Integrating Intimate Partner Violence Assessment and Intervention into Healthcare in the United States: A Systems Approach

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Abstract

The Institute of Medicine, United States Preventive Services Task Force (USPSTF), and national healthcare organizations recommend screening and counseling for intimate partner violence (IPV) within the US healthcare setting. The Affordable Care Act includes screening and brief counseling for IPV as part of required free preventive services for women. Thus, IPV screening and counseling must be implemented safely and effectively throughout the healthcare delivery system. Health professional education is one strategy for increasing screening and counseling in healthcare settings, but studies on improving screening and counseling for other health conditions highlight the critical role of making changes within the healthcare delivery system to drive desired improvements in clinician screening practices and health outcomes.

This article outlines a systems approach to the implementation of IPV screening and counseling, with a focus on integrated health and advocacy service delivery to support identification and interventions, use of electronic health record (EHR) tools, and cross-sector partnerships. Practice and policy recommendations include (1) ensuring staff and clinician training in effective, client-centered IPV assessment that connects patients to support and services regardless of disclosure; (2) supporting enhancement of EHRs to prompt appropriate clinical care for IPV and facilitate capturing more detailed and standardized IPV data; and (3) integrating IPV care into quality and meaningful use measures. Research directions include studies across various health settings and populations, development of quality measures and patient-centered outcomes, and tests of multilevel approaches to improve the uptake and consistent implementation of evidence-informed IPV screening and counseling guidelines.

Introduction

In 2011, the Institute of Medicine (IOM) highlighted the prevalence of intimate partner violence (IPV) and its devastating impact on women's health and recommended "screening and counseling for all women and adolescent girls for interpersonal and domestic violence in a culturally sensitive and supportive manner" in a report on clinical preventive services for women. The United States (US) Department of Health and Human Services followed with inclusion of screening and counseling for domestic violence in the "Women's Preventive Services Guidelines." In 2013, the US Preventive Services Task Force (USPTF) recommended health screening for IPV for all women of child-

bearing age and provision of, or referral to, intervention services for women who screen positive. The Affordable Care Act includes IPV screening and brief counseling as part of required free preventive services for women; thus, such screening and counseling must be implemented safely and effectively throughout the health care delivery system.

The recommendation to include IPV screening in health-care as routine practice is not new. 5-10 Research indicates that screening and counseling for IPV can identify survivors and, in some cases, increase safety, reduce abuse, and improve clinical and social outcomes. 11-19 Possible harms or unintended consequences of clinical assessment have been raised and considered in research trials, but thus far no evidence of such harm has emerged. 19-21 Barriers for

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implementation of IPV screening and counseling are myriad, including clinician concerns about time; limited incentives for screening²²; either nonexistent or poorly implemented policies to guide clinicians and practices in conducting screening; lack of knowledge and confidence about how to support a patient who discloses IPV, 23-27 which may reflect lack of reliable intervention services ²⁸; and inadequate crosssector collaborations with victim service advocates. 29,30 Addressing barriers and improving screening, counseling, and referral practices require attention to multiple levels within the healthcare delivery system to create a safe, trusting environment for patients.³¹ Strategies include provider education, ^{29,32–34} patient support and engagement, policies and protocols for clinical settings, ^{34–37} collaboration with IPV advocates, as well as environmental cues, reminders within the electronic health record (EHR), and quality incentives integrated into clinic flow. 34,38 Studies are needed on how to implement clinical guidelines for IPV screening and assessment, with attention to barriers and strategies to increase the efficiency and effectiveness of screening, counseling, and referral processes.

Although health professional education is one core strategy for increasing IPV screening and counseling in the clinical setting, ^{39–42} studies on screening and counseling for other health conditions highlight the critical role of changes at the healthcare system level to drive desired improvements in clinician screening practices. ^{43–46} This article outlines a systems approach to the implementation of IPV screening and counseling, with a focus on integrated health and advocacy service delivery, use of EHR tools and cross-sector partnerships, and identifies areas for research on approaches to improve the uptake and consistent implementation of these IPV screening and counseling guidelines in the United States.

