Introduction: We recently completed a strategic planning process to better understand the development of our 5-year-old practice-based research network (PBRN) and to identify gaps between our original vision and current progress. Although many of our experiences are not new to the PBRN community, our reflections may be valuable for those developing or reshaping PBRNs in a changing health care environment.

Lessons Learned: We learned about the importance of (1) shared vision and commitment to a unique patient population; (2) strong leadership, mentorship, and collaboration; (3) creative approaches to engaging busy clinicians and bridging the worlds of academia and community practice; and (4) harnessing data from electronic health records and navigating processes related to data protection, sharing, and ownership.

Challenges Ahead: We must emphasize research that is timely, relevant, and integrated into practice. One model supporting this goal involves a broader partnership than was initially envisioned for our PBRN—one that includes clinicians, researchers, information architects, and quality improvement experts partnering to develop an innovation center. This center could facilitate development of relevant research questions while also addressing “quick-turnaround” needs.

Conclusions: Gaps remain between our PBRN’s initial vision and current reality. Closing these gaps may require future creativity in building partnerships and finding nontraditional funding sources. (J Am Board Fam Med 2012;25:560–564.)
veloped a PBRN in this “postmodern” era, we have learned valuable lessons and look forward to increasing the relevance of our work and sustaining our network in today’s changing health care environment.

We celebrated our PBRN’s fifth year by interviewing many founding members and hosting a strategic planning retreat to reflect on our initial vision and plan for the future. This process helped us better understand how our PBRN was developed, challenges to our sustainability, and gaps between the original vision and our current progress. Although our challenges are not necessarily new to the PBRN community, reflections on our experiences during this developmental stage may benefit others.

Who Are We?
Founded in 2006 and registered with the Agency for Healthcare Research and Quality in 2007, our PBRN was created to complement the unique strengths of the OCHIN network. Originally called the Oregon Community Health Information Network (renamed OCHIN as other states joined), OCHIN is a collaborative, member-based organization of federally qualified health centers and similar entities that provides a primary health care “safety net” to vulnerable populations. Using a collaborative learning organization model, OCHIN facilitates its members’ adoption of health information technology to improve patient care quality. To this end, OCHIN maintains one electronic health record (EHR) with a single master patient index linked across all clinic sites. OCHIN is recognized by the Health Resources and Services Administration as a health center-controlled network and now has more than 62 member organizations with over 200 clinics serving more than 1.2 million unique patients across 12 states (with ~10 million annual visits).5

The OCHIN PBRN was originally named Safety Net West; we are now working to give it a name more inclusive of members beyond the western states. The PBRN currently manages a portfolio of 9 active research grants and has received 11 additional grant submissions since June 2011.7 Our active grants range from large, population-based, data-only studies to EHR- and Internet-based intervention research. Topic areas focus on issues relevant to primary care: cardiovascular disease, diabetes, depression, obesity, asthma, child health quality measures, and clinical decision support tools. Two infrastructure grants currently fund staff and operations to develop research processes and partnerships. Our PBRN includes a steering committee of 18 and an executive committee of 5 (chair, vice-chair, executive director, operations director, and research representative). We have built key partnerships with 2 local academic research centers.

What Have We Learned?

Foundation Built on a Shared Vision and Commitment
A major facilitator in the development of our PBRN was the shared vision for conducting high-quality research in the safety net. As one founding member commented, “There was an ideological commitment to serving the greater good, and that outweighed individual clinic interests.” The PBRN was founded on this unity of purpose: “We could do research as a community.” Founding members had a clear understanding of the added value of being part of a network; one noted that, “At the end of my career, I’ll look back and say that this was one of the most exciting, and unforeseen, opportunities I ever had.” Table 1 summarizes lessons learned.

The shared vision and commitment to the safety net has kept a dedicated and cohesive group of providers, researchers, and staff (mostly volunteers) inspired and moving forward. Although these factors both shaped our identity and helped us to target grant funds earmarked for priority populations, the importance of having a unique identity, shared vision, and clear purpose must be balanced with a willingness and ability to be flexible and adaptable, lest we become too narrowly focused, which could reduce options for innovation, funding, or sustainability.

