Georgia Tech
Center for Advanced Communications Policy

Annual Report 2025

Research Highlights

Created By
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Executive Director

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CACP Overview

MISSION & VISION. The Center for Advanced Communications Policy (CACP) is an applied research center that focuses on informing the design, development, and deployment of innovative technologies, and understanding their social impact by the conduct of objective, evidence-based research and policy analysis. CACP has a particular emphasis on policy methods and outputs that meet the needs of both public and private sector stakeholders.

Through its relationship with the Jimmy and Rosalynn Carter School of Public Policy and its position within the Ivan Allen College of Liberal Arts (IAC), CACP's mission is to provide research and methodologically sound perspectives on technologies at the intersection of society and policy. Further, these analytic approaches are the foundation of the assessment and analysis of issues that inform applied aspects of our work: improving the user experience, commenting on federal rulemaking, and offering input into the policymaking process. An important characteristic of our work is that it is supported through diverse funding from government, industry, and non-profit sources. CACP utilizes a proven human systems engineering approach to problem solving and focuses on integrative processes that "fill gaps" by looking at the space between people and technology with a social sciences and humanities-based lens that others may not be able to offer.

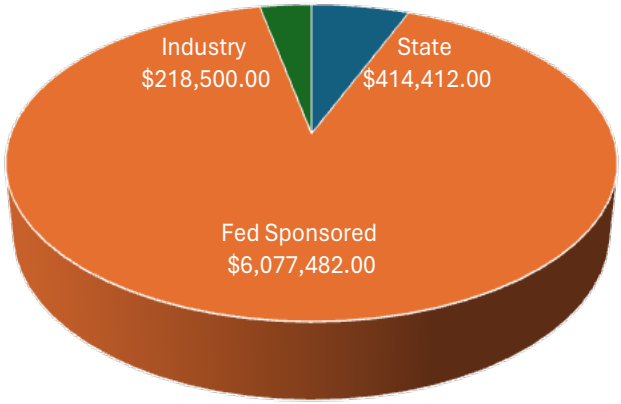
FUTURE DIRECTIONS. CACP's current strategic plan was finalized in 2022 and runs through 2027. However, as both Georgia Tech and IAC move forward into bold new directions while ensuring continued stability and sustainability, CACP is in the process of updating its own strategic plan, starting in Fall 2025, to ensure alignment with these broader visions and missions. In concert with Georgia Tech's Focus Areas to ***Amplify Impact and Champion Innovation,*** and IAC's priority to ***Champion Impactful Research and Scholarship***, CACP continues to undertake applied research to improve the human condition, promote technology and societal progress, and anticipate and respond to future challenges. CACP also continues to ***Cultivate Well Being*** and ***Lead by Example,*** as well as ***Build Sustainable Resource Capacity*** by proactively anticipating challenges to the federal funding landscape. It will do this by continuing to diversify funding and to pursue high-priority research that is relevant, timely, and which aligns with Georgia Tech, IAC, and CACP missions and goals. While there remain great challenges ahead, the future also offers great opportunities.

Faculty & Staff	FY24 & FY25 Awards	FY24 & FY25 Proposals	FY24 & FY25 Publications
1 Research Admin 1 Admin Professional 1 Regent's Researcher 1 Regent's Emeritus 1 Postdoc Fellow 1 PRS, 1 SRS 4 RSIIs, 2 RSIs, 1 RT1 4 GRAs	**$5.23M**	**$16.46M**	**14 Journal Publications** **7 Invited Presentations** **58 Technical Reports** **11 VPATs**

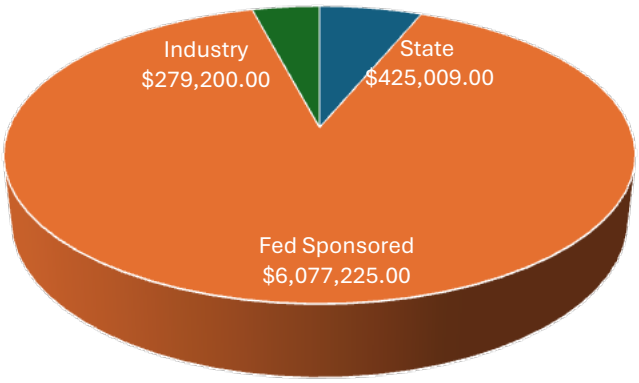
Financial Information

CACP has successfully managed it's financial portfolio during fiscal years 2024 and 2025 leveraging the state investment into sponsored programs and faculty / staff growth. The charts below provide a summary of our awards and how our state budget was managed. CACP continues to grow despite increased risk in Federal funding sources. A sustained investment in our state budget is required to sustain our growth trajectory and to continue development of junior faculty.

