Implementing the COVID-19 Rapid Community Assessment on Vaccine Confidence: Lessons Learned From Alabama and Georgia

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Abstract
Engaging communities is a key strategy to increase COVID-19 vaccination. The Centers for Disease Control and Prevention (CDC) COVID-19 Vaccine Confidence Rapid Community Assessment Guide was developed for community partners to obtain insights about barriers to COVID-19 vaccine uptake and to engage community partners in designing interventions to build vaccine confidence. In spring 2021, 3 CDC teams were deployed to Alabama and Georgia to conduct a rapid community assessment in selected jurisdictions. Data collection included interviews, listening sessions, observations, and street intercept surveys. We identified 3 facilitators and barriers to vaccine uptake: (1) planning and coordination, (2) capacity and implementation, and (3) attitudes and beliefs. We found that the use of the rapid community assessment in Alabama and Georgia was feasible to implement, useful in eliciting unique community concerns and dispelling assumptions, and useful in informing intervention strategies. Our results underscore the importance of community engagement in COVID-19 mitigation strategies.

Keywords
COVID-19, vaccination, mitigation, case study, community assessment
**Purpose**

In early spring 2021, CDC was invited to conduct RCAs in selected jurisdictions in Alabama and Georgia. The original SARS-CoV-2 virus was the predominant strain, and vaccine rollout for 3 vaccines (Pfizer-BioNTech, Moderna, and Janssen) was underway. By the time of the Alabama RCA (early March 2021), initial vaccinations prioritized health care personnel and residents of long-term care facilities (phase 1a); people aged ≥75 years and frontline essential workers (phase 1b); and people aged 65-74 years, people aged 16-64 years with medical conditions that put them at high risk of infection, and other essential workers (phase 1c), with later expansion to selected groups. By the time of the Georgia RCA (mid-April 2021), vaccinations had been expanded to all Georgians aged ≥16 years. This case study documents implementation of the COVID-19 RCA in Sumter and Macon counties, Alabama, and in Bacon and Dougherty counties, Georgia, in spring 2021.

**Methods**

**RCA Community Context**

The Alabama Department of Public Health, in collaboration with the Alabama Governor’s Office of Minority Affairs, selected Sumter and Macon counties for its RCAs. Both counties had a high index for social and pandemic vulnerability (eg, higher than average levels of poverty/high rates of COVID-19 infection) and are in the rural, south-central Black Belt region (areas deeply rooted in racism and injustice that have left a legacy of poverty and other health disparities). Sumter County had a population of about 12 400, of which 80% were non-Hispanic Black. Macon County had a population of about 18 000, of which 71% were non-Hispanic Black. Macon County is home to Tuskegee University, a historically Black university, and the site of the US Public Health Service Syphilis Study, in which the US government unethically withheld medical treatment from Black men with syphilis without their consent, from 1932 to 1972.

**RCA Planning**

For week 1 activities, we facilitated initial interviews between CDC staff and state public health officials, which were used to select counties, communities of focus, the implementation time frame, and members of the assessment teams. Priority RCA data collection methods included key informant interviews, listening sessions (guided discussions with a small group of participants chosen based on their role in the community), and observations. To facilitate these discussions, we adapted questions from the RCA key informant interview/listening session template. CDC deployed 1 team to Alabama from March 8 through 25, 2021, and 2 teams to Georgia from April 11 through 16, 2021. We jointly selected documents implementation of the COVID-19 RCA in Sumter and Macon counties, Georgia, in spring 2021.
these time frames to accommodate local preferences, geographic logistics, and expected opportunities to engage with community members at planned community events.

**RCA Implementation: Data Collection and Analysis**

For week 2 activities, teams first talked with leadership in each county (eg, district public health officers, mayors, county commissioners) and then asked for initial referrals to community members and organizations. We used a snowball sampling approach, in which participants provided referrals for other potential participants to recruit for interviews and listening sessions. We continued the snowball sampling approach until saturation was reached in each location, meaning responses from participants became redundant and no longer elicited new information. Depending on interview type and geographic location of the community members, 1 or sometimes 2 or more CDC team members conducted interviews and listening sessions. Listening sessions typically involved group interviews with members of a selected group (eg, faith community, school staff, nurses in a health care system) in a single setting.

