Senegal’s Community-based Health System Model: Structure, Strategies, and Learning

Health Situation in Senegal

Since the 1990s, Senegal has made notable progress in key health indicators. Between 1990 and 2017, maternal mortality dropped from 540 to 236 deaths per 100,000 live births, and the percentage of fully vaccinated children steadily increased from 58.7 percent to 75 percent in approximately the same period.\(^1\) In just the past decade, child mortality more than halved from 121 to 56 deaths per live births, with a reduction in disparity between urban and rural households (Figure 1).\(^3\)^4

The country also made great strides in expanding access to modern family planning methods. Between 2005 and 2017, the percentage of married women using modern contraceptives more than doubled from 10.3 to 26.3 percent, and more than tripled among rural women from 5.0 to 18.9 percent (Figure 2). Unmet need for family planning declined from 30.1 to 21.9 percent.\(^3\)^4 As a result, the total fertility rate has started to fall after years of stagnation; between 2014 and 2017, it declined from 5.0 to 4.6.\(^5\)^6 Table 1 indicates key health data in Senegal.

Senegal’s investments to target health education and services to underserved areas contributed to these improvements. The country prioritized community health and promoted coordination among health and development partners. It also invested in strategies to pilot and scale up key community-based interventions, strengthen supply chains, and engage community members to promote healthy practices, strengthen service delivery, and advocate for their own health. However, to reach targets such as the Sustainable Development Goals, Family Planning 2020 commitments, and other health and development goals, Senegal needs to continue to adapt and scale up its community health model and implement successful strategies in other countries.

Table 1. Current Health Statistics in Senegal

<table>
<thead>
<tr>
<th>Health Indicator</th>
<th>2017 Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total population</td>
<td>16.3 m</td>
</tr>
<tr>
<td>Rural population</td>
<td>54%</td>
</tr>
<tr>
<td>Total fertility rate</td>
<td>4.6</td>
</tr>
<tr>
<td>Contraceptive prevalence rate (modern methods)</td>
<td>26.3%</td>
</tr>
<tr>
<td>Unmet need for contraception</td>
<td>21.9%</td>
</tr>
<tr>
<td>Maternal mortality ratio (per 100,000 live births)</td>
<td>236</td>
</tr>
<tr>
<td>Neonatal mortality rate (per 1,000 live births)</td>
<td>28</td>
</tr>
<tr>
<td>Infant mortality rate (per 1,000 live births)</td>
<td>42</td>
</tr>
<tr>
<td>Under-five mortality rate (per 1,000 live births)</td>
<td>56</td>
</tr>
<tr>
<td>Percentage of births delivered by a skilled provider</td>
<td>68.4%</td>
</tr>
<tr>
<td>Percentage of children under 5 years moderately or severely stunted</td>
<td>16.5%</td>
</tr>
<tr>
<td>Percentage of households with an improved source of drinking water</td>
<td>81.0%</td>
</tr>
<tr>
<td>Percentage of women reporting distance to a health facility as a problem in accessing care</td>
<td>22.1%</td>
</tr>
<tr>
<td>Adult HIV prevalence</td>
<td>0.4%</td>
</tr>
<tr>
<td>Total expenditure on health per capita (current US$)</td>
<td>$36</td>
</tr>
</tbody>
</table>

\(^1\) Data is from the Senegal Demographic and Health Survey, 2017 (continuous), unless otherwise noted.


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and universal health coverage (UHC), Senegal must continue to adapt and build upon its approaches to advance the health of its population.

**Senegal’s Health System Structure: Expanding Access to Underserved Communities**

Senegal’s large rural population, poor infrastructure, arid climate, and long distances between communities and health facilities have historically impeded people’s ability to access services. In the mid-1990s, the government decentralized the health system so that district and community authorities could plan and roll out context-specific approaches to improve service delivery. Today, each of the country’s 76 health districts has at least one health center and several health posts, and a network of community-based health huts and outreach sites to extend services to communities that otherwise would not have access to them. Community health providers offer health information, education, and services from the health huts and outreach sites.