Leadership, Mentorship, Collaboration
Our PBRN benefited from passionate leaders, internal institutional support (money, staff, and space), and already-established relationships in Oregon’s health care community. External resources and mentors were also crucial, such as guidance from other PBRNs and the opportunity to attend the national PBRN conference sponsored by the Agency for Healthcare Research and Quality. Our PBRN also benefited from cross-organizational
collaborations, as described by one of the inter-
viewees: “When the lines are blurred between or-
ganizations, and people wonder who works for who
[sic], that’s good! That means there’s true cooper-
ation and sharing of resources.”

**Engaging Busy Clinicians**

Although the opportunity to develop a PBRN
within OCHIN was unique, the overall desire to
come together to learn from each other and share
resources is similar to that reported by others, who
found that a major influence supporting PBRN
development was participants’ perceptions that a
PBRN could add value to both research opportu-
nities and practice quality.6,7 Despite our vision and
commitment, it still can be difficult to engage busy
clinicians who have many competing priorities. We
struggle to involve clinicians in all aspects of net-
work decision making, from setting the research
agenda by identifying “questions that come up in
[the] clinic every day” to ongoing participation in
the research itself. Furthermore, although being a
PBRN of community health centers has been a
facilitator, these practices often are stretched to
care for as many patients as possible with limited
resources, and thus have limited time to engage in
research activities. We found that recently retired
clinicians or those working part-time may have
more time and energy to contribute. As grant bud-
gets are prepared, we strive to advocate for realistic
compensation for engaged providers and clinics,
including both provider time and clinic impact fees.

**Bridging the 2 Worlds of Academia and Community**

Although a motivating factor of other PBRNs,6–9
our 2 different worlds—academia and the commu-
nity—do not always understand each other, possi-
bly because our PBRN is based in the community
rather than an academic setting. Building cohesion
among PBRN clinicians and researchers required
time to develop relationships so that our clinicians
and researchers better appreciate each others’ real-
ities. This effort was key to our success, and having
clinician champions for research projects was in-
valuable when recruiting clinics to participate in
our first intervention study. Similarly, we benefited
from engaging researchers committed to longitudi-
nal partnerships with clinicians. It also helped to
include “boundary spanners” on the team who have
both clinical and research experience.

**Harnessing EHR Data**

The opportunity to harness data from many prac-
tices was another major facilitator of our PBRN’s
development and echoes others’ observations about
the power of networks to collect data on large

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**Table 1. Lessons Learned from the Development of Our Practice-based Research Network (PBRN)**

<table>
<thead>
<tr>
<th>Lessons Learned</th>
<th>Key Tips</th>
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<tbody>
<tr>
<td>Shared vision and commitment</td>
<td>- Identify what makes your PBRN unique and find ways to market that uniqueness.</td>
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<tr>
<td>Leadership, mentorship and collaboration</td>
<td>- Cultivate and support leaders.</td>
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<td></td>
<td>- Share resources.</td>
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<td></td>
<td>- Build bridges and partnerships.</td>
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<td>- Add value in multiple differing spheres.</td>
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<td>Engaging busy clinicians</td>
<td>- Provide realistic incentives for clinical partners.</td>
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<td></td>
<td>- Advocate for network members, including sometimes taking a hard line on budgets.</td>
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<td></td>
<td>- Consider involving recently retired or part-time network clinicians to provide compensated help.</td>
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<td></td>
<td>- Keep meetings short and agendas engaging.</td>
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<tr>
<td>Bridging academia and community</td>
<td>- Retain staff that have rapport (and experience) with both academic and community settings.</td>
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<td>- Educate partners about each others’ worlds.</td>
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<td></td>
<td>- Take time to strengthen relationships and build trust.</td>
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<td></td>
<td>- Encourage research partners to invest in longitudinal relationships with the network.</td>
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<tr>
<td>Harnessing EHR data</td>
<td>- Meet with and educate your IRB about your PBRN’s work.</td>
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<td></td>
<td>- Reach out to executive leaders at network clinics who can give input on big-picture policies and priorities.</td>
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<td></td>
<td>- Find ways to improve the data with every research project.</td>
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<td>- Budget adequate time (and money) for negotiating data sharing and data use policies.</td>
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EHR, electronic health record; IRB, institutional review board.
numbers of diverse patients. Our PBRN’s data from a large patient population is in one shared and linked EHR, which is centrally housed and maintained at OCHIN. This unique data resource helped to catalyze the formation of our PBRN and obtain some early grants to conduct secondary data analyses.

