

Health Equity and Solutions in the United States Healthcare System

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Healthcare accessibility and equity remain significant challenges in the United States, with stark disparities among different socioeconomic groups. While initiatives like Medicaid and Medicare have provided coverage for millions of low-income and elderly Americans, gaps persist that leave many without access to essential preventative, acute, and chronic healthcare services. Minority groups and those in rural areas disproportionately experience barriers to care. These inequities stem from a complex interplay of socioeconomic factors. Many lower-income individuals are uninsured due to high premium costs and do not qualify for Medicaid in non-expansion states. Lack of transportation and provider shortages in remote areas also impede access. Cultural and language barriers further challenge minority communities. As a result, disadvantaged populations experience poorer health outcomes, higher rates of preventable illnesses, and decreased life expectancy relative to those of higher socioeconomic status. This paper argues that a multi-pronged approach is needed to solve these profoundly entrenched issues. On the policy front, Medicaid expansion in remaining states and policy reforms like a public option could expand subsidized coverage. Telehealth initiatives targeting remote areas and investment in community health centers aim to expand infrastructure. Insurance companies developing more affordable plans and streamlining enrollment processes foster consumer empowerment. Meanwhile, technological solutions like remote patient monitoring devices and AI-driven triage tools increase access in underserved communities. By addressing barriers holistically through strategic healthcare financing reforms, combined with innovative industry practices and technologies, the gap in health equity across American society can begin to close. Coordinated efforts across sectors promise to deliver affordable, quality care to all.

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1. Introduction

The healthcare system in the United States operates within a complex framework that often excludes specific population segments from adequate care. Disparities based on socioeconomic status, such as income level and employment status, greatly influence one's ability to obtain needed medical services. Geographic location, whether living in rural versus urban areas, also introduces barriers due to a lack of nearby providers and health facilities (Evans et al., 2022).

Disparities also exist based on age, as the elderly and very young populations face access obstacles. Another major factor is the type of health insurance coverage, or lack thereof, as the uninsured have limited options. This stratified landscape where access to healthcare services is unequal based on social and economic characteristics results in significant negative consequences for disadvantaged groups. Namely, it can lead to limited utilization of preventive care, delayed diagnoses of illnesses and diseases, and severe financial burdens due to the high cost of uncovered or unaffordable treatments.

1.1. Current Healthcare Disparities

The existing healthcare system in the USA exhibits what some observers have termed a 'donut hole' effect, with varying levels of coverage among different population segments. Medicaid generally provides beneficial health insurance support for low-income adults and families who meet certain financial eligibility thresholds. However, coverage is lacking in states that have opted not to expand their Medicaid programs up to 138% of the federal poverty level as allowed under the ACA (Drake et al., 2023). Medicare serves as the backbone of coverage for the elderly over 65 and specific disabled populations but does not cover all costs, leaving gaps that many struggle to afford.

While helping expand access, these programs must be more comprehensive in their design and reach. As a result, gaps remain where individuals whose incomes are too high for Medicaid but who cannot afford private plans fall through without adequate healthcare coverage options. Moreover, disparities among various state-level implementations of Medicaid further exacerbate the unequal access to crucial healthcare services across state borders. While significant progress has been made in expanding coverage through programs like Medicaid expansion and the ACA marketplace subsidies, gaps and disparities persist in the current healthcare system.

As outlined above, the "donut hole" effect leaves many with inadequate or unaffordable options based solely on their income or residence. Certain vulnerable groups face disproportionate social and geographic barriers to accessing consistent, quality care (Evans et al., 2022). While policy reforms and multi-sector coordination work to close these cracks over the long run, communities struggling with unmet needs require immediate relief. Targeted initiatives mobilizing safety net infrastructure, utilizing mobile and telehealth capabilities, and deploying navigators to assist underserved populations can help address urgent coverage voids and access barriers. Pursuing a

pragmatic mix of systemic overhauls paired with localized, community-driven solutions holds the most significant promise to make healthcare in America more equitable, inclusive, and just for all.

1.2.Barriers to Access

One of the most pressing issues contributing to inequitable access within the current system is the inability of specific individuals to afford the rising costs of prescription medications. As drug prices in the United States have soared in recent years, often well above rates in other developed countries, the financial burden on patients has become a significant barrier that disproportionately impacts those with lower incomes or no prescription coverage. This includes vital medications to treat chronic conditions like diabetes, heart disease, asthma, and cancer.

