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HENRY FORD HEALTH SYSTEM ANNOUNCES ARTIFICIAL INTELLIGENCE CHALLENGE WINNER IN ISRAEL

Detroit Jan. 22, 2018 – An Israeli startup specializing in neurological disorders is the winner of [Henry Ford Health System’s](#) first ever artificial intelligence (AI) challenge. [Montfort](#) (Mon4T) has developed a real-time brain monitor that uses smartphone technology to conduct, record and analyze data from tests for patients with various neurological disorders.

[Henry Ford Innovations](#), the multi-disciplinary team responsible for leveraging Henry Ford’s intellectual property, issued the challenge last fall as part of its Global Technology Development Program now underway in Israel. Backed by a generous grant from William Davidson Foundation, the program is designed to identify cutting-edge healthcare technologies from Israel and co-develop and launch them in the U.S. healthcare market. Montfort was chosen from a pool of nearly 50 applicants.

“Henry Ford has long been an international leader in neurosciences research and treatment and that makes Montfort a great fit for this challenge,” said Scott Dulchavsky, M.D., Ph.D., CEO of the Henry Ford Innovation Institute and Chairman of Surgery and Surgeon in Chief at Henry Ford Hospital. “Our physicians are excited to partner with them toward AI and machine learning solutions that will ultimately benefit our patients.”

Available for both iOS and Android, Montfort’s master application uses the smartphone’s integral sensors including accelerometers, gyroscopes, and touchscreen to record and analyze patient data from a panel of neurological tests for patients with conditions like Parkinson’s disease and Normal Pressure Hydrocephalus (NPH). This information is processed through machine learning paradigms to answer questions working through large data sets. Montfort’s application is available in two versions: a clinical app for use by the patient’s care team and a home or consumer version, in which patients can use their own smartphones to perform some of the tests.

[Peter LeWitt, M.D.](#), Director of the Parkinson’s disease and Movement Disorders Program at Henry Ford Hospital, said these applications have a lot of promise for research and improved clinical care. “For patients with movement disorders, we are in need of multi-modality data analysis to enhance clinical decisions and reports from patients. Machine learning applications offering such detailed and unbiased analysis have the potential to guide understanding of movement disorders that even a trained clinician might miss – and that could greatly advance our capabilities for both diagnosis and treatment.”

“It’s also about improving efficiency, something of which we are always mindful,” said Mark Coticchia, Vice President and Chief Innovation Officer for Henry Ford Health System. “If we can come to depend on machine learning solutions to ease the burden involved with a lot of these routine tests and diagnostics, then that leaves more time for patient care.”

As the winner of the AI Challenge, Montfort will receive funding up to \$75,000 to sponsor research and clinical development of its breakthrough technology at Henry Ford. Additionally, Montfort may continue to benefit from access to notable Henry Ford mentors and subject matter experts to navigate development factors that are critical for widespread clinical adoption.

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About Henry Ford Health System and Henry Ford Innovations

Henry Ford Health System is a six-hospital system headquartered in Detroit, Michigan. It is one of the nation's leading comprehensive, integrated health systems, recognized for clinical excellence and innovation. Henry Ford Health System provides both health insurance and health care delivery, including acute, specialty, primary and preventive care services backed by excellence in research and education. Henry Ford Health System is led by President & CEO Wright Lassiter III. Visit HenryFord.com to learn more.

Established in 2011, Henry Ford Health System Innovations engineers the future of healthcare through identifying and commercializing the health system's technologies and know-how. Its main arms include Research and Education, Technology Management, Corporate Innovation, and International Programs. To learn more, visit HenryFord.com/About/Innovations.