Our teams began key informant interviews and listening sessions with an overview of the objectives, which were conducted in a conversational manner. We informed participants that no identifying information would be reported. Teams also conducted community observations (eg, signage for vaccination locations) and driving tours to observe facilities providing COVID-19 vaccinations and to obtain staff perspectives on facilitators and barriers to COVID-19 vaccine uptake specific to local vaccine delivery systems. Lastly, teams used street intercept surveys, where residents were recruited from public spaces (eg, parks, restaurants) and asked about their feelings about COVID-19 vaccinations.

The Alabama team completed 21 key informant interviews, 6 listening sessions with an average of 10 participants, 5 community observations (eg, vaccine clinics, pharmacies), 2 driving tours, and 9 intercept surveys. Participants included business owners, community-based organizations (CBOs), county governance, faith-based leaders, first responders, public and private health care providers, university staff, school administrators, and residents. The 2 Georgia teams completed 54 key informant interviews, 13 listening sessions with an average of 6 participants, 7 driving tours, 10 street intercept surveys, and 6 community observations (eg, observing vaccination wait lines in pharmacies). Participants included business owners, CBOs, county governance, extension services, farmers, public and private health care providers, members of the media, school staff (teachers, school bus drivers, and school board members), and residents.

CDC team members took notes during or after each interview or listening session. At the end of each day, team members individually or collectively summarized notes using RCA templates. Teams met and reached consensus on key themes and recommendations for action.

**Outcomes**

**Findings and Plan for Action**

We identified the following facilitators and barriers associated with vaccine uptake across all sites: (1) planning and coordination, (2) capacity and implementation, and (3) attitudes and beliefs (Table 1 and Table 2). Some facilitators (eg, mobilized county leadership) and barriers (eg, lack of community outreach) were common across all sites, and others, described hereinafter, were unique to each site.

**Alabama**

Respondents in Alabama reported limited vaccine supply and vaccination sites, especially outside of public health agency settings, distant vaccination sites, and limited appointment schedules as barriers to vaccine uptake, particularly for people without access to personal or public transportation. These access barriers contributed to a feeling of neglect in outlying communities. Many residents, including older people and people without broadband internet access, found online scheduling and registration to be a barrier to vaccination. We observed that most vaccination clinics were open only during weekday mornings, and this time slot was especially difficult for people who had work and childcare commitments. The sense of urgency about ending the pandemic was widespread in both counties, based on the personal experiences of illness and loss.

We found some differences between the counties. For example, mistrust of government was more prominent in Macon County than in Sumter County. Macon County participants perceived that vaccine distribution in Alabama reinforced preexisting racial disparities. They also expressed frustration with long-standing government neglect of broader health issues in their community, such as chronic disease and health care infrastructure. In Sumter County, public health officials were pleased with the rollout of COVID-19 testing and were interested in offering vaccines at the same sites used for testing.

We presented the recommendations informed by these findings to the Sumter and Macon County health departments, the Alabama Department of Public Health, and the Governor’s Office of Minority Affairs, as well as jointly to all nongovernmental and governmental organizations engaged with the RCA (Table 3). We also submitted our findings in a report to the Alabama Department of Public Health (CDC, unpublished report, May 2021).
Bacon County, Georgia