IPV Screening and Interventions

"Screening" in public health refers to the use of a test, examination, or other procedure rapidly applied in an asymptomatic population to identify individuals with early

disease. Although the intention is to identify "asymptomatic" and "early" IPV to prevent morbidity and mortality, IPV is such a stigmatized social problem that many victims may not be truly "asymptomatic" when screened, simply hidden. In fact, the health impact may be quite advanced. Thus, "screening" in the traditional sense is not consistent with what happens in the clinical encounter; the screening procedure refers more to empathic inquiry and may or may not include a standardized question. When risk or exposure to past or current IPV is assessed through such inquiry, the impact of the encounter can be primary prevention for patients with no history of exposure, secondary prevention for patients with past exposure, or tertiary prevention (i.e., early intervention) for patients with current or acute exposure. 11,50–52

The health professional and patient interface

IPV may be identified in the clinical setting because either the patient or a third party, such as police or emergency medical services (EMS) personnel, discloses IPV or because the health professional inquires about past or current exposure (Fig. 1). Assessment for past or current IPV can occur through direct questioning as part of a routine health survey (patient or provider-delivered) or through pattern recognition when signs and symptoms in the history and physical exam alert the clinician to explore the possibility of IPV. Even when IPV is clinically suspected, patients may not disclose IPV for myriad reasons. In addition to the usual dichotomy of positive IPV and negative IPV cases, there is a third category of no disclosure but suspected IPV patients who could benefit from connections to support and services. Routine inquiry with provision of information about IPV-related resources for all patients, regardless of disclosure, may be particularly meaningful for this category of patients and has been associated with an increase in patient satisfaction with healthcare services. 31,48,53

Each patient group should have tailored interventions with different objectives, guided by the patient's desires and

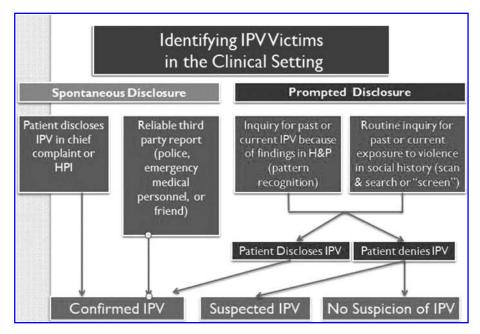


FIG. 1. Identifying intimate partner violence victims in the clinical setting. H&P, history and physical; HPI, history of present illness; IPV, intimate partner violence.

94 MILLER ET AL.

context. Factors such as patient safety, privacy, and legal issues must be considered, and the duality of perpetrator and victim (and often children) means that interventions are not isolated just to the victim. Additionally, IPV can be of one type or mixed, meaning that patients may be experiencing physical abuse, sexual abuse, psychological abuse, and/or unspecified maltreatment. These are just some of the reasons that research about screening and interventions for IPV is complex and challenging. The International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) supports more detailed diagnostic codes for IPV exposure and suspected or confirmed IPV, and robust EHRs (with careful attention to confidentiality) should promote the capture of more specific IPV diagnostic and treatment data.

Many research questions remain unanswered regarding the range of optimal approaches to IPV screening.⁵⁴ These questions include comparisons of methods of inquiry (verbal, written, online); the effectiveness of and clients' satisfaction with standard questions compared to conversational inquiry; differences in approaches needed across clinical settings and with different populations, such as with male victims, adolescents, sexual minority individuals, or elders; and validity of screening strategies in various languages and cultures.

Systems considerations

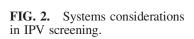
Within the healthcare delivery system, then, what are the best practices for addressing IPV to provide effective intervention and help prevent further harm? Figure 2 highlights the multiple levels to consider when implementing IPV screening and counseling interventions, as provider, healthcare system, and regulatory goals and constraints need to align with one another and with patients' needs and desires. What is at stake varies at each level for different stakeholders. Implementation of IPV screening and counseling requires an integrated response within a healthcare delivery system with buy-in from clients and health professionals to health system leaders and policy makers. Individuals exposed to IPV may seek care in multiple healthcare settings; each setting needs to have the capacity and motivation to identify, support, and connect patients to services. Such a systems-based approach

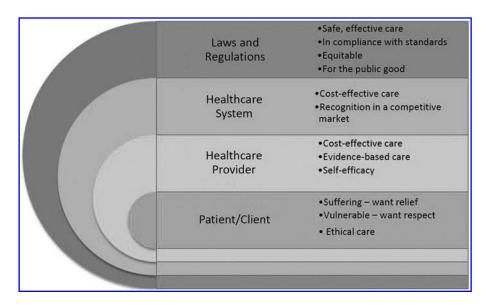
emphasizes not only health provider education but also policies, protocols, and institutional supports within the healthcare delivery system to facilitate implementation of routine IPV screening and counseling and connection to advocacy services.