The Ministry of Health and Social Action (MSAS) sets the community health agenda, provides programmatic oversight, and develops strategic and policy guidance. In 2009, MSAS launched the National Health Development Plan as a framework to achieve UHC, which emphasizes scaling up key health interventions in partnership with communities. In 2014, Senegal produced its first national community health strategy to strengthen subnational decision-making; foster community ownership to address health inequity; harmonize programs and service packages; improve community health provider motivation; strengthen governance and supply systems; and move toward sustainable health systems.

Several large-scale programs supported by the United States Agency for International Development (USAID) and other development partners in the past decade have also contributed to Senegal’s progress. Table 2 summarizes the achievements of three recent programs.

### Table 2. Selected Achievements of Large-scale USAID-funded Community Health Programs in Senegal, 2006–2021

<table>
<thead>
<tr>
<th>YEARS</th>
<th>PROJECT NAME</th>
<th>ACHIEVEMENTS</th>
</tr>
</thead>
</table>
| 2006–2011 | Community Health Program (CHP) I                  | • Scaled community-based reproductive, maternal, newborn, and child health (RMNCH) services from 5 to 13 of the country’s 14 regions.  
• Constructed 933 new health huts, for a total of 1,620 operational health huts and 903 outreach sites.  
• Trained more than 11,000 community health providers to deliver a primary health care service package. |
| 2011–2016 | CHP II                                            | • Expanded the health service package and piloted new community-based interventions (e.g., injectable contraceptives and misoprostol).  
• Extended the health hut system to more than 2,000 health huts and 3,000 outreach sites.  
• Reached at least 1.6 million people with health information, education, and communication activities. |
| 2016–2021 | Integrated Service Delivery and Health Behaviors project | • Works in 7 districts to expand coverage and strengthen quality of a package of high-impact RMNCH services.  
• Supports national and local health system strengthening and capacity building to promote sustainability.  
• Strengthens and harmonizes strategies to improve health behavior change, community engagement, and use of data for decision-making.  
• Expands family planning and malaria interventions nationwide. |
Figure 3 on page 4 provides an overview of Senegal’s health system structure and illustrates the type of services available at each level, using family planning as an example.

**Community Health Providers: Policy to Service Delivery**

Senegal’s five main community health provider cadres provide specific interventions as part of an integrated package of health services: agents de santé communautaires (ASCs); matrones; bajenu gox; home-based care providers (DSDOMs); and relais communautaires (relais). Table 3 outlines their scopes of practice and other components of Senegal’s community health system.

<table>
<thead>
<tr>
<th>Table 3. Senegal’s Community Health Providers</th>
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<tbody>
<tr>
<td><strong>Supportive policy</strong></td>
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<tr>
<td></td>
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<tr>
<td></td>
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<tr>
<td><strong>Scope of practice</strong></td>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Supervision and management</strong></td>
</tr>
<tr>
<td><strong>Commodities and materials</strong></td>
</tr>
<tr>
<td><strong>Training</strong></td>
</tr>
<tr>
<td><strong>Renumeration</strong>*</td>
</tr>
<tr>
<td><strong>Referrals</strong></td>
</tr>
<tr>
<td><strong>Health promotion</strong></td>
</tr>
<tr>
<td><strong>Monitoring and reporting</strong></td>
</tr>
</tbody>
</table>

*Remuneration, such as cash and performance-based payments, is not used to incentivize family planning care.

**Key Strategies for Strengthening and Scaling Up Community Health in Senegal**

1. **Revitalizing a network of community-based health huts under a unified yet flexible strategy**

People in rural Senegal have accessed health services from health huts since the 1950s, but for years, there was no concerted, harmonized approach for the government and partners to support health hut operations. In 2006, USAID launched the Community Health Program (CHP), which revitalized, expanded, and coordinated the health hut system to extend coverage of a package of basic health services and improve primary health care. The MSAS provided oversight to the CHP, and a consortium of NGOs led by ChildFund International implemented the program in nearly all regions of the country.
Under the health hut system, one ASC and one matrone provide basic services from each hut, and other community health providers, such as relais, conduct outreach. The head nurse from a neighboring health post supervises and receives referrals from the providers. The CHP NGOs also recruit and train community development agents to supervise community health providers, monitor activities, and facilitate reporting. Ideally, community members themselves help construct and manage the huts.