Although this data resource facilitated our PBRN’s development, it also raised concerns regarding data ownership that needed careful attention. Building a PBRN with a common EHR, or the ability to merge data from multiple EHRs into a common repository, requires that trust and boundaries around data sharing be established. Much time was required to negotiate policies related to compliance about data protections, sharing, and ownership. In the current era of EHRs and multisite network building, such issues are increasingly relevant; the time required to develop these policies cannot be underestimated. It is important to have realistic expectations and the patience to move through the requisite (and often tedious) discussions about data-sharing policies and the more general procedures and bylaws required to govern a new organization. We also met frequently with our institutional review board to educate their analysts about our work and to get their assistance with the development of data-sharing policies and data use agreements.

Where Are We Going?

In the next phase of our development, our PBRN needs to address several identified gaps between our initial vision and current reality. Notably, we aspire to make our research more timely, relevant, and better integrated into practice; working toward this goal requires creating synergy between community clinicians and academicians. Achieving this synergy remains a challenge to us and all PBRNs. We now envision a model that engages clinicians, researchers, information architects, and quality improvement experts partnering together in an innovation center.

An innovation center model could foster clinician, staff, and patient involvement and engagement in a portfolio of activities that directly improve clinical practice, inform policy, and inspire future research projects. Such collaboration could support opportunities to use EHR data to answer clinical, quality improvement, and policy questions; to support the creation of clinical decision support tools; to develop data aggregation tools that enable sophisticated panel management to care for an entire population; and to transform other automated processes to support and better align with population care and outcomes. This model could facilitate the development of relevant research questions while also addressing “quick-turnaround” needs, including answering queries rapidly using an EHR data warehouse. We aim to establish processes and capabilities for data aggregation that support research but also bring day-to-day value to clinicians and provide timely information for policymakers. Others have described similar models. Whatever we call this model, we are in search of the PBRN “sweet spot”: a combination of research that is (1) relevant to primary care and day-to-day needs, (2) novel and well-defined so that it contributes to the literature, and (3) interesting to clinicians, policymakers, patients, and funders (Figure 1).

Funding for an innovation center or a similar model would need to come from multiple sources. First, this type of resource adds value that could be sustained through membership or consulting fees. The added value from this resource assumes that practices could incorporate the costs into an alternative payment model that incentivizes practices to improve care of populations and have data to show better outcomes. Second, there would be opportunities for training in such a center, especially if it is affiliated with degree programs; funding also could

Figure 1. The practice-based research network “sweet spot.”
be sought to support fellowship programs. Third, researchers would play a key role in evaluating new innovations and their impact. This would involve seeking grant funding to study the translation of interventions proven effective in one setting for implementation in another setting, supporting learning about the dissemination of new ideas and diffusion of innovations across diverse clinics and patient populations.

Conclusions

In developing our “postmodern” PBRN, we traveled paths and learned many lessons similar to those who have gone before us. To continue our momentum, we must focus on bridging the gaps between traditional research and its relevance to primary care settings. This may require forging unique partnerships and seeking nontraditional funding sources in the future.

The authors gratefully acknowledge the 19 PBRN members whose comments and ideas from recent interviews contributed to this commentary. We also thank Pam Rechel of Braveheart Consulting in Portland, Oregon, for providing facilitation at our strategic planning retreat, and Jee Park, of OCHIN, Inc, for administrative assistance.

References