

Opportunities in the Electronic Health Record for Advancing IPV Screening, Intervention, & Research

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The Permanente Medical Group

Using the Electronic Health Record to Improve IPV Services



Clinicians



Health Care Organizations



Researchers



Patients

Kaiser Permanente

- Largest non-profit health plan in the US
 - Fully implemented electronic medical record
-

- **18,000** physicians & **9 Million** members
 - **8** states, **37** hospitals & **618** medical offices
-

- One of the largest health research programs

Making it easier to do the right thing



EHR Tools for Clinicians:

- Improving IPV inquiry and identification
- Improving intervention and documentation
- Facilitating referral to resources
- Training opportunities

EHR Tools for Clinicians: Improving IPV Inquiry

- Prompts to ask about IPV
 - **Best Practice Alerts** (BPA) triggered by:
 - age, gender
 - type of visit (prenatal, annual checkup, well woman)
 - Symptoms (injury, stress, insomnia)
 - frequency of visits (>10 in past 3 months)

Age Sex PCP Allergies
 39 Y F **Chocolate, Peanut Butter**

- SnapShot
- Chart Review
- Results Review
- Allergies
- Medications
- Flowsheets
- Problem List
- History
- Letters
- Demographics
- Scan
- CIPS
- Prev Health Prompt
- Patient Report
- Order Entry
- Imm/Injections
- Doc Flowsheet
- Forms
- eConsult
- Visit Navigator
- Questionnaires**

Questionnaires

Current Questionnaires

INTERPRETER SERVICES QUESTIONNAIRE [101218]
 DV SCREEN & DANGER ASSESSMENT DOMVIOL NA

Add

Adv	Question	Answer	Comment
	DV SCREEN_DANGER ASSESSMENT DOMVIOL NATL		
	Within the past year, has your partner hit, slapped, kicked or otherwise physically hurt you?		
	Within the past year, has your partner forced you to participate in unwanted sexual activities?		
	Are you afraid of your partner?		
	IF PATIENT ANSWERS YES TO ANY QUESTION ABOVE, CONTINUE WITH THE DANGER AND SAFETY ASSESSMENT QUESTIONS BELOW		
	Has the physical violence increased in frequency over the past year?		

EHR Tools for Clinicians: Improving IPV Inquiry

Reminders embedded in **Progress Note**

History

Sexual Activity

Sexually Active: Yes -- Male partner(s)

INTIMATE PARTNER VIOLENCE:

Current IPV: {GYN IPV Status:293106}

Past IPV: {GYN IPV Status:293106}

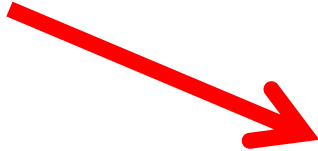
Partner interference with birth control or pregnancy choices: {GYN IPV Status:293106}

No results found for this basename: HPV CERVX

Yes, added to Problem Lis
No
Not applicable

Last GYN Cytology Results:

Depression and anxiety survey, which includes DV questions



AOQ 1.4-apc (Adult Outcomes Questionnaire - primary care)

PHQ-9: Over the last 2 weeks, how often have you been bothered by any of the following problems?

	Not at All	Several Days	More than half the days	Nearly every day	
1. Little interest or pleasure in doing things	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
2. Feeling down, depressed, or hopeless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
3. Trouble falling or staying asleep, or sleeping too much	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
4. Feeling tired or having little energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
5. Poor appetite or overeating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
6. Feeling bad about yourself — or that you are a failure or have let yourself or your family down	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
7. Trouble concentrating on things, such as reading the newspaper or watching television	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
8. Moving or speaking so slowly that other people could have noticed. Or the opposite — being so fidgety or restless that you have been moving around a lot more than usual	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
9. Thoughts that you would be better off dead, or of hurting yourself in some way	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

GAD-2: Over the last 2 weeks, how often have you been bothered by any of the following problems?

	Not at All	Several Days	More than half the days	Nearly every day	
10. Feeling nervous, anxious or on edge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
11. Not being able to stop or control worrying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
12. Feeling unproductive at work or other daily activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
13. Having trouble focusing on achieving your goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

DV - Relationship Review: Many health problems can be affected by stress in your relationships. Making the connection can help you take steps towards better health.