Although unified by an overarching approach, each CHP NGO developed unique strategies to support health huts in their respective areas to meet local needs. For example, CHP NGOs designed different ways to engage communities in health hut management. This flexibility allowed the program to reduce costs and improve effectiveness by using resources and networks in their respective catchment areas. To internally align their work, the NGOs held quarterly meetings to compare indicators, discuss problems, provide updates, and showcase their approaches during field visits. They also held regular consultations and joint supervision visits with the MSAS.

Between 2006 and 2011, the CHP transformed health huts from under-resourced, understaffed, and sometimes completely nonfunctional structures to a network of 1,620 facilities in 13 regions that provided integrated, community-based services. The partnership supported scale-up, coordination, and standardization in data systems, as well as training, staffing, and reporting across regions. In 2011, most huts offered a full service package, which led to improvements in utilization of services. Health post staff reported a 20–30 percent reduction in caseload due to task shifting certain services (e.g., provision of oral contraceptive pills and treatment of simple cases of diarrhea and respiratory infections) to community health providers.

These successes prompted the second iteration of the CHP, implemented between 2012 and 2016, which expanded the health service package and increased the number of health huts and outreach sites. Today, as many as 2,162 health huts and 3,183 outreach sites operate across the country, connecting 70 percent of Senegal’s nine million people with the formal health system.
However, the question of how to sustain the health hut system has plagued the MSAS and partners since the beginning of the first CHP. Health huts remain dependent on partners, and though communities help sustain facilities (e.g., by constructing new huts, subsidizing drugs, and collecting financial payments for providers), they have been most successful where NGO backstopping is strong. Additional barriers include insufficient community awareness, frequent stockouts, inconsistent service quality, and low provider motivation, lack of recognition, and limited opportunities for professional growth.

Nevertheless, the health hut network created the foundation of a functional community health system. In 2014, Senegal recognized health huts as part of the formal health system and committed to further investments as part of its first national community health strategy. The country will need to identify financing models to help sustain and build upon these achievements.

2. Generating and using evidence to improve reproductive, maternal, newborn, and child health

Senegal has long recognized that reaching women and children in remote communities with basic health interventions is essential to achieving health objectives, and is a leader in testing and institutionalizing community-based innovations.

Senegal was among the first African countries to pilot and nationally scale iCCM. Historically, the role of Senegal’s community health providers was limited to disease-prevention education and provision of basic treatment, such as oral rehydration therapy for diarrhea and chloroquine for malaria. Encouraged by a 2003 study in Nepal on community-based treatment of pneumonia, a committee of national leaders, researchers, and advocates in Senegal conducted a feasibility study which determined that community health providers were capable of treating acute respiratory illnesses with antibiotics. In 2005, the MSAS integrated the intervention into the package of services offered at health huts, demonstrating commitment to applying experience and scientific research to change policy and practice.

**Figure 4. Evolution of Senegal’s Community-Level Health Services**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950s</td>
<td>Health huts begin providing services in communities</td>
</tr>
<tr>
<td>1990s</td>
<td>Oral rehydration therapy and chloroquine introduced at health huts</td>
</tr>
<tr>
<td>2003-2004</td>
<td>Health huts begin reporting services provided and developing resupply processes</td>
</tr>
<tr>
<td>2005</td>
<td>ASCs begin treating ARIs with antibiotics</td>
</tr>
<tr>
<td>2008</td>
<td>Diarrhea treatment with ORS at health huts</td>
</tr>
<tr>
<td>2009</td>
<td>Bajenu Gox Program officially launched</td>
</tr>
<tr>
<td>2010</td>
<td>Zinc introduced at health huts</td>
</tr>
<tr>
<td>2011</td>
<td>Management of postpartum hemorrhage with medicines at health huts</td>
</tr>
<tr>
<td>2014</td>
<td>First community health policy and strategic plan; health huts recognized as part of formal health system</td>
</tr>
<tr>
<td>2015</td>
<td>Pilot of providing initial offer of OCPs at community level</td>
</tr>
</tbody>
</table>

