Policy Levers Key for Primary Health Care Organizations to Support Primary Care Practices in Meeting Medical Home Expectations: Comparing Leading States to the Australian Experience

Mary Takach, MPH, RN

Abstract

Several countries with highly ranked delivery systems have implemented locally-based, publicly-funded primary health care organizations (PHCOs) as vehicles to strengthen their primary care foundations. In the United States, state governments have started down a similar pathway with models that share similarities with international PHCOs. The objective of this study was to determine if these kinds of organizations were working with primary care practices to improve their ability to provide comprehensive, coordinated, and accessible patient-centered care that met quality, safety, and efficiency outcomes—all core attributes of a medical home. This qualitative study looked at 4 different PHCO models—3 from the United States and 1 from Australia—with similar objectives and scope. Primary and secondary data included semi-structured interviews with 26 PHCOs and a review of government documents. The study found that the 4 PHCO models were engaging practices to meet a number of medical home expectations, but the US PHCOs were more uniform in efforts to work with practices and focused on arranging services to meet the needs of complex patients. There was significant variation in level of effort between the Australian PHCOs. These differences can be explained through the state governments’ selection of payment models and use of data frameworks to support collaboration and incentivize performance of both PHCOs and practices. These findings offer policy lessons to inform health reform efforts under way to better capitalize on the potential of PHCOs to support a high-functioning primary health foundation as an essential component to a reformed health system.

Introduction

Health systems across the world are under extraordinary pressure to evolve to respond to the demands of an aging population, growing numbers of people living with chronic illnesses, and a steady growth in health spending. Responding to these demands will require innovative strategies aimed at the primary care foundation, which is the “most efficient structure” for managing a large majority of the patient’s needs and coordinating care for patients across the complex delivery system. Countries with highly ranked delivery systems, including Australia, New Zealand, and the United Kingdom, have supported the development of primary health care organizations (PHCOs) as a key underpinning of health care reform. PHCOs have been defined as “meso-level” or regional entities responsible for carrying out a range of government primary care reforms that include “focusing on quality improvement, expansion of multidisciplinary teams into general practice, regional integration, information technology adoption, and improved access to care.” Smith and Goodwin call these entities “primary care organizations” whose roles are “to improve health outcomes, manage demand and control costs, engage primary care physicians, enable greater integration of health services, develop more accessible services in community and primary care settings, and enable greater scrutiny and assurance of the quality of primary care services.” These PHCOs’ structure, payments, governance, accountability, and...
“name” vary, but expectations to work with primary care practices to improve quality and efficiency outcomes at both the patient and population level are shared5,7: it is this role—how PHCOs work with primary care practices to improve care delivery—that is the purpose of this comparison study.

In the United States, numerous state governments are in various stages of creating similar kinds of meso-level entities with varying capacity and accountability as part of their primary care reform. For instance, states are developing regionally based organizations, with varying levels of structure, payments, governance, accountability, and “name.”9,8 Like international PHCOs, many of these organizations are tasked with providing “accountable care.” Although some Medicaid organizations may be referred to or named “Accountable Care Organizations” (ACOs), Medicaid ACOs vary widely10 and, therefore, some bear little resemblance to Medicare ACOs. Most notably, the organizations of interest for this study were tasked with working with all eligible providers in an entire region to manage or integrate patient care, were not direct service providers, and met the definition of PHCOs already described.8,9

PHCOs are well positioned to work with primary care practices of all sizes and capacity to develop competencies to provide comprehensive, coordinated, and accessible patient-centered care that meets quality, safety, and efficiency outcomes—all attributes associated with high-performing primary care or medical homes. These core competencies are important for the effective management of patients with chronic illnesses.2

The purpose of this paper is to compare and contrast the policy making and implementation experience of publicly financed PHCOs in 3 leading states—Colorado, North Carolina, and Oregon—to an international leader in primary care—Australia3—to learn if PHCOs are focused on the development of high-functioning primary care practices (medical homes) capable of meeting the large majority of their patients’ needs. This study sought to surface key policies that enabled PHCOs to deliver on government expectations to strengthen the delivery of primary care services by working with practices on a number of initiatives aligned with medical home principles. These findings have important implications to inform policy decisions in designing new or reforming existing PHCOs as an essential component of an organized, integrated, high-performing health system.

