

# RADx Underserved Populations (RADx-UP)

## Advisory Committee to the Director, National Institutes of Health

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# Speakers



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# RADx-Underserved Populations (RADx-UP)

## Overarching Goals

- Enhance COVID-19 testing among **underserved and vulnerable populations** across the US.
- Develop/create a **consortium of community-engaged research projects** designed to rapidly implement testing interventions.
- **Strengthen the available data** on disparities in infection rates, disease progression and outcomes, and **identify strategies to reduce these disparities** in COVID-19 diagnostics.

September – November 2020

Phase I: \$300M



*Build infrastructure*



*Rapidly implement testing, other capabilities*

Early 2021 – Summer/Fall 2021

Phase II: \$200M



*Integrate new advances*



*Expand studies/populations*

# RADx-UP Strategies

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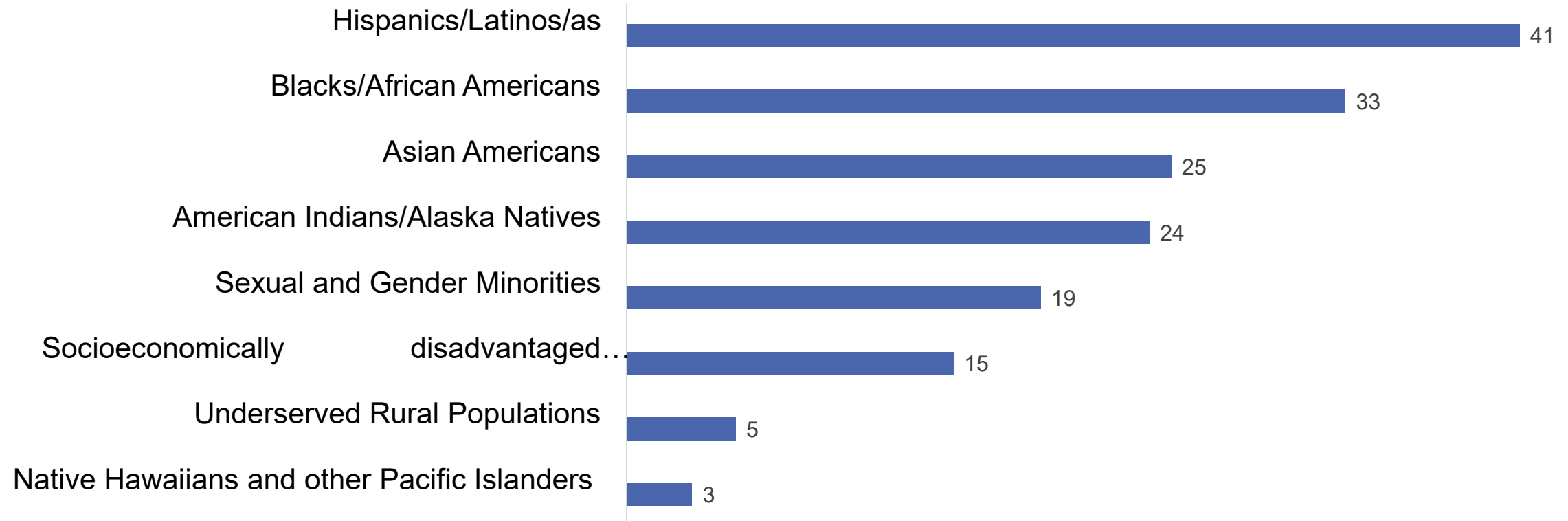
- **Expand capacity to test broadly** for SARS-CoV-2 in highly affected populations, including asymptomatic persons.
  - **Deploy validated point of care tests** as available, including self-test and saliva-based methods.
  - **Inform implementation of mitigation strategies** based on isolation and contact tracing to limit community transmission.
  - **Understand factors** that contribute to COVID-19 disparities and **implement interventions** to reduce these disparities.
  - **Establish infrastructure** that could facilitate evaluation and distribution of vaccines and therapeutics.
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# RADx-UP Phase I Snapshot: Populations with Health Disparities

**NOT-OD-20-121, NOT-OD-20-120, NOT-OD-20-119 & RFA-OD-20-013**

Together, funded sites and research projects propose to serve a diverse population set, with many projects serving Hispanic/Latino and African American populations, as well as Asian Americans and American Indians/Alaska Natives.