In Bacon County, because of its agricultural base, the COVID-19 Roundtable initially sought guidance from the Georgia Department of Agriculture rather than from the public health sector. The Georgia Department of Agriculture played a major role early in the pandemic in facilitating testing capacity and communication about COVID-19 mitigation, especially among farmers and their workers. To reach farmworkers, the GDPH Southeast Health District office facilitated on-site vaccinations, and a federally qualified health center offered vaccinations during the evening and on Saturdays to accommodate farmworkers’ schedules. Another federally qualified health center called patients to register them for an appointment. The area agency on aging was instrumental in facilitating vaccinations for older adults. Members of the local media were used sparsely for outreach, although an emergency management official provided COVID-19 vaccination information on a local radio show. To meet widespread staffing shortages, the public health district shifted county health department staff to neighboring county health departments several days per week to provide vaccinations in these counties, thereby limiting drop-in vaccination opportunities at the health department facility. Mistrust of government increased when it was established that the outbreak reported in March 2021, which garnered national media coverage for Bacon County as a COVID-19 “hot spot,” was the result of a CDC error that misclassified cases from May 2020 to 2021.24,26 (CDC staff apologized for this error on behalf of the agency and confirmed it would be brought to the attention of appropriate individuals at CDC.) Skepticism toward federal guidance increased after the perceived impracticality of selected guidance (eg, quarantine protocols for exposed first responders when only a handful were available countywide). In addition, residents stated that CDC COVID-19 communication materials (eg, toolkits) did not resonate with them because the material did not reflect rural life.

CDC deployers expedited analysis and report preparation while in the field, allowing us to present the RCA findings and recommendations to members of the COVID-19 Roundtable and GDPH in an already scheduled Roundtable meeting (April 16, 2021; Table 3). Three team members presented findings and addressed community members’ questions and concerns. We also submitted our findings in a report to GDPH (CDC, unpublished report, June 2021).

Dougherty County, Georgia

Mass communication efforts (eg, weekly press conferences, public service announcements, Facebook Live events, a weekly radio program) increased awareness of COVID-19 vaccines and their availability in Dougherty County. A Vaccine Equity Unit established within the Dougherty

Table 1. Selected facilitators and barriers associated with COVID-19 vaccine uptake based on the COVID-19 Rapid Community Assessment,a Alabama, March 2021

| Factor                          | Macon County | Sumter County |
|---------------------------------|--------------|---------------|
| **Facilitator**                 |              |               |
| Planning and coordination       |              |               |
| Co-located services (eg, testing, vaccinations) | X            |               |
| Dedicated resources for vaccine services and to address barriers to vaccination | X            | X             |
| Mobilized county leadership     | X            | X             |
| **Barriers**                    |              |               |
| Attitudes and beliefs           |              |               |
| Low vaccine hesitancy/high vaccine demand among eligible populations | X            | X             |
| Urgency among community members to end pandemic | X            | X             |
| **Barriers**                    |              |               |
| Planning and coordination       | X            | X             |
| Lack of community outreach      | X            | X             |
| Capacity and implementation     |              |               |
| Access challenges (eg, transportation, limited vaccination sites) | X            | X             |
| Complex scheduling and registration processes for vaccine appointments | X            | X             |
| Information gaps among populations at risk for COVID-19 (eg, homebound populations, Hispanic/Latino populations, young adults) | X            |               |
| Limited publicly available data at the county level | X            | X             |
| Low vaccine supply              | X            | X             |
| Attitudes and beliefs           |              |               |
| COVID-19 fatigue and apathy among young adults (aged <40 years) | X            | X             |
| Mistrust in health care or government agencies | X            | X             |

*aA rapid community assessment was undertaken using the Centers for Disease Control and Prevention COVID-19 Vaccine Confidence Rapid Community Assessment Guide to obtain actionable insights about barriers to COVID-19 vaccine uptake and to engage community partners in designing intervention strategies to build COVID-19 vaccine confidence.*
County Health Department facilitated vaccination uptake. A mass influenza vaccination simulation conducted in fall 2020 prepared health systems to deploy COVID-19 vaccines in 2021. Health department staff hosted 2 events in the student center at Albany State University to answer questions about the COVID-19 vaccine. Despite mass communication efforts, many respondents discussed the inability to find trusted, transparent, and easy-to-understand information about vaccines. Based on respondents’ comments, the Dougherty County team determined that information was characterized as “trusted, transparent, and easy to understand” if it was free from a political agenda, stated the benefits and risks of vaccination, included what is known and not known about short- and long-term side effects of the vaccine, and was communicated in plain language.