Acronyms:
- ACT: Artemisinin combination therapy
- ARI: Acute respiratory infection
- OCP: Oral contraceptive pills
- ORS: Oral rehydration salts
- RDT: Rapid diagnostic test for malaria

website: advancingpartners.org
Over the next few years, the country piloted other interventions related to iCCM: treating malaria with artemisinin combination therapy, adding zinc to diarrhea management protocols, and diagnosing malaria with rapid diagnostic tests before treating, which reduced the number of children who unnecessarily received malaria medications.\textsuperscript{21-22} Instead of introducing all interventions simultaneously, Senegal added them gradually, which facilitated scale-up by allowing more time to train community health providers. Figure 4 outlines the evolution of community health services in the country.

Senegal adopted a similar, gradual approach when it expanded the DSDOM scope of work. In 2008, the country allowed these providers to test for and treat simple malaria cases. Because of their effectiveness, the MSAS trained the DSDOMs to provide additional iCCM interventions in 2013. Figure 5 showcases other key community-based interventions the country has piloted and scaled.

Senegal’s focus on testing new community-based interventions exemplifies its commitment to broadening access to a wide array of services for RMNCH, including newer contraceptive technologies. However, program implementation and scale-up have encountered common health system roadblocks including delays in staff training; intermittent product availability; and low service uptake due to insufficient knowledge of danger signs among caregivers, community-provider mistrust, inability to pay for services, and subpar service quality.\textsuperscript{29-32}

3. Engaging and training bajenu gox to promote healthy behaviors, support providers, and advocate for health

Senegal launched the bajenu gox program in 2009 to reduce maternal and child morbidity and mortality. “Bajenu gox” roughly translates as “godmothers” and refers to respected female elders who are active members of their communities and advocate for the well-being of women, girls, and families. Traditionally, bajenu gox counsel younger women on topics like marriage, pregnancy, delivery, and health. The bajenu gox program formalized these women into volunteer health promoters because of their ability to influence fellow community members’ behavior.

Bajenu gox promote RMNCH interventions such as antenatal care, voluntary family planning, and child vaccination. They also mobilize communities, make home visits and referrals, and

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support other health activities. While the country developed a national bajenu gox curriculum in 2010, the MSAS and partners have also trained them to conduct activities in response to emerging national priorities. For instance, in 2013, one NGO trained 90 bajenu gox to educate their communities on gender issues, family planning, and HIV testing, and during the West Africa Ebola outbreak in 2015, 300 of them learned how to lead community conversations on preventing Ebola and other communicable diseases.

By 2015, 3,406 bajenu gox served communities across Senegal. Bajenu gox believe they have been instrumental in improving the health of their communities, particularly by helping women trust ASCs and other providers. A study found that bajenu gox improved outreach, particularly for family planning, to men and mothers-in-law, who are critical to household decision-making. In 2014, a group of bajenu gox were trained to develop advocacy strategies to mobilize local funds for family planning commodities. In one case, bajenu gox convinced the mayor to allocate funds from a communal budget for family planning, demonstrating that with the appropriate support, bajenu gox can be effective advocates.

Despite these accomplishments, the bajenu gox program faces low retention and motivation due to poor supervision and monitoring, limited remuneration, and insufficient integration with other community actors and initiatives. In response, the MSAS and partners plan to use a $3.6 million USAID investment to revitalize the bajenu gox program. Funds will be used to recruit additional bajenu gox and build their capacity for family planning promotion, improve supervision, and organize bajenu gox support networks. The MSAS also plans to give bajenu gox badges and bags, organize special events to recognize their work, and harmonize motivation schemes across the country.

4. Committing to community-level strategies

Across different health areas, Senegal has matched commitments with investments in community-level approaches. Recent advances in family planning illustrate the power of national leadership and follow-through, with special attention to the local level.