	Yes	No	Prefer not to answer
1. Are you currently in a relationship where your partner hits, kicks, slaps, or hurts you?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Are you currently in a relationship where you feel threatened by your partner?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Have you ever had a partner who physically hurt or threatened you?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PHQ9 subscale score
 Depression severity
 Global Distress score
 Global Distress severity

PHQ9/GAD2 developed by RL Spitzer, JBW Williams, K Kroenke et al., with educational grant from Pfizer Inc. No permissions required.

EHR Tools for Clinicians: Improving Documentation & Intervention

- Smart phrases (clinic note with essential elements)
- Danger/lethality assessment questionnaire
- Smart set (includes note, orders, referral, followup)

Smart Phrase: IPV with current physical injury

.dvwithinjury

As part of Intimate Partner/Family Violence Screening the patient reported { :32013}.

Assault Incident: Date: ***, Time: *** Location: ***

Offender's Name: ***, Relationship to patient: { :32014}

Was a weapon used to inflict harm? {yes/no:32048}

Past history of assaults: {yes/no:10010}

BRIEF DANGER ASSESSMENT

Does the patient feel in danger right now? {Yes/No:32011}

Is the patient pregnant? {Yes/No:32011}

Has the patient's partner threatened to kill her? {Yes/No:32011}

Does patient's partner have access to a firearm? {Yes/No:32011}

Is patient's partner unemployed? {Yes/No:32011}

PHYSICAL EXAM: {DV exam:32378}

ASSESSMENT: See Diagnosis section

PLAN: {DV Plan:32377::"Supportive messages were given.", "Referral and community resource information were given.", "Safety plan and alternatives discussed."}

The patient will follow up in *** {time:10515}.

Overview of SmartSet Contents

SmartSet - DOMESTIC VIOLENCE ASSESSMENT (DOMVIOL-NATL)

Association Primary Dx Edit Item Favorite Pharmacy Questionnaire Health Maint Accept/Pend Accept/Sign

- GUIDELINES AND QUESTIONNAIRES
 - PROGRESS NOTES
 - DIAGNOSIS (RIGHT-CLICK TO ADD COMMENTS)
 - MEDICATIONS - Right click to edit details
 - FOLLOW-UP - Right Click to Edit Disposition and Follow-up Data
 - PATIENT INSTRUCTIONS

SmartSet - DO...

SmartSet: Detailed Contents

SmartSet - DOMESTIC VIOLENCE ASSESSMENT (DOMVIOL-NATL)

Association Primary Dx Edit Item Favorite Pharmacy Questionnaire Health Maint Accept/Pend Accept/Sign Cancel

- GUIDELINES AND QUESTIONNAIRES
 - Clinical Practice Guidelines (multiple)
 - DOMESTIC VIOLENCE CLINICAL PRACTICE GUIDELINES - NW (RIGHT-CLICK TO VIEW)
 - For screening and danger assessment tool, click Questionnaire on toolbar above. (multiple)
 - If questionnaire is used with a clinic visit for a medical condition or assault, consider using Progress Notes
- PROGRESS NOTES
 - Progress Notes (multiple)
- DIAGNOSIS (RIGHT-CLICK TO ADD COMMENTS)
 - Diagnoses for Domestic Violence (multiple)
 - Diagnoses - Other. Use only if no DV-specific diagnosis applies, or for contraception (multiple)
- MEDICATIONS - Right click to edit details
 - Emergency Contraception (single)
- FOLLOW-UP - Right Click to Edit Disposition and Follow-up Data
 - Follow-up (single)
- PATIENT INSTRUCTIONS
 - Patient Instructions (DO NOT print this section out if it presents a safety issue) (multiple)

SmartSet - DO...

EHR Tools for Clinicians: Improving IPV Intervention & Referral

- Intranet link: “abuse and assault” website
- Referral protocol and community resources
- Guidelines
- Training

Abuse and Assault Site Resources

Clinical Care

Facility Implementation

KP Workplace

Customer Engagement

Intimate partner violence

✉ Email

🖨 Print

If the victim is under 18 years, see [child abuse](#). If over 64 years also see [elder abuse](#).

MD, NP, RN

Mental Health/Social Services Clinician

[Refer patient to mental health and local resources](#)

[more](#) ▼

[Give member resource information](#)

[more](#) ▼

[Document in HealthConnect™](#)

[more](#) ▼

[Report to law enforcement \(INJURY ONLY\)](#)

[more](#) ▼



Additional Resources:

[How to screen](#)

▶ [Suspicious injury report](#)

Abuse and Assault Site Resources

Clinical Care

Facility Implementation

KP Workplace

Customer Engagement

Intimate partner violence

Email Print

If the victim is under 18 years, see [child abuse](#). If over 64 years also see [elder abuse](#).

