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SciTech Scity's Healthcare Innovation Engine and RWJBarnabas Health Partner to Transform Cardiac and Post-ER Care

- *Biobeat's first-of-its-kind, FDA-approved cuffless blood pressure patch for 24-hour in-home monitoring initiates real-world application with premier academic health system*
- *Dimer Health to provide 500 uninsured patients with comprehensive ER discharge support via groundbreaking new telehealth model*

JERSEY CITY, N.J., July 15, 2025 — The collaboration between RWJBarnabas Health and SciTech Scity represents a new model for health innovation ecosystems, where clinical excellence meets entrepreneurial ingenuity in a real-world testbed. By embedding pilot programs within a premier academic health system, the partnership enables rapid iteration, real-time feedback, and data-informed scaling of promising technologies.

RWJBarnabas Health and SciTech Scity's Healthcare Innovation Engine are set to administer the first FDA-approved cuffless blood pressure patch designed for continuous 24-hour monitoring—even during sleep—to support more accurate diagnoses and personalized treatment.

The Biobeat cuffless blood pressure patch program is one of two groundbreaking pilot initiatives emanating from the Healthcare Innovation Engine at SciTech Scity, the 30-acre “city of tomorrow” developed by Liberty Science Center in Jersey City. The Healthcare Innovation Engine aims to transform healthcare delivery for patients, families, and caregivers by working with digital-health startup companies to address critical gaps in care.

Created in collaboration with RWJBarnabas Health as part of its multi-year partnership with Liberty Science Center's SciTech Scity, the two pilots exemplify the Engine's mission to support emerging technologies and bring about cutting-edge solutions that are practical,

patient-centered, and responsive to real-world challenges in our healthcare system, according to Liberty Science Center President and CEO Paul Hoffman.

"We are revolutionizing how healthcare systems collaborate with innovators by addressing these unique challenges and setting the stage for a more equitable and effective healthcare system," said Hoffman. "These pilots in Jersey City represent a significant step forward in creating scalable, digital-first care pathways that have the potential to reshape the future of healthcare delivery. Moreover, they personify SciTech Scity's mission to help grow new companies that use science and technology for public good."

The second pilot, with Dimer Health, implements a physician-led telehealth clinic approach to post-ER care, with a specific focus on uninsured patients who historically lack established care pathways and consistent access to providers. Also being conducted in conjunction with Jersey City Medical Center, it aims to bridge the care gap in the 30 days following ER discharge, which is the most vulnerable period for patients.

"At the core of our mission is a commitment to reimagining healthcare so it works better for everyone—especially those historically left behind," said Michael Prilutsky, Executive Vice President, Chief Executive Officer of RWJBarnabas Health Medical Group. "These innovative pilots go beyond addressing immediate clinical challenges, such as chronic hypertension and post-discharge care for patients. By supporting scalable, patient-centered solutions, we are helping to close systemic gaps and build a more connected, compassionate, and data-driven future for care delivery. These are not just pilots—they're the foundation for a new standard in healthcare."

Pilot 1: Redefining Hypertension Diagnosis – A Study on Continuous Blood Pressure Monitoring with Wearable Tech

Biobeat, a med-tech leader in hypertension diagnostics and treatment, is transforming ambulatory blood pressure monitoring (ABPM) with the first FDA-approved, cuffless blood pressure patch.

By replacing traditional, cumbersome devices with a simple, wearable patch equipped with a non-invasive sensor, Biobeat enhances patient compliance and ease of use. Its AI-powered platform generates a detailed report immediately after testing, providing clinicians with real-time insights for more accurate diagnoses and improved patient outcomes.

The program is being conducted in conjunction with Dr. Kimberly Skelding, Division Chief of Cardiovascular Services for Jersey City Medical Center and Dr. Pragnesh Gadhvi, who oversees the Hypertension Program at Jersey City Medical Center.

Pilot 2: Revolutionizing Post-Discharge Care – A Study on Telehealth-Driven Recovery for Underserved Patients

Through the implementation of Dimer Health's transformative, physician-led telehealth clinic approach to post-medical discharge care, this pilot is designed to reduce hospital readmissions and emergency department returns by 30% and address an incredibly critical gap in discharge care. The first 30 days following ER discharge are the most vulnerable period for patients, with a heightened risk of complications, readmissions, and preventable emergency visits. This pilot focuses on bridging that high-risk window with continuous, accessible virtual care, ensuring patients receive timely follow-up, monitoring, and intervention when it matters most.

The pilot with Jersey City Medical Center will have a specific focus on uninsured patients who historically lack established-care pathways and consistent access to providers. Over the course of 6 months, some 500 patients at Jersey City Medical Center will receive aggressive monitoring, personalized communication, and a range of clinical services including medication reconciliation, dietary consulting, lab studies, and bridge care to specialists.

For Caroline Hodge, CEO and Co-Founder of Dimer Health, this partnership with SciTech Scity is more than an initiative—"it's a lifeline for vulnerable patients. For too long, our healthcare system has left its most vulnerable patients—those without resources, without insurance, and without strong support systems—struggling to navigate care alone. That ends now. With Dimer Health's real-time, proactive and ongoing care, SciTech Scity's innovation network, and RWJBH's clinical leadership, we're proving that no patient should have to fight for access to the care they need. This partnership isn't just about bridging gaps in healthcare—it's about building a system that works for everyone."