Additionally, a lack of early intervention and access to essential preventive healthcare services for disadvantaged groups exacerbates the problem (Bhatt & Bathija, 2019). Without regular doctor visits, screenings, and management of minor issues, relatively inexpensive health problems are more likely to develop into advanced, more complex conditions that require specialized treatment and are far more costly for the healthcare system to remedy. Those without adequate coverage or means face delayed care and the adverse outcomes of neglected medical issues, further driving health inequities.

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Additionally, a lack of early intervention and access to essential preventive healthcare services for disadvantaged groups exacerbates health issues over the long run (Riley, 2012). Due to financial barriers, individuals without adequate health insurance may delay routine doctor visits and screenings. Relatively minor medical problems then have greater chances to progress untreated into advanced, complex conditions requiring specialist care. For example, undiagnosed hypertension can develop into kidney disease or stroke without proper management. Unaddressed mental health issues are also linked to more significant risks of homelessness, incarceration, or substance abuse disorders as symptoms worsen without treatment (Dunne et al., 2015). Investing in affordable primary and preventive care yields long-term savings by reducing the risk of disease complications and disability among underserved populations.

2. Proposed Solutions

2.1. Policy Reform

Comprehensive reform of the existing healthcare policy landscape is urgently needed to promote more significant equity and access. The federal government must implement wide-reaching policies to ensure universal coverage and access to essential preventive, acute, and chronic healthcare services regardless of any individual's socioeconomic status, employment, income level, or geographic location of residence. Specific targeted policy changes could include establishing a federal baseline of required coverage that all insurers must meet, expanding Medicaid programs in remaining non-expansion states, strengthening the coverage options and affordability of ACA marketplace plans, and exploring proposals like a public option or expanded Medicare eligibility to fill current coverage gaps.

The Medicaid and Medicare programs also warrant enhancements to broaden the spectrum of healthcare services covered and reduce cost-sharing burdens. Medicaid could expand benefits to include things like vision, dental, and nonemergency medical transportation, which are known to promote wellness and early intervention. Cost-sharing levels could be lowered for lower-income beneficiaries as well. For Medicare, bolstering coverage of critical social determinants of health needs like home health, personal care, meal delivery, and home modifications could help mediate racial and socioeconomic disparities in health outcomes. Additional benefit enhancements could potentially widen the program's reach.

Strong measures are needed to regulate prescription drug prices and make medications affordable and accessible to all. Price gouging practices by pharmaceutical companies that have led to Egregious price hikes, especially for life-sustaining medications, must be reined in. Implementing negotiated drug pricing, price controls tied to international reference pricing or a consumer price index, and other strategies used successfully in peer countries could help contain costs. Increased transparency of R&D spending, manufacturing, and marketing expenses is also warranted to justify high prices to consumers and taxpayers.

2.2. Industry Innovations

One approach is encouraging pharmaceutical manufacturers to prioritize generic drug production through incentives and policies promoting market competition. As generics proliferate for brand name drugs facing patent expiration, costs significantly decline due to lower development costs and multiple suppliers. Potential policies to spur generics include fast-tracking FDA approval of generic applications, limiting "pay for delay" deals that postpone generics, prohibiting "patent thickets" that stack additional patents to stave off competition, and rewarding companies for rapid generic rollout through tax credits or subsidizing manufacturing facilities. Wider generic availability across classes like insulin could save consumers billions annually and broaden access.

Telemedicine platforms and virtual doctor consultation services show promise in connecting underserved groups with care. Incentivizing further telehealth investment, especially for services addressing chronic illness management, medication reconciliation, nutrition counseling, and mental/behavioral health, can maximize limited health dollars while improving health outcomes. Remote patient monitoring technologies also allow ongoing care in the home. Pair such platforms with rural health clinics and community health centers. Telehealth also saves on travel costs that disproportionately burden those with lower incomes or disabilities.

New partnership models between significant retailers and healthcare insurers/providers could additionally drive down costs through bulk purchasing power and optimized consumer-facing models. The recent Amazon and Costco health initiatives aim to simplify billing/claims and insurance navigation and offer essential services in-store. Such integrated models show the potential to tap retail foot traffic and lower overhead compared to standalone clinics. Equitable access requires continued expansion of convenient, low-cost primary care infrastructure through innovative partnerships across sectors.

2.3.Consumer Empowerment

Disparities in health outcomes often stem from a lack of primary preventive care and late-stage diagnoses exacerbated by inadequate education and resources. Public health campaigns and community health worker programs can help close this gap. Outreach materials in multiple languages and mediums that explain the importance of regular checkups, cancer screenings, vaccinations, and managing chronic illnesses can instill healthier habits. Partnering with community centers, after-school programs, and faith organizations and employing culturally competent health educators can ensure that disadvantaged groups receive preventive information that promotes early intervention. Doing so prevents more expensive emergent care down the road.