MD, NP, RN

Mental Health/Social Services Clinician

Refer patient to mental health and local resources

close ▲

Select a facility:

Make a selection... ▼

Connect patient to KP mental health or social services clinician immediately if patient:

- does not have a safe place to go after visit, or feels in immediate danger



▶ [Suspicious injury report](#)

Online Training Tools for Clinicians



KP HealthConnect Video Tip:
Abuse and Assault Link



Clinicians: Online Training
(14min)



FAMILY VIOLENCE PREVENTION PROGRAM
Northern California

[Home](#) | [About](#) | [Contact](#)

Clinical Care
Facility Implementation
KP Workplace
Customer Engagement

- Intimate partner violence
- Teen dating violence
- General assault
- Sexual assault
- Child abuse
- Elder / Dependent abuse
- Animal Bites

Intimate partner violence

If the victim is under 18 years, see [child abuse](#). If over 64 years also see [elder abuse](#).

MD, NP, RN
Mental Health/Social Services Clinician

Refer patient to mental health and local resources
more ▾

Give member resource information
more ▾

Document in HealthConnect™
more ▾

Report to law enforcement (INJURY ONLY)
more ▾

Additional Resources:

[How to screen](#)

[What to say when the answer is yes](#)

[HealthConnect video tip: Documenting domestic violence](#)

[Danger assessment](#)

[Safety plan](#)

[Treating a patient with injury? Reporting required](#)

▶ [Suspicious injury report form \(Cal EMA 2-920\)](#)

National Domestic Violence Hotline: 800-799-7233

KP HealthConnect Video Tip:
Abuse and Assault Link

Clinicians: Online Training
(14min)

KP HealthConnect Video Tip:
Abuse and Assault Link

EHR Tools for Health Care Organizations and for Research

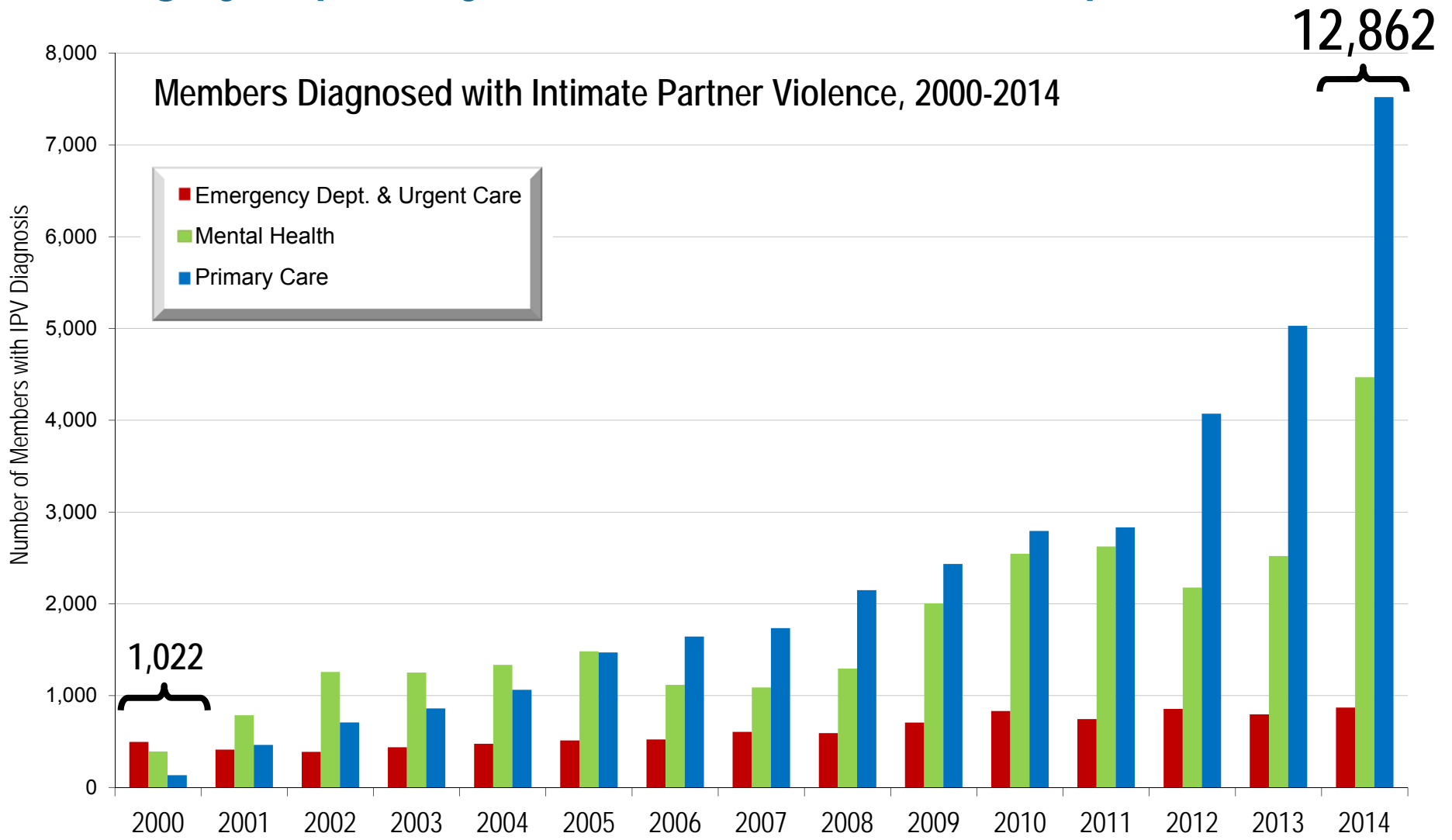
Using aggregated “de-identified” data from EHR based on diagnostic codes