Methods

Study design and sample

This 1-year project, conducted from 2014 to 2015, was based in Australia and included 26 semi-structured interviews, half conducted on site and half via telephone, with senior PHCO management, primarily chief executive officers (CEOs) and executive directors. The researcher also reviewed government documents and communicated directly with government officials to understand PHCO objectives and expectations.

For the US, the researcher focused on state implemented PHCOs for the comparison group for 2 main reasons. First, the researcher was interested in government financed PHCOs; second, there have been a significant number of states undergoing delivery reform that have launched meso-level primary care-based organizations8,9 that shared core features of PHCOs that might be informed by this study’s findings. The study was limited to states that had PHCOs that met the definitions described in the introduction, were scaled statewide to look at variation between like PHCOs, represented diverse geographic areas from urban to remote, and shared similar scope and objectives. This resulted in the selection of Colorado, North Carolina, and Oregon. Australia was selected because it has more than 20 years of experience of evolving PHCOs, its health system has been consistently ranked as one of the best in the world,1 and its geography and PHCO scope provided reasonable comparisons to the US models as seen in Table 1.

As seen in Table 1, this study sampled approximately 25% of PHCOs from each study site—15/61 from Australia, 3/7 from Colorado, 4/14 from North Carolina, and 4/16 from Oregon. Using a purposeful sampling approach, the researcher selected PHCOs that were considered to be leaders in developing innovative primary care initiatives and balanced the selection to represent diverse geographical areas. For the 3 states, government officials identified PHCO leaders. In Australia, an expert group of 5 representing federal, academic, and PHCO leaders identified PHCO leaders. All PHCOs contacted to participate in this study consented and all signed a consent form.

Study objectives

The focus of this study was to compare PHCO models in their capacity to support practices to become high functioning primary care; in other words, meet the attributes of a medical home. Therefore, the interview protocol was organized along domains fundamental to medical homes: comprehensiveness, patient-centeredness, coordination, accessibility, quality and safety,2 as well as primary care provider engagement and cost-efficiency. The researcher also was interested in offering policy recommendations; therefore, the last section of the protocol explored government policy enablers and facilitators. (Examples of interview questions are shown in Table 2.) The interview protocol was pretested with 3 PCHOs, revised, and sent out in advance to all interviewees. The Behavioural & Social Sciences Ethical Review Committee at the University of Queensland in Brisbane, Australia approved the interview protocol.

Data collection

Data collection methods included the use of on-site and telephone interviews that were audiotaped and transcribed for data analysis. Data collection also included review of government documents from each study site, including request for proposals, invitations to apply, and guidelines for applications, with most documents found on government Web sites and some information provided directly to the researcher by government officials. These documents defined PHCO goals and objectives, core criteria, supports to PHCOs including payment model and infrastructure, and strategies to evaluate PHCO performance. Because of the semi-structured format of the interview, some interviewees did not answer all questions. In those instances, response numbers are given rather than percentages.

Data analysis

All data sets (transcribed interviews and government documents) were loaded into NVivo10 software (QSR
International Pty Ltd, Doncaster, Victoria, Australia). Using a framework analysis, interview data were coded according to the medical home domains described previously. Government documents were coded along 8 domains (governance, authority, scope, objectives, criteria, payment, support for infrastructure, and performance metrics) that had previously been vetted to describe publicly financed accountable care “entities.” Within the “criteria domain,” government data were further organized into the domains used for the interview data and lined up against the interview data using spreadsheets to compare whether policy expectations translated into on-the-ground implementation.

Where there was overlap, data were coded in more than 1 domain. Frequency counts within each domain identified key themes that were then further organized in spreadsheets. Text searches for key and stemmed words were used for