The limited trust that residents already harbored for public health and government was further hindered during the pandemic. Respondents linked this mistrust to historical and current policies and practices that harmed Black people’s well-being (eg, efforts to reduce voting rights and access, the state not adopting Medicaid expansion, disproportionate rates of chronic and mental illness without corresponding equitable access to care). This mistrust powered beliefs about vaccines being used to disproportionately harm Black people.

Separately, but related to trauma and emotions concerning the pandemic, a few respondents discussed how some Black community members, particularly faith-based leaders, felt blamed and stigmatized for the spread of COVID-19 in the community. Dougherty County received national and international media coverage at the beginning of the pandemic when 2 funerals of Black community members were labeled as superspreader events that drove the outbreak in Albany in late March 2020.27 Some respondents were confused by the lack of public discourse potentially linking the SNICKERS

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Table 2. Selected facilitators and barriers associated with COVID-19 vaccine uptake based on the COVID-19 Rapid Community Assessment, a Georgia, April 2021

| Factor | Bacon County | Dougherty County |
|--------|--------------|------------------|
| **Facilitator** | | |
| Planning and coordination | | |
| Dedicated resources for vaccine services and to address barriers to vaccination | X | X |
| Federally qualified health center calling patients to register them for an appointment | | X |
| Mass communication campaigns and direct community engagement | X | |
| Mass vaccination simulations | | X |
| Mobilized county leadership/COVID-19 coalition | | X |
| **Capacity and implementation** | | |
| Enough vaccine supply to meet demand | X | X |
| Expanded access via walk-up appointments, on-site vaccinations, mobile teams | | X |
| Expanded evening and weekend hours at vaccination sites | | |
| **Attitudes and beliefs** | | |
| Low vaccine hesitancy/high vaccine demand among eligible populations | | X |
| **Barrier** | | |
| Planning and coordination | | |
| Lack of clear messaging and communication about the vaccine’s benefits and safety | | X |
| Lack of coordinated community outreach | | X |
| Lack of diversity among trusted messengers | | |
| No county-level vaccine rollout plan | | X |
| Capacity and implementation | | |
| Access challenges (eg, transportation, limited vaccination sites) | | X |
| Complex scheduling and registration processes for vaccine appointments | X | |
| Information gaps among populations at risk for COVID-19 (eg, homebound populations, Hispanic/Latino populations, young adults) | | X |
| Staff shortages (health department) | | X |
| Attitudes and beliefs | | |
| COVID-19 fatigue and apathy among young adults (aged <40 years) | X | |
| Mistrust in health care or government agencies | X | X |
| Negative beliefs about the vaccines and their side effects | X | X |
| Unaddressed pandemic-related trauma | X | |
| Vaccine hesitancy among some trusted messengers | X | |

*a A rapid community assessment was undertaken using the Centers for Disease Control and Prevention COVID-19 Vaccine Confidence Rapid Community Assessment Guide7 to obtain actionable insights about barriers to COVID-19 vaccine uptake and to engage community partners in designing intervention strategies to build COVID-19 vaccine confidence.*
Table 3. Selected recommendations based on the COVID-19 Rapid Community Assessment in Alabama and Georgia jurisdictions, March and April 2021

