the situation will remain idle, Americans will remain polarized, and beliefs instead of knowledge will guide policy. But several changes indicate that the field of gun violence prevention is evolving rapidly.

First, as stressed by Galea et al. (p. 858), there have been more publications about gun violence since their historical call of March 2017 in $AIPH^2$ than there were between 2000 and 2016. Moreover, on March 14, a letter signed by 26 senators addressed to Senator Lamar Alexander (R, TN) and Senator Patty Murray (D, WA), chairman and ranking member, respectively, of the Senate Committee on Health, Education, Labor and Pensions, requested "\$10 million in funding for each fiscal year through 2023 for the CDC to conduct or support firearms safety or gun violence prevention research" (available in the Appendix, available as a supplement to the online version of this article at http://www.ajph.org). The letter specifically mentioned the Boston University School of Public Health initiative that led to the AJPH March 2017 article:

In 2016, representatives from 42 public health schools and 17 leading public health and gun violence prevention organizations convened in Massachusetts to address gun violence as a public health crisis. Their recommendations were subsequently published in the *American Journal of Public Health*—the first of which was to bolster gun violence research and scholarship.

According to Galea et al., this is an opportunity to "recover from a lost generation of firearms research."

Second, is the compromise on the Dickey Amendment that took place in March 2018 as part of the negotiations on the \$1.3 trillion spending bill. The Dickey provision is in the bill, but it is accompanied by a report clarifying that research on the causes of gun violence can receive federal funds "While appropriations language prohibits the CDC and other agencies from using appropriated funding to advocate or promote gun control, the Secretary of Health and Human Services has stated the CDC has the authority to conduct research on the causes of gun violence" (bit.ly/ 2GR4B2u, p. 23).

Third, there are indications that voices other than the NRA's on gun violence are being heard. Charles Philips (p. 868) comments on the results of a national survey taken by Wertz et al. (p. 871) showing that the approximately 1 million Americans who become new gun owners each year tend to be more liberal and own fewer guns, that

these are mostly handguns for protection, and that the guns are stored locked and unloaded. Philips explains that the combination of waning public support for the NRA, student activism, and the changing nature of gun ownership is generating a new power balance. As a case in point, the aftermath of the Parkland tragedy, punctuated by the National Student Walkout and the March for Our Lives, contributed to the Florida State Legislature passing legislation that raises the age for purchasing firearms to 21 years, bans bump stocks, and requires a threeday waiting period for gun purchases.

OPEN ACCESS

In an effort to widen gun violence research as much as possible, the American Public Health Association has placed all AIPH gun violence research, including editorials and full articles, in open access. It is freely accessible at https://ajph.aphapublications.org/ topic/gunviolence. This generous (each of the dozens of articles costs \$2500) move has been followed by one of the American Journal of Preventive Medicine, which, invoking our example, has opened its collection of firearms articles. Moreover, future AJPH firearms

research publications will also be in open access, and we are starting with three articles in this issue dealing with different aspects of gun ownership by Wertz et al. (p. 871), Barry et al. (p. 878), and Morgan et al. (p. 882).

In this issue's dossier, Teachers in Arms?, *AJPH* provides the evidence and history to promote sound gun policy and protect public health. *AJPH*

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Shifting the Focus in Intimate Partner Violence Research



See also Yakubovich et al., p. 957;e1.

In this issue of *AJPH*, Yakubovich et al. (p. 957;e1) present a systematic review of predictors of women's intimate partner violence (IPV) experiences. IPV is a global public health concern and includes experiences of physical and sexual violence, stalking, and psychological aggression at the hands of

a current or ex-partner. The World Health Organization estimates that 35% of women across the globe have experienced IPV. ¹ IPV has profound effects on the physical, mental, and emotional health of those affected and profound social and economic consequences.

Yakubovich et al. conducted a rigorous systematic review, ascertained from longitudinal cohort studies, of risk and protective factors associated with women's self-reported experiences of IPV. The authors examined 30 years' worth (1986–2016) of published and unpublished English-language cohort studies, which they

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identified through a search of 16 online databases. They reviewed the titles or abstracts of more than 18600 publications for inclusion. In this initial screening, the authors eliminated ineligible studies and selected 309 publications for full-text review. Of these, 60 met study inclusion criteria: quantitative analysis of at least one risk factor for IPV; women's selfreport of physical, sexual, or psychological IPV; women being at least 19 years old; and measurement of the study risk factors before the assessment of IPV. Although the overwhelming majority (80%) of studies reviewed originated in the United States, studies from all countries and regions were eligible.

Yakubovich et al. evaluated risk and protective factors associated with IPV. They found the strongest evidence that unplanned pregnancy and having parents with less than high school education were associated with higher likelihood of IPV, whereas being older and married were protective. This systematic review and meta-analysis provides valuable insights into the breadth and quality of risk factor research and highlights important directions for future research.

QUALITY OF INTIMATE PARTNER VIOLENCE RESEARCH

Yakubovich et al. evaluated study quality using the Cambridge Quality Checklists, which weighed the impact of sampling, participation rates, sample size, measure of risk or protective factor, validation of outcome measures, and adjustment of confounding.2 The criteria of prospective assessment of outcome and longitudinal follow-up were restricted at the level of study inclusion criteria. The authors combined risk factors that were present in multiple independent studies using similar methodology (i.e., similar variable definitions) in a random-effects meta-analysis.