- Quality measures
- Descriptive information
- Registries
- Participation in research networks

IPV as a Quality Measure

- Allows consistent analytic resources for regular quality reports
- Formalizes IPV quality improvement as a goal for the organization
- Establishes accountability for ongoing improvement
- Helps leadership at the medical center level assign resources to the issue

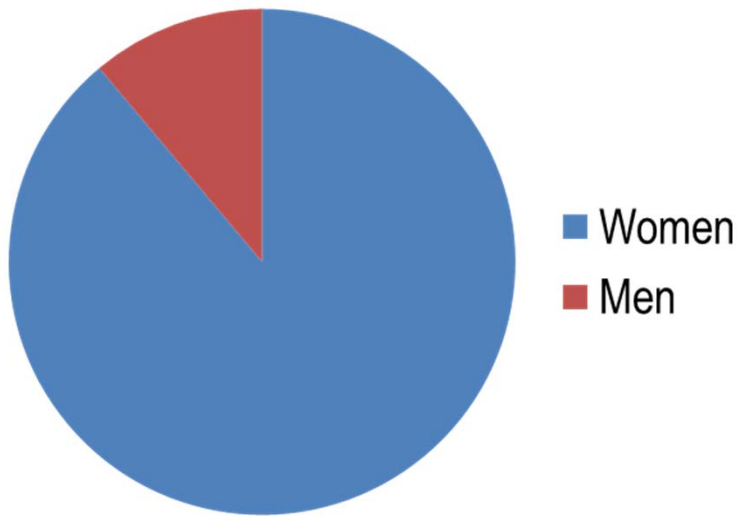
IPV Identification Increasing: Largely in primary care and mental health departments