FY2024 Total Funding



FY2025 Total Funding



	FY2024	FY2025	FY2026 (projected)
Original Budget	$414,412	$425,009	$425,119
Salary Funds	$352,321	$360,119	$380,119
Internal Research Development Fund (established FY25)		$10,000	$10,000
Operating Supplies and Materials	$49,601	$25,000	$25,000
Travel	$12,580	$10,000	$10,000

CACP's state budget funds center administration, leadership, and technology management. State funds are also used to fund business development travel, professional development of junior employees, and technology refreshes for general computing equipment and specialized equipment located in the Human Factors Lab. This year we established an Internal Research and Development fund that sets aside a significant amount of funding to allow researchers to pursue new ideas that are likely to 1) result in a new area of research or 2) allow us to pursue a proposal opportunity that would not be feasible without completing a preliminary research project to support the proposed ideas. In-person business development is becomming increasing more important post Covid and has allowed us to mitigate, in part, the increased risk of decreasing Federal spending. We anticipate that additional travel will be required next FY to secure sponsored research. In addition, a small portion of the state budget is used to support faculty service to the institute and the profession.

Our Research Capabilities

Research activities range from foundational social science research, providing evidence-based input for policy formation and regulatory filings, to applied policy research analysis and innovation studies to inform the development, implementation and adoption of a wide range of information and communication technologies. Lab-based studies focus on the intersection of technology and the user: accessibility and usability studies, user testing and human factors analysis, all of which help industry better understand the needs of a wide range of users, especially people with disabilities, the aging, and other vulnerable populations. Training and outreach efforts are designed to increase social awareness, disseminate best practices and facilitate collaboration between critical stakeholders.

CACP cultivates social, economic and inclusive - oriented perspectives on digital technologies at the intersection of society, inclusion and policy to address a range of stakeholder needs, ranging from increasing community participation through connectivity, to technologies for supporting work and employment. Center activities provide the foundation for the assessment and analysis of issues that inform our contribution to federal rulemaking, input into public sector policy-making processes, and generation of technical guidance for business and industry.

CACP conducts impactful research in areas such as wireless access, workforce development and health / wellness. Our research spans the intersection of technology, people, and policy.

HomeLab

HomeLab provides the capability to conduct in-home research that supports the development of innovative technologies.

CDAIT

The Center for the Development and Application of Internet of Things Technologies fosters the development of Internet of Things (IoT) research and education.

Testing & Evaluation

Human Factors experts design, execute, and interpret research for the purpose of measuring the usability and accessibility of products and services.

Regulatory Filings

CACP researches and produces regulatory briefs on topics ranging from topics impacting wireless access to voting.

Workforce Development

The gig economy has impacted workers with disabilities in unique ways. We research how people with disabilities can contribute.

Design for All

We specialize in developing technologies that are usable by as many people in as many different situations as possible.

Our Team

Brad Fain
Executive Director, Center for Advanced Communications Policy

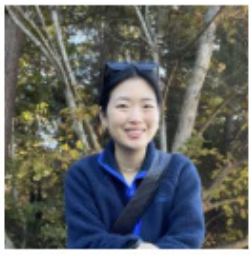
Kotryna Diktonaite
Research Technologist I

Sarah Farmer
Research Scientist II / Associate Director of Development

Emily Gleaton
Graduate Research Assistant

Boluwatife Jide-Olugbade
Graduate Research Assistant

Jordan Johnson
Research Administrative Manager I



Da Eun Kim
Graduate Research Assistant

Salimah LaForce
Senior Research Scientist / Director of Research

Adina Martinez
Research Associate II

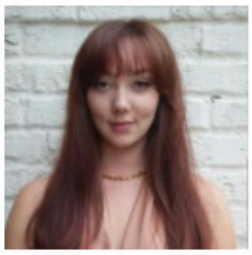
Helena Mitchell
Regents Researcher Emeritus, Center for Advanced Communications Policy

Nathan W. Moon
Principal Research Scientist / Associate Director of Operations

Rayele Moreira Dos Santos
Postdoctoral Fellow

Emily Parcell
Graduate Research Assistant

Amanda Peagler
Research Scientist II / Director of Testing and Evaluation



Brenna Phelps
Research Scientist I

Rebecca Sheiner
Research Scientist I

Jaclyn Volney
Research Scientist II

Our Publications

Andrew, P. Steratore, R., Bradley, M., LaForce, S., Woods, D., Messan Setodji, C., Hassler, G. Tierney, D., Villegas, C., Cecchine, G. Jackson, B., Story, C., Wilson, K., Ahmadi, and M., Osburg, J. (2024). Assessing Public Reach of the 2023 National Test of the Wireless Emergency Alerts (WEA) System: Results of a National Survey. Homeland Security Operational Analysis Center operated by the RAND Corporation.