Table 1. Characteristics of Study Primary Health Care Organizations

<table>
<thead>
<tr>
<th>Type</th>
<th>Australia Medicare Locals (n=15/61)</th>
<th>Colorado Regional Care Collaborative Organizations (n=3/7)</th>
<th>North Carolina Networks (n=4/14)</th>
<th>Oregon Coordinated Care Organizations (n=4/16)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range years in operation</td>
<td>2–4</td>
<td>2–4</td>
<td>11–16</td>
<td>2–3</td>
</tr>
<tr>
<td># People served*</td>
<td>median 497,702</td>
<td>103,000</td>
<td>108,817</td>
<td>36,000</td>
</tr>
<tr>
<td></td>
<td>range 235,182–932,535</td>
<td>90,500–145,000</td>
<td>68,000–135,000</td>
<td>11,000–240,000</td>
</tr>
<tr>
<td>% Low socioeconomic status of population served*</td>
<td>median 32</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>range 2–59</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># Primary care providers served</td>
<td>median 550</td>
<td>236</td>
<td>495</td>
<td>257</td>
</tr>
<tr>
<td></td>
<td>range 370–1450</td>
<td>225–265</td>
<td>300–1314</td>
<td>50–1610</td>
</tr>
<tr>
<td>Catchment area (square miles)*</td>
<td>median 3055</td>
<td>6750</td>
<td>3359</td>
<td>3066</td>
</tr>
<tr>
<td></td>
<td>range 94–520,539</td>
<td>875–30,589</td>
<td>1623–4479</td>
<td>1640–50,000</td>
</tr>
<tr>
<td>Geographic area*</td>
<td>Mostly urban 7</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mixed urban/rural</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mostly rural</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mixed rural/remote</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mostly remote</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>


NOTE: Data for fields marked with asterisk for Australia Medicare Locals were derived from the National Health Performance Authority.

Table 2. Examples of Primary Health Care Organization (PHCO) Interview Questions

1. Describe some of the strategies undertaken to engage primary care practices to use the resources of your PHCO.
2. Describe any strategies that your PHCO has implemented to support the capacity of primary care practices to meet the large majority of their patients’ needs, including mental health, substance abuse, social supports, etc.
3. Has your PHCO implemented any strategies to support primary care practices to provide team-based care including embedding or sharing multidisciplinary staff (e.g., nurses, pharmacists, community health workers, mental health counselors) on site or virtually via telehealth? If yes, please describe.
4. Does your PHCO either provide directly or support the capacity of primary care practices to provide any services that enhance health literacy and self-care capabilities for individuals and families? If yes, please describe.
5. How does your PHCO support primary care practices in providing care coordination or helping the patient navigate the health care system?
6. What role, if any, does your PHCO play in supporting communication between primary care practices and other providers, including specialists and hospitals, regarding patient visits, admissions, or discharges?
7. Does your PHCO work with primary care practices to help them improve access to primary care services including shorter waiting times, same-day scheduling, and enhanced evening or weekend appointments?
8. What kind of data and how often does your PHCO provide to primary care practices to inform their quality improvement activities?
9. Has your PHCO provided any incentives for primary care practices to focus on and/or achieve goals to reduce inappropriate utilization of services, such as hospital readmissions, and use of high-cost imaging services, among others? If yes, please describe.
10. Describe the top policy enablers or facilitators that help PHCO to support primary care delivery.
11. Describe the top policy barriers that make it challenging for PHCOs to support primary care delivery.
each data set to verify that themes were not missed. In addition, government officials and PHCO interviewees from each study site reviewed the draft report.

Results

Policy context, objectives, and scope

In Australia, the federal government (Commonwealth) has been evolving PHCOs for more than 23 years, beginning with the Divisions of General Practice. Although the divisions had strong engagement of general practitioners, a government review found considerable variation among the divisions in performance, which led to the formation of 61 Medicare Locals (MLs) in 2011. MLs were tasked with building on the work of the divisions, improving coordination and integration of primary health care in local communities, and making it easier for patients, especially those with chronic illnesses, to navigate their local health systems. In Colorado, 7 Regional Care Collaborative (RCCOs) were launched statewide in 2011 after unsuccessful attempts to implement Medicaid managed care, unprecedented growth in costs, and a desire to move toward more value-based purchasing. In 1998, the North Carolina Department of Health and Human Services, responding to severe budget pressures, received federal permission to launch locally based, “physician-directed” care management systems to target at-risk, high-cost Medicaid patients and meet quality and costs objectives. In Oregon, faced with a nearly $2 billion Medicaid budget deficit, an agreement with the Obama Administration gave the state $1.9 billion under terms of slowing cost growth and improving health outcomes to test risk-based Coordinated Care Organizations (CCOs) statewide.

The government objectives that guided the creation of PHCO across the 4 sites shared a similar policy direction: local approaches, integrated and coordinated care, provider support, and improved patient care, as seen in Table 3. In addition, the types of entities that could serve as PHCOs and governance characteristics shared many similarities, with physician-led organizations being the predominant entity. Governance arrangements varied, with PHCOs in Australia and North Carolina being all nonprofit and PHCOs in Colorado and Oregon being a mix of nonprofit and for-profit organizations.

