or cohabitation.4 Approximately 29% of women and 10% of men in the United States have experienced rape, physical violence, and/or stalking by an intimate partner and reported at least one measured impact related to these or other forms of violence in that relationship.5 In the general population, the highest percentage of women report a first experience with IPV between the ages of 18 and 24.5 Further underscoring the effect of young age, the US Department of Justice reported that the highest rates of IPV occur in younger women ages 18–24 and 25–34.6 Although we know less about IPV in same-sex relationships, those who identify as lesbian, gay, bisexual or transgender (LGBT) may have increased rates of lifetime IPV (from a same- or opposite-sex partner).7,8

Gender has a complex impact on IPV risk; although both women and men experience violence from intimate partners,5 women appear more likely than men to experience injuries

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and fear for their safety as a result of IPV. Other data suggest that women experiencing IPV are more likely to report poor mental and physical health than are men. Although they use aggression in relationships, women may be more likely to do so when experiencing IPV. Certain subpopulations of women are at greater risk for experiencing IPV and its attendant health consequences. This overview focuses on the risk and impact of experiencing IPV among women veterans (WV), a unique and growing group.

The population of women entering military service and becoming veterans is at an all-time high. This has created a critical national priority for clinicians and policymakers to better understand the scope and impact of IPV in this population. The finding that women veterans’ health is poorer than that of their active duty (AD) military and civilian counterparts further emphasizes the need for understanding social determinants of health that may underlie this disparity. Although IPV is prevalent in the general population, research regarding IPV and veterans has been limited to date and often focuses on the use of IPV by male veterans. In response to concerns from front-line providers, VA has begun to move forward to develop a national, systematic response to IPV; however not all WV access VA care, making it key that community providers understand the unique characteristics of this important population. Thus, the goals of this article are to (1) provide a summary of the current state of knowledge regarding IPV in the WV population, (2) review prevalent conditions that are known to enhance IPV risk among WV, (3) discuss evidence-based treatments for veterans who have experienced IPV, and (4) identify future priorities for research and clinical programming. To accomplish this, we cite general-population studies when they provide important context for the WV-specific discussion. Similarly, we have included study data on AD women when these data contribute important background regarding WV experience of IPV; for example, elucidating lifetime exposure or enhanced risk for revictimization.

**Women Veterans: A Growing Population**

Currently, women comprise nearly 15% of AD military forces, an increase from 8% in 1980. More than 2.2 million WV live in the United States and Puerto Rico. In 2013, WV made up 10% of the total veteran population and now comprise 6% of the total VA patient population. Figure 1 shows the 10-year growth in WV using VA care. In the age groups at highest risk for IPV in the general population, the proportion of WV in VA care exceeds that of male veterans by more than twofold; 42% of women compared to 12% of men are under age 45 in VA care (Fig. 2). WV need access to gender-specific services, including preventive screenings and maternity care, and have higher utilization of primary and mental health (MH) care than do their male counterparts. These characteristics place WV in frequent contact with primary care (and MH) providers. Newer WV of the current conflicts have taken on new roles and responsibilities and have faced unprecedented challenges related to work and family balance while serving. It is estimated that one-third of WV ages 17–24 have children and that 39% of WV under 65 have children living at home. While on duty, newer WV have engaged in a wider range of roles and duties in deployment, resulting in exposure to risks previously exclusive to men, including combat trauma. For example, a national study of Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) veterans found that 73% of women reported one or more combat experiences. Yet, as a minority in the military, WV report fewer opportunities for peer support while serving.