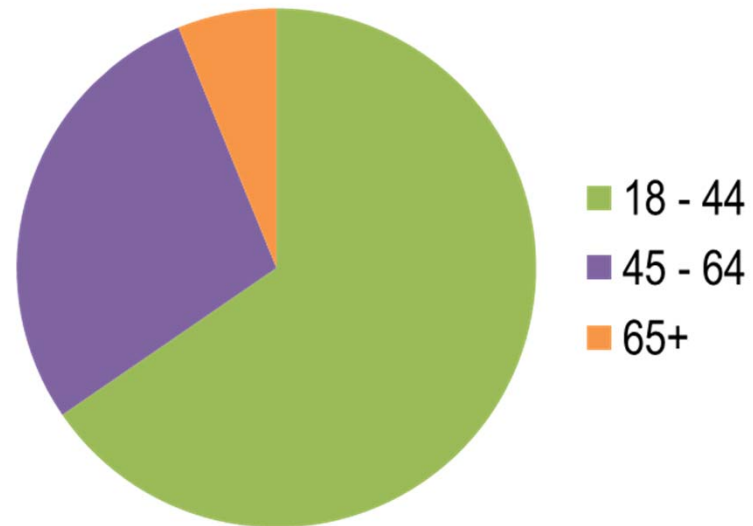
37,219 KP Patients Identified with IPV

1998-2011

By Gender



By Age

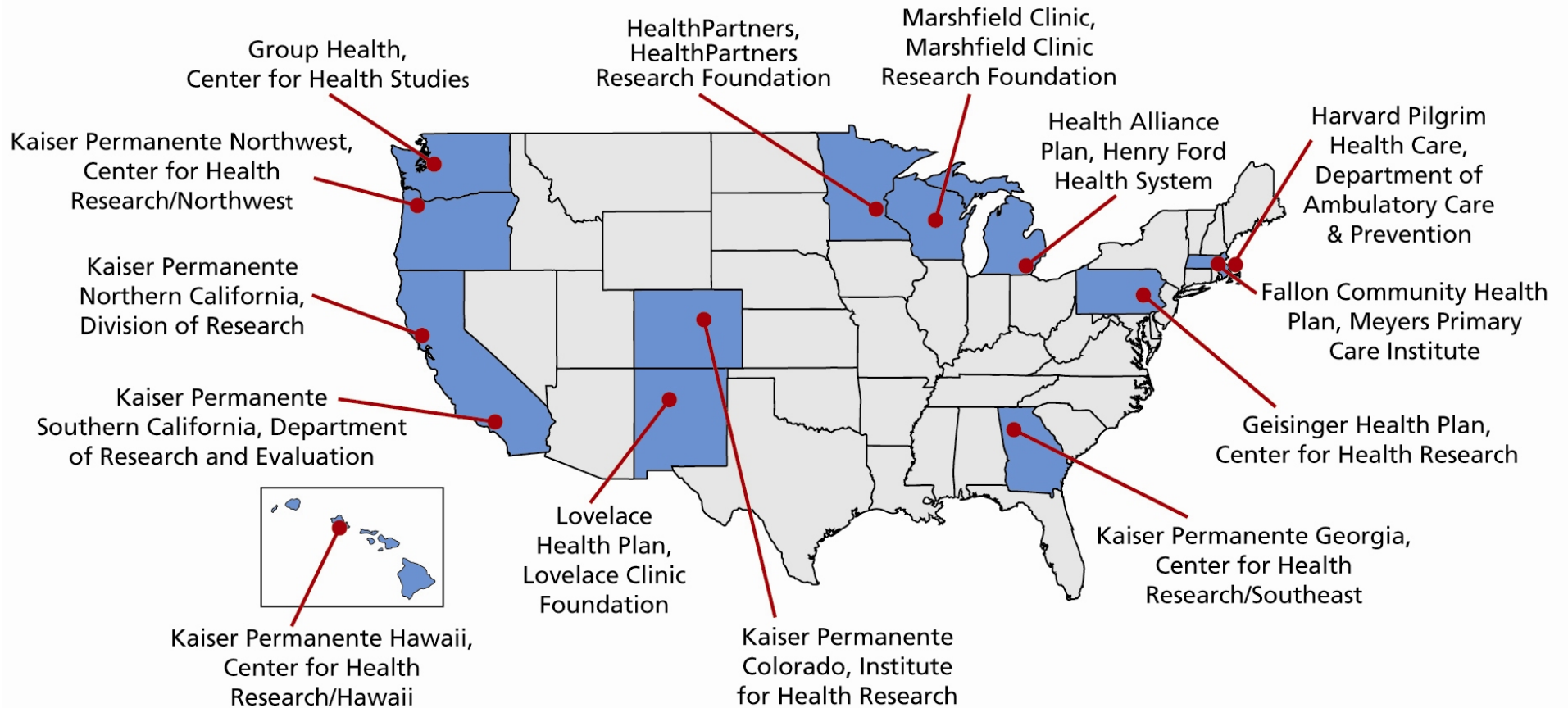


Additional Information: Ethnicity ▪ Language ▪ Length of Kaiser membership ▪ Smoking status ▪ BMI ▪ Pregnancy within 2 years of IPV diagnosis

EHR Challenges

- **Accuracy of data is impacted by...**
 - Differences in terminology, definition of abuse, multiple codes
 - Concerns regarding documentation: visibility, privacy, confidentiality, safety, coordination of care
- **Different needs and differing points of view:** patients, clinicians, DV advocates, compliance officers, researchers, IRB's, criminal justice
- **Rapidly evolving technology**

18 HMORN Research Networks



Research Questions Related to EHR

- Do “prompts ” (eg Best Practice Alerts (BPA,) reminders embedded in progress notes) increase screening?
Does it increase identification? Do some “prompts” work better than others?
- Do clinician tools (guidelines, care path, smart phrases, smart set) improve the IPV clinical intervention help?
Which work best ?
- Is on-line training more effective in changing clinician behavior than traditional training?