Literacy surrounding essential health and insurance concepts must be bolstered nationwide to fully empower consumers to manage their healthcare decisions and hold insurers accountable. Implementing standardized health/insurance education modules in schools can start building core knowledge from a young age. Partnering public libraries or community colleges with healthcare providers for adult learners offers accessible class locations. Digital and printed guides break down complex medical bills, explain cost-sharing obligations, highlight in-network providers, and allow comparison shopping based on coverage details. Such initiatives could reduce confusion that frequently plagues under-resourced communities and deter healthcare utilization due to perceived inaccessibility. With improved comprehension of existing options, advocacy capacity strengthens.

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2.4. Technological Advancements

One approach is leveraging mobile clinics to bring integrated care directly to remote, sparsely populated regions lacking sufficient healthcare infrastructure. Equipped with examination rooms' telehealth capabilities and staffed by a nurse practitioner and medical assistant, these self-contained clinics visit rural communities on set schedules. Services include preventive screenings, primary care, dental/vision exams, prescription dispensing, and referrals to urban facilities for additional needs. Pairing the physical mobile units with telemedicine platforms allows connectivity to specialists for consults, limiting travel burdens. Grant funding supports maintaining and ruefully staffing the rolling clinics, improving convenience and access for isolated residents.

Technology can also drive more proactive, equity-focused care through predictive analytics. It helps aggregate patient data, including demographic profiles, medical histories, lifestyle habits, and socioeconomic metrics, into centralized databases while maintaining strict privacy protections. Screening this pooled data with advanced AI algorithms can identify at-risk populations for targeted intervention efforts. For example, those displaying early warning signs for chronic diseases or mental health issues receive automatic reminders scheduling preventive visits, stressing lifestyle changes, or connecting them to virtual coaching/support groups timely. Remote patient monitoring sensors also detect worsening vital signs, warranting swift follow-up. If widely implemented, such data-driven approaches better equip safety net providers to head off major health issues before requiring expensive emergency treatment.

Empowering patients through technology can help address disparities. Developing digital health tools, mobile apps, telehealth portals, and wearable devices allows underserved individuals to remotely monitor chronic conditions, attend virtual medical visits, refill prescriptions, and message

providers to avoid transportation barriers. Customized dashboards display test results, appointment reminders, care plan details, and wellness goals. Connected devices measure vital signs and symptoms, automatically flagging abnormalities to clinicians for timely intervention. Partnering major tech companies with safety net providers deploys these resources at affordable or cost-free prices into disadvantaged communities. Making self-care easier through digital conveniences can significantly improve engagement with preventive healthcare in the home setting.

The lack of consistent, affordable internet availability in many rural and low-income is a significant hurdle limiting technology's role in healthcare equity regions. Coordinated initiatives involving federal and municipal broadband programs aim to close this gap. Leveraging existing infrastructure like wireless towers and cable lines more comprehensively builds connectivity infrastructure to underserved areas. Public-private ventures incentivize internet service providers to offer low-cost subscription packages. These buildouts enable telehealth delivery, remote patient monitoring, health education access, and online insurance/benefits navigation for vulnerable populations otherwise facing a persistent digital divide. With broadband expansion, technology-enabled solutions can achieve greater reach and impact.

2.5. Workforce Diversity

Ensuring diversity among healthcare providers is vital to addressing inequities, as cultural understanding and representation help foster trustful patient-provider relationships. However, barriers currently discourage many talented individuals from underrepresented groups from entering and remaining in health professions. Focused efforts are needed to recruit from minority communities and disadvantaged backgrounds who may be swayed towards other fields due to monetary or social hurdles.

For example, organizations like the Health Resources and Services Administration offer scholarships fully funding medical, dental, and nursing education in exchange for service in underserved communities. This attracts debt-wary students to primary care practice, where shortages are most severe. Pipeline programs partnering academic institutions with high schools in low-income neighborhoods introduce career avenues and role models early on. Organizations like the American Medical Association's Advancing Careers in Health program provide mentorship and exam preparation support.

Community health centers can offer promising trainees' employment-based tuition reimbursement and guaranteed jobs post-graduation. Partnerships with community colleges enable career ladder progression from medical assistant roles into nursing or physician associate programs. Growing the representation of minorities, rural-raised providers, and bilingual staff within these healthcare hubs helps establish trusted faces. It addresses barriers stemming from a lack of cultural competency or bias. While a long-term pursuit, dedicated workforce diversity initiatives hold the potential to correct current inequities.