Although many initiatives have contributed to the recent rapid rise in modern contraceptive use, the 2011 Ouagadougou Conference on Family Planning and the 2012 London Summit on Family Planning ignited a particularly organized and focused effort to prioritize voluntary family planning as a health and development issue. Following the Summit, the president, prime minister, and other high-level officials elevated the visibility and importance of family planning for the country. The MSAS established a Directorate for Reproductive Health and Child Health, and developed the 2012–2015 National Action Plan for Family Planning. Senegal also tripled its budget line for contraceptive products in 2012, and launched a technical family planning steering committee to convene stakeholders to discuss technical and financial concerns and enhance coordination. As a result, parliamentarians, other development sectors, NGOs, civil society, and financial partners are more engaged in family planning issues because they perceived it as a more organized discipline with a clearer vision.
The 2012–2015 National Action Plan prioritized community-based family planning and community mobilization as necessary components to increasing overall family planning uptake. Communication campaigns and targeted messaging improved community acceptance and participation in family planning interventions, especially by men and religious leaders. Health staff increased outreach in communities, adding 12,962 new family planning users between 2012 and 2014. Shifting provision of oral contraceptive pills and injectable contraceptives to community health providers increased the accessibility of these methods, especially for rural women.

The country’s 2016–2018 Strategic Framework for Family Planning outlines plans to allocate one-fifth of the family planning budget to community-level strategies, including adding 840 new health huts; rehabilitating and equipping current huts; recruiting new community health providers; and continuing to build community health provider capacity, including training DSDOMs to deliver certain family planning methods. Such investments will not only advance family planning but also help strengthen overall community-level service delivery.
5. Implementing an “Informed Push Model” to reduce contraceptive stockouts

In 2011, the MSAS and its partners introduced the Informed Push Model (IPM) to reduce family planning commodity stockouts in health facilities. Under the IPM, a professional logistician collects family planning commodities from regional supply pharmacies on a regular basis, stores the products, and distributes them to district-level health facilities and pharmacies. Senegal modeled the IPM after a similar approach in Zimbabwe, and implemented it through a public-private partnership. Previously, the country had utilized a “pull” model, in which health facility staff tracked and forecasted inventory and ordered commodities as needed.

The IPM sought to reduce the logistical burden on service providers by delivering supplies before they ran out. The logistician travels to health facilities to take inventory, record consumption data, and complete delivery slips and stock inventory reports. A software application called Comtrack tracks the process and allows regional logistics managers to monitor data across facilities and pharmacies to inform forecasting. The data also helps assess the functionality of the national family planning program.40 Figure 6 illustrates the IPM.

Under the IPM, facilities pay only for the products sold, as opposed to the previous pull system, in which they paid at the time of order, which caused problems when funds were insufficient. The IPM reinvests money collected from client user fees into restocking contraceptives and contracting logisticians. Furthermore, delivery teams bring commodities directly to facilities rather than requiring facility staff to pick up commodities during their workday and at their own expense.

A six-month IPM pilot eliminated stockouts of implants and injectable contraceptives, a reduction from 83 and 43 percent, respectively.40 At the end of one year, contraceptive uptake skyrocketed, increasing 127 percent for pills; 121 percent for injectables; 2,081 percent for implants; and 68 percent for IUDs, corresponding to an estimated equivalent of an 11 percent point increase in modern contraceptive prevalence. The availability of a full range of contraceptive methods enabled health workers to counsel clients more effectively, and clients left facilities with their preferred family planning method, decreasing the likelihood of discontinuation. Health workers were also able to spend more time delivering family planning and other services instead of managing supplies.

By 2015, Senegal had expanded the IPM to 1,375 sites in all 14 regions of the country, and stockout rates hovered around only two percent.41 Likewise, contraceptive uptake surged during IPM scale-up.42 In 2015, Senegal received the Resolve Award at the World Health Assembly for making headway toward universal access to reproductive health services.43

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1 Reflects the average monthly consumption of contraceptives in 140 public health facilities in the Dakar region between February 2012 and March 2013. Pills increased from 1,544 to 3,503; injectables from 992 to 2,190; implants from 16 to 349; and IUDs from 34 to 57.