A key objective and core criteria for all PHCOs was coordinating services across various sectors, building on existing systems of care. All PHCOs interviewed described extensive work formalizing agreements between sectors to improve coordination and integration of services. For instance, 10 ML interviewees described extensive work formalizing care pathways between providers and sectors using tools such as HealthPathways and all North Carolina network interviewees reported collaboration with local hospitals to embed care managers to improve patient discharge transitions.

A key difference in care coordination criteria was that all US PHCOs were required to ensure that care coordination services were provided for targeted patients. All Colorado and North Carolina PHCO interviewees reported hiring, embedding, and often sharing care coordinators at every primary care practice in their catchment area that wanted one and had sufficient numbers of chronically ill Medicaid patients. In Oregon, CCOs described providing practices with added payments so that they could hire their own care coordination staff. In Australia, although most MLs provided some level of care coordination services, it was mostly limited to Aboriginal health services programs.

Accessible services. All PHCOs were expected to expand access to primary care services. The Australia MLs were given funds to take over primary care-based after-hours services initiated by the Commonwealth. All ML interviewees reported implementing after-hours programs by providing incentives for general practices to stay open longer, taking calls and providing face-to-face services as needed, and/or contracting with a deputizing service to provide after-hours care. Nine MLs also reported work with
<table>
<thead>
<tr>
<th>Domain</th>
<th>Australia Medicare Locals¹</th>
<th>Colorado Regional Care Collaborative Organizations²</th>
<th>North Carolina Networks³</th>
<th>Oregon Coordinated Care Organizations⁴</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What kinds of entities typically form the PHCOs?</strong></td>
<td>General practices; partnerships between practices, nongovernment organizations, state and/or local governments</td>
<td>Partnerships between hospital systems and practices; broad-based coalitions of public and private providers, Medicaid health plans</td>
<td>Physician practices; hospitals; partnerships between practices, and hospitals</td>
<td>Physician practices; partnerships between practices, hospitals, and/or community-based organizations</td>
</tr>
<tr>
<td><strong>Governance</strong></td>
<td>Independent public companies limited by guarantee, managed by skills-based boards, subject to the Corporations Act 2001. Must have demonstrated record for managing risk and efficient and effective use of managing public funds. Governance arrangements should promote strong linkages between Medicare Locals &amp; local health providers, Local Hospital Networks, and community members</td>
<td>Regionally based organizations, some Limited Liability Companies (LLCs), and a mix of nonprofits and for-profits with a minimum of 3 years of recent Medicaid experience as well as coordinating and delivering or commissioning the delivery of comprehensive health care services spanning both the inpatient &amp; outpatient continuum of care. Must form a Performance Improvement Advisory Committee, with a formal membership and governance structure, to allow for provider and client input.</td>
<td>Local or Regional, 501(c)(3) nonprofit organizations and 1 county health department. Networks are comprised of health care and support service providers who share resources and execute care improvement initiatives. Networks are required to have a skills-based board and include several committees including a steering committee that includes primary care physicians &amp; representatives from local hospital, health department, social services, &amp; other community health organizations.</td>
<td>Community or statewide organizations, mostly Limited Liability Companies (LLCs), and a mix of for-profits and nonprofits. May contract with counties or with other public or private entities to provide services to members. Must have experience and capacity for managing financial risks. Governing body must include members that have financial risk in the organization and at least 2 health care providers in active practice.</td>
</tr>
<tr>
<td><strong>Authority</strong></td>
<td>Federal and state Health Reform Agreement</td>
<td>State legislation, federal Centers for Medicare and Medicaid (CMS) state plan amendment</td>
<td>Federal CMS waiver</td>
<td>State legislation, federal CMS waiver</td>
</tr>
<tr>
<td><strong>Objectives</strong></td>
<td>1) Improve the patient journey through integrated and coordinated services; 2) Support clinicians and service providers to improve patient care; 3) Identify local health needs and develop responsive services; 4) Facilitate the rollout of new national primary health care initiatives; and 5) Promote strong governance and efficiency.</td>
<td>1) Expand access to comprehensive medical homes 2) Integrate and coordinate access to physical, behavioral health, and social services 3) Ensure satisfaction and engagement of both patients and providers 4) Apply data and analytics to support transparent, secure data sharing and monitoring and measurement of health care costs and outcomes.</td>
<td>1) Form networks of community physicians, hospitals, health and social services departments, etc. to plan and to develop programs to meet local health needs 2) Use population management approaches to work with providers to improve outcomes 3) Provide care and case management support to help physicians manage complex patients 4) Give feedback and data to inform care</td>
<td>1) Integrate and coordinate benefits and services 2) Provide local accountability for health and resource allocation and improve health outcomes through meeting state-defined metrics goals; 3) Manage a global Medicaid budget tied to a sustainable rate of growth 4) Provide standards for safe &amp; effective care.</td>
</tr>
</tbody>
</table>