The review of Yakubovich et al. highlights a number of important features of the

epidemiologic research on women's IPV experiences. First, and most heartening, the overall assessment of quality of studies was high (62%-92%). The most common limitations were poor participation rates and the absence of random sampling. However, one third of the studies reported the use of IPV measures with either poor or inadequately reported validity or reliability. Further, no studies included all four of the main classifications of IPV: physical violence, sexual violence, stalking, and psychological aggression³; only seven (12%) studies measured psychological, physical, and sexual IPV. Among the remaining studies, most assessed physical IPV (98%), and 40% and 32% assessed sexual and psychological IPV, respectively. The implementation of consistent and comprehensive definitions of IPV is essential for actionable target selection for intervention and trend monitoring.

RESEARCH FOCUS

The systematic review, which classified risk and protective factors, was informed by the ecosocial framework.4 This model for IPV prevention is multilevel and intersectional-reflecting the interaction between individuals and the environment. Yakubovich et al. identified 71 risk and protective factors and classified them into four levels: individual, relationship, community, and societal. Relationship characteristics (n = 35) were the most numerous factors identified and included partner characteristics (n = 19; e.g., age, socioeconomic characteristics, alcohol use, sexual risk), individual characteristics of the women relevant to relationships (n = 9; e.g., life stress,relationship satisfaction, selfreported autonomy), and characteristics of the relationship (n = 7;e.g., marital status, relationship duration, parenting status, financial stress). Examining studies classified by unit of analysis—woman, partner, couple, community, or society (Figure 1)—shows that the published research has disproportionately focused on women's characteristics over other units of analysis.

Considerable research effort has been expended to examine the role of women in their experiences of IPV. Supplemental Tables 8 through 34 in Appendix B of Yakubovich et al. carefully document the attention paid to women's individual-level characteristics that predispose them to or protect them from IPV: their use of alcohol, marijuana, and other substances; their experiences with depression, posttraumatic stress, and suicide; their experiences of previous violence, forced sexual intercourse, child abuse, and interparental IPV; their physical health, limitations, and HIV status; their sexual histories: their

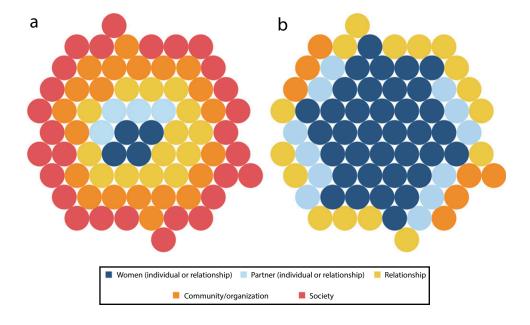


FIGURE 1—Levels of Prevention of Intimate Partner Violence Comparing (a) Conceptual Ecosocial Framework With (b) Results From a Systematic Review of Cohort Studies

personalities; and their aggressive tendencies and hostility.

The second level of the ecosocial model—relationship—also included a significant focus on the experiences and history of the individual woman. For example, whether the woman was from a single mother family, whether she was satisfied in the relationship, and whether she had a positive relationship with her parents.

These lists are both staggering in their specificity and heartbreaking when considered within the context of structural gender-based inequities. Research has disproportionately focused on the level and unit with the least agency or ability to make choices and transform choices into desirable outcomes. Exacerbating characteristics, including ethnicity, sexual orientation, and socioeconomic position, may attenuate or exacerbate an individual's woman's risk, but it is essential to consider gender inequity as a fundamental cause of IPV.5 Women's social positioning may result in an underlying vulnerability to IPV. As a research community, we must push to measure the multilevel and contextual predictors of IPV.

This review also highlights the dearth of data on partner

characteristics, and communityand societal-level risk and protective factors limited inferences related to these critical constructs. The strongest evidence was limited to factors that were individual characteristics of women who report IPV. Of the 19 variables reflecting partner characteristics, only two (alcohol use and parental monitoring) had enough studies for inclusion in meta-analyses. This lack of evidence, combined with inconsistency in measuring partner characteristics, attitudes, and behaviors, is an important gap in the field.

The most disheartening finding of this systematic review is that few studies examined community- and societal-level risk factors. Although Yakubovich et al. implemented a rigorous search, they were not able to identify a single cohort study that examined societal contexts in which IPV exists and persists. Although the focus on longitudinal studies may have increased the emphasis on traditional, established measures of individual and relationship characteristics over measures of context and interplay among levels, clearly more research should pay attention to community- and societal-level

predictors of IPV. Major IPV prevention initiatives, including those spearheaded by the United Nations and World Health Organization, emphasize the importance of comprehensive, multilevel interventions for the reduction of IPV.

SUMMARY

The systematic review by Yakubovich et al. provides essential insights into the state of IPV research from prospective cohort studies. Future research and funding should be directed to analyses of IPV predictors that focus on both the multiple levels of causation of IPV and the interactions among levels. Moreover, our understanding of individuals and relationships is limited when studying them ex vivo, or removed from their environments. Finally, researchers should remain mindful of the unintended consequence of "blaming the victim," that is, focusing research and interventions at the level of the woman experiencing IPV-to the exclusion of other causeswithout a concrete analysis of the role of structural gender

inequities and women's agency. AJPH

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The Importance of State Leadership: Lessons From Kentucky on Reducing Disparities in Insurance Coverage



See also Blewett et al., p. 924.

No state serves as a better test case than Kentucky for the impact of state-level leadership on the success of the Patient Protection and Affordable Care Act (ACA; Pub L No. 111-148, 124 Stat. 855 [March 2010]) coverage expansions. During his State of

the Union speech in 2014, President Barack Obama celebrated Kentucky's work to implement the Medicaid expansion and build a health insurance exchange. President Obama singled out Governor Steve Beshear and called the state an example for the rest of the nation.

Two years later, I interviewed Governor Beshear for a book I was finishing on health insurance exchanges.¹ He was immensely proud of his success but worried about sustainability. He had just been term-limited from office and replaced by Matt Bevin, a Republican who campaigned on ending the state's cooperation with the ACA. Bevin has since

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