

Social work, analytics, and public health in autism: A conceptual approach to enhancing community health outcomes in U.S. underserved areas

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International Journal of Frontiers in Science and Technology Research, 2024, 07(02), 100–108

Publication history: Received on 27 October 2024; revised on 01 December 2024; accepted on 05 December 2024

Article DOI: <https://doi.org/10.53294/ijfstr.2024.7.2.0062>

Abstract

Autism Spectrum Disorder (ASD) presents unique challenges for individuals, families, and communities, particularly in underserved areas of the United States where disparities in access to services are pronounced. This paper explores the integration of social work, analytics, and public health as a conceptual framework to enhance community health outcomes for individuals with ASD. Social work offers critical advocacy, resource navigation, and family support, while analytics provides data-driven insights for identifying service gaps and optimizing interventions. Public health contributes community-level strategies, policy development, and preventive measures. The paper proposes collaborative strategies to address systemic inequities by synthesizing these disciplines, including targeted data utilization, technology integration, and culturally sensitive approaches. Policy recommendations, resource allocation priorities, and training initiatives are discussed, alongside future directions for research and practice. This multidisciplinary approach aims to create equitable and sustainable solutions, reducing health disparities and improving outcomes for individuals with ASD in underserved communities.

Keywords: Autism Spectrum Disorder (ASD); Social Work; Data Analytics; Public Health; Health Equity

1. Introduction

Autism Spectrum Disorder (ASD) is a neurodevelopmental condition characterized by challenges in social communication, repetitive behaviors, and restricted interests. The prevalence of ASD in the United States has increased significantly over the past two decades, with the Centers for Disease Control and Prevention (CDC) estimating that 1 in 36 children is diagnosed with ASD (Hirota & King, 2023). While the exact causes of ASD remain unclear, a combination of genetic and environmental factors is thought to contribute to its development (Bhat, 2021). Early intervention and access to appropriate services are critical for improving outcomes for individuals with ASD, emphasizing the importance of timely diagnosis and continuous support.

Despite advancements in the identification and treatment of ASD, significant disparities exist in access to diagnostic and therapeutic services, particularly in underserved areas. Underserved communities, including rural areas and low-income urban neighborhoods, often face shortages of specialized professionals such as developmental pediatricians, speech therapists, and behavioral analysts (Bertelli et al., 2022). Additionally, systemic barriers such as inadequate health insurance coverage, transportation challenges, and a lack of culturally tailored resources exacerbate the gap in service provision. Minority populations are particularly affected, with African American and Hispanic children frequently experiencing delayed diagnoses or misdiagnoses compared to their white counterparts. These disparities hinder individual development and place additional strain on families and the broader healthcare system (Butkus et al., 2020).

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Addressing the challenges faced by underserved communities requires a multifaceted approach that combines the expertise of social work, analytics, and public health. Social workers play a vital role in advocating for individuals and families affected by ASD, connecting them to resources, and navigating systemic barriers (York, 2025). Meanwhile, analytics provides data-driven insights that can identify gaps in service delivery, predict future needs, and measure the effectiveness of interventions. Public health, with its emphasis on community-level strategies, offers a framework for developing policies and programs that address systemic inequities and promote health equity. By integrating these three fields, it is possible to create a more comprehensive and effective response to the challenges faced by individuals with ASD and their families, particularly in underserved areas (Adelodun & Anyanwu; Soyombo, Kupa, Ijomah, & Stephen, 2024).

This paper aims to explore the intersection of social work, analytics, and public health as a conceptual framework for enhancing health outcomes for individuals with ASD in underserved areas of the United States. Specifically, it seeks to:

- Highlight the current challenges in accessing autism-related services in underserved communities.
- Present a conceptual framework that integrates social work, analytics, and public health.
- Discuss how this interdisciplinary approach can address systemic barriers and improve outcomes for individuals and communities.
- Propose strategies for implementing this framework in an equitable, sustainable, and responsive way to community needs.

By addressing these objectives, the paper contributes to the broader discussion on reducing health disparities and improving the quality of life for individuals with ASD in underserved areas.

2. Conceptual Framework

2.1 Theoretical Basis for Integrating Social Work, Analytics, and Public Health

The integration of social work, analytics, and public health is grounded in the understanding that a complex interplay of individual, social, and systemic factors influences health outcomes (McGill et al., 2021). Social work, with its focus on addressing social determinants of health, is essential for advocating for marginalized populations, including those with Autism Spectrum Disorder (ASD). Analytics, particularly data science and predictive modeling, enables the identification of trends, service gaps, and the evaluation of intervention effectiveness. Public health contributes a population-level perspective, emphasizing the importance of preventive measures, policy advocacy, and community health promotion (Bishop-Fitzpatrick, Dababnah, Baker-Ericzén, Smith, & Magaña, 2019).