Simultaneously, a systems-based approach highlights the need for cross-sector collaboration and community partnerships. Staff and clinicians within the healthcare delivery system can be connected to community and victim advocacy service providers who can support patients exposed to IPV, and those relationships can be incentivized and encouraged. Practice-based evidence and research on systems-based interventions underscore the extent to which integration of IPV assessment into routine care can be accelerated with various tools. Monitoring and tracking improvements for patients and healthcare providers should be part of systems-based practice changes, such that continuous quality improvement and ongoing performance evaluation among staff are expected. 37,49,55

The Kaiser Permanente Systems Model

An example of systems-based implementation is Kaiser Permanente (KP), the largest nonprofit health plan in the United States, with 9.2 million members, 18,000 physicians, and an integrated system of care that includes ambulatory and hospital services and a fully implemented EHR. The KP Systems Model approach, 53,55 which makes use of the entire healthcare environment (see Fig. 3) for improving IPV services, has been associated with an eightfold increase in IPV identification between 2000 and 2013 in KP's Northern California Region. Steps for implementing this approach have been described, 48,49,53,55–57 and this model is currently being adopted in other health settings. Frequent, brief, focused IPV training; a clear care path for identification and response; and a reliable referral process for on-site behavioral health and to community advocacy services have increased clinician confidence and competence in IPV inquiry and intervention. Tools linked to the EHR facilitate IPV inquiry and response, give clinicians convenient access to best practices at the point of care, ⁵⁸ and have facilitated dissemination of the Systems Model across clinical departments and KP medical centers.⁵³ KP members also report satisfaction with





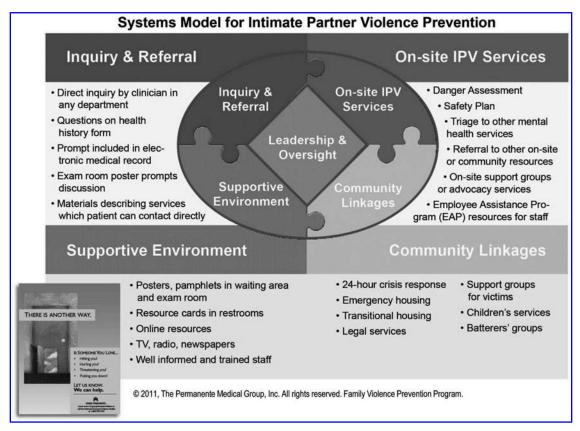


FIG. 3. Systems model for intimate partner violence prevention. (Previous version of this diagram was published in Decker MR, Frattaroli S, McCaw B, et al. Transforming the healthcare response to intimate partner violence and taking best practices to scale. J Womens Health (Larchmt) 2012; 21:1222–1229.)

seeing IPV-related brochures and posters in clinics and having clinicians routinely ask about family relationships and IPV.

EHR tools to support clinicians

EHR tools that facilitate screening for IPV include Best Practice Alerts (BPA), which are visible when the clinician opens a patient's electronic chart. BPAs can provide simple reminders to screen, offer specific questions to ask, and contain links to practice guidelines. Logic functions can be used to trigger BPA based on gender, age, type of visit (e.g., annual checkup), pattern of utilization, or chief complaint (e.g., injury).

Progress Note templates with prepopulated elements help integrate IPV assessment into routine visits and facilitate consistency in assessment. For example, the KP Gynecology Progress Note embeds a reminder to ask about current IPV, past IPV, and reproductive coercion. The KP Prenatal Evaluation Progress Note prompts specific questions on IPV, which facilitates routine inquiry and consistent documentation. When a clinician is with a patient and IPV is identified, EHR "Smart Links" offer easy-to-access practice recommendations, the danger-assessment questionnaire, safety plan tips, and IPV community resources. This system, embedded in clinical practice, also facilitates accurate coding, documentation, and follow-up.⁵⁸ The KP integrated health delivery system protects confidentiality of documentation related to IPV by including IPV among other "sensitive" diagnoses that are not visible on after-visit summaries, billing statements, or online patient portals.⁵⁹