Research Questions Related to EHR

- Visible documentation of IPV: does this improve coordination of care and clinical outcomes? Are there unintended consequences? Safety concerns? How do patients feel about it?
- What health systems level implementation approaches are associated with increased identification and improved outcomes?

EHR-Related Tools for Patients

- Access to accurate on-line information
- Alternative ways to obtain services
 - web based care, decision support tools
 - video visit, secure messaging

Contact Information

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kp.org/domesticviolence

References

- Miller E, McCaw B, Humphreys B, Mitchell C (2015) **Integrating Intimate Partner Violence Assessment and Intervention into Healthcare in the United States: A Systems Approach.** *Journal of Women's Health.* 24(1): 92-99
- Barghava R, Temkin TL, Fireman BH, Eaton A, McCaw B, Kotz KJ, Amaral D (2011) **A Predictive Model to Help Identify Intimate Partner Violence Using Diagnoses and Phone Calls.** *American Journal of Preventive Medicine.* 41(2): 129-35.
- Decker M, Frattaroli S, McCaw B, et al (2012) **Conference proceedings: Transforming the Health Care Response to Intimate Partner Violence and Taking Best Practices to Scale.** *Journal of Women's Health* 21 (12) 1222-1229

Appendix

Many Elements in EHR

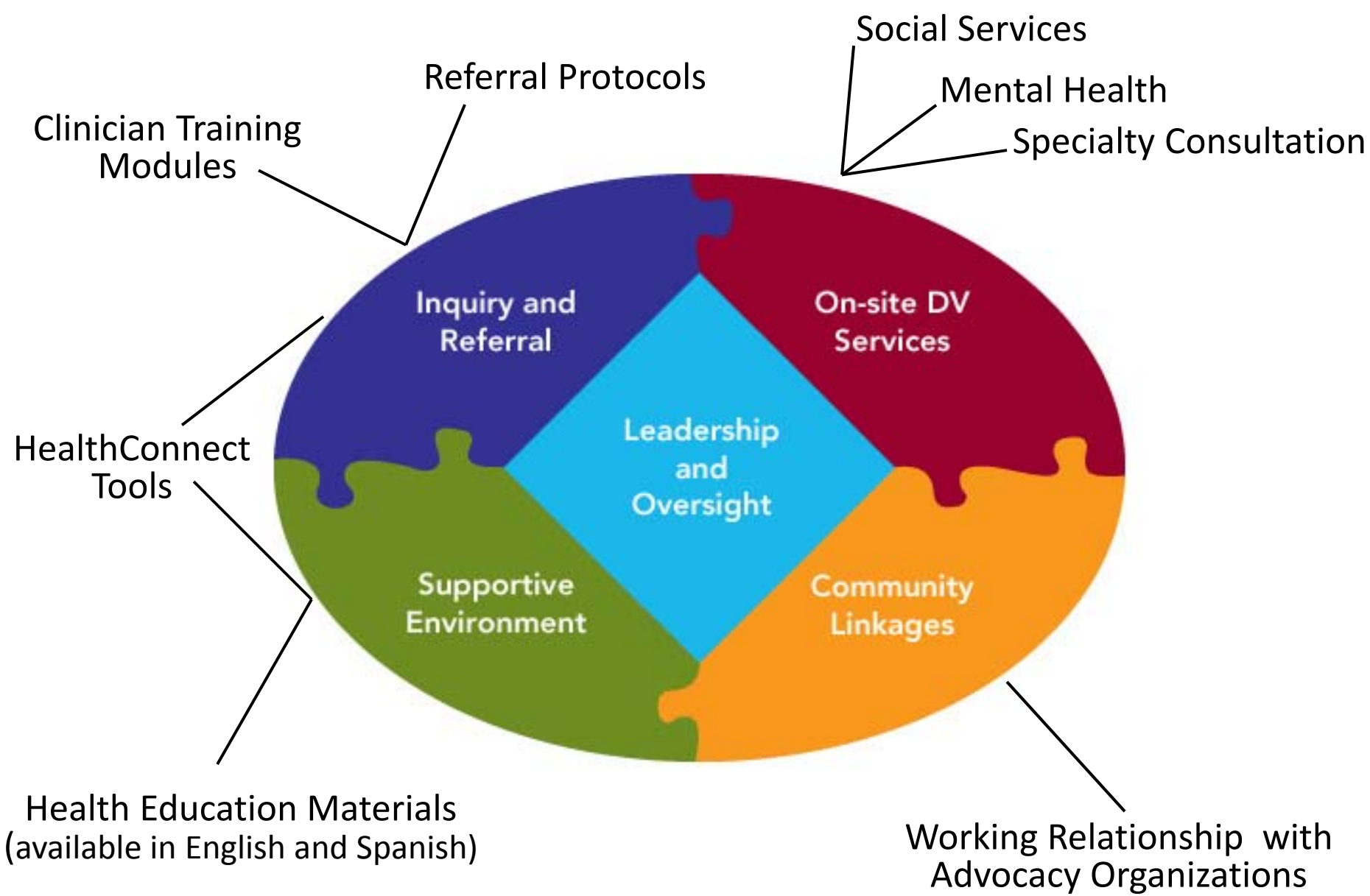


Billing

Compliance

HIPAA

Release of Information



IPV Screening and Danger Assessment

Screening:

1. Within the last year, has your partner hit, slapped, kicked, or otherwise physically hurt you?
2. Within the past year, has your partner forced you to participate in unwanted sexual activities?
3. Are you afraid of your partner?

IF PATIENT ANSWERS YES TO ANY QUESTION ABOVE, CONTINUE WITH THE DANGER AND SAFETY ASSESSMENT QUESTIONS BELOW

Danger assessment:

4. Has the physical violence increased in frequency over the past year?
5. Has the physical violence increased in severity over the past and/or has a weapon (or threat with weapon) been used?
6. Does your partner ever try to choke you?
7. Is there a gun in the house?