The intersection of these fields reflects a commitment to addressing both individual and systemic challenges. Social work provides the human-centric approach necessary for individualized support, while analytics offers the tools for data-driven decision-making. Public health ensures that interventions are scalable, equitable, and impactful at a community or population level. This multidisciplinary integration allows for a more holistic approach to improving health outcomes, particularly in underserved areas where scarce resources and disparities are pronounced (Lopez, Marroquin, & Gutierrez, 2020).

2.2 Relevant Frameworks

To understand the conceptual basis for this integration, it is important to explore key theoretical frameworks that underpin the approach. Ecological systems theory, developed by Urie Bronfenbrenner, provides a foundational perspective for understanding the interaction between individuals and their environments (Bronfenbrenner, 2019). This theory posits that human development is influenced by various layers of systems, including the immediate family (microsystem), broader community structures (mesosystem), and societal policies and cultural norms (macrosystem). For individuals with ASD, ecological systems theory highlights the importance of addressing factors across these levels, from family dynamics to systemic healthcare barriers. Social workers often employ this theory to design interventions that account for these interconnected systems (Shattuck et al., 2020).

Health equity frameworks, such as the World Health Organization's (WHO) Social Determinants of Health model, focus on addressing the root causes of health disparities. These models emphasize the impact of socioeconomic status, education, housing, and access to healthcare on health outcomes. In the context of ASD, health equity models underscore the importance of removing barriers to services, particularly in underserved communities. Public health practitioners utilize these frameworks to design community-based interventions and policies that reduce disparities and promote equitable access to care (Peterson, Charles, Yeung, & Coyle, 2021).

Systems thinking is another critical framework that emphasizes the interconnectedness of various components within a system. This approach is particularly relevant in integrating social work, analytics, and public health because it considers how interventions in one area (e.g., policy changes) can influence outcomes in another (e.g., access to individual services). Analytics plays a central role in systems thinking by providing the data needed to map relationships and identify leverage points for intervention (Liburd et al., 2020).

2.3 Justification for a Multidisciplinary Approach in Underserved Communities

Underserved communities often face unique challenges that require a collaborative and multidisciplinary approach to address. These challenges include limited access to healthcare providers, inadequate transportation infrastructure, and systemic inequities that disproportionately affect minority populations. The integration of social work, analytics, and public health provides a comprehensive strategy for tackling these barriers (Mongelli, Georgakopoulos, & Pato, 2020).

Social workers are uniquely positioned to address the immediate needs of individuals and families affected by ASD. They help navigate healthcare systems, secure funding for therapies, and advocate for policy changes that improve service accessibility. In underserved areas, social workers often bridge families and the resources they need, making their role indispensable in a multidisciplinary framework (O'Loughlin, Donovan, Radcliff, Ryan, & Rybarczyk, 2019).

Analytics enables the identification of service gaps and inequities by analyzing data on healthcare access, service utilization, and health outcomes. For example, predictive modeling can help identify communities at high risk of delayed ASD diagnoses or underutilization of services. This information can guide resource allocation and ensure that interventions are targeted where they are most needed. Analytics also facilitates the evaluation of intervention effectiveness, allowing stakeholders to refine strategies and maximize impact (Sciences, Division, & Health, 2019).

Public health focuses on preventive measures and promoting health equity at a population level. By addressing systemic factors such as policy gaps and community-level resource allocation, public health interventions can create an environment where individuals with ASD and their families can thrive. In underserved communities, public health initiatives can reduce barriers to care through programs such as mobile clinics, telehealth services, and community outreach campaigns (Liburd et al., 2020).

A multidisciplinary approach ensures that interventions are not only comprehensive but also sustainable. Social work addresses immediate needs and empowers families, analytics provides the data to guide decision-making, and public health ensures that solutions are scalable and equitable. In underserved communities, where resources are limited, this collaboration maximizes the impact of interventions and addresses the systemic nature of health disparities (Katapally & Ibrahim, 2023).