EHR as a tool for continuous quality improvement

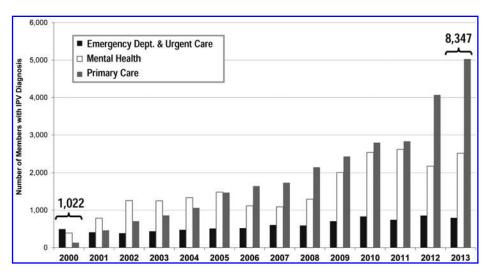
Another example of EHR functionality applied to IPV assessment is the use of automated, deidentified diagnostic databases for continuous quality improvement (CQI). Most healthcare settings already do this for such conditions as asthma, hypertension, and diabetes. For example, by using ICD codes for IPV and existing automated data systems, KP has been able to track progress over time in identification of IPV (Fig. 4). More granular data comparing departments, clinics, and medical centers demonstrate the impact of new approaches to screening and help identify best practices. Aggregated data using elements routinely documented in the EHR (such as gender, age, ethnicity, smoking status, and body mass index [BMI]) provide descriptive statistics of the population of patients identified with IPV and can guide enhancement of clinical services.

EHR as a tool for research networks

Exciting opportunities exist for US research networks to use deidentified data from the EHR to facilitate multicenter research while protecting patient privacy in the area of IPV. This kind of collaboration has already shown success in many areas: vaccination safety, chemotherapy protocols for cancer treatment, and management of chronic conditions, such as cardiovascular disease. For IPV, research questions could include risk stratification, comparative effectiveness of clinical interventions, long-term clinical outcomes, and effective

96 MILLER ET AL.

FIG. 4. Members diagnosed with intimate partner violence, 2000–2013. (Previous version of this diagram was published in Decker MR, Frattaroli S, McCaw B, et al. Transforming the healthcare response to intimate partner violence and taking best practices to scale. J Womens Health (Larchmt) 2012; 21:1222–1229.)



implementation strategies. EHRs and standard instruments to generate appropriate codes for IPV counseling and diagnoses (i.e., with ICD-10-CM codes) based on clinician and patient input may improve the data available for CQI, institutional-practice tracking, research, or public health surveillance.

Health Information Technology and IPV Screening and Counseling

As the KP experience illustrates, the combination of clinician training, a robust EHR system, and an integrated system of care supports effective IPV screening, prevention, and intervention in the course of routine healthcare delivery. Current US federal government initiatives related to health information technology (IT) and healthcare delivery (e.g., broader health insurance coverage, accountable care organizations, and patient-centered research networks) should increase the percentage of patients treated in environments with these propitious factors.

Use of certified EHRs within US hospitals and clinics has substantially increased since enactment of the Health Information Technology for Economic and Clinical Health Act (HITECH) provisions of the American Recovery and Revitalization Act in 2009. Under HITECH, Medicare- and Medicaid-eligible hospitals and health professionals may receive incentive payments (and later avoid penalties) if they use certified EHR products and required standards (e.g., terminology and record exchange) to meet specific EHR use criteria, thereby demonstrating "meaningful use" of EHRs. As more hospitals and health practices implement EHRs with certain standard capabilities and as requirements for interoperability escalate, more standardized electronic data will become available as a by-product of routine care. Certified EHRs will support increasingly robust standard data import and export mechanisms, standard interfaces to clinical decision-support tools, and methods for enabling special structured data capture^{60,61} (e.g., for screening instruments, research protocols, and patient-reported outcomes). Ability to analyze EHR data across time and care settings may provide another tool for improving IPV interventions.⁶²

While progress is made toward widespread implementation of more capable and standardized EHRs, work should proceed on ensuring that validated IPV assessment strategies and decision-support algorithms are ready for implementation in such systems. Steps include verifying that intellectual property restrictions will not prevent broad implementation within EHR systems, ensuring that concepts in key instruments and decision-support algorithms are represented in required terminology standards, and promoting community consensus on a smaller number of preferred approaches for IPV screening and counseling to increase data comparability across sites. Paramount to these discussions is the value of coordination of care, as well as attention to survivors' privacy, confidentiality, and safety. These steps may facilitate the inclusion of an IPV assessment measure in a future edition of meaningful-use requirements.⁵⁹

