

Implementing High-Quality Primary Care Through a Health Equity Lens

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ABSTRACT

The COVID-19 pandemic highlighted the importance of centering health equity in future health system and primary care reforms. Strengthening primary care will be needed to correct the longstanding history of mistreatment of First Nations/Indigenous and racialized people, exclusion of health care workers of color, and health care access and outcome inequities further magnified by the COVID-19 pandemic. The National Academies of Sciences, Engineering, and Medicine (NASEM) released a report on *Implementing High-Quality Primary Care: Rebuilding the Foundation of Health Care*, that provided a framework for defining high-quality primary care and proposed 5 recommendations for implementing that definition. Using the report's framework, we identified health equity challenges and opportunities with examples from primary care systems in the United States and Canada. We are poised to reinvigorate primary care because the recent pandemic and the attention to continued racialized police violence sparked renewed conversations and collaborations around equity, diversity, inclusion, and health equity that have been long overdue. The time to transition those conversations to actionable items to improve the health of patients, families, and communities is now.

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INTRODUCTION

The COVID-19 pandemic affected health care service worldwide,¹ and exacerbated and exposed systemic racial and ethnic health care inequities. Ideally, as we begin to forge a path forward, health care reform efforts will focus on providing equitable access to high-quality health care. Primary care, with its focus on the health of both individuals and communities, could play a key role in addressing health inequities.²⁻⁶ Chronic underinvestment in primary care, particularly in the United States, however, currently limits its impact on health disparities.

Policy makers in the United States and Canada have recognized the need for primary care reform and for adopting strategies that lead to more equitable and accessible high-quality care for their populations.⁷ Recently, the United States and Canada ranked last and next to last, respectively, in health equity, health care outcomes, and overall performance ranking among 11 high-income countries.⁸ The top-performing countries overall were Norway, the Netherlands, and Australia.⁸ Most developed countries spend an estimated 12% to 17% of total health expenditure on primary care, whereas the United States spends an estimated 5.4%.⁹ Countries that invest in primary care have better population health, lower health costs, better health care utilization patterns, and reduced mortality.¹⁰

The disproportionate toll on Black, Latinx, and Indigenous communities in the United States from the COVID-19 pandemic has amplified the need for a more culturally and linguistically diverse primary care workforce.¹¹ In Canada, while the workforce of physicians has been steadily growing, it has not kept up with its population growth, increased immigration, and cultural diversity.¹² As a result, historically and structurally marginalized groups such as First Nations people living in remote rural communities continue to experience inadequate access to health care and poor health outcomes.^{13,14} Patients in both the United States and Canada face primary care access inequities and, consequentially, risk a higher burden of illness and resulting comorbidities.^{15,16} Despite divergence between the United States and Canadian health care system infrastructure, there is much to learn from one another in the pursuit of equitable health reform and recovery.

The recommendations released in the National Academies of Sciences, Engineering, and Medicine (NASEM) report, *Implementing High-Quality Primary Care: Rebuilding the Foundation of Health Care*,⁷ have generated much discussion.^{17,18} The report recommends the US Department of Health and Human Services (HHS) establish a Secretary's Council on Primary Care and make it the accountable entity for primary care and an Office of Primary Care Research at the National Institutes of Health (NIH). This 2021 report is built upon the foundational work that defined primary care 25 years ago, the Institute of Medicine report *Primary Care: America's Health in a New Era*.¹⁹ The 1996 US-based report recommended implementing a primary care system that would provide universal insurance coverage and enable adequate health care career training opportunities. This model is comparable to Canada's publicly funded health care system. It is important to note that, as in the United States, the Canadian health system was built upon systemically rooted structures of discrimination, racism, and inequities.²⁰ Leveraging health care systems knowledge from both Canada and the United States, this special article aims to apply a health equity lens to the 5 recommendations put forward in the 2021 NASEM report. We hope to advance global initiatives and discussions aimed at meaningful and equitable health reform by placing high-quality primary care at the center.