¹Department for Health and Ageing. Guidelines for the establishment and initial operation of Medicare Locals & Information for applicants wishing to apply for funding to establish a Medicare Local. Canberra, Australia: Department for Health and Ageing; 2011.
²Colorado Department of Health Care Policy and Financing. Request for Proposals RFP # HCPFKQ1102RCCO Regional Care Collaborative Organizations for the Accountable Care Collaborative Program. Denver, CO: State of Colorado; August 2010.
<table>
<thead>
<tr>
<th>Select medical home activities</th>
<th>Australia Medicare Locals(^1,2)</th>
<th>Colorado Regional Care Collaborative Organizations(^3)</th>
<th>North Carolina Networks(^4-7)</th>
<th>Oregon Coordinated Care Organizations(^8-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary Care provider engagement</strong></td>
<td>All</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Involvement in governance/decision making processes</td>
<td>Limited</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Use of contracts to engage all primary care providers</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Provide education and training</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td><strong>Comprehensive care</strong></td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Coordinate access to mental health services</td>
<td>Most</td>
<td>Most</td>
<td>Limited</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Integrate mental health providers in primary care practices</td>
<td>All</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>Provide resources for team-based care</td>
<td>All</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td><strong>Patient/family role</strong></td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td><strong>Coordinated care</strong></td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Establish partnerships across care spectrum</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Work with hospital and specialty services</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Use of care coordinators</td>
<td>Most</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td><strong>Accessible services</strong></td>
<td>Most</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>Work with practices to improve scheduling</td>
<td>All (Core requirement)</td>
<td>Most (Core requirement)</td>
<td>Limited</td>
<td>Most (Core requirement)</td>
</tr>
<tr>
<td>After-hours face-to-face urgent care</td>
<td>All (Core requirement)</td>
<td>Most (Core requirement)</td>
<td>Limited</td>
<td>Most (Core requirement)</td>
</tr>
<tr>
<td><strong>Quality and Safety</strong></td>
<td>Most (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Clinical data feedback to practices to support evidence-based medicine</td>
<td>All</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>Quality improvement teams to work with practices</td>
<td>Most (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td><strong>Cost-efficient care</strong></td>
<td>Limited</td>
<td>All</td>
<td>None</td>
<td>All</td>
</tr>
<tr>
<td>Financial incentives for practices to focus on utilization</td>
<td>Limited</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Cost data to practices</td>
<td>Limited</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
<td>All (Core requirement)</td>
</tr>
<tr>
<td>Targeted case management for high-cost patients</td>
<td>Limited</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
</tbody>
</table>

\(^1\)Department for Health and Ageing. Guidelines for the establishment and initial operation of Medicare Locals & Information for applicants wishing to apply for funding to establish a Medicare Local. Canberra, Australia: Department for Health and Ageing; 2011.


\(^3\)Colorado Department of Health Care Policy and Financing. Request for Proposals RFP # HCPhysQ1102RCCO Regional Care Collaborative Organizations for the Accountable Care Collaborative Program. Denver, CO: State of Colorado; 2010 August.

\(^4\)North Carolina Department of Health and Human Services Division of Medical Assistance. Amendment to the North Carolina’s waiver under Section 1915 (b)(1) of the Social Security Act to include Community Care Plan Access II. Raleigh, NC: State of North Carolina; January 28, 1998.


Source/Notes: Author’s analysis of data from interview notes and from government documents listed above. NOTE: Core requirement means expectation of PHCOs as stated in government documents for prospective PHCOs. Most means ≥50% (limited means <50%) determined from number of PHCO interviewees from each study site who reported some level of activity in this domain; this could range from activity with a few practices to activity with many practices.
a limited number of practices to expand access to appointments for same-day scheduling and reduced waiting times.