Healthcare Community Partnerships with Victim Advocacy and Services

As noted, assessment for IPV should become routinized through prompts in the EHR or other quality-improvement methods. Clinical staff can offer patients information about IPV-related services, regardless of any disclosure, in addition to conducting assessment for IPV during the clinical encounter. As the goal for IPV screening and counseling shifts from a sole focus on identification to creating safer spaces for patients within the healthcare delivery system, the clinical space transforms into a place to build connections to supports, services, and protection. Evidence suggests that when healthcare providers facilitate the connection for their patients to an advocate (e.g., assist with making a phone call or connecting to an advocate)—called a warm referral in practice—patients are more likely to use an intervention. 16,63,64 Health providers report, however, that they often are unfamiliar with resources and do not know what to do if a patient discloses IPV to them. 12,28,51,65-68 Unfortunately, little guidance exists on how to build these connections with victim-advocacy services, how to strengthen local connections, and how to nurture a collaborative relationship.

One example, a universal education and brief counseling intervention for female clients seeking care in family planning (FP) clinics, incorporates an introduction to local advocates as part of the clinician and staff training at each clinical site. The intervention provides universal assessment for all female FP clients about IPV and reproductive

coercion, which provides both screening and education, discussion of harm-reduction strategies to reduce risk for unintended pregnancy and IPV, and lets women know that the clinic can help make referrals to IPV-support services (supported referrals). All women are offered a safety card (or several to share with their friends) with information about harm-reduction strategies and national hotline numbers. An evaluation of this program followed women for 4 months and identified a 71% reduction in pregnancy pressure (a key element of reproductive coercion) among women experiencing recent IPV. Moreover, women receiving the intervention were also 60% more likely to end a relationship because it felt unhealthy or unsafe.¹⁷ During training to deliver this intervention, providers meet with designated advocates from local support services to enhance the referral system. Finally, the emphasis on harm reduction and connection of FP clinics with IPV services underscores that the FP clinic is a safe place for all women to seek care for unhealthy relationships. As in the KP model, patients who disclose abuse can receive immediate support. Further study is needed to identify best practices to scale these kinds of cross-sector partnerships.

Policy, Practice, and Research Recommendations

Based on current evidence supporting systems-based approaches to IPV in US clinical settings to improve health outcomes, policy recommendations to advance healthcare interventions for victims of IPV include the following:

- Ensure staff and clinician training in effective, clientcentered, confidential IPV assessment that connects patients to support and services regardless of disclosure.
- Support development and implementation of EHR prompts, such as Best Practice Alerts and Progress Notes Templates, for IPV to prompt and guide clinical care.
- Eliminate barriers to EHR use for IPV assessment, such as intellectual property restrictions and lack of standardized terminology, and increase opportunities for coordination of care with attention to privacy, confidentiality, and safety for IPV victims.
- Include an IPV assessment measure in a future edition of meaningful-use requirements.
- Use EHRs to facilitate capture of detailed IPV data, at least at the level of appropriate ICD-10-CM codes.

Practice recommendations, also specific to the US healthcare setting, are centered on three areas:

- Provide clinicians with best-practice guidelines, decisionsupport tools, and resources to guide them when IPV is disclosed.
- Foster intentional collaborations with victim-service advocates with shared protocols for making "warm referrals."
- Integrate IPV identification and intervention into quality-improvement efforts with data tracking (such as frequency of screening and brief counseling) and feedback on performance (such as patient satisfaction with the clinical encounter and connections made to victim advocacy services).

As IPV screening and interventions are further integrated into the US healthcare delivery system, several broad research questions emerge.

- Are current strategies for IPV assessment and interventions effective across diverse clinical settings; among various populations, such as with male victims, adolescents, sexual-minority individuals, or elders, or in various languages and cultures? How might a systems-based approach be adapted in resource-limited settings?
- How should quality of IPV assessment and care be measured? What are the most relevant patient-centered outcomes that should be incorporated into evaluation of health care interventions for IPV (i.e., outcomes that are most meaningful for survivors of IPV)? What is the role for educational and clinician decision aids?
- What role can the EHR have in improving the healthcare response to IPV, including facilitating quality improvement and spread of best practices? What health systems—level implementation approaches are associated with increased identification and improved outcomes?

With current attention to preventive services that include IPV screening and counseling for women, researchers and advocates in the United States have an unprecedented opportunity to work together to build the evidence base to ensure that women receive the highest quality care no matter where they access health services.

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98 MILLER ET AL.

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