8. Does your partner use drugs? (Drugs = "uppers" or amphetamines, speed, angel dust, cocaine, "crack," street drugs, heroin or mixtures.)
9. Does your partner threaten to kill you?

IPV Screening and Danger Assessment

Danger assessment (cont'd):

10. Do you believe your partner is capable of killing you?
11. Is your partner an alcoholic or problem drinker?
12. Does your partner control most or all of your daily activities? (For instance, does your partner tell you who you can be friends with, how much money you can take with you for shopping, or when you can take the car?)
13. Have you ever been beaten by your partner while you were pregnant?
14. Is your partner violently and constantly jealous of you? (For instance, does your partner say, "If I can't have you, no one can.")
15. Have you ever threatened or tried to commit suicide?
16. Has your partner ever threatened or tried to commit suicide?
17. Is your partner violent toward your children?
18. Is your partner violent outside of the home?
19. Is your partner unemployed?

PROVIDE PATIENT INFORMATION ON SAFETY PLANNING AND ADVOCACY SERVICES

NOTE: HOMICIDE RISK INCREASES WITH THE NUMBER OF POSITIVE RESPONSES

Smart Phrase: IPV without physical injury

.dvwoinjury

As part of Intimate Partner/Family Violence Screening the patient reported { :32013}.

Length of time the violence has been going on: ***{days/wks/mos/yrs:10907}

Description of the patient's most serious episode: ***

Has the patient ever been forced to have unwanted sex? {Yes/No:32011}

Has the patient's partner threatened to kill her? {Yes/No:32011}

Does the patient's partner have access to a firearm? {Yes/No:32011}

Is the patient's partner unemployed? {Yes/No:32011}

Does the patient's partner try to control all of her activities? {Yes/No:32011}

Does the patient feel in danger right now? {Yes/No:32011}

Is the patient pregnant? {Yes/No:32011}

PHYSICAL EXAM: {DV exam:32378}

ASSESSMENT: See Diagnosis section

PLAN: {DV Plan:32383::"Supportive messages were given.", "Referral and community resource information were given.", "Safety plan and alternatives discussed."}

The patient will follow up in *** {time:10515}.