US interviewees reported limited work with practices to provide after-hours face-to-face urgent care. After-hours coverage tended toward 24 hour/7 day telephonic triage support. All reported extensive work with a wide number of practices to expand access to timely or same-day primary care appointments through medical home certification processes.

Cost-efficient care. Each government recognized the role of PHCOs in improving delivery system efficiency and reducing unnecessary cost.

ML criteria focused on “more efficient utilization of health and administrative resources” and expectations to contribute to “efficiency and equity across health sectors in the local area.” Therefore, MLs focused on streamlining referral mechanisms and coordinating care across sectors to reduce wait times for specialty care, unplanned admissions, and/or emergency department presentations using the tools mentioned previously (eg, HealthPathways). Work to identify high-cost, high-needs patients in the care system and target care management resources was more limited. In Australia, data on hospitalization and specialty care utilization resides with the state and territory governments, and access to these data has been a challenge for MLs in identifying patients and practices that require added resources. Several ML interviewees reported plans or projects under way to work with their state or territory governments and local hospital networks to improve data collection and sharing.

In the United States, improving work at the systems level was widely reported, but in addition, all US PHCO interviewees were focused on reducing costs through the identification and management of high-needs, high-cost patients. All US PHCOs reported receiving monthly or quarterly claims data reports from their statewide analytics center that described PHCO performance on costs and quality metrics, allowing them to see opportunities for interventions. Colorado and North Carolina PHCOs also received provider- and patient-level metrics. Oregon CCO interviewees reported the development of in-house capacity to perform their own patient and provider analytics.

Policy levers and PHCO experience

Interviewees were asked to rank their government’s level of priority placed on PHCOs to focus efforts and resources on supporting high-functioning primary care providers. The responses were squarely split along international lines with all US PHCOs giving their state governments a high ranking and a majority of Australian MLs giving the Commonwealth a low ranking. Despite similar policy objectives, the differences in interviewees’ responses were attributed to government direction and the availability of 2 policy levers needed to support transformation work: payment model and performance framework.

Payment model. The Australia ML payment model is distinct from the 3 study states. The MLs’ primary payment initially came in 3 categories: core (general administrative overhead), flexible funding (activities to support a range of primary care initiatives and services to meet local health needs), and program funding (implementing Commonwealth priority programs.) The payment amounts were determined based on the relative cost differences of operating MLs across the country, accounting for unique characteristics of the catchment area and population and weighted to take into account such factors as health inequities, socioeconomic status, age profiles, among others. To provide a rudimentary comparison for context, one urban ML with a population of approximately 908,000 patients reported a per annum budget of $40 million, which would translate to about $44 per member per year or $3.70 per member per month (PMPM).

In the 3 study states, payment to the PHCOs was calculated on a PMPM basis and was to be used to identify chronically ill and other high-risk populations and work with practices to improve the delivery of services to these groups to meet state health objectives. At the outset, RCCOs in Colorado received $13 PMPM; in North Carolina, networks received $13.72 for Aged, Blind, and Disabled populations and $3.72 for all others. In Oregon, CCOs received a capitated PMPM portion for the services formerly provided by physical health plans, behavioral health (mental health and substance abuse) organizations, and dental care organizations that was tied to a 3.4% fixed rate of growth.

Colorado and Oregon PHCO payment models also included a performance-based component. In Colorado, $1 PMPM was withheld and in Oregon, 2% (a year later, 3%) was withheld to be “earned back” if the PHCOs met the performance indicators summarized in Table 5. All PHCOs in Colorado and Oregon described voluntarily passing through a portion or all money earned back to practices that performed well. Neither Australia nor North Carolina used performance-based payments for their PHCOs.

Another PHCO payment model distinction was that both Colorado and North Carolina Medicaid programs also provided a PMPM payment to primary care providers who contracted with their PHCOs to meet program objectives. The payment to the primary care providers, in addition to fee-for-service rates, was $5 PMPM for caring for Aged, Blind and Disabled populations and $2.50 for all others in North Carolina and $4 PMPM in Colorado. In addition, Colorado also held back $1 of the $4 PMPM for providers to earn back when their RCCO performed well on the key performance indicators.