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website: advancingpartners.org
Although the IPM's impact at the community level is not immediately apparent, in August 2016, Senegal launched an expanded IPM model called Yeksi-naa, which seeks to improve access to an array of essential medicines (e.g., for RMNCH, malaria, HIV, and tuberculosis) at all service delivery points, including health huts, for all citizens regardless of income or location. By October 2017, the country had trained approximately 2,900 health workers in stock management and pharmacovigilance; established a performance management system to enhance facility data collection and use; and introduced 40 new products into the IPM. As of 2018, the model distributed 90 essential health products to facilities around the country.

**Lessons for Other Countries**

In just the past few years, Senegal has demonstrated how committed national leadership, investments in new and promising health interventions and service delivery models, and efforts to engage communities as partners can improve health for all. Senegal’s story offers key lessons to other countries seeking to strengthen community health systems:

- **Harmonizing interventions across community health partners, while providing some flexibility to locally adapt them, enhances implementation effectiveness.** As part of the CHP I and II, the MSAS and partners devised an overarching approach to guide NGOs to strengthen and scale up delivery of a package of community-based interventions. NGOs were successful in part because each was familiar with the unique needs, actors, and resources available in its area of intervention and had some latitude to tailor approaches accordingly. However, countries should consider and prepare for the challenges in coordinating multiple partners to ensure high-quality, equitable implementation.

- **“Collaboration, learning, and adaptation” builds evidence to strengthen scale-up.** Together, the MSAS, NGO partners, and local-level actors collaborated to advance the learning agenda for community health, including pioneering studies that demonstrated that community health providers could administer certain RMNCH interventions that they had not been able to provide previously. Gradually scaling each intervention allowed sufficient time to monitor and adapt implementation to available resources and the local context without overwhelming community health providers with too many new tasks. Similarly, the incremental extension of the health hut system over several years permitted the MSAS and partners to assess performance, identify lessons, and adapt strategies to subsequent iterations of programming. Finally, the country applied this “collaborating, learning, and adaptation” approach in demonstrating the effectiveness of the IPM in reducing stockouts, and building upon that foundation to scale up the model and add commodities under Yeksi-Naa.

- **Formalizing community engagement approaches supports local ownership of health services.** For years, health huts exemplified community engagement in health. Senegal’s decision to systematize and scale up this concept in the 2000s resulted in a network through which it could strengthen service delivery, reach more people, and institutionalize the community’s role in health. Senegal’s inclusion of health huts as formal MSAS structures in 2014 reiterated their importance and solidified the community engagement concept. At the same time, the country formalized the roles of trusted community members, such as bajenu gox, and systematically supported them to become community health promoters, mobilizers, and advocates.

- **You get what you give: The community health workforce needs sufficient and sustainable motivation schemes to ensure quality and retention.** With five
community health provider cadres, Senegal’s community health programs rely heavily on the performance of its health workforce, but low staff motivation contributes to high turnover, poor service quality, and negative interactions with patients. To improve support for community health providers, recent strategies have allocated more funding for training, supervision, and equipment. Additionally, Senegal’s overarching community health strategy presents various financial and nonfinancial motivation schemes. Such investments are essential for ensuring community health providers are motivated and equipped to carry out high-quality work.

- **Designing for sustainability at inception is paramount.** Partnerships between the MSAS and health and development entities have yielded promising health outcomes, but dependence on foreign aid threatens sustainability. Having acknowledged this challenge for many years, the MSAS and partners consistently included strategies and made investments to support local ownership of health service delivery. The latest USAID-supported community health program in Senegal, the Integrated Service Delivery and Health Behaviors project, incorporates sustainability strategies into its design, informed by lessons from CHP I and II. This project’s scope is confined to certain areas of the country, permitting a greater focus on quality improvement. Its health systems strengthening approach supports self-reliance by building the capacity of individuals from the local to national level, and strengthening and aligning behavior change communication initiatives to increase individual and local community engagement in health governance and financing.

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