| Jurisdiction | Identified problem/challenge or need | Recommendations |
|--------------|---------------------------------------|-----------------|
| Alabama      | Limited vaccine supply and sites      | • Seek community input on additional sites and hours of operation, especially in areas outside the county seats. |
| Macon and Sumter counties | Gaps in transportation to vaccination sites | • Leverage nursing students and volunteers to facilitate expanded operations. |
| | • Provide rides to vaccination sites via school buses, ambulances, church vans, and volunteer drivers. | |
| | • Create mobile clinics at key gathering spots (eg, food trucks, gas stations). | |
| | • Offer door-to-door vaccination. | |
| | • See CDC guidance on mobile vaccination resources and consider the use of custom-equipped vehicle to address storage and handling requirements for mobile clinics and door-to-door vaccination. | |
| | • Offer walk-up vaccinations at drive-through sites to accommodate residents without cars. | |
| | Complex scheduling and registration processes | • Offer mass vaccination drop-in clinics with numbered ticketing system. |
| | • Connect residents to volunteers who can assist with the scheduling process. | |
| | • Offer scheduling hotlines, public access to computers, and volunteers with mobile hotspots. | |
| | • Call residents proactively to facilitate scheduling. | |
| | COVID-19 fatigue and apathy among young adults (aged < 40 years) | • Provide education and question-and-answer sessions targeted at young adults. |
| | Need to increase outreach | • Develop print, broadcast, social media, and advertising that celebrate vaccination completion with local partners and well-known residents. |
| Georgia      | Limited publicly available data at the county level | • Develop a cadre of trusted community health workers who can provide plain-language, in-person peer education. |
| Macon County | Government mistrust | • Invite health care providers to the community to answer questions. |
| | • Distribute printed materials to locations where people gather or visit on a regular basis (eg, stores, churches, restaurants, events). | |
| | • Use school robocalls to reach families with school-aged children. | |
| Georgia      | Limited access to vaccine | • Provide publicly available data dashboards at the county level. |
| Bacon County | Misinformation | • Include available county-level demographic data in dashboards (eg, age, sex, race, ethnicity). |
| | • Address missing data issues by working with vaccination providers and information technology partners to improve completeness of race and ethnicity data. | |
| | • Develop a clear plan for vaccinating the diverse populations of Bacon County, including the migrant labor force, and identify an entity to lead the implementation. | |
| | • Expand mobile vaccination clinic opportunities to “meet people where they’re at,” including local food bank, churches, farms, and large employer locations. | |
| | • Consider expanded hours of operations by all provider types beyond typical workday. | |
| | • Increase collaboration of public health and agriculture to ensure farmers who employ migrant labor are implementing latest guidance to mitigate COVID-19 transmission and vaccinate farmworkers. | |
| | • Increase fact-based, culturally appropriate information in accessible outlets (printed materials at pharmacies and other businesses, newspaper, radio, videos running in local venues, billboards, town halls). | |
| | • Use novel local channels (eg, Bacon County Economic Development Authority with 5000 Facebook followers). | |
| | • Suggest radio stations and newspapers to feature trusted health professionals (eg, public health, hospital infection control nurse) to share fact-based information with the community. | |
| | • Increase positive messaging concerning benefits of vaccines (eg, overall number vaccinated without issues, getting back to normal) rather than negatively framed information (eg, risk of rare events). | |
| | • Convene community meetings with trusted authorities to answer community members’ questions. | |

(continued)
### Table 3. (continued)

| Jurisdiction | Identified problem/challenge or need | Recommendations |
|--------------|-------------------------------------|-----------------|
| Dougherty County | Limited direct outreach to individuals | • Use guidance and communications materials that are practical and understandable at local levels (ie, products must be understandable by multiple populations and at sixth-grade literacy level).  
• Use public health guidance that is feasible for implementation by business, industry, agriculture, emergency response, and school sectors, given that resources are often limited.  
• Update the Georgia Department of Public Health’s Vaccine Locator for accuracy to reflect all active providers.  
• Collect and highlight rural success stories to share in metro Atlanta media channels.  
• Coordinate and offer opportunities to get vaccinated in trusted community spaces (eg, shelters, food banks, churches, community centers, YMCAs, Boys & Girls Clubs).  
• Use these spaces to expand access and provide nonclinical sites and hours (eg, nights, weekends).  
• Bundle vaccinations with other services that community members seek or need.  
• Encourage health care providers to call people who have not been vaccinated and assist with appointment scheduling.  
• Encourage opportunities for community dialogue (eg, town halls, small group sessions with community leaders, health care providers who look like and come from the community) in tandem with active information dissemination and opportunities to be vaccinated on site. |
| Limited communication planning and strategies | | • Develop a strategic communication plan to guide community outreach.  
• Provide clear, transparent, and consistent information that addresses specific misinformation or concerns, such as vaccine side effects or risk, and promotes the benefits of vaccination.  
• Offer providers and trusted messengers training to improve communication about vaccines and foster trust.  
• Create a central location where information and educational resources can be shared. |
| Limited use of trusted messengers in community-wide outreach efforts | | • Include community partners in initial planning of and decision making for outreach events and activities, not just in the dissemination of information.  
• Consider developing community advisory boards with membership that reflects the diversity of the community in race, ethnicity, gender, age, socioeconomic status, and geographic location. |
| Evaluation limitations | | • Assess the needs of groups, populations, and geographic areas when planning outreach and interventions.  
• Evaluate outreach activities and interventions:  
• Collect data on social media views, engagement, and comments.  
• Provide a feedback loop for planners and attendees at outreach efforts.  
• Use both qualitative (ie, experience) and quantitative (ie, number vaccinated) measures to assess efforts. |

