

EDITORS' NOTE

Primary Care in the COVID-19 Pandemic: Essential, and Inspiring

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You may encounter many defeats, but you must not be defeated. In fact, it may be necessary to encounter defeats. . . so you can know who you are, what you can rise from, how you can still come out of it.

—Maya Angelou

Spurred by a novel coronavirus pandemic, 2020 will undoubtedly stand out in the annals of history for radically upending the norms of US politics, economy, culture, and race relations and reminding us of the fragility of life as we know it. The US health care system, which has long struggled with fragmentation and poor return on unmatched per-capita spending, further revealed its shortcomings, among them continuing inattention to primary health care, which the world has long declared should be the “central function and main focus [of a] country’s health system.”¹ The disproportionate impact of COVID-19 on disadvantaged communities has shone another bright spotlight on the long-standing health and wealth inequities in our nation and the urgent need to address them.^{2,3}

And yet, while facing devastating practice and personal losses^{4,5} from the predictable failure of an archaic fee-for-service-payment system,^{6,7} we’ve also witnessed inspirational glimpses of the adaptability, innovation, and heroic responses of primary care teams in a time of crisis.⁸ Nearly every person and community in this country has been affected by the COVID-19 pandemic. Family medicine and primary care teams have been here for them in so

many different ways. Shifting our modes and manners of care delivery nearly overnight to telehealth⁹ while simultaneously filling gaps in public health, urgent, emergency, inpatient, and intensive care, primary care has risen to the occasion and pushed the limits of what is possible. This special issue highlights many examples of these shifts and also provides a glimpse of the future. For many, primary care adaptations in this crisis also represent long-overdue opportunities for change,¹⁰ horses now out of the barn whose return is unlikely.¹¹ And, while we remain in the middle of this tunnel and unsure of its length, heroic efforts by primary care colleagues and friends have been our lifelines, calming forces, and guiding lights in the darkness.

Adapting and Leading in a Time of Uncertainty

As the largest platform of health care delivery in the United States,^{12–14} but the recipient of only 5% to 7% of all health care investment,¹⁵ primary care entered the crisis facing greater demand with fewer resources than their more heralded hospital and subspecialty peers. We applaud primary care teams everywhere for their radically adaptive behaviors while preserving and expanding care for the needs of patients and communities over the past year. To comply with physical distancing recommendations, teams have scrambled to comfort patients, build respiratory clinics,¹⁶ redesign workspaces, develop new protocols,¹⁷ reschedule visits, and interpret still-evolving regulations about scheduling, documenting, and billing to provide equitable telemedicine services,¹⁸ often without guarantee of reimbursement.¹⁹ Teams have faced a tsunami of increasing demands.²⁰ These include an increasing volume of calls from worried patients, myriad patient and provider technology challenges²¹ in

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Figure 1. Turning the pandemic crisis into opportunity.



an emergent and unprecedented virtual care environment, nascent testing schemes, and the absence of a national strategy. Yet, our teams have kept up on rapidly changing clinical information, ensured timely access to critical therapies,^{22,23} embraced new team-based models of care,¹¹ engaged patients and families in practice improvement,²⁴ and rearranged staff schedules when schools closed and waves of COVID-19 rolled through communities. As leaders in “communities of solution”²⁵ across the country, many primary care clinicians wrote editorials, spoke in public meetings, and worked alongside public health officials and community leaders to provide scientifically sound, trusted, and truthful communications about the novel coronavirus and its deadly risks. Primary care teams partnered with public health teams and practice-based research networks to support discovery²⁶ and to augment community education, testing, and contact tracing, accelerating progress toward long-held visions of primary care and public health integration.²⁷ The clear message? Primary care is here for them.

Rapid Shifts in Technology and Care Delivery

Many teams caught up on 20 years of technology in 2 days. Some did more virtual visits in the first few weeks of the pandemic than they had done in an

entire career and learned lessons certain to shift the future paradigm of primary care delivery. We showed up on video screens across the country to provide expert guidance and compassionate words to many patients terrified to leave their homes. Our calming, trusted voices were heard through the phone lines for many others who did not have access to video technologies. We rapidly adopted virtual techniques to deliver a whole host of services.^{28–33} We coached patients through video self-exams to evaluate acute abdominal symptoms, to assess an incarcerated hernia, and to diagnose and reduce a nursemaid’s elbow. We also rapidly outlined guidelines for determining which visits needed to be in person³⁴ and identified conditions that would be exacerbated and disparity gaps that might widen with strict physical distancing requirements³⁵ and new inequities in access to testing, vaccination, care management, and digital services.^{36,37} With crazy high levels of uncertainty, primary care teams took it all in stride: questions about COVID-19 exposure, physical distancing, stopping or starting medications, “shelter in place” orders, tweets about antimalarials, media recommendations to “call your doctor” for nearly everything, requests for notes to stop working or to return to work after a positive or negative test, or—more likely—no test at all. We did our best to interpret potentially unreliable test results³⁸ and to translate national guidance about returning to work after 3 symptom-free days or 7 days since illness started, amid reports

that infected individuals shed for >30 days and the contagiousness of asymptomatic carriers. We persevered when the World Health Organization recommended widespread testing, but frontline realities were scarcity of testing and personal protective equipment (PPE). Amid countless heart-breaking stories of paralyzing fear, jobs lost, housing instability, food insecurity, and uncertainty about the future, primary care teams kept showing up, mobilizing resources, and serving communities across this country.³⁹ Again: Primary care is here for them.