Atluri, A., Phelps, B., Qin, Y., Cutts, C., Jones, B. Exploring AI Smart Home Aging-in-Place: Use Cases to Empower Individuals with MCI and Their Carepartners. AHFE 2024 Conference Proceedings Vol. 133, 2024. DOI: 10.54941/ahfe1004888

Bricout, J. C., Moon, N. W., & Oteman, Q. A. (2025). Exploring the inclusive disabled entrepreneurship ecosystem in the United States. Exploring the Inclusive Disabled Entrepreneurship Ecosystem in the United States. In Press.

Eshleman, J., Moon, N., W. Harris, F. H., & Linden, M. A. (2024). Empowering accessibility: The dynamics of assistive technology acquisition. Technology and Disability. Prepress, 1-11. DOI: 10.3233/TAD-240009.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A.& Razin, V. (2024). Survey: Accessibility of At-Home COVID-19 Tests for Users with Disabilities. medRxiv, doi: https://doi.org/10.1101/2024.08.13.24311938.

LaForce, S. and Bright, D. “Did those most vulnerable to COVID-19 in the U.S. receive timely and accessible public health information?” Proceedings of the TPRC2024 The Research Conference on Communications, Information and Internet Policy, 2024.

Linden, M., LaForce, S., Shell, G., Heller, D., and Chiodo, K. “Emergency Alerts in Many Formats Allow Access for All,” International Association of Emergency Managers Bulletin, March 2024.

Manino, R., Nehl, E., Farmer, S., Peagler, A. F., Parsell, M., Claveria, V., Gottfried, D., Chen, H., Brand, O., and Lam, W. (2023). The Critical Role of Engineering Assessments in the Rapid Development of COVID-19 Diagnostics: Lessons from the RADx Tech Test Verification Core, Science Advances, 9(14), 1-9. doi: 10.1126/sciadv.ade4962 https://www.science.org/doi/full/10.1126/sciadv.ade4962

Moon, N.W., Harris, F.H., Linden, M.A., LaForce, S., and Griffiths, P. “The Increasing Relevance of Contingent Work Practices for People with Disabilities: Findings from Qualitative and Survey Research,” Research in Social Science and Disability (RSSD) Volume 16, Disability and the Future of Work(ers). In Review.

Oliverio, A.L., Peagler, A., Mitchell, R., Martinez, A., Denham, M., Marianai, L.H., Cobb, J., Oommen, A.A., Alter, G., Anzai, M., Pang, Y., Troost, J.P., Escoffery, C., Wong, C-S. “Design of a User-Centered Electronic Health Tool for Glomerular Disease Management,” Karger Open-Access. Glomerular Dis 1. https://doi.org/10.1159/000539169 (5.3.2024)

Selected Invited Conference Presentations:

Choudhury, A. and Farmer, S. (2024). Integrating Human Factors into Microfluidic Device Design. Microphysiological Systems World Summit, Seattle, Washington.

Gleaton, E., Lucente, M., and Farmer, S. (2024). A Qualitative Evaluation of the Usability and Accessibility of Home COVID-19 Tests Among People with Disabilities. Human Factors and Ergonomic Society Annual Meeting, 68, Phoenix, Arizona.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Volney, J., Phelps, B., Kim, D., and Fain, B. (November 2024). Human Factors 101 [Breakout Session]. Atlanta Center for Engineered Point of Care Technologies (ACME POCT) SuperGLUE: Uniting Point-of-Care Diagnostic Innovators & Clinicians, Atlanta, GA.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Volney, J., Phelps, B., Kim, D., and Fain, B. (November 2024). The User Perspective [Breakout Session]. Atlanta Center for Engineered Point of Care Technologies (ACME POCT) SuperGLUE: Uniting Point-of-Care Diagnostic Innovators & Clinicians, Atlanta, GA.