3. Role of Social Work, Analytics, and Public Health

3.1 Social Work

Social work plays a critical role in supporting individuals with Autism Spectrum Disorder (ASD) and their families, particularly in underserved communities. Social workers advocate for individuals by ensuring they receive appropriate services and accommodations in educational, healthcare, and community settings. This advocacy extends to influencing policies that promote inclusivity and equitable access to resources (Bishop-Fitzpatrick et al., 2019).

A central aspect of social work in the context of ASD is family support. Many families of children with ASD face significant stress due to financial burdens, lack of access to specialized care, and the daily challenges of caregiving. Social workers provide emotional support, counseling, and practical assistance navigating complex systems such as healthcare, special education, and government programs. They act as intermediaries, helping families understand their rights, access financial aid, and secure essential services such as speech therapy, behavioral interventions, and occupational therapy (Iadarola, Pérez-Ramos, Smith, & Dozier, 2019).

In underserved areas, social workers are often the first point of contact for families seeking help. They work to bridge the gap between individuals and available resources, addressing barriers such as transportation, language differences, and stigma. For example, a social worker might connect a non-English-speaking family to a bilingual service provider or arrange for transportation to therapy appointments. Through such efforts, social workers ensure that individuals with ASD and their families receive the support they need to thrive (Adelodun & Anyanwu, 2024c; Majebi, Adelodun, & Anyanwu, 2024).

3.2 Analytics

Analytics serves as a powerful tool for addressing the systemic challenges faced by individuals with ASD in underserved communities. Data analytics enables stakeholders to identify service gaps, predict future needs, and measure the impact of interventions. Researchers and policymakers can pinpoint disparities and design targeted solutions by analyzing data on diagnosis rates, service utilization, and health outcomes.

For example, geographic information systems (GIS) can map the availability of ASD services across different regions, highlighting areas with limited access to specialized care. Predictive modeling can identify populations at higher risk of delayed diagnosis, allowing for early intervention initiatives. Additionally, analytics can uncover trends in the effectiveness of various therapies, helping stakeholders allocate resources to interventions with the highest impact.

In the context of public health and social work, data-driven insights inform decision-making and policy development. For instance, analytics can reveal the social determinants contributing to health disparities, such as socioeconomic status, education levels, and racial or ethnic inequities. These insights allow for the design of evidence-based programs that address the root causes of disparities, ensuring that resources are allocated equitably.

Another key application of analytics is in program evaluation. By continuously monitoring the outcomes of interventions, stakeholders can assess their effectiveness and make data-informed adjustments. This iterative process ensures that programs remain responsive to community needs and achieve sustainable impact (Wu et al., 2020).

3.3 Public Health

Public health plays a crucial role in addressing the systemic factors that affect individuals with ASD and their families. Unlike social work, which often focuses on individual or family-level interventions, public health adopts a population-level perspective. This approach involves designing strategies to prevent health disparities, promote inclusivity, and build supportive communities. One key aspect of public health's role is policy development. Public health professionals advocate for policies that improve access to ASD-related services, such as increased funding for early intervention programs, mandatory insurance coverage for autism therapies, and the establishment of community-based support centers. These policies address systemic barriers and create a more equitable environment for individuals with ASD (Stahmer, Dababnah, & Rieth, 2019).

Community outreach is another essential component of public health. Initiatives such as public awareness campaigns, caregiver education programs, and culturally tailored interventions help reduce stigma and encourage families to seek timely support. For example, mobile health units and telehealth services can extend the reach of ASD-related care to rural and underserved areas, addressing geographical barriers to access.

Preventive measures are also central to public health's approach. Early screening and diagnosis programs, community-based developmental monitoring, and initiatives to train primary care providers in recognizing early signs of ASD are examples of preventive strategies. These measures not only improve outcomes for individuals with ASD but also reduce the long-term societal costs associated with delayed diagnosis and inadequate care (Haque et al., 2020).

3.4 Synergy Between These Disciplines for Addressing Systemic Challenges

While social work, analytics, and public health each play distinct roles, their integration creates a synergistic approach to addressing the complex challenges faced by individuals with ASD in underserved communities. This synergy stems from the complementary strengths of each discipline: social work's human-centered advocacy, analytics' data-driven precision, and public health's systemic perspective. For instance, social workers can use data provided by analytics to advocate more effectively for their clients, ensuring that interventions are tailored to specific needs. Similarly, public health programs informed by social work insights can address community-level disparities while focusing on individual experiences. Analytics serves as the connective tissue, providing the data needed to align efforts across disciplines and measure the collective impact of interventions (Adelodun & Anyanwu, 2024b; Soyombo, 2024b).