2.6.Social Determinants of Health

Social determinants of health, such as where people live, work, and play, profoundly influence individuals' health, extending far beyond access to medical care alone. After recognizing the root causes of health inequities, multi-sector initiatives are imperative to reduce risks and promote well-being in disadvantaged communities. Healthcare organizations and public health agencies must actively partner with social services, urban planners, housing departments, transportation authorities, and community-based organizations to develop targeted programs addressing key determinants through coordinated interventions.

For example, a collaboration between health clinics and food banks can establish mobile produce trucks in "food deserts" to increase the affordability and availability of healthy options. Partnering with public housing agencies and homeless shelters provides opportunities for on-site health education and screenings while helping connect residents to benefits navigators to reduce housing insecurity. Advocating for improved community design features like sidewalks, crosswalks, and bike lanes through joint efforts with transportation departments can foster more physical activity and outdoor recreational areas. By taking a vested, holistic "health in all policies" approach, stakeholders work to mediate social barriers confronting vulnerable populations and foster sustainable changes to environmental conditions influencing public health.

2.7.Community Health Infrastructure

Reliable community health infrastructure is vital for expanding access to care, particularly in under-resourced areas. Federally Qualified Health Centers (FQHCs) and rural health clinics act as essential primary care homes for vulnerable populations, providing medical, oral, behavioral, and preventive services on a sliding scale. Ensuring these safety-net sites have sustainable funding models through ongoing grant programs and Medicaid reimbursements is critical to maintaining staffing and facilities in the long term for the communities reliant on their services.

Mobile medical units help broaden the geographic reach into remote areas by bringing primary care via scheduled routes. Telehealth capabilities within FQHCs and via community health workers deployed to patients' homes allow on-demand virtual consultations with providers when physical visits are difficult. Close partnerships with local social services help these facilities identify high-risk patients and deploy wraparound case management, allowing more comprehensive coordination of non-clinical needs that impact health outcomes. Strengthening this multi-pronged community health infrastructure maximizes access.

3. Conclusion

Achieving equitable access to comprehensive, high-quality healthcare in the United States remains a significant challenge that will require commitment and cooperation across many sectors of society. Each solution will only suffice on its own. Stakeholders can make essential strides by

pursuing wide-ranging policies that promote universal coverage, controlling costs through regulatory reforms, diversifying the healthcare workforce, and empowering underserved communities with health information and services.

With collaboration between industry, government agencies, safety net providers, community organizations, engaged citizens, and culturally sensitive, geographic barriers can gradually be broken down. If implemented thoughtfully and holistically over time, the mix of policy, consumer, innovation, and technological approaches outlined here promise to build a more just system that leaves no one behind due to circumstances.

References

1. Bhatt, J., & Bathija, P. (2019). Ensuring access to quality health care in vulnerable communities. *Academic Medicine*, 93(9), 1271–1275. <https://doi.org/10.1097/acm.0000000000002254>
2. Drake, P., Tolbert, J., Mar 31, A. D. P., & 2023. (2023, March 31). How Many Uninsured Are in the Coverage Gap and How Many Could be Eligible if All States Adopted the Medicaid Expansion? KFF. <https://www.kff.org/medicaid/issue-brief/how-many-uninsured-are-in-the-coverage-gap-and-how-many-could-be-eligible-if-all-states-adopted-the-medicaid-expansion/>
3. Dunne, E. M., Burrell, L. E., Diggins, A. D., Whitehead, N. E., & Latimer, W. W. (2015). Increased risk for substance use and health-related problems among homeless veterans. *The American Journal on Addictions*, 24(7), 676–680. <https://doi.org/10.1111/ajad.12289>
4. Evans, M. V., Andréambeloson, T., Randriamihaja, M., Ihantamalala, F., Cordier, L., Cowley, G., Finnegan, K., Hanitriniaina, F., Miller, A. C., Ralantomalala, L. M., Randriamahaso, A., Razafinjato, B., Razanahanitriniaina, E., Rakotonanahary, R. J. L., Andriamiandra, I. J., Bonds, M. H., & Garchitorena, A. (2022). Geographic barriers to care persist at the community healthcare level: Evidence from rural Madagascar. *PLOS Global Public Health*, 2(12), e0001028. <https://doi.org/10.1371/journal.pgph.0001028>
5. Riley, W. (2012). Health Disparities: Gaps in Access, Quality and Affordability of Medical Care. *Transactions of the American Clinical and Climatological Association*, 123(123), 167–174. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3540621/>