Our Technical Reports

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Razin, V. GADx COVI-Go PLUS: HomeLab Internal Concept Review," Final, National Institutes of Health, GR00024606, A873129, March 2025, 14 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., and Razin, V. "Global Diagnostic Systems: HomeLab Internal Concept Review," Final, National Institutes of Health, GR00024606, A873129, March 2025, 7 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., Volney, J., and Kim, D "Global Diagnostic Systems: HomeLab Internal Concept Review," Final, National Institutes of Health, GR00024606, A873129, March 2025, 7 pages.

Farmer, S., Peagler, A.,Volney, J., and Sheiner, R. "brain4care B4C System: Internal Concept Review," Final, National Institutes of Health, GR00024419, A941773, March 2025, 14 pages.

Farmer, S., Peagler, A.,Volney, J., and Sheiner, R. "Buckley Lab MetaOx Guide: Usability Evaluation of Instructions for Use," Final, National Institutes of Health, GR00024419, A941773, March 2025, 7 pages

Farmer, S., Peagler, A., Sheiner, R., Volney, J., Phelps, B., and Kim, D. "Burst Diagnostics Strep A Test: Internal Concept Review," Final, National Institutes of Health, GR00024419, A941773, January 2025, 22 pages

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., and Kim, D. "PHASE Scientific International Limited INDICAIDTM: Preliminary Usability Report," Final, National Institutes of Health, GR00024606, A873129, January 2025, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., and Kim, D. "Healgen Heal-Check Rapid COVID-19 + Influenza A/B Antigen Test: Preliminary Usability Report," Final, National Institutes of Health, GR00024606, A873129, January 2025, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., Volney, J., and Kim, D. "Domus Diagnostics COVID-19, Flu A, Flu B, RSV Multiplex Molecular Testing Kit: HomeLab Internal Concept Review," Final, National Institutes of Health, GR00024606, A873129, November 2024, 12 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., and Razin, V., "CardieX CONNEQT Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 23 pages..

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Phelps, B., Kim, D., and Razin, V., "Caretaker VitalStream Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 11 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., Phelps, B., and Razin, V., "Dionysus Digital Health Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 15 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Razin, V., "GADx UTRiPlex Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 2 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Razin, V., "HemoSonics Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 4 pages.

Farmer, S., Peagler, A., Razin, V., Sheiner, R., Phelps, B., and Martinez, A., "MyLUA Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 14 pages.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Phelps, B., and Razin, V., "PyrAmes Bosimi Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 14 pages.

Farmer, S., Phelps, B., Peagler, A., Martinez, A., Sheiner, R., Volney, J., and Razin, V., "Sanguina AnemoCheck Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 11 pages.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Phelps, B., and Razin, V., "Sibel ANNE One Usability Report," Final, National Institutes of Health, GR00027199, A873149, August 2024, 7 pages.

Our Technical Reports

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Razin, V., "RizLab Health Inc. CytoTracker1 POC Analyzer System: Internal Concept Review," Final, National Institutes of Health., GR00024419, A941773, July 2024, 10 pages.

Farmer, S., Sheiner, R., Peagler, A., Kim, D., Martinez, A., and Razin, V. "Usability Evaluation of Plain Language Approach to Quick Reference Instructions," Final, National Institutes of Health, GR00005379, A416007, June, 2024, 92 pages.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Phelps, B., and Kim, D., "Sensible Diagnostics Rapid PCR Platform: Preliminary Usability Report," Final, National Institutes of Health., GR00024606, A873129, May 2024, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., and Phelps, B.,"Xtrava Health- SPERA COVID-19/ Flu A&B Digital Self Test: Internal Concept Review," Final, National Institutes of Health., GR00024606, A873129, August 2024, 10 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A. and, Razin, V. "RizLab Health, Inc. CytoTracker1 POC Analyzer System: HomeLab Internal Concept Review," Final, National Institutes of Health, GR00024419, A941773, July 2024, 10 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Razin, V., and Kim, D. "DiagMetrics Breathe Easy COVID-19 Home Test: Internal Concept Review, Round 2," Final, National Institutes of Health., GR00024606, A873129, May 2024, 11 pages.

Farmer, S., Peagler, A., Razin, V., Sheiner, R., and Phelps. B. "Dionysus Digital Health, Inc. Modible App: Preliminary Usability Report," Final, National Institutes of Health, GR00027199, A873149, April 2024, 14 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., Martinez, A., Egan, J., Kim, D., and Razin, V., "Global Diagnostic Systems insightTM COVID-19 Rapid Home Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, March 2024, 17 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., and Egan, J. "Aegirbio: Internal Concept Review," Final, National Institutes of Health., GR00020455, A416007, March 2024, 8 pages.