## Target Health Disparity Population Projects

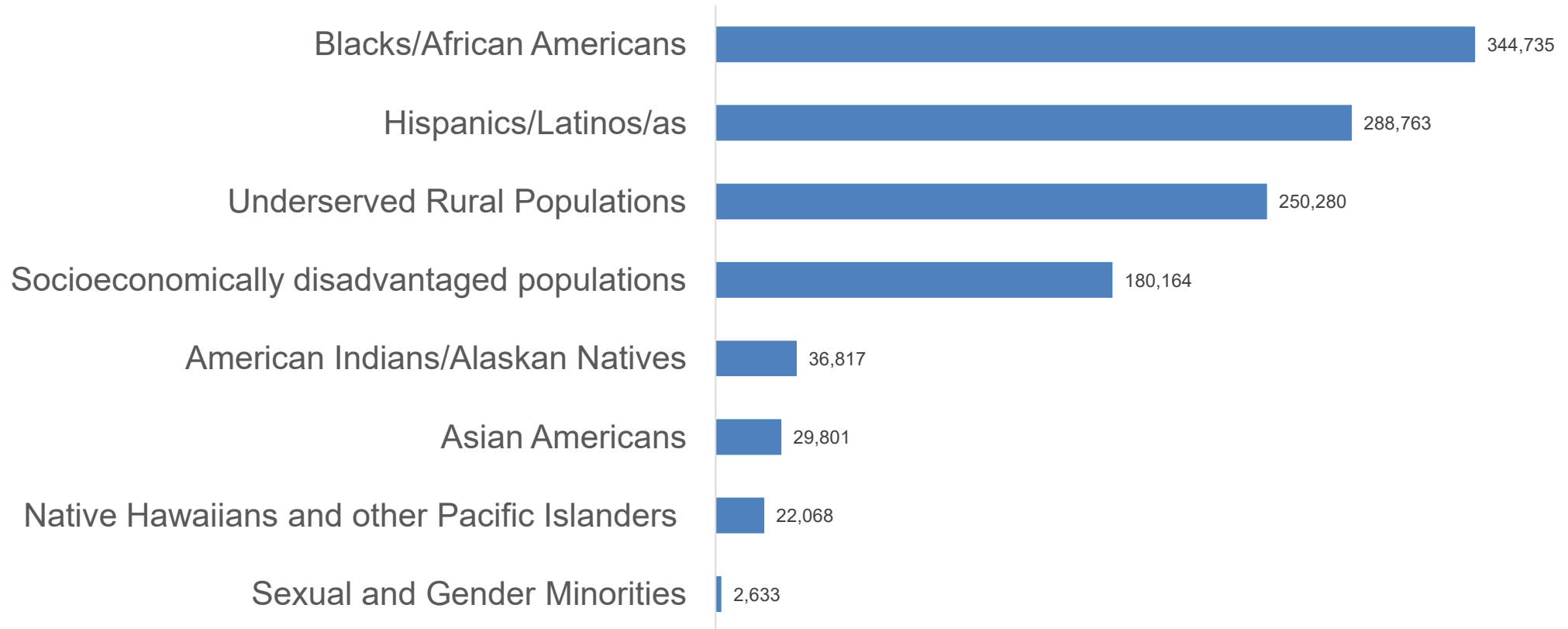


**Note:** Some projects/sites address multiple target populations.

# RADx-UP Phase I Sample Size Estimates

NOT-OD-20-121, NOT-OD-20-120 & NOT-OD-20-119

## Health Disparity Populations

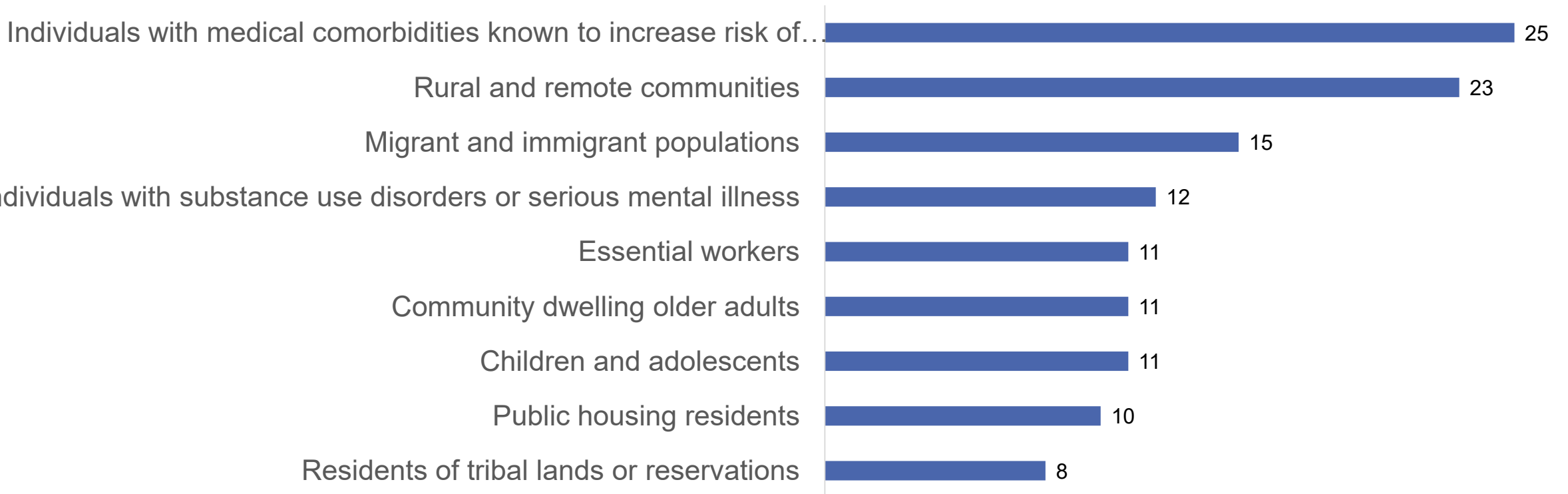


# RADx-UP Phase I: Populations with Medical or Social Vulnerabilities

## NOT-OD-20-121, NOT-OD-20-120, NOT-OD-20-119 & RFA-OD-20-013

Together, funded sites and research projects propose to serve a diverse population set, with many projects serving individuals with medical comorbidities known to increase risk of severe COVID-19, rural and remote communities, and migrant and immigrant populations.

### Target Vulnerable Population Projects (1/2)



**Note:** Some projects/sites address multiple target populations.

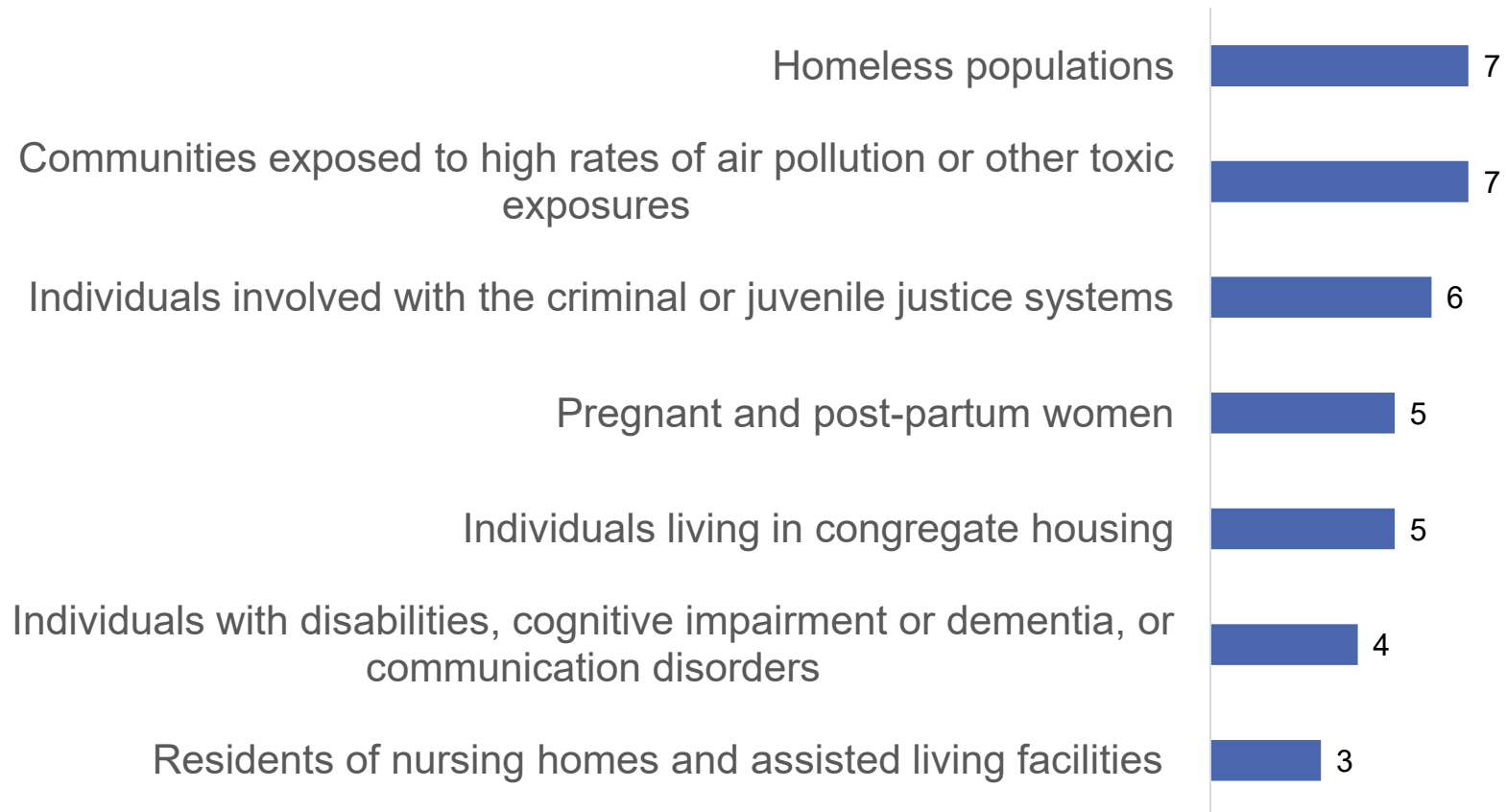


# RADx-UP Phase I: Populations with Medical or Social Vulnerabilities

**NOT-OD-20-121, NOT-OD-20-120, NOT-OD-20-119 & RFA-OD-20-013**

Funded sites and research projects also propose to serve the following additional vulnerable populations.

**Target Vulnerable Population Projects (2/2)**

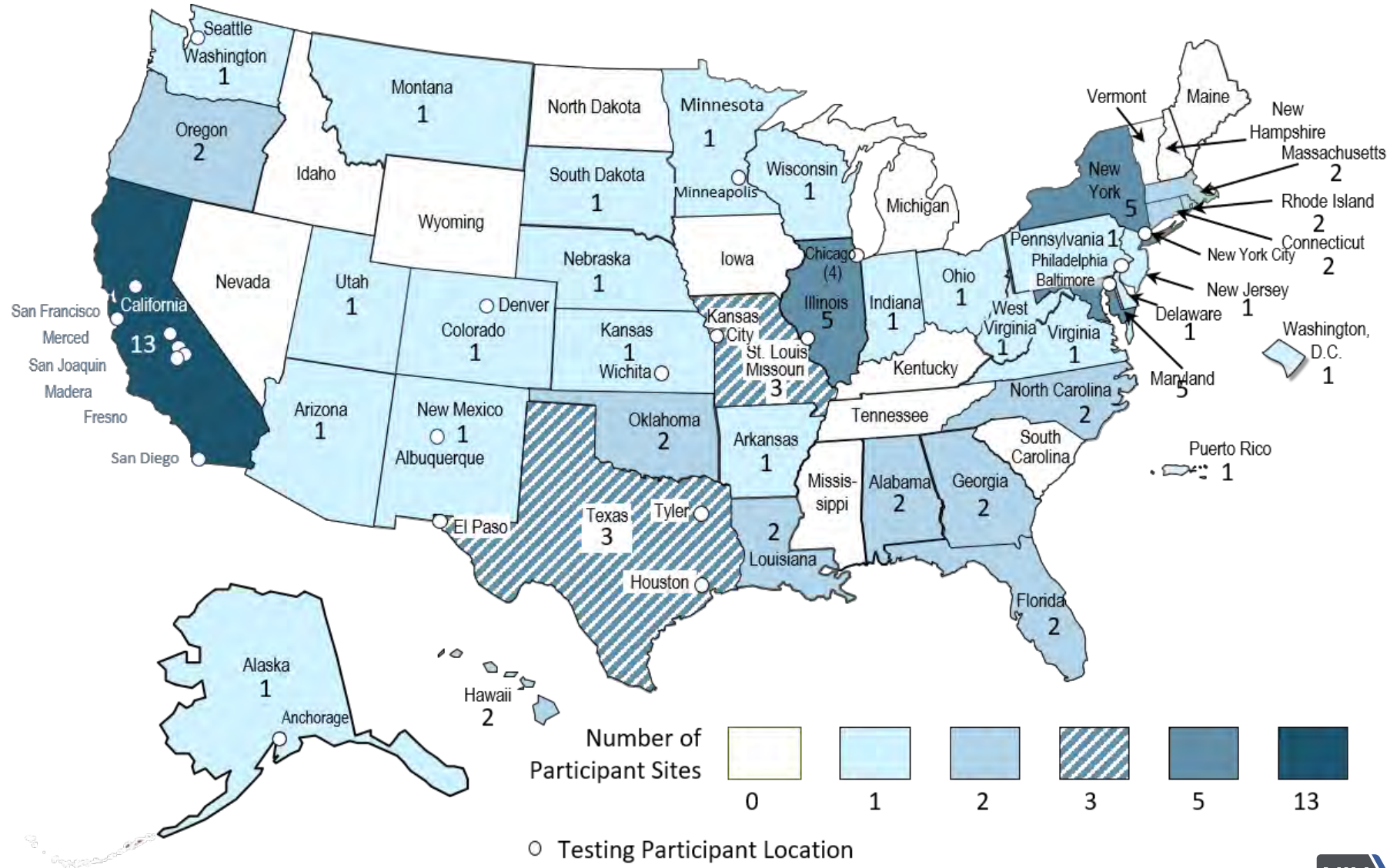


**Note:** Some projects/sites address multiple target populations.



# RADx-UP Phase I Awards

## Testing Participant Locations



**Note:** Cities listed are not exhaustive, as some projects only provided state-level information

# Testing Research Projects: Large Networks, Consortia & Research Centers

**NOT-OD-20-121**

**Program Information: \$5M per site over 2 years; 30 sites**

- Understand the factors associated with COVID-19 morbidity and mortality disparities and to lay the foundation to reduce disparities for those underserved and vulnerable populations
  - Closely partner with communities to develop and implement interventions to increase access and uptake of testing
  - Provide large-scale testing and collaborate across the consortium of projects to serve as a resource for future studies and outreach
- 
- **Awarded 29 sites in FY20, 1 site in FY21**
    - Approximately 500,000 participants/tests
  - **Testing methods include a range of POC, pooled, & lab-based; PCR, antigen, and Ab:**
    - Abbott ID NOW, Roche cabas, Cepheid GeneXpert, Hologic Aptima/Panther Fusion, ThermoFisher, and custom tests
  - **Testing at prisons, mental health programs, in public housing & community centers**
    - Focus on rural and urban, Tribal, and aging communities



# Testing Research Projects: Agile Community Collaborations & Partnerships

**NOT-OD-20-120**

**Program Information: \$2M per site over 2 years; 23 sites**

- Strengthen available data on disparities in infection rates and disease progression and outcomes among underserved and vulnerable populations across the US
  - Understand differences in testing access and uptake patterns
  - Partner with communities to build the evidence-base of approaches to identify and address disparities in diagnostic testing uptake and effectiveness
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- **Awarded 4 sites in FY20, 19 in FY21**
  - **Testing methods include a range of POC, pooled, & lab-based; PCR, antigen, and Ab:**
    - Abbott ID NOW, KorvaLabs Curative SARS-Cov-2 Assay, Cepheid GeneXpert, Cellex Rapid Test, Quidel Sofia SARS antigen test, ThermoFisher, and custom tests
  - **Testing at mobile-sites, community health centers, in public housing & at home**
    - Focus on individuals with medical comorbidities, substance use disorders or mental illness, and community dwelling older adults





# Social, Ethical and Behavioral Implications

**NOT-OD-20-119**

**Program Information: \$1.2M per site over 2 years; 16 sites**

- Assess ethical, historical, healthcare, social, economic, and contextual factors surrounding COVID-19 testing
- Investigate influence of cultural beliefs and attitudes, perceived expectations, and preferences
- Inform development of interventions and tools to increase access to and acceptability of testing

- **Awarded 5 projects in FY20, 11 in FY21**

- **Research conducted through community health centers, online surveys, public housing developments, and Tribal communities**

- Focus on individuals with medical comorbidities, migrant and immigrant populations, Tribal populations, and rural and remote communities



# RADx-UP Coordinating and Data Collection Center (CDCC)

## Program Information: \$80M over 4 years

- Serve as a national resource to coordinate across the RADx Consortium
  - Provide overarching support and guidance in: (1) Administrative Operations and Logistics, (2) COVID-19 Testing Technology, (3) Community and Health System Engagement and (4) Data Collection, Integration and Sharing
  - Support the pilot project programs: (1) Rapid pilot studies, (2) Community collaboration grants
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- **Awarded to Duke Clinical Research Institute (DCRI), the Center for Health Equity Research at UNC-Chapel Hill and Community-Campus Partnerships for Health**
  - **Innovative ideas for data management, hub and spoke models of networked testing, and outreach to underserved communities**
  - **Experience in developing new SARS-CoV-2 testing technologies**
    - Provide strong technical assistance to testing protocols and adoption/distribution of new, emerging technologies



# RADx-UP Coordinating and Data Collection Center Cores

## Administration & Coordination

- Communication
- Committee oversight
- Processes, policies, procedures
- Partnerships
- Evaluation

***NIH Program Officers***

## Community Engagement

- Best practices
- Engagement Resource Library
- COVID-19 Equity Evidence Academy
- Community of Practice
- Community Collaboration Grants

***NIH Project Scientist***

## COVID-19 Testing

- Technical support
- Repository of emerging technologies
- Testing selection & implementation
- Research pilot studies

***NIH Project Scientist***

## Data Science & Statistics

- Data harmonization
- Security, privacy, and protections
- Data exchange
- Data representation and visualization

***NIH Project Scientist***

## ENGAGEMENT IMPACT TEAMS

**THANKS!**