A majority of ML interviewees responded that their payment model provided insufficient funding levels, and 93% described a lack of flexibility to use their funding as chief barriers in their efforts to support high-functioning primary care practices. For an example, one ML CEO described how out of a $40 million budget, only $900,000 was allowed for flexible spending. Only 1 interviewee across the 3 states described the funding level as insufficient. None of the US interviewees described their current payment model as inflexible. North Carolina and Oregon interviewees described the Medicaid-only focus of their state’s initiative as being of insufficient scale to effect broad-scale primary care transformation.

Performance framework. Both Colorado and North Carolina governments contracted with private entities to provide data and analytics through a Web portal to support PHCOs (and primary care providers) in meeting quality and cost objectives. These data analytic centers used claims data...
<table>
<thead>
<tr>
<th>Domain</th>
<th>Australia Medicare Locals (MLs)</th>
<th>Colorado Regional Care Collaborative Organizations (RCCOs)</th>
<th>North Carolina Networks</th>
<th>Oregon Coordinated Care Organizations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preventive care (Primary care services)</td>
<td>Life expectancy(^1); adult overweight or obese(^1); general practitioner visits(^1); tobacco use(^1); health promotion activities; access to after-hours care</td>
<td>Well-child (^2) visits ((age 3–9)); postpartum visits(^2)</td>
<td>Effective contraceptive use(^2); timely prenatal and postpartum care(^2); child dental sealants(^2); adolescent well-child visits(^2); health assessments for foster children(^2); obesity; tobacco use</td>
<td>Depression screening and follow-up(^2); colorectal screening(^2); child developmental screening (in first 36 months)(^2); low birth weight; alcohol and substance abuse screening(^2)</td>
</tr>
<tr>
<td>Screenings, tests, vaccines</td>
<td>Immunization rates for 1- and 3-year-olds(^1); immunization coverage rates for children</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managing chronic care</td>
<td>Potentially avoidable deaths(^1); primary care services for aged care facility residents</td>
<td>Medication reconciliation for high-risk patients; care management and assessment for at-risk Aged, Blind, and Disabled patients</td>
<td>Follow-up after hospitalization for mental illness(^2); high blood pressure control(^2); diabetes control(^2)</td>
<td></td>
</tr>
<tr>
<td>Patient experience, satisfaction, engagement</td>
<td>Waiting times for general practitioner and specialists appointments(^1); cost barriers for general practitioners(^1) and specialists(^1) care; cost barriers for prescription medications(^1); ML understanding of patient experience with local health care; ML engagement with consumers</td>
<td></td>
<td></td>
<td>Adult and child access to care(^2) and satisfaction with care(^2); getting timely needed care; adult health status</td>
</tr>
<tr>
<td>Utilization</td>
<td>Adult emergency department visits(^1); adult hospital admissions(^1); preventable hospital admissions(^1); specialists visits(^1); allied health or nurse visits(^1)</td>
<td>Emergency department visits(^2)</td>
<td>Emergency department visits(^2); preventable emergency department visits; all-cause hospital readmissions</td>
<td></td>
</tr>
<tr>
<td>Practice transformation</td>
<td></td>
<td>Emergency department visits(^2) and hospital admissions; preventable hospital readmissions; generic prescription use</td>
<td></td>
<td>Electronic health record adoption(^2); medical home enrollment(^2)</td>
</tr>
</tbody>
</table>

\(^1\)National Health Performance Authority 2013 metric.
\(^2\)Incentive metric aligned with performance payment.
\(^3\)According to Colorado Department of Health Care Policy and Financing, these metrics represent the key performance indicators and are aligned with payment. RCCOs are assessed on numerous other metrics as well.
\(^4\)North Carolina networks are assessed on numerous clinical measures provided through claims data and chart reviews.

Source/Notes: Author’s analysis of data from the following government documents and Web sources:
to provide trending analysis, population management, quality, cost of care, and in North Carolina, predictive modeling reports on a quarterly and on-demand basis. Reports also compared performances of PHCOs as well as the providers. North Carolina Informatics Center data also were supplemented by clinical data provided through regular chart audits. In addition, North Carolina networks and providers had access to real-time inpatient and emergency admission, discharge, and transfer data from most hospitals in the state.20

In Oregon, the Health Authority Office of Health Analytics provided CCOs with claims data reports on progress toward meeting performance metrics on a monthly basis. Twice annually, the Oregon Health Authority publicly released CCO performance metrics described in Table 5, as well as cost and utilization data. In addition, Oregon implemented a centralized registry known as the Emergency Department Information Exchange as a valuable resource.