Recommendation 1: Pay for Primary Care Teams to Care for People, Not for Doctors to Deliver Services

While teams have been important in health care for decades, payment structures in the United States have largely relied on billing for physician-delivered services.¹⁸ The idea of rewarding the team instead of the doctor leads to a broader rethinking of how we reimburse for medical care. The NASEM report defines teams broadly, including physicians, dentists, pharmacists, nurse practitioners, physician assistants, medical assistants, community health workers, etc. Among these professions, those employed in the lowest-paying jobs (ie, medical assistants, community health workers) are often minoritized individuals from various ethnic and racialized backgrounds.²¹⁻²⁴ As teams become more race concordant with individual patients, health care outcomes will likely improve.^{25,26}

Ideally, team leaders will be from diverse backgrounds in order to establish a more equitable vision for health care organizations and to increase the probability that the needs of underserved communities are met. Changes in admissions processes for medical, nursing, dental, pharmacy, and other health professional schools are necessary to ensure that team leadership is equitable, because Black, Latinx, American Indian/Alaska Native/First Nations, and Pacific Islanders remain underrepresented in those professions.²⁷⁻³⁰ In addition, holistic admissions honoring distance traveled and individual experiences should be equitably implemented throughout professional training programs in health care.³¹ As we diversify health care teams to care for people, it is important to

ensure that team members from under-represented backgrounds are not burdened with "minority taxes" (ie, the sum of inequitable distribution of extra responsibilities and uncompensated work in the name of diversity), which hinder participation in medical education and research initiatives.³²⁻³⁵ Minority taxes also contribute to the lack of diversity in leadership, and research teams needed to codesign equitable solutions.³⁶ In transitioning to paying teams to care for people, input from diverse, underserved communities can highlight inequities and redefine high quality health care,³⁶ guiding decision makers toward more equitable solutions.

Some nations have adopted primary care financing reforms including capitation and team-based care, although these can result in inequitable resource allocation of health services (eg, declining to enroll people with mental health disorders).³⁷ To avoid having inequitable allocation of health services as an unwanted effect of payment reform, health systems should consider "need-based formulas" in their reimbursement models.³⁸ Implementing high-quality care will also require facilitating multi-payer collaborations and increasing the overall portion of health care spending on primary care.

Recommendation 2: Ensure That High-Quality Primary Care is Available to Every Individual and Family in Every Community

All individuals should have access to a primary care clinician in a strong health care system. While there are no quick fixes to ensuring primary care access for everyone, several initiatives have been shown to improve access. For example, access to timely care can mediate important health outcomes. In Canada, Ontario's experience suggests that incentivizing primary care teams to improve after-hours clinic access outside regular working hours helps to reduce emergency department visits.³⁹ As we develop policy initiatives targeting increased primary care access, we need to maintain the spotlight on issues of equity.

An intersectoral health systems approach can deliver equitable and sustained access to high-quality primary care. Interventions that focus on community engagement, outreach programs (fixed or mobile), housing, case management, and integration of services are essential to ensuring that traditionally underserved populations (ie, homeless, incarcerated, and those with mental illness and substance use disorders) have access to high-quality primary care.⁴⁰⁻⁴³ For example, access to psychiatric care and expansion of mental health services was improved in Indigenous Cree communities in Manitoba, Canada, by using an intersectoral community-based approach that connected mental health services to primary care for adults.⁴³ Overall, investments in sustained longitudinal team-based care and creation of health centers in areas with primary care shortages need to be prioritized.

Identifying individuals who do not currently have a connection to a primary care clinician, possibly by using electronic medical records (EMR), could drive outreach to help such individuals connect with primary care teams in their

communities. To ensure an adequate supply of primary care teams in underserved communities, health care systems can use geocoded information highlighting underserved neighborhoods to guide expansion decisions. Improving Medicaid reimbursement levels would incentivize service delivery in underserved areas. Incentives for recent graduates to work in rural and underserved settings should be expanded.