Abbreviation: CDC, Centers for Disease Control and Prevention.

*A rapid community assessment was undertaken using the CDC COVID-19 Vaccine Confidence Rapid Community Assessment Guide* to obtain actionable insights about barriers to COVID-19 vaccine uptake and to engage community partners in designing intervention strategies to build COVID-19 vaccine confidence.

Marathon, a major event that brought thousands of national and international tourists to the area weeks prior to the funerals, as a possible origin of the local outbreak. Some respondents believed that the Black faith-based community was unfairly scapegoated, further entrenching feelings of mistrust of larger systems (Table 2).

We presented the recommendations informed by these findings to the Dougherty County Health Department, health care providers at Phoebe Putney Memorial Hospital, and GDPH (Table 3). We also submitted our findings in a report to GDPH (CDC, unpublished report, May 2021).

### Lessons Learned

We found that the use of the RCA in Alabama and Georgia was feasible to implement and of value to health departments and community partners in obtaining information on barriers to COVID-19 vaccination. Our study also showed the value of listening to communities’ perspectives. RCAs can help to dispel assumptions about communities that might share general characteristics, such as rurality, but differ because of unique local factors. The insights gained from meeting with community members directly to dispel assumptions are especially worthwhile in settings with a high index for social
vulnerability and historical trauma. For example, in Alabama, the Alabama Department of Public Health initially requested us to investigate vaccine hesitancy; however, when implementing the RCA, we found that the main concerns were associated with inequitable access to vaccines. This information led the public health department to adjust its strategies and priorities. In Bacon County, some community leaders who criticized the Bacon County Health Department’s vaccination services were unaware that the limited vaccination capacity at the county facility was the result of district-wide staffing shortages until we presented the results of the RCA. We also found it useful to hear about the community’s dissatisfaction with CDC’s coding error that brought unwanted national attention to the county.

RCAs can be used as a source of information for the development of practical recommendations to improve vaccine confidence, especially for health departments that are considering conducting RCAs to recognize rather than simply describe the state of vaccine confidence in a community. To support this objective, health departments or sponsoring organizations should consider how resources will be leveraged to implement recommendations before they conduct an RCA. Health departments should also clarify the roles of their own staff, the sponsoring organization, and community partners in the implementation process and consider impact evaluation. To avoid bias, we suggest that team members who collect data come from outside the community that is being assessed. While CBOs and leaders have deep personal and professional knowledge of the issues affecting residents, they do not need special tools to articulate this knowledge to themselves. Rather, RCAs serve as a mechanism for communities to elevate their concerns to policy makers and funding bodies.

Our case study had at least 4 limitations. First, although we used the same topical areas of focus to guide all data collection, we did not use standardized questions across sites or interviews, thereby limiting comparisons across jurisdictions. Second, we may not be able to generalize our findings to the entire population in each jurisdiction or to populations with similar demographic characteristics in other jurisdictions. Third, social desirability bias may have caused some respondents to conceal or minimize vaccine hesitancy from health authorities. Finally, additional study is needed to assess the extent to which recommendations were implemented by community partners and whether practices were changed.

Engaging communities is critical to understanding barriers to and enabling factors for vaccine confidence and uptake. This case study demonstrates the value of community engagement in COVID-19 mitigation. Use of the CDC COVID-19 RCA can be an important tool to elicit intervention strategies for COVID-19 vaccination.

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