The kinds of PHCO performance metrics selected varied dramatically across the 4 study sites as seen in Table 5. The only metric that all 4 PHCOs shared was emergency department utilization.

Discussion

This study sought to compare and contrast the policy making and implementation experience of PHCOs found in Australia, Colorado, North Carolina, and Oregon; each government has made significant investments in PHCOs with expectations to improve health system efficiency and to support high-functioning primary care practices. This study found PHCOs in each of the 4 sites that were meeting government expectations to support primary care transformation, but across the board, the US PHCOs demonstrated more robust and consistent activity. These activities were linked to the use of a flexible payment model and a performance framework. Although most Australia MLs reported some activities to support high-functioning primary care, there were considerable differences in their level of effort with some supporting many practices, but most supporting just a few—findings consistent with a 2014 government-commissioned report.23 The study findings aimed to make policy recommendations to help inform future and current policy making regarding using PHCOs as vehicles to accelerate practice transformation efforts.

**PHCOs need scale to tilt the transformation scale**

Because of single payer coverage in Australia, the MLs have scale that the US PHCOs need to effect broad-scale primary care transformation. Several PHCO interviewees in the United States described lacking the leverage to influence or engage primary care practices that see a limited number of Medicare patients. This finding is consistent with those found in other literature related to multi-payer medical home payment reform.24-25 Multi-payer financing of PHCOs would address this limitation. In 2014, Oregon CCOs allowed state employees to select health plans that included CCOs,26 and there are future efforts to allow public education employees to opt in. North Carolina has had some success attracting other payers and purchasers to contract for network services to care for privately insured patients, holding promise for further expansion.27 Negotiating the inclusion of public employees and/or private payers and purchasers into the PHCO fold would be a significant gain in scale for any US-based PHCOs by giving them a broader reach to accelerate practice transformation efforts.

**Alignment of payment and performance measures for PHCOs in coordination with other sectors is essential to meet health system goals**

Colorado and Oregon introduced progressive PHCO and provider payment models that offer strategies for policy makers developing new or reforming existing PHCOs. Both states developed payment models aligned with performance metrics for both PHCOs and providers to meet together. Oregon’s PHCO model, the newest model included in this study, took an additional step in the payment model evolution and provided its CCOs with a global budget to create community-based accountable care organizations. Both states have reported early wins in lowering cost growth and improving quality with these models.28,29

In Australia the split in financing between primary care (Commonwealth) and hospital and specialty care (states and territories) and the lack of data sharing across sectors have created barriers to designing a PHCO payment model aligned with a performance framework. The states and territories in Australia were receiving “activity based”14 or volume-based funding from the Commonwealth and there was little incentive to coordinate with PHCOs to reduce unnecessary costs. Developing a coordinated data collection strategy and sharing this information across sectors is foundational to guiding activities related to the development of a payment model with goals to reduce per person and per
The medical home is a model of care that has been widely tested in the United States. Although familiar with the medical home model, for interviews in Australia, the term “high-functioning primary care providers” was interchangeably with medical home.

Conclusion

PHCOs have been an important vehicle for governments in Australia, Colorado, North Carolina, and Oregon and other nations across the world to roll out initiatives aimed at strengthening the primary care foundation. Developing capacity in primary care practices to care for the needs of chronically ill populations requires support that PHCOs are well positioned to provide—given the right levers. Clear policy directives and the combination of flexible and incentive funding aligned with a performance framework are necessary levers to ensure that PHCOs work uniformly toward and achieve macro-level health system goals to support primary care capacity while being nimble enough to meet the unique needs of their provider and patient communities.

Author Disclosure Statement

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References


BUILDING PRIMARY CARE CAPACITY: COMPARING US TO AUSTRALIA


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1. Lyle R. Turner, Christopher Pearce, Bianca Brijnath, Colette Browning, Judy Lowthian, Marianne Shearer, Danielle Mazza. 2018. General practice utilisation of Medicare Benefits Schedule items to support the care of older patients: findings from the REDIRECT study. *Australian Journal of Primary Health* 24:1, 54. [Crossref]