An example of this synergy can be seen in a community-based initiative to improve ASD diagnosis rates in underserved areas. Public health professionals might design an outreach campaign to raise awareness about the importance of early screening. Social workers could then help families navigate the diagnostic process, while analytics can identify neighborhoods with the greatest need for resources. These disciplines create a coordinated and effective response to a systemic challenge by working together (Siller, Morgan, Wedderburn, Fuhrmeister, & Rudrabhatla, 2021).

This multidisciplinary approach is particularly crucial in underserved areas, where limited resources and disparities are most pronounced. By leveraging the strengths of social work, analytics, and public health, it is possible to create a more equitable and sustainable system of care for individuals with ASD and their families. This integrated framework not only addresses immediate needs but also promotes long-term systemic change, ensuring that all individuals have the opportunity to thrive (Sanders & Scanlon, 2021).

4. Proposed Strategies for Enhancing Community Health Outcomes

4.1 Strategies for Collaboration Between Social Work, Analytics, and Public Health Professionals

Collaboration between social work, analytics, and public health professionals is essential to enhance community health outcomes, particularly for individuals with Autism Spectrum Disorder (ASD) in underserved areas. This collaboration requires structured communication channels, shared goals, and interdisciplinary training to ensure that each discipline understands and complements the others' contributions.

One effective strategy is the establishment of multidisciplinary teams that include social workers, data analysts, and public health professionals. These teams can work together to identify the specific needs of communities, design interventions, and evaluate their effectiveness. For instance, a social worker might identify families struggling to access ASD services, while a data analyst uses predictive models to determine the areas with the highest unmet needs. Public health professionals can then use this information to design community-wide programs and advocate for systemic policy changes (Adelodun & Anyanwu, 2024a; Soyombo, 2024a).

Another collaborative strategy is creating cross-sector partnerships involving healthcare providers, schools, local governments, and community organizations. These partnerships can facilitate resource sharing and ensure that interventions address the social, economic, and systemic barriers faced by individuals with ASD. For example, collaborating between public schools and health departments could provide on-site diagnostic screenings, while social workers help families navigate follow-up services.

4.2 Utilization of Data to Inform Targeted Interventions in Underserved Areas

Data plays a pivotal role in designing interventions tailored to underserved communities' unique challenges. By analyzing datasets on healthcare access, social determinants of health, and ASD prevalence, professionals can identify service gaps and allocate resources more effectively.

One approach is to use geographic information systems (GIS) to map areas with limited access to ASD-related services. These maps can highlight "service deserts" where diagnostic facilities, therapy providers, or community programs are lacking. Once identified, stakeholders can prioritize these areas for resource allocation or mobile service deployment.

Predictive analytics is another powerful tool. By examining factors such as socioeconomic status, racial and ethnic demographics, and health insurance coverage, analysts can identify populations at high risk for delayed diagnosis or inadequate care. This allows stakeholders to address barriers and target the most needed interventions proactively. For example, a health department might use predictive models to identify neighborhoods with high numbers of undiagnosed children and launch an early screening campaign in those areas.

Data also enables continuous evaluation of intervention outcomes. By tracking metrics such as service utilization rates, caregiver satisfaction, and developmental progress in children with ASD, stakeholders can assess the impact of their efforts and make data-driven adjustments. This iterative process ensures that programs remain responsive to community needs and maximize their effectiveness.

4.3 Examples of Technology and Tools That Can Aid Implementation

Technology plays a critical role in enhancing community health outcomes for individuals with ASD, particularly in underserved areas. Several tools and platforms can support integrating social work, analytics, and public health efforts. Telehealth has emerged as a vital tool for expanding access to ASD-related services in rural and underserved areas. Through video conferencing platforms, families can connect with therapists, behavioral analysts, and social workers without the need for travel. Telehealth also facilitates remote diagnostic evaluations and caregiver training, ensuring that families receive timely support.

Integrated data management systems allow professionals from different disciplines to share and analyze information efficiently. For example, a shared electronic health record (EHR) system can enable social workers, healthcare

providers, and public health officials to access relevant data on a child's diagnosis, treatment history, and social determinants of health. This streamlined communication reduces duplication of efforts and ensures coordinated care.