Recommendation 3: Train Primary Care Teams Where People Live and Work

The health care needs of increasingly diverse populations in the United States and Canada are greatly challenged by population density and geography. For example, in rural United States, the primary care physician per patient ratio is about 39.8 per 100,000 compared with 53.3 per 100,000 in US urban areas,⁴⁴ even though chronic diseases such as diabetes and coronary artery disease are more prevalent in rural areas.⁴⁵ Similarly, only 22 dentists are available per 100,000 patients in rural United States compared with 30 per 100,000 in US urban areas.⁴⁶ Health care professionals and patients in rural and remote areas face vastly different obstacles from those in urban areas, including cultural and social differences, educational gaps, economic deprivation, and geographic isolation, all of which contribute to the immense health care inequities experienced in rural areas. For instance, Indigenous people and communities in remote areas of Canada face unique health access challenges with fewer health care services, and in many instances, access is fly-in only. As a result, hiring and retention in these communities is difficult, and the time needed to build trusting relationships with primary care clinicians is hampered. In addition, people living in indigenous reserves and rural regions tend to have higher rates of illnesses and increased prevalence of comorbidity and multimorbidity. Health care professionals trained to work and live in the communities they serve would develop a deeper understanding of the community's cultural and health needs and train to provide holistic care as primary care clinicians.

Potential health care team members who live in rural and some underserved urban areas may not have access to training opportunities. The US Department of Education and the US Department of Health and Human Services should partner to expand educational pathways to increase opportunities for students from rural/remote communities and minority ethnic groups who are underrepresented in health professions. Canada's Northern Ontario School of Medicine is one example of situating training within rural and remote communities, which has a positive impact on trainees and the community.^{47,48} High school programs can train certified nursing assistants, certified medical office assistants, and dental hygienists. Partnering with local community colleges and expanding existing programs will make these entry-level professions accessible to more individuals. In addition, special care is needed to ensure that those employees who desire to move beyond entry-level jobs have the support to do so.

Finally, care of populations made vulnerable by racist social and economic policies should be embedded in medical school education and training to increase trainees' interest in practicing in areas where they are most needed.⁴⁹

Recommendation 4: Design Information Technology That Serves the Patient, Family, and the Interprofessional Care Team

The COVID-19 pandemic has forced many primary care clinicians to pivot rapidly to virtual care to serve patients and families. While virtual care has minimized virus transmission risk, it was not without challenges regarding privacy, ownership, longitudinal care, chronic disease management, and health care access. In some ways, virtual care has improved health equity and access to care (ie, improved rural access to telepsychiatry and teledermatology services even before the pandemic).⁵⁰⁻⁵² The rapid pivot, however, adversely affected many who were already marginalized, because those who are both poor and minoritized are much less likely to have the devices or technical knowledge to make the video visits work.^{53,54}

A person- and community-centered, data-driven approach is needed to customize primary care services and enable interprofessional teams to meet the needs of the population they serve. Careful EMR collection of accurate, self-identified race/ethnicity data, sexual orientation, gender identity, and disability is an important first step to providing whole-person equitable care.⁵⁵ Concerns over commercial secondary use of virtual care data have been raised. Health systems need to develop and adopt clear virtual care guidelines and policies that uphold patient privacy, health equity, and quality care. Historically disadvantaged communities need to be included in the governance discussions and decisions around the use of their own health data, given inherent systemic racism and decades of data and research misuse and exploitation endured by Indigenous and Black communities.⁵⁶⁻⁵⁸

Software developers, researchers, and analysts must ensure that developed algorithms are free of bias and enhance patient care. For example, recent evidence suggest that some EMR-based decision support tools have increased bias because they were based on inaccurate race data and limited training sets.^{59,60} Algorithms designed for public health should be accessible (open source, nonproprietary) so that they can be externally validated and audited to ensure their equitable performance in each locale for which they are employed.⁶¹

Thus, information technology and artificial intelligence tools should take a health equity-informed approach as they collect and incorporate race, ethnicity, and other sociodemographic data into their coding and analysis algorithms.