"We see a significant gap between digital health's potential to transform healthcare and its actual implementation in everyday care," said Alexander Richter, Executive Director of SciTech Scity. "These pilots are about more than just testing new technologies—they are about proving that innovative, digital-first approaches can truly improve patient outcomes, lower costs, and create scalable models of care. Through these efforts, we are not only advancing patient care but also establishing New Jersey as a national test bed for digital-first healthcare, accelerating the growth of this emerging industry in the state."

What's Next

In its next wave of pilots planned to launch in 2025, the Healthcare Innovation Engine will extend innovations to other areas of care beyond cardiovascular health, fostering agility and responsiveness to emerging healthcare needs such as the mental health crisis and rising cancer rates. The Engine is poised to address the distinct care needs of underserved patients who often face higher rates of comorbidities and mental health challenges. Focusing on more than one area at a time allows the Engine to remain more agile and responsive to emerging needs and opportunities.

ABOUT RWJBARNABAS HEALTH

RWJBarnabas Health is New Jersey's largest and most comprehensive academic health system, caring for more than five million people annually. Nationally renowned for quality and safety, the system includes [14 hospitals](#) and 9,000 affiliated physicians integrated to provide care at more than 700 patient care locations.

RWJBarnabas Health partners with its diverse communities to build and sustain a healthier New Jersey. It provides patient-centered care in a compassionate and equitable manner and is the state's largest safety-net provider and leader in addressing the social determinants of health. RWJBarnabas Health provides food to the hungry, housing for the homeless and economic opportunities to those most vulnerable.

RWJBarnabas Health's commitment to enhancing access to care includes a transformative partnership with Rutgers University, including the Rutgers Cancer Institute — the state's only NCI-designated Comprehensive Cancer Center, and Rutgers Robert Wood Johnson Medical School.

RWJBarnabas Health is among New Jersey's largest private employers, with more than 44,000 employees, contributing more than \$5.5 billion to the state economy every year. For more information, visit www.RWJBH.org.

ABOUT THE SCITECH HEALTHCARE INNOVATION ENGINE

The SciTech Healthcare Innovation Engine, launched in February 2024, is a first-of-its-kind public-private partnership dedicated to transforming healthcare by accelerating the adoption, reimbursement, and scaling of digital-first care solutions. Unlike traditional innovation hubs, the Engine ensures that cutting-edge technologies move beyond pilots to full clinical integration, providing a structured, real-world pathway to improve patient outcomes. By bringing together health systems, payers, policymakers, and innovators from day one, the Engine eliminates silos that typically slow healthcare adoption.

At its core, the Engine is focused on helping the people of New Jersey—particularly the communities that need it most. By prioritizing vulnerable and underserved populations, the Engine is ensuring that digital health innovations expand access to care, reduce disparities, and create more equitable healthcare solutions. This effort is made possible through a multistakeholder coalition including RWJBarnabas Health, Bristol Myers Squibb, EY, Nokia Bell Labs, Princeton University, New Jersey Innovation Institute, Israel's Sheba Medical Center, and key government agencies such as the NJ Economic Development Authority, NJ Department of Health, NJ Department of Human Services, and Jersey City Department of Health and Human Services.

Through this unique collaboration, the Engine is positioning New Jersey as the nation's testbed for scaling digital-first care, creating scalable, evidence-based models that can be replicated nationwide to improve healthcare access, quality, and affordability—ensuring that all patients, regardless of income or background, receive the care they deserve.

ABOUT SCITECH SCITY

Liberty Science Center is developing a “Science City of Tomorrow” in Jersey City—a 30-acre innovation campus called SciTech Scity devoted to using science and technology to address humanity’s greatest challenges, from healthcare deficiencies to climate change, and create a better future for all of us. The new campus, including the existing Liberty Science Center, home of the largest planetarium in the Western Hemisphere, will be officially named the Frank J. Guarini Innovation Campus and start to open in 2026.

SciTech Scity will include \$450 million of new construction: Liberty Science Center High School, a new public magnet STEM high school built by the Hudson County Improvement Authority and operated by the Hudson County Schools of Technology; Edge Works, an eight-story business creation center with laboratories, R&D spaces, office suites, co-working spaces, a tech exhibition gallery, and a state-of-the-art conference center; Scholars Village residential housing built and operated by Alpine Residential for tech-forward individuals and families; and Public Commons, three acres of community outdoor space for art installations, food trucks, performances, farmers markets, science festivals, and maker fairs.

Learn more at SciTechScity.com.

ABOUT LIBERTY SCIENCE CENTER

Liberty Science Center (LSC.org) is a 300,000-square-foot, not-for-profit learning center located in Liberty State Park on the Jersey City bank of the Hudson near the Statue of Liberty. Dedicated to inspiring the next generation of scientists and engineers and bringing the power, promise, and pure fun of science and technology to learners of all ages, Liberty Science Center houses the largest planetarium in the Western Hemisphere, 11 museum exhibition halls, a live animal collection with 110 species, giant aquariums, a 3D theater, live simulcast surgeries, a tornado-force wind simulator, K-12 classrooms and labs, and teacher-development programs. More than 250,000 students visit the Science Center each year, and tens of thousands more participate in the Center’s off-site and online programs. Welcoming more than 750,000 visitors annually, LSC is the largest cultural institution in New Jersey and the largest interactive science center in the NYC-NJ metropolitan area.

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