



HEALTH ESPRESSO INNOVATION HIGHLIGHT



COMPANY OVERVIEW

Health Espresso is a patient-centered, collaborative Inter-professional Virtual Health Record (IPVHR). A free mobile app, available on both iOS and Android, provides physicians with real-time patient vitals data for informed decision making leading to better outcomes. Patients are also empowered to self-manage their own health. Their secure and private in-cloud platform connects allied health professionals and enables health care providers to virtualize their practice to make informed decisions at the point of care. Health Espresso is video capable enabling virtual appointments. An Ontario Tele-Health Network (OTN) certification is pending.

LOCATION: OAKVILLE, ON

TECHNOLOGY



Data Centre and Cloud

SHRINKING FUNDING, COMPLEX HEALTH CARE AND AN AGING POPULATION

Our population is not only aging but increasingly our health system is encountering complex care patients. With shrinking health funding, in 2019, the Ontario government launched Ontario Health Teams (OHTs) to restructure the delivery of care to a community-based model. The COVID pandemic highlighted that communication gaps that exist between health care teams in local communities can have detrimental effects on patient care like inefficient care, service gaps and the duplication of efforts. The absence of connected, collaborative post-discharge remote patient monitoring can result in preventable critical events leading to hospital (re)admissions and overcrowding in hospitals (also known as “hallway medicine”).

CONNECTING HEALTH PROFESSIONALS AND PATIENTS

Health Espresso connects health professionals in a secure environment to collaborate on a ‘one patient, one record, one care plan’ platform to prevent service gaps and duplication. Integration with digital provincial assets such as lab and hospital reports, and physician electronic medical records provide a Digital Patient Profile that can be shared for higher efficiencies among care teams. The connected mobile app and in-cloud portal provide real-time access to patient data, and video visits enabling remote patient monitoring and virtual care to empower physicians to make informed decision at point of care for better outcomes. 67,000 Patients in Durham Region are enrolled to Health Espresso.

STRESS TESTING THE HEALTH ESPRESSO PLATFORM AND SCALABILITY IMPROVEMENTS

Leveraging the CENGN Testbed, Health Espresso successfully validated that their platform could scale to their targeted user count of 1000 with low infrastructure utilization and low error rates. Health Espresso also identified future areas of improvement to further improve their platform’s scalability in the cloud beyond their current targets.

“The testing offered us valuable insights into optimizing the baseline architecture resources for frontend, backend, and the data storage layer of our application.”

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