Since studies in nonveteran women indicate that social support attenuates the negative impact of IPV on health, we must consider this important contextual variable when addressing the topic of IPV among WV. Although purely speculative, the combination of IPV and lack of social support may contribute to poorer health outcomes for WV. Also pertinent to understanding IPV among veterans is the growing number of dually enlisted military couples: Almost half of military women have married a fellow service member (48%) compared to 7% of males. Elevated rates of PTSD and interpersonal aggression reported among male veterans...
in the recent conflicts in Iraq and Afghanistan put them at greater risk for using violence in their intimate relationships.\textsuperscript{22,23} Marrying or partnering with male veterans who have PTSD may thus place WV at heightened risk for IPV.\textsuperscript{13}

**Intimate Partner Violence and WV**

**Epidemiology**

A number of studies suggest that both AD service members and veterans are at significant risk for IPV.\textsuperscript{13,24–26} For example, one study of AD women found that 36% reported physical, sexual, and/or psychological IPV during service.\textsuperscript{27} Recently, however, the CDC reported that AD women and wives of AD men have lower rates of 12-month and lifetime IPV than do women in the general population.\textsuperscript{28} Yet, other population data demonstrate that WV experience higher rates of lifetime IPV (33.0% compared to 23.8%) than nonveteran women in the same population cohort.\textsuperscript{29} Although the reasons behind this discrepancy have not been established, it is possible that AD women may experience barriers to reporting that become irrelevant after military service or that WV have postmilitary experiences that increase their exposure to IPV. We must also consider the possibility that the samples of AD and civilian women were healthier than WV, particularly those accessing VA.\textsuperscript{12}

WV using VA services appear to be particularly likely to report IPV. In the Midwest, 74% of WV primary care patients in a large women’s health clinic reported lifetime physical IPV,\textsuperscript{30} and 24% of female VA patients under the age of 50 reported past-year physical or sexual IPV.\textsuperscript{31} A more recent study in New England found that 29% of women in recent intimate relationships reported past-year physical, sexual, and/or severe psychological IPV.\textsuperscript{32} In the same sample, the authors evaluated risk factors for past-year IPV\textsuperscript{33} and found that, after adjusting for unwanted sexual experiences during childhood and military service, having less than a college education and service in the Army (vs. other branches) were associated with greater risk for past-year IPV.

**Common comorbidities**

Traumatic brain injury. TBI is a physiological disruption in brain function from an external blunt force, such as a blow to the head or strangulation.\textsuperscript{34} TBI can be both a risk factor for\textsuperscript{35} and a sequela of IPV.\textsuperscript{34} Use of physical force by an intimate partner can cause TBI, as abusive partners often use strangulation or blows to a victim’s head.\textsuperscript{34,36} In one study, 30% of IPV survivors reported a loss of consciousness at least once, and 67% reported residual problems that were potentially related to head injury.\textsuperscript{37} Additionally, individuals with histories of both TBI and IPV manifest neuropsychological deficits, including problems with keeping appointments or completing tasks that require multiple steps.\textsuperscript{32} These executive-function challenges may result in problems accessing and complying with medical care or advocacy services.

TBI is a critical issue for veterans returning from the wars in Iraq/Afghanistan; the overall risk of TBI has increased along with the change in warfare witnessed in those conflicts.\textsuperscript{39} A recent evaluation found that approximately 11% of female OEF/OIF VA patients screened positive for TBI.\textsuperscript{39} Nonetheless, TBI may go unrecognized, as veterans with TBI often exhibit symptoms suggestive of other MH disorders, such as PTSD, depression, and anxiety.\textsuperscript{40} Preliminary evidence indicates that there are gender differences in long-term physical and MH outcomes among veterans who have experienced a TBI,\textsuperscript{40} underscoring that IPV-related TBI is a key concern in the longitudinal assessment and care of WV.\textsuperscript{34}

Homelessness. General-population estimates suggest that 30%–90% of homeless women have experienced IPV.\textsuperscript{41,42} IPV is among the leading contributors to housing instability and homelessness among US women,\textsuperscript{23} who often become homeless as a direct result of fleeing abusive relationships.\textsuperscript{43,44} Women who lack access to stable independent housing are also at increased risk of IPV, as they may be forced to rely on abusive partners for shelter.

These issues present in the general population may be magnified among veterans, who comprise a disproportionate fraction of the nation’s homeless population; WV are up to four times more likely to be homeless than nonveteran women.\textsuperscript{45,46} Not surprisingly, IPV is an important contributor to homelessness among WV.\textsuperscript{28} WV ages 18–29 are at highest risk of homelessness,\textsuperscript{28} and, as discussed earlier, this age group is rapidly growing in VA.\textsuperscript{11} IPV also leads to and exacerbates MH conditions, such as PTSD and substance use disorder (SUD), that, in turn, significantly increase the risk for homelessness for WV.\textsuperscript{45,47}

**Known risk factors and correlates**

Prior interpersonal trauma. Women who experience IPV are known to often have a history of prior interpersonal trauma exposure.\textsuperscript{3,49,50} Frequently, these experiences begin prior to military service,\textsuperscript{26,35} and data suggest that many women join the military in an effort to leave violent and unstable home environments.\textsuperscript{26} For example, a study of Navy recruits found that 30% of the women reported experience of physical IPV, and 67% reported psychological IPV prior to enlisting.\textsuperscript{52} In one study of WV, more than half reported premilitary physical or sexual violence; experience of child abuse was also prevalent.\textsuperscript{26}

Military sexual trauma. Sexual harassment or assault during military service, referred to within VA as military sexual trauma (MST), is a particularly prevalent and harmful interpersonal trauma experienced by many women who have served in the military.\textsuperscript{53} When perpetrated by an intimate partner, such violence is considered IPV. These experiences of sexual harassment and assault during military service adversely affect subsequent mental and physical health.\textsuperscript{53–55} Rates of IPV are high among WV who report MST. A recent VA study demonstrated that WV with documented IPV exposure were more than 2.5 times likely than women without documented IPV to report MST.\textsuperscript{56} Similarly, in a VA primary care sample, WV who reported current or lifetime IPV were more likely to have experienced MST (Latta, Elwy, Ngo, and Kelly, submitted). Thus, MST appears to be an important risk factor for IPV\textsuperscript{13,56} and likely contributes to cumulative health problems among WV who have been dually exposed to MST and IPV.

Mental health correlates. In the general population, PTSD,\textsuperscript{57–59} depression,\textsuperscript{60,61} and SUD\textsuperscript{62} are important correlates of both use and experience of IPV; women who have experienced IPV exhibit rates of PTSD that range from 31% to 84%.\textsuperscript{60} Moreover, PTSD symptoms have been shown to increase
women’s risk for subsequent IPV. Depression is also a common risk factor and consequence of IPV, with a weighted mean prevalence estimate of 48% among women who have experienced IPV.

Although comparably fewer studies have been conducted in WV patient populations, the patterns of association between MH and IPV appear similar to that of the general population. For example, WV who reported past-year IPV experienced significantly higher levels of PTSD and depression symptoms compared to those who had not experienced IPV. Similarly, SUD is a well-known correlate of IPV among WV, who are at increased risk for misuse of alcohol in comparison to civilian women.

Health Impact of IPV for Women Veterans

Having discussed the epidemiology of IPV in WV along with common psychosocial factors for WV that are linked to and predispose WV to IPV, we now discuss the health impact of IPV on WV. It is well established that IPV adversely impacts women’s health in the general population, but there has been a paucity of published research on IPV and WV health. Although our discussion is focused on IPV, it is important to note that experiencing multiple and recurring forms of trauma has a cumulative adverse impact on health. As noted earlier, WV are a highly trauma-exposed population, and the health impact of IPV must be considered in this context.

The nascent literature on WV health outcomes reveals that IPV is associated with a myriad of health problems. For example, WV who experienced both sexual and physical assault were more likely to report chronic health conditions and significantly lower health-related quality of life for 10 or more years after military service. A recent population-based study found a concerning link between IPV and cardiac risk factors for WV, of great concern because heart disease is the leading cause of death for US women. WV who have experienced IPV also have higher rates of digestive system disorders than do those who have not experienced IPV.

It appears that the type of IPV a woman veteran experiences may impact the nature of her adverse health outcomes. Psychological IPV is associated with poor self-rated health; physical IPV is associated with chronic pain, smoking, and problem drinking; and sexual IPV is most closely associated with PTSD, other MH diagnoses, and smoking. Poor health, in turn, drives increased healthcare utilization, and WV who experience IPV have demonstrated increased healthcare use. In a recent VA study, medical records were examined to determine evidence and quality of IPV-related care; WV who had documentation of IPV in their records had higher average numbers of monthly healthcare encounters, as well as more emergency department visits than did unexposed WV. Fortunately, the same study demonstrated that the majority of WV (95%) with documented IPV had sought MH or social work treatment. These data emphasize that because WV are in increased contact with healthcare providers, multiple opportunities exist to identify and treat WV who have experienced IPV.

Clinical and policy implications

Psychosocial intervention. Although a comprehensive review of IPV-relevant intervention is beyond the scope of this discussion, it is important to acknowledge principles and treatment strategies relevant to addressing IPV among WV. Apart from addressing acute and chronic physical health conditions, IPV-related needs may include—but not be limited to—MH care, legal advocacy services, employment assistance, and support with child care, housing, and other economic needs. Program design and care delivery should be driven by the understanding that IPV is an adverse health exposure, not a psychiatric diagnosis. WV should be individually assessed to determine the best course of treatment, which may include a broad array of services: education, advocacy, and supportive services, as well as individual and group treatments for MH correlates of IPV, such as PTSD or SUD. Support and advocacy services focus on safety planning, skill building, provision of information about IPV, and services related to housing, employment, and economic, legal, and parenting needs.

Evidence-based treatment. MH symptoms, such as PTSD and depression, are often chronic in the IPV population and can persist many years after violence has ended. Fortunately, these sequelae of IPV are treatable with existing evidence-based treatments. Although we are not aware of a WV treatment-outcome study focusing on decreasing psychological distress resulting specifically from IPV, several cognitive-behavioral therapies have been developed for and validated on women who have experienced IPV. Because PTSD is among the most common and severe presentations observed among women who experience IPV, consistent with VA clinical practice guidelines for the management of PTSD, first-line treatments should focus on trauma. For some women, this type of intervention alone will provide significant symptom relief; others may also benefit from the acquisition of cognitive and emotional skills to further reduce symptoms and possibly help reduce their risk for revictimization.

The wide availability of evidence-based psychotherapies for PTSD within the VA is an asset enabling this system to address the MH needs of WV who have experienced IPV. For example, cognitive processing therapy (CPT) is a PTSD treatment that is widely available in VA and has empirical support for the treatment of PTSD and depression among women who have experienced past or recent IPV. Furthermore, evidence suggests that CPT may be able to help reduce women’s risk for IPV revictimization by treating their PTSD and depression. Although not yet disseminated within VA, cognitive trauma therapy for battered women (CTT-BW) and Helping to Overcome PTSD through Empowerment (HOPE) are two evidence-based interventions developed to treat PTSD and its comorbid symptoms among women who have experienced past or recent IPV. It will be important to evaluate these treatments and to develop theoretical models within VA and other healthcare systems that treat WV.

Dialectical behavior therapy (DBT) and Seeking Safety are two examples of skills-based interventions that may be effective for WV who have experienced IPV. DBT skills have been effectively adapted for women who experience various forms of psychological distress resulting from past and current IPV and for WV with chronic trauma-related disorders, including PTSD, subsequent to interpersonal violence. Seeking Safety, a cognitive-behavioral treatment for
comorbid PTSD and SUD, has support for effectiveness and feasibility when applied to WV.\(^81\)

**VA screening for IPV**

Recently, both the US Preventative Services Task Force and the Institute of Medicine issued recommendations that support the screening and identification of women at risk for IPV.\(^82,83\) As the sole national integrated health system in the United States, VA is well positioned to implement routine IPV screening and response interventions.\(^84\) Currently, however, VA has not yet enacted such policy or procedures.\(^84\) Routine screening for IPV is variable across VA facilities, and many VA primary care providers have had limited training on IPV.\(^85\) When IPV is disclosed to VA providers, records show minimal documentation, which is sometimes value-laden, and the followup care provided is often unclear from the medical record.\(^86\) In a VA primary care setting, an IPV screening study of WV who were not using MH services found that 30\% reported current or past experience of IPV (Latta, Elwy, Ngo, Kelly, submitted). Recent work established the clinical utility of the four-item hurt/insult/threaten/scream (HITS) tool in a sample of female VA patients,\(^32\) creating a validated and promising means of identifying experience of IPV among WV.

**Future Research Directions and Program Development**

As we now have substantial documentation that many WV have experienced IPV, future research can help to identify the particular mechanisms and circumstances that increase WV risk of IPV. Future work should also evaluate interventions aimed at identifying and addressing IPV and related health needs of WV. Development of evidence-based effective interventions for WV to both prevent further violence and attenuate the negative impact of violence is important. New research should investigate the intersections between IPV exposure and military experiences. For example, what factors explain the increased rates of IPV for WV, compared with nonveteran women? Are there ways in which particular military service experiences or characteristics are protective for WV who have experienced IPV? Are there particular risks or vulnerabilities associated with military service, or do we need to attend to aspects of the military (e.g., service branch)? Any comprehensive understanding of IPV in WV must also include data on MST; ongoing and future work will further elucidate this connection. We may also need to look more closely at subpopulations of WV to identify characteristics or experiences; examples include LGBT veterans, rural WV, WV of color, or WV with particular physical, cognitive, or emotional characteristics. There may be particular experiences or needs associated with these characteristics that can further guide the development and implementation of interventions aimed at addressing IPV among this at-risk population.

WV use of IPV remains an underexplored area; estimates from males’ reports of female-perpetrated IPV do not accurately represent the underlying dynamics of WV use of violence. Given the prevalence of dual-military marriages,\(^21\) estimates drawn from the male population may yield partial understanding of WV stressors. It is critical, however, that these data not be used to make direct inference about WV use of IPV; future dedicated work in this area is necessary.

As the demographics of the armed services change rapidly, the number of pregnant WV has increased dramatically over the past decade.\(^47,58\) In non-VA studies, both physical and psychological IPV during pregnancy have been linked to poor outcomes, including low birth weight, preterm delivery, neonatal death, and postpartum depression.\(^39,50\) IPV may also include coercive interference with contraceptive use.\(^91\) AD women have higher rates of unintended pregnancy than the general population,\(^92\) suggesting that research on the impact of IPV on birth control use is warranted in the WV population. Although rates of IPV during WV pregnancies are not yet known, characteristics of WV, such as higher rates of mental illness\(^88\) and younger age at first pregnancy, may place them at even higher risk of IPV. Clearly, examination of IPV risk during WV maternity care is an important programmatic priority.

In considering clinical intervention, development of services tailored to WV both in the VA and in the community is essential. Creation of partnerships between VA and military/community service providers will be critical. In addition to program development and evaluation, research is needed to determine whether existing interventions need to be modified for the WV population. This will include tailoring programs directed at male users of IPV to WV who use IPV; currently, little exists outside of couples interventions to serve these WV.

While we seek to improve services to assist WV who have experienced IPV, focus on primary prevention of new instances of IPV in this population will be of great importance. Such prevention efforts may draw from research that identifies the risks for IPV exposure among this population. In addition to individual risk factors, such work will need to focus on those who use violence, and on military- and VA-led efforts to deter violence, including early intervention and offender accountability. Such efforts will require substantial interprofessional collaboration and will benefit from both quantitative and qualitative research to both identify rates, correlates, and impacts as well as lead to development of a more nuanced understanding of WV’s experiences and needs.

**Conclusion**

Although this discussion has focused on risk factors for experience of IPV among WV, it is important to emphasize that this group has unique strengths that can aid recovery after IPV. WV have not only persevered as a minority in the armed forces but have also served in unconventional roles with limited social support and role models.\(^93\) Despite these obstacles, WV develop critical coping processes to manage stress during service,\(^17\) and the majority of women serving demonstrate strength and resilience in responding to the challenging demands of military life.\(^18\) Thus, WV exhibit great capacity for recovery but also need access to evidence-based programs and treatment. As numbers of WV continue to grow, it is essential that clinicians, working within and outside of VA, be able to identify risk factors for IPV and provide appropriate referrals and support to WV in need. We have undertaken this summary and discussion of IPV and WV to not only facilitate both identification of IPV and delivery of evidence-based treatment in this deserving population but to also highlight critical knowledge gaps and foster theory-driven work in this area.
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