Persevering Amid Financial Uncertainty and Limited Resources

This care has been (and continues to be) rendered while worrying about how to keep staff employed as fee-for-service revenues dropped to almost zero,^{5,7} PPE resources are severely limited, and many sleep separate from family members and stay away from close friends for fear of spreading the virus. Primary care teams built (and rebuilt multiple times!) surge schedules for how we would cover more hospital shifts⁴⁰ and essential services, took crash courses from intensivists to assist with ventilator management, set up drive-through respirator tents, and discussed end-of-life care plans with patients not wanting hospitalization.¹⁰ When the supply of generalists was too small to meet the demand, some primary care teams stretched capacity by training and redeploying nurses and doctors across their health care system to staff hotlines and mobile testing sites to extend their reach to people in the community without access to primary care and to health care colleagues across their region needing operational and clinical advice.^{41,42} Primary care is here for them.

As serial waves of COVID-19 reverberated through communities across the country, we rapidly developed methods for predicting, understanding, and mitigating risk among our health care colleagues^{43–45} and patient populations^{46–50} and for characterizing novel presentations and new clinical symptoms of COVID-19.^{51,52} We created new services and ways of delivering care to the mounting numbers of patients recovering from COVID-19 in need of home-based rehabilitation care, guidance about returning to work safely, information on how to prevent and how to manage long-term complications, help with family member quarantining,

answers to questions about reinfection, and the list goes on. Patients and colleagues who have lost loved ones need grief counseling, and those caring for severely ill loved ones at home need ongoing support. Once more: Primary care is here for them.

Seizing Opportunity from Crisis—Leveraging Pandemic in Pursuit of High-Performing Primary Care

Despite these seemingly existential struggles, there is opportunity in this crisis for primary care—to emerge stronger, to demonstrate our strengths and what we need to grow stronger, to “break a few things” in a health system that has long neglected primary care’s central role (Figure 1). Ironically, as news of a novel coronavirus reached US shores, the National Academies of Medicine seated a committee charged with charting a path to achieve high-performing primary care in the United States, the first on the topic since 1996.⁵³ The committee, like the clinics reporting in this special edition, was forced to adapt a long-term vision for primary care to the urgency of a pandemic that is pressure testing our health care system and exposing its crumbling foundation and many fault lines. However, in any crisis, shortcomings and failures also highlight opportunities for strengthening primary care, and emergent best practices such as those in this edition help shine a light on what is needed to enable high-performing primary care teams to thrive and improve the health of the nation.

Not surprisingly, amid intense focus on health system pandemic response and acute care, we’ve seen alarming rises in all-cause morbidity and mortality well beyond that attributed to COVID-related illness.^{54,55} Primary care is uniquely positioned to combat this “COVID collateral” during and after the pandemic, to continue managing chronic diseases and delivering preventive care.⁵⁶ Primary care’s critical role in providing mental health care has increased exponentially; similarly, our role in addressing social determinants of health has been a lifeline for socially and economically vulnerable patients.⁵⁷ We have shown the nation ways to shift the focus to community-based care and away from hospital-based care, as much as possible.⁵⁸ At the same time, primary care physicians have responded to inpatient calls for help, serving alongside hospitalists in supporting hospital efforts to ensure there is more capacity in the emergency

departments and intensive care units for the patients who do need to be there. Primary care is here for them.

Above all else, this pandemic and special edition have reminded us of what a resilient, inspirational, compassionate bunch of people are drawn to and found in primary care teams, whose good deeds in times of need and crisis are so worthy of celebration! We've also seen in pandemic how perilously close we are to the collapse of the foundational primary care infrastructure that is the bedrock of our health care system and its largest delivery platform.^{4,13} To shore up and strengthen its essential roles and functions postpandemic will require flexible funding structures that move beyond fee-for-service reimbursement, investment in technology and data capabilities that enable meaningful engagement with patients, and data-driven population health work. It also demands training support to grow a skilled and adaptable workforce able to serve patient and community needs, measures that matter and are meaningful to health, and an enhanced research infrastructure to continuously generate new knowledge that can shed light on an evidence-based path forward at an accelerated pace. In short, absent fundamental health system and payment reform change, *primary care is here—until it is gone*.

We owe a huge debt of gratitude to our primary care colleagues and patients at Oregon Health & Science University, CU-Fairfax Family Practice, and the Diplomates of the American Board of Family Medicine whose stories we draw from, and to all our other primary care unsung heroes around the world.

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