Mobile apps designed for ASD management can empower families while supporting professionals. These apps might include developmental tracking tools, therapy exercises, and resources for finding local services. Public health organizations can use mobile platforms to disseminate information about community programs, while social workers can guide families in using these tools effectively. Artificial intelligence (AI) and machine learning algorithms can analyze large datasets to identify patterns and predict outcomes. For instance, AI might detect correlations between social determinants of health and delayed ASD diagnoses, guiding targeted interventions. Machine learning can also optimize resource allocation by predicting which programs will impact specific communities most (Kelvin-Agwu, Adelodun, Igwama, & Anyanwu, 2024; Majebi, Adelodun, & Chinyere).

4.4 Importance of Culturally Sensitive Approaches and Community Engagement

Culturally sensitive approaches and community engagement are essential for ensuring effective and equitable interventions. Underserved communities often have unique cultural, linguistic, and socioeconomic characteristics that must be considered in the design and implementation of programs. One strategy is to involve community members in the planning and decision-making process. By engaging caregivers, educators, and local leaders, professionals can gain valuable insights into the specific needs and preferences of the community. This participatory approach fosters trust and ensures that interventions are culturally relevant. For example, a public health campaign in a predominantly Hispanic neighborhood might include materials in Spanish and feature culturally familiar imagery and messaging (Harrison et al., 2019).

Another important aspect of cultural sensitivity is training for professionals. Social workers, public health officials, and analysts must be educated on the cultural and systemic factors influencing health behaviors and access to services. This training can help them build rapport with families, address language barriers, and avoid cultural biases in their work (Joo & Liu, 2021).

Community engagement also involves leveraging existing networks and resources. Faith-based organizations, local nonprofits, and community centers often serve as trusted sources of support in underserved areas. Collaborating with these entities can amplify the reach and impact of interventions. For instance, a church-based program might host free ASD screenings, while a nonprofit provides follow-up support for diagnosed families (Green, Bergen, Stewart, & Nayve, 2021).

5. Conclusion

The integration of social work, analytics, and public health offers a promising framework for addressing the challenges faced by individuals with autism spectrum disorder, particularly in underserved areas. Social work is pivotal in advocating for families, connecting them to resources, and addressing systemic barriers to care. Analytics provides the tools necessary to identify service gaps, predict future needs, and evaluate intervention outcomes, ensuring that solutions are data-driven and targeted. Public health contributes a population-level perspective, emphasizing preventive strategies, community engagement, and policy advocacy to create systemic change.

Together, these disciplines can tackle disparities in access to ASD services, such as those caused by geographic isolation, socioeconomic barriers, and systemic inequities. Collaborative strategies, data-informed interventions, technological innovations, and culturally sensitive approaches were highlighted as essential components of an effective response. The proposed framework addresses immediate needs and seeks to promote long-term health equity and improve community health outcomes.

Recommendations

Addressing the systemic challenges associated with ASD care requires robust policy reforms. Policies mandating universal screening for ASD during pediatric checkups can help reduce disparities in early diagnosis. Expanding insurance coverage for ASD-related services, including behavioral therapies and family counseling, is crucial for alleviating the financial burden on families in underserved areas. Additionally, policies that incentivize the placement of healthcare professionals in rural and low-income communities, such as through loan repayment programs, can mitigate the shortage of specialized providers.

Public health policies should also foster community-based initiatives that provide affordable and accessible services. These initiatives could include mobile clinics, telehealth programs, and community health centers equipped to address ASD-specific needs. Establishing partnerships between local governments, schools, and non-profit organizations can ensure that policies are effectively implemented and sustained. Equitable resource allocation is essential for addressing disparities in ASD care. Governments and healthcare systems should prioritize underserved areas when funding autism programs and services. Investments in infrastructure, such as transportation systems and telehealth platforms, can improve access to care for families in remote locations.

Additional funding should be directed toward community-based organizations that provide culturally tailored services. For example, hiring bilingual staff and developing resources in multiple languages can reduce linguistic barriers and improve engagement with diverse populations. Supporting the development of evidence-based programs that address the unique challenges of specific communities can further enhance the reach and effectiveness of interventions.

Comprehensive training programs for professionals in social work, analytics, and public health are critical for ensuring the success of multidisciplinary efforts. Social workers should receive data analysis and public health principles training to better understand systemic issues and advocate effectively for policy changes. Public health professionals should be educated on the social determinants of health that affect individuals with ASD, enabling them to design more targeted interventions. Additionally, training programs should emphasize cultural competence to ensure that professionals are equipped to work with diverse populations. This includes understanding cultural attitudes toward disability, addressing implicit biases, and developing strategies to build trust with marginalized communities.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

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