Recommendation 5: Ensure High-Quality Primary Care is Implemented

Implementing high-quality care will require innovative approaches that are health equity-focused.⁶² One approach is social prescribing, which integrates support for finances, food, shelter, and social needs into primary care.⁶³ Social

prescribing takes many forms depending on the community served, resources available, and patient needs. It may include prescribing financial support, food access, trauma-informed counseling, a knitting circle, or a walking group. Social prescribing can improve mental health, social integration, physical activity, and disease self-management. Social prescribing acknowledges social determinants of health and is based on meaningful engagement of patient “health champions” (patients who promote healthy lifestyles by inspiring others to take a more active role in their health), primary care clinicians, and allied health professionals in a team-based model of care focusing on health equity.⁶⁴

Direct evidence on the importance of having an equity-focused approach to primary care quality improvement is also reflected in a recent comparative study of adult mortality rates in Ontario and England.⁶⁵ The study showed a significant improvement of 10% in the relative gap in mortality by income in England compared to Ontario, because England had prioritized an explicit primary care policy targeting health inequity reduction. In contrast, Ontario focused on improving overall access (in addition to increasing screening and other specific services) for the entire population.⁶⁵

DISCUSSION

The importance of health equity, diversion, and inclusion (EDI) has been realized, thanks to a heightened awareness of health outcomes and vaccination inequities during the syndemics of COVID-19 and racialized police violence.^{66,67} The changes in the global narrative brought about by these syndemics have created a shift from “race-based” to “racism-based” or “race-conscious” medicine.⁵⁶ A new level of accountability for health systems, academic medical centers, medical societies, health care organizations, and stakeholders is emerging. Thus, having well defined and detailed EDI accountability metrics will be central to ensuring implementation of high-quality primary care. The foundational components of those metrics include a common lexicon for EDI initiatives focusing on the diversity of primary care clinicians, leaders, and team members and a core emphasis on meaningful patient engagement and community partnerships. Organizations need to review and make honest appraisals of strategic plans, mission statements, and statements of values, as these statements may not promote EDI.⁶⁸ A critical component of EDI accountability metrics includes evaluation criteria for senior leaders that are linked to compensation. Senior leadership accountability must be based on the benefits that EDI brings to the organization and not merely on the numbers of people for diversity's sake.

Information technology, interprofessional health care, community partnerships, patient-engagement teams, and data need to reflect the rich diversity of our planet. EDI training and familiarity with the EDI literature will position health care organizations for success in implementing high-quality primary care. Moreover, awareness of primary care quality

measures is important. As defined by the Healthcare Effectiveness Data and Information Set (HEDIS), current quality measures are used by most health systems in the United States. They are followed closely by leadership to measure health care quality of care performance, and some clinician bonuses are contingent upon meeting the HEDIS quality goals. Overall, funding and staffing allocations need to be informed by an equity-focused policy that is transparent and involves all stakeholders' input. This will require relationship building and ongoing intersectoral teamwork to meet current and future health care needs.

Ultimately, primary care availability is largely dependent on political and policy decisions that may or may not address the needs of all patients and communities.^{69,70} Decision-making bodies need to have an equitable representation to ensure a health equity focus of primary care expansion, where services are not limited to areas with the greatest possibility for profit, but rather to where unmet health needs are the greatest.⁷¹ Without a policy focus on health equity, primary care reform may worsen the already existing health inequities.

CONCLUSION

Implementing NASEM recommendations to achieve high-quality primary care is going to take deliberate, sustainable efforts from health care systems, policy makers, primary care networks, medical societies, medical schools, and health care organizations. Ongoing work by the national academies and other stakeholders with an EDI and healthy equity focus is needed to reinvigorate primary care. As we move toward the next stages of primary care reform, having a health equity-informed public policy will be key to reduce and eliminate existing health inequities and ensure provision of high-quality primary care.

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Key words: health equity; health system reform; primary care reform; racism in medicine; exclusion in medicine; coronavirus pandemic

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