

QUALCOMM TRICORDER XPRIZE

TEAM SHEET



"Our company is at the forefront of a new era of consumer medical technology. An entirely new market is emerging that engages consumers and puts them in the driver's seat. Our device is smart and simple, giving people the help and answers they need when they need them the most."

– Basil Harris



FINAL FRONTIER MEDICAL DEVICES

HEADQUARTERS: Paoli, Pennsylvania, USA

TEAM WEBSITE: www.basