Intimate Partner Violence Experienced by Physicians

Journal of Primary Care & Community Health Volume 11: 1–8 © The Author(s) 2020 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/2150132720965077 journals.sagepub.com/home/jpc SAGE

Ellen T. Reibling¹, Brian Distelberg², Mindi Guptill¹, and Barbara Couden Hernandez¹

Abstract

Purpose: World Health Organization (WHO) defines intimate partner violence (IPV) as physical, sexual or psychological harm caused by an intimate partner or ex-partner. There are few studies describing interpersonal violence (IPV) among physicians. Our study describes IPV experienced by U.S. physicians.

Methods: This was a multicenter survey administered to 4 physician groups in 2015 to 2016. In total 400 respondents returned survey results. Measures included current IPV, childhood abuse, mental health, professional role, and demographics.

Results: IPV was reported by 24% of respondents. The most frequent abuses reported were: verbal (15%), physical (8%) followed by sexual abuse (4%) and stalking (4%). Logistic regression model found that IPV was more likely to be reported by older participants (aged 66–89), those who experienced childhood abuse, working less than full time, and had been diagnosed with a personality disorder. Women and Asian Americans reported slightly higher IPV rates.

Conclusions: Our study has implications for both medical education and intervention development. Universal screening and education that addresses clinical implications when treating peers who experience IPV are needed. Workplace interventions that consider unique physician characteristics and experiences are needed, as well as programs that support sustained recovery. This is the first survey to our knowledge that confirms that physicians experience IPV at a rate consistent or higher than the national level. We developed a standardized instrument to assess IPV in male and female physicians at various career stages. We also identified significant predictors that should be included in IPV screening of potential physician victims.

Keywords

Intimate partner violence, physicians, domestic violence, prevention, injuries

Dates received 4 June 2020; revised 3 September 2020; accepted 17 September 2020

Introduction

Intimate partner violence (IPV) is an increasing public health concern.¹ IPV impacts 1 in 4 women and 1 in 10 men in the United States, resulting in \$3.6 trillion in costs over victims' lifetimes.² The World Health Organization defines IPV as "behavior by an intimate partner or ex-partner that causes physical, sexual or psychological harm, including physical aggression, sexual coercion, psychological abuse and controlling behaviors."³ Early IPV research was often limited to serious physical injuries because many IPV statistics were derived from domestic abuse calls by law enforcement.⁴ Many victims, however, did not acknowledge IPV as including controlling behavior, being undermined or being prevented to access their money.^{4,5} More current IPV research describes numerous abuser behaviors and relationship dynamics that contribute to physical, emotional, and social debilitation including verbal abuse and manipulation behavior.⁵ More research is needed to understand the resulting couple dynamic and sense of demoralization that often occurs as a result of IPV.⁴

¹Loma Linda University School of Medicine, Loma Linda, CA, USA ²Loma Linda University School of Behavioral Health, Loma Linda, CA, USA

Corresponding Author:

Barbara Couden Hernandez, Director of Physician Vitality, Professor, Department of Medical Education, Loma Linda University School of Medicine, A1108 Coleman Pavilion, 11175 Campus Street, Loma Linda, CA 92350, USA.

Email: bhernandez@llu.edu

Creative Commons Non Commercial CC BY-NC: This article is distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 License (https://creativecommons.org/licenses/by-nc/4.0/) which permits non-commercial use, reproduction and distribution of the work without further permission provided the original work is attributed as specified on the SAGE and Open Access pages (https://us.sagepub.com/en-us/nam/open-access-at-sage). IPV among physicians is seldom acknowledged or assessed.^{6,7} Physicians report IPV prevalence between 6% and 24% (women 7%-24%, men 6%-10%), but studies have limited generalizability due to lack of standardized and validated measures, small sample sizes, dated information, and sampling frames that combine child abuse plus partner abuse, or combine nursing, student, and physicians, or only survey women.⁸⁻¹² Almost all physician IPV studies utilize self-report of self-defined partner or domestic abuse.⁶

In a recent Australian study, female physician victims described significant stigma and shame from a sense of "professional defectiveness" by falling victim to IPV, which may contribute to low response rates in prior physician studies.⁷ Studies of affluent women experiencing IPV reveal that they typically underutilize resources, and although they need psychosocial support, it is unclear what support will be most utilized or helpful.^{13,14} Physicians may be similar as a group and are also known to delay help-seeking and more data is needed to understand these issues in male physicians.¹⁵

Screening and supporting IPV victims are critical physician responsibilities.¹⁶⁻¹⁹ It is reasonable that personal IPV experience has the potential to skew professional behavior by avoiding this sensitive topic with patients and impacted colleagues.²⁰ We do not yet understand the degree to which personal experience affects physicians. Physicians may have limited ability to provide whole person care for patients if they are preoccupied with their own experiences.^{6,21,22}

The purpose of this study is to describe the experience of physicians, fellows, and residents who are, or have been involved, in an intimate relationship that is controlling and/ or abusive. We also want to identify the characteristics or conditions associated with their IPV experience.

Materials and Methods

Study Design and Population

This was a multicenter survey administered to a convenience sample of 4 physician groups in 2015 to 2016. In total 400 respondents returned survey results. We used resident list serves in 2 states, an electronic medical journal advertisement in another state and a medical school alumni list serve representing a national sample. The Loma Linda University Institutional Review Board approved the study.

Survey Content and Administration

We developed a questionnaire as a largely descriptive instrument using methods outlined by Nelson and Allred.²³ Survey items were based on the authors' teaching, psychotherapy experience, and IPV literature, deriving items from published literature wherever possible to improve validity. Table 1 presents survey items organized by type of abuse, consistent with the WHO IPV definition.³ The survey was uploaded into Qualtrics (Provo, UT)[®] and pilot tested (n = 8) prior to distribution. As noted above, the survey link was emailed to 3 site administrators who shared it directly with their constituents and published in 1 electronic publication. The survey took approximately 15 minutes to complete.

Measures

<u>Current IPV</u> was measured using the list of 23 IPV experiences, derived from the literature. Examples include: unwanted sexual acts, rape, being slapped/pinched/shoved/ hit, being physically restrained, having a weapon used against you, etc. Survey respondents were asked to indicate if any of the IPV experiences were currently being experienced. For the analysis we created a binary variable where a score of 0 represented no experience had occurred, whereas a score of 1 identified at least 1 item was checked.^{7,42}

The following variables were included in the study to serve as potential predictors or correlates of IPV.

<u>Childhood abuse</u> was measured by aggregating 4 questions. These questions asked if the respondent experienced verbal, psychological, physical or sexual abuse from a parent or guardian. The final variable was a binary variable, where 0 indicated no childhood abuse, and 1 indicated that the respondent endorsed at least one of the 4 items.¹⁸ We included this variable because literature seems conflicted about whether childhood abuse is predictive of eventual IPV as an adult.^{43,44}

Mental Health was measured by asking the respondent to endorse items from a list of 11 mental health symptoms and included: depression, anxiety, eating disorders, self-harm, suicidality, post-traumatic stress symptoms, drug/alcohol problems, behavioral addictions, personality disorder, sexual problem, and other. Each item was treated as a separate variable in the final analysis.¹⁹

Professional Role was assessed by asking the respondent to report their current status in the health field from a list of options. These included hospitalist, clinical medicine, medical educator, medical administrator, consultant, retired, resident/fellow, medical student, other. Respondents could choose multiple options. The same options were presented for respondent to indicate their partner's professional role, or other.¹⁸

<u>Demographics</u> were also assessed, such as gender, relationship status (married, single, divorced, living with a partner), ethnicity, children currently living in home.

Data Analysis

We began analysis by evaluating IPV experience within the sample population. We examined IPV reports across demographic categories, professional status and previous history Table I. IPV Variable Operationalization.

IPV construct	Defining acts		
Sexual abuse ^{16,24-26}	Coerced unwanted sexual acts		
	Raped		
Physical abuse ²⁷⁻²⁹	Slapped, pinched, or shoved		
	Hurt in a way that left bruises or other marks		
	One or more of your bones were fractured or broken		
	You had to be hospitalized for injuries		
	Your partner hurt you when you were pregnant		
Controlling behavior ³⁰⁻³²	You were physically restrained		
	You were prevented from going where you wanted, when you wanted		
	Your partner required you to inform him/her of your whereabouts many times per day		
Psychological abuse ^{16,33,34}	Your partner broke or destroyed your personal belongings		
	You were insulted or called derogatory names		
	Your partner falsely accused you of infidelity		
	Undermined your authority as a parent		
	Your partner threatened or intimidated you		
Violent behavior ³⁵⁻³⁷	Your partner harmed your pets		
	Threatened to harm your children or family		
	Your partner used a weapon against you		
Stalking ²⁴	Your partner followed you		
Other ³⁸⁻⁴²	Your partner used your money or credit cards, or made you pay for things they wanted against your will		
	You were denied access to your money or other assets		
	Undermined or threatened to undermine your career or professional standing		
	You were denied access to your immigration papers (green card, etc.)		

of childhood IPV. We applied chi-square comparisons to test for statistically significant differences between categories. Next we applied a forward likelihood ratio logistic regression model to assess the combined effect of predictive variables. SPSS 24.0 was used for both aims.⁴⁵

Prior to the planned logistic regression analyses, we evaluated for missing data and univariate assumptions. In regards to missing data, a listwise comparison across all variables in the analysis showed no more than 6.8% missing data. Therefore we used a listwise deletion prior to the logistic regression estimation. This reduced the final analysis sample to n = 373. The outcome variable was a binary measure of current IPV where 0 indicated no presence of IPV and 1 was given if any forms of IPV were noted by the respondent. Predictor variables were split into 4 planned steps. The first step included variables directly associated with the respondent (age, gender, presence of children in the home, ethnicity as well as a history of childhood abuse). For this step an enter method was used so that these demographic variables acted as a control for the rest of the model. The next steps were fit with a forward likelihood ratio method. The first step included the respondent's current employment status as well as professional role (eg, physician, fellow, resident, retired, and administration). The third step included the respondent's current partner relationship status (married, single, living together, etc.), and their partner's professional role (e.g., physician, fellow, resident,

retired, and administration). The final step included symptoms of mental health problems (e.g., depression, anxiety, suicidality personality disorder, etc.).

Results

Prevalence

Of the 400 respondents, 96 (24.0%) reported some form of IPV (see Table 2). The most frequent form of IPV was verbal abuse (14.8% of respondents). Physical (7.5%) was the next most common form of IPV followed by sexual abuse (4.0%) and stalking (3.8%). Asian Americans reported slightly higher rates of IPV (31.7%). Females and males both reported IPV with female reports being higher than male reports by 8.2%. Respondents who did not have a child living at home were significantly more likely to report current IPV, and individuals who are not currently in a relationship or who experienced childhood abuse were the most likely to report IPV. There was no notable difference between the various professional roles or work settings.

Logistic Regression Models

Using the variables outlined in the methods section, a final logistic regression model was constructed (see Table 3). Given that first demographic block of variables was fit with

	Current IPV	No current IPV	Total N	χ^2
N	96	304	400	
%	24.0	76.0		
	% Current IPV	% No current IPV		
Ethnicity				11.6**
White	25.4	74.6	299	
Asian American	31.7	68.3	41	
Hispanic	16.7	83.3	12	
Other	10.4	89.6	48	
Gender				3.65*
Female	28.6	71.4	175	
Male	20.4	79.6	225	
Age				1.14
<40	22.8	77.2	162	
41–65	26.4	73.6	125	
65–89	28.7	71.3	87	
Children				7.17***
Has children in home	17.8	82.2	185	
No children in home	29.3	70.7	215	
Relationship				57.5***
In a relationship	15.2	84.8	309	
Not in a relationship	53.8	46.2	91	
Childhood violence				21.3***
Experienced relational violence	38.7	61.3	124	
No relational violence	17.4	82.6	276	
Employment				
Hospitalist	23.3	76.7	30	0.09
Clinical medicine	27.9	72.1	172	0.84
Medical education	26.9	73.1	26	0.02
Medical administration	25.0	75.0	16	0.00
Retired	26.2	73.8	65	0.01
Fellow	29.6	70.4	27	0.24
Resident	19.5	80.5	82	2.09

Table 2. Prevalence of Intimate Partner Violence by Demographic Groups.

Abbreviation: IPV, intimate partner violence.

*P<.05, **P<.01, ***P<.001.

the enter method, all variables are included in the model. For steps 2 to 4, only the statistically significant variables are presented in Table 3. In this model, individuals within a current relationship were significantly less likely to report current IPV. IPV was more likely reported by older age cohorts (ages 66-89), in comparison to younger cohorts (ages 18-40). Within the model, and after controlling for relationship status and age, the variables of gender, children in the home, and ethnicity did not significantly change the odds of current IPV. Rather, being a victim of childhood abuse, working less than full time and being diagnosed with a personality disorder significantly increased the odds of a respondent reporting current IPV.

Variables that did not achieve significance in the model included: the partner's professional role and level of employment, the respondent's professional role and other mental health symptoms (e.g., depression, anxiety, suicidality, eating disorders, etc.).

Discussion

Our survey explored 2 research questions: What is the experience of physicians, fellows, and residents who are, or have been involved in an intimate relationship that is controlling or abusive and what characteristics or conditions are correlated with IPV experience? Results confirmed that 24% of physicians reported personal experience with IPV. Unlike many other physician IPV surveys to our knowledge, our sample reported psychological, physical, sexual abuse, stalking, and controlling partner behaviors. Our findings on physical and sexual abuse are similar to other national studies showing 22.3% for women and 14.0% for men reporting

Predictor	В	SE	e ^B	95% CI
In a relationship	-3.69***	0.48	0.03	0.01-0.06
Age (66-89)	1.19**	0.47	3.29	1.32-8.21
Female	0.09	0.36	1.10	0.55-2.21
Children in home	0.45	0.39	1.56	0.74-3.32
White	0.28	0.61	1.32	0.40-4.33
Asian	0.74	0.72	2.09	0.51-8.52
Childhood violence	1.41***	0.33	4.10	2.15-7.84
Part time employed	1.01***	0.51	2.76	1.02-7.43
Personality disorder	1.61**	0.56	4.98	1.67-14.81
Constant				
χ^2	135.7***			
Df	10			
Nagelkerke R ²	45			
Correct classification	84.7%			

Table 3. Summary of Logistic Regression Analysis for Predicting Presence of Intimate Partner Violence.

Abbreviation: $e^{B} = exponentiated B$.

Variables n.s. not reported in table include: partner's professional role and level of employment, respondent's professional role and other mental health symptoms.

*P<.05. **P<.01. ***P<.001.

at least 1 IPV incident in their lifetime.²⁴ Our measures included controlling relationships and emotional abuse, unlike most national studies. Physicians also reported subsequent relationships marked by IPV (7%).

Results indicated that female physicians experienced more IPV than men. This is consistent with national studies showing IPV affects 1 in 4 women and 1 in 10 men in some form or another.^{24,46} Children in the home may increase vulnerability to IPV, both because child caring responsibility may fall more to women, who may delay taking action to leave out of desire to protect children.³⁹ Some qualitative studies have implied that this might be true, but our results did not necessarily support this issue indicating more research is needed.⁴⁷ Our model indicated that part-time employment is also a predictor of IPV. This is consistent with studies linking unstable or lack of full-time employment to increased risk of IPV injury, which was also more common for women.⁴⁸

Our model identified early childhood abuse as a significant predictor of reporting IPV later in life. This finding is supported by several studies.⁴⁹⁻⁵¹ Narayan et al. found that exposure to inter-parental violence during infancy and preschool was correlated with reported IPV at age 23.⁵⁰ Afifi et al. found that even a lower "threshold" of harsh punishment in childhood was linked to higher victimization as adult.⁵¹ There is a need to screen for early exposure to violence in all patients, and physicians are not immune from these risks.

Study results showed that being older (65-89 years of age) was a significant predictor among physicians. This finding is inconsistent with a large US study whereby the biggest age group reporting IPV was 18-24.²⁴ Recent studies, however, have documented a growing trend in IPV

among the elderly.⁵² We speculate that while physicians are not immune to experiencing IPV, the stigma related to reporting is so strong that it may suppress reporting until physicians are more established or even retired from their careers. Haselschwerdt and Hardesty discussed this stigma in their study of IPV in affluent communities.¹⁴ Women of affluence described a "secrecy management process" rooted in "shame, self-blame for their choice of husband and the violence, fear for their own and their children's safety. . . not wanting to burden others with their 'personal problems'" (p. 563).¹⁴ Lifetime IPV prevalence is highest in populations with incomes below the poverty level; however, the group with the third highest IPV prevalence is from the highest income brackets.⁵²

Our findings also varied from the general population regarding race in that race/ethnicity was not predictive. Hispanic IPV prevalence is between 30% and 34% and Asian/Pacific Islander prevalence between 14% and 18%.⁵³ In a more recent study, Hispanics were the third highest prevalence to report IPV to police, after Whites and Blacks.⁵⁴ However, that study combined Asian Americans, Native Americans, and biracial participants into 1 category; prevalence of Asian American victimization was unknown. It is unclear why Hispanic physician prevalence is lower than Asian American physician prevalence in our data. More research is needed to understand how stigma within cultural contexts affects lived experience and potential correlation of socio-economic and minority status in earlier studies.

IPV odds increased for physicians reporting a history of personality disorder. Personality and mental health disorders are well-documented predictors of IPV perpetrators but few studies examine the relationship for victims.⁵⁵⁻⁵⁷

Willie et al. found that adverse childhood events (ACEs) directly predicted IPV severity in women as well as depression and post-traumatic symptoms.⁵⁸ This highlights the need to support physicians carrying both mental health challenges and IPV victimization.

Our study has implications for physician training. We hypothesize that many medical trainees do not identify IPV as a public health issue for physicians who may be their future patients. Physicians should be taught efficacious screening models and the implication for applying those models to their peers.^{6,18} Interactive case studies about physician IPV should be offered to all residents, such as is provided by the American College of Surgeons.⁵⁹

Physician struggles with IPV certainly influences ability to deliver patient care.⁶⁰ We only begin the discussion of how to help physicians effectively treat patients while tormented by events at home. To our knowledge, few resources exist that address these unique concerns. Workplace interventions are needed to support physicians while protecting their license, reputation, and physical/emotional safety. Physicians also need to understand that domestic abuse shelter helplines and personnel offer education and encouragement, including attorney recommendations and ways to improve personal safety.

Our findings indicate that both men and women physicians experience IPV. Strengths of the study include development of a standardized instrument to assess IPV and the inclusion of physicians at various career stages from more than 1 institution. Our study also asked about specific experiences and did not rely on just 1 IPV measure or participant definition. Limitations include self-report, which may have led to under-reporting due to non-response bias which limits generalizability of our results.⁶¹ We included men in our sample; however our study did not specifically assess the experiences of transgender or same-sex relationships.

Continued research is needed to describe the experience of physicians in order to identify ongoing needs to develop appropriate interventions.

Conclusion

IPV is a seldom discussed but salient public health concern for physicians. We hope this study improves recognition that physician IPV is an unfortunate but common threat to physician wellbeing. Continued research is needed so that physicians are not relegated to silent suffering while they care for the wellbeing of their patients.

Declaration of Conflicting Interests

The author(s) declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Funding

The author(s) received no financial support for the research, authorship, and/or publication of this article.

ORCID iDs

Ellen T. Reibling D https://orcid.org/0000-0002-6639-6170 Mindi Guptill D https://orcid.org/0000-0001-6273-3590

References

- Centers for Disease Control. Web-based injury statistics query and reporting system. https://www.cdc.gov/injury/wisqars/ index.html. Accessed December 20, 2019.
- Peterson C, Kearns MC, McIntosh WL, et al. Lifetime economic burden of intimate partner violence among U.S. adults. *Am J Prev Med.* 2018;55:433-444.
- World Health Organization. Understanding and addressing violence against women. https://apps.who.int/iris/bitstream/ handle/10665/77432/WHO_RHR_12.36_eng.pdf. Accessed August 30, 2020.
- Basile KC, Black MC. Intimate partner violence against women. In: Renzetti CM, Edleson JL, Bergen RK (eds) *Sourcebook on Violence Against Women*. Georgia: Sage Publications; 2011:111-132.
- Coker AL, Davis KE, Arias I, et al. Physical and mental health effects of intimate partner violence for men and women. *Am J Prev Med.* 2002;23:260-268.
- Hernandez BC, Reibling ET, Maddux C, Kahn M. Intimate partner violence experienced by physicians: a review. J Women's Health. 2016;25:311-320.
- McLindon E, Humphreys C, Hegarty K. It happens to clinicians too: an Australian prevalence study of intimate partner and family violence against health professionals. *BMC Women's Health.* 2018;18:113.
- Doyle J, Frank E, Saltzman L, McMahon P, Fielding B. Domestic violence and sexual abuse in women physicians: associated medical, psychiatric, and professional difficulties. *J Womens Health Gend Based Med.* 1999;8:955-965.
- Rodriguez M, Bauer H, McLoughlin E, Grumbach K. Screening and intervention for intimate partner abuse: practices and attitudes of primary care physicians. *JAMA*. 1999; 282:468-474.
- Stenson K, Heimer G. Prevalence of experiences of partner violence among female health staff: relevance to awareness and action when meeting abused women patients. *Womens Health Issues*. 2008;18:141-149.
- Candib L, Savageau J, Weinreb L, Reed G. Inquiring into our past: when the doctor is a survivor of abuse. *Fam Med*. 2012;44:416-424.
- Haj-Yahia MM, Sousa C, Alnabilsy R, Elias H. The influence of Palestinian physicians' patriarchal ideology and exposure to family violence on their beliefs about wife beating. *J Fam Viol.* 2015;30:263-276.
- Brown C. Physicians not immune to intimate partner violence. CMAJ. 2018;190:E1372-E1373.
- Haselschwerdt ML, Hardesty JL. Managing secrecy and disclosure of domestic violence in affluent communities. J Marriage Fam. 2017;79:556-570.
- Wistrand J. When doctors are patients: a narrative study of help-seeking behavior among addicted physicians. *Med Humanit*. 2017;43:19-33
- Smith SG, Chen J, Basile KC, et al. The national intimate partner and sexual violence survey (NISVS): 2010-2012 state report. *Centers for Disease Control and Prevention*. https://

www.cdc.gov/violenceprevention/datasources/nisvs/summaryreports.html. Accessed August 30, 2020.

- Curry SJ, Krist AH, Owens DK, et al. Screening for intimate partner violence, elder abuse, and abuse of vulnerable adults: US Preventive Services Task Force Final recommendation statement. *JAMA* 2018;320:1678-1687.
- Sprague S, Slobogean GP, Purr H, et al. A scoping review of intimate partner violence screening programs for health care professionals. *PLoS One*. 2016;11:e0168502.
- Fond G, Bourbon A, Lancon C, et al. Psychiaric and psychological follow-up of undergraduate and postgraduate medical students: prevalence and associate factors. *Psychiatry Res.* 2019;272:425-430.
- O'Doherty L, Hegarty K, Ramsay J, et al. Screening women for intimate partner violence in healthcare settings [published online July 25 2015]. *Cochrane Database Syst Rev.* doi:10.1002/14651858
- Karakurt G, Smith D, Whiting J. Impact of intimate partner violence on women's mental health. *J Fam Violence*. 2014; 29:693-702.
- 22. Chang EC, Kahle ER, Hirsch JK. Understanding how domestic abuse is associated with greater depressive symptoms in a community sample of female primary care patients: does loss of belongingness matter? *Violence Against Women*. 2015;21: 700-711.
- Nelson TS, Allred DD. Survey Research. In: Sprenkle DH, Piercy FP (eds) *Research Methods in Family Therapy*. New York: Guilford Press, 2005:211-237.
- 24. Breiding MJ, Smith SG, Basile KC, et al. Prevalence and characteristics of sexual violence, stalking, and intimate partner violence victimization in the United States-National Intimate Partner and Sexual Violence Survey, United States, 2011. MMWR. 2014;63:1-18.
- Kalra G, Bhugra D. Sexual violence against women: understanding cross-cultural intersections. *Indian J Psych.* 2013;55: 244-249.
- Modi N, Palmer S, Armstrong A. The role of violence against women in addressing intimate partner violence: a public health issue. *J Women's Health*. 2014;23:253-259.
- James L, Brody D, Hamilton Z. Risk factors for domestic violence during pregnancy: a meta-analytic review. *Violence Vict.* 2013;28:359-380.
- Sugg N. Intimate partner violence. *Med Clin North Am.* 2015; 99:629-649.
- 29. Sumner SA, Mercy JA, Dahlberg LL, Hillis SD, Klevens J, Houry D. Violence in the United States: status, challenges, and opportunities. *JAMA*. 2015;314:478-488.
- Laing L. Secondary victimization: domestic violence survivors navigating the family law system. *Violence Against Women*. 2017;23:1314-1335.
- Stark E. Coercive Control: How Men Entrap Women in Personal Life. New York: Oxford University Press; 2007.
- 32. Velonis AJ. "He never did anything you typically think of as abuse": experiences with violence in controlling and noncontrolling relationships in a non-agency sample of women. *Violence Against Women*. 2016;22:1031-1054.
- Green K, Kukan Z, Tully RJ. Public perceptions of 'negging': lowering women's self-esteem to achieve sexual conquest. J Aggress Confl Peace Res. 2017;9:95-105.

- Guerin B, de Oliveira Ortolan M. Analyzing domestic violence behaviors in their contexts: violence as a continuation of social strategies by other means. *Behav Soc Issues*. 2017; 26:5-26.
- Allen T, Fox KA. Multivariate dimensions of age, gender, and weapon use in spousal homicides. *Vict Offender*. 2013; 8:329-346.
- Bancroft L, Silverman JG, Ritchie D. The Batterer as Parent: Addressing the Impact of Domestic Violence on Family Dynamics. 2nd ed. Thousand Oaks, CA: Sage Publications; 2002.
- Newberry M. Pets in danger: exploring the link between domestic violence and animal abuse. *Aggress Violent Beh.* 2017;34:273-281.
- Branigan E. "Who pays in the end?" The personal and political implications of financial abuse of women in intimate partner relationships. *Just Policy*. 2007;44:31-36.
- Dutton DG, White KR. Male victims of domestic violence. New Male Studies. 2013;2:5-17.
- Erez E, Adelman M, Gregory C. Intersections of immigration and domestic violence: voices of battered immigrant women. *Fem Criminol*. 2009;4:32-56.
- Swanberg JE, Ojha MU, Macke C. State employment protection statutes for victims of domestic violence: public policy's response to domestic violence as an unemployment matter. J Interpers Violence. 2012;27:587-619.
- Hegarty K, Sheehan M, Schonfeld C. A multidimensional definition of partner abuse: development and preliminary validation of the composite abuse scale. *J Fam Violence*. 1999; 14:399-415.
- Brown J, Burnette ML, Cerulli C. Correlations between sexual abuse histories, perceived danger, and PTSD among intimate partner violence victims. *J Interpers Violence*. 2015; 30:2709-2725.
- 44. Ernst AA, Weiss SJ, Del Castillo C, et al. Witnessing intimate partner violence as a child does not increase the likelihood of becoming an adult intimate partner violence victim. *Acad Emerg Med.* 2007;14:411-418.
- 45. Tabachnick BG, Fidell LS. *Using Multivariate Statistics*. 7th ed. Boston, MA: Pearson Publishing; 2018.
- Truman JL, Morgan RE, BJS statisticians. Nonfatal domestic violence, 2003-2012. U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Statistics. https://www. bjs.gov/content/pub/pdf/ndv0312.pdf. Accessed August 30, 2020.
- 47. Humphreys J, Campbell JC. Family Violence and Nursing Practice. 2nd ed. New York: Springer Publishing; 2011.
- Crandall ML, Nathens AB, Kernic MA, Holt VL, Rivara FP. Predicting future injury among women in abusive relationships. *J Trauma*. 2004;56:906-912.
- Widom CS, Czaja S, Dutton MA. Child abuse and neglect and intimate partner violence victimization and perpetration: a prospective investigation. *Child Abuse Negl.* 2014; 38:650-663.
- Narayan AJ, Labella MH, Englund MM, Carlson EA, Egeland B. The legacy of early childhood violence exposure to adulthood intimate partner violence: variable- and person-oriented evidence. *J Fam Psych.* 2017;31:833-843.
- 51. Afifi TO, Mota N, Sareen J, MacMillan HL. The relationships between harsh physical punishment and child maltreatment in

childhood and intimate partner violence in adulthood. *BMC Public Health*. 2017;17:493.

- McGarry J, Ali P, Hinchliff S. Older women, intimate partner violence and mental health: a consideration of the particular issues for health and healthcare practice. *J Clin Nurs*. 2017;26:2177-2191.
- U.S. Department of Justice. National crime victimization survey, concatenated file, 1992-2015. *Bureau of Justice Statistics*. https://ovc.ncjrs.gov. Accessed August 30, 2020.
- Reaves BA. Police response to domestic violence, 2006-2015. Bureau of Justice Statistics. U.S. Department of Justice. https://www.bjs.gov. Accessed August 30, 2020.
- 55. Spencer C, Mallory AB, Cafferky BM, et al. Mental health factors and intimate partner violence perpetration and victimization: a meta-analysis. *Psych Violence*. 2017;9:1.
- Weinstein Y, Gleason MEJ, Oltmanns TF. Borderline but not antisocial personality disorder symptoms are related to selfreported partner aggression in late middle-age. J Abnormal Psych. 2012;121:692-698.

- 57. Armenti NA, Snead AL, Babcock JC. Exploring the moderating role of problematic substance use in the relations between borderline and antisocial personality features and intimate partner violence. *Violence against Women*. 2018;24:223-240.
- Willie TC, Kershaw T, Sullivan TP. The impact of adverse childhood events on the sexual and mental health of women experiencing intimate partner violence [published online October 3, 2018]. J Interpers Violence. doi:10.1177/0886260518802852
- Bass BL, Hebert JC, Numann PJ, Turner PL. Intimate partner violence scenario. *American College of Surgeons*. https://www. facs.org/education/program/fsc/ipv. Accessed August 30, 2020.
- 60. Sing Sun K, Lam TP, Piterman L, et al. Management of domestic violence by primary care physicians in Hong Kong: association with barriers, attitudes, training, and practice background [published online August 17 2019]. *J Interpers Violence*. doi:10.1177/0886260519869067
- McNutt L, Lee R. Intimate partner violence prevalence estimation using telephone surveys: understanding the effect of nonresponse bias. *Am J Epidemiol*. 2000;152:438-441.