Farmer, S., Peagler, A., Sheiner, R., Razin, V., Martinez, A., and Phelps, B.,"Maxim Bio FiarFly COVID & Flu A+B Home Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, March 2024, 17 pages.

Farmer, S., Peagler, A., and Sheiner, R. "SimplifiDx: Internal Concept Review, Round 2," Final, National Institutes of Health., GR00020455, A416007, February 2024, 6 pages.

Farmer, S., Peagler, A., Razin, V., Sheiner, R., and Phelps. B. "MyLUA Web Application: Internal Concept Review," Final, National Institutes of Health, GR00027199, A873149, February 2024, 10 pages.

Farmer, S., Peagler, A., Razin, V., Sheiner, R., and Phelps. B. "CardieX CONNEQT: Internal Concept Review," Final, National Institutes of Health, GR00027199, A873149, February 2024, 17 pages.

Farmer, S., Peagler, A., Sheiner, R., Phelps, B., and Razin, V. "Prominex: Internal Concept Review," Final, National Institutes of Health., GR00020455, A416007, February 2024, 8 pages.

Farmer, S., and Sheiner, R. "SimplifiDx: Internal Concept Review," Final, National Institutes of Health., GR00020455, A416007, February 2024, 3 pages.

Farmer, S., Peagler, A., Sheiner, R., and Phelps, B.,"Wondfo WELLlife COVID-19/Influenza A&B Test: Preliminary Usability Report," Final (version 2), National Institutes of Health., GR00020455, A416007, February 2024, 11 pages.

Farmer, S., Peagler, A., Sheiner, R., and Phelps, B.,"Wondfo WELLlife COVID-19/Influenza A&B Test: Preliminary Usability Report," Final (version 2), National Institutes of Health., GR00020455, A416007, February 2024, 11 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"OraSure Technologies, Inc. InteliSwab COVID-19 + Flu A & B Antigen Rapid Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, January 2024, 13 pages.

Our Technical Reports

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"LumiQuick Diagnostics, Inc. Quick Profile COVID-19/Influenza A & B Antigen Combo Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, January 2024, 11 pages.

Farmer, S., Peagler, A., Sheiner, R., and Phelps, B.,"Cubitdx COVID-19/Flu A + Flu B Home Test: Internal Concept Review," Final, National Institutes of Health., GR00020455, A416007, December 2023, 9 pages.

Farmer, S., Peagler, A., Sheiner, R., and Phelps, B.,"DiagMetrics Breathe Easy COVID-19 Home Test: Internal Concept Review," Final, National Institutes of Health., GR00020455, A416007, December 2023, 10 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"GenBody Influenza/COVID-19 Ag Triple Home Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, December 2023, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"AccessBio CareSuperb COVID-19/Flu A&B/RSV Antigen Combo Home Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, December 2023, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"iHealth COVID-19/Flu A&B Rapid Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, November 2023, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"Wondfo WELLlife COVID-19Influenza A&B Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, November 2023, 14 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"Mologic Usability Evaluation," Final, National Institutes of Health., GR00020455, A416007, November 2023, 9 pages.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., and Phelps. B. "AnemoCheck: Internal Concept Review," Final, National Institutes of Health, GR00027199, A873149, October 2023, 11 pages.

Farmer, S., Peagler, A., Martinez, A., Sheiner, R., and Phelps. B. "PyrAmes Bosimi Band and App: Internal Concept Review," Final, National Institutes of Health, GR00027199, A873149, October 023, 9 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., Phelps, B., and Lucente, M., "Healgen Heal-Check Rapid COVID-19 + Influenza A/B Antigen Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, October 2023, 14 pages.

Farmer, S., Peagler, A., Martinez, A., and Sheiner, R., "aRMOR System: Initial Concept and Wireframe Review," Final, National Institutes of Health, GR00027199, A873149, September 2023, 6 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Phelps, B.,"Aptitude Metrix Reader: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, September 2023, 16 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., Phelps, B., and Lucente, M., "Azure Biotech, Inc. FaStep COVID-19 Antigen Pen Home Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, September 2023, 12 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Lucente, M., "Meridian Rapid COVID-19/Flu A&B Antigen Self-Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, September 2023, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and Lucente, M., "Sekisui Osom Flu SARS-CoV-2 Combo Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, August 2023, 13 pages.

Farmer, S., Peagler, A., Sheiner, R., Martinez, A., Phelps, B., and Lucente, M., "Azure Biotech, Inc. FaStep COVID-19 Antigen Pen Home Test: Preliminary Usability Report," Final, National Institutes of Health., GR00020455, A416007, August 2023, 12

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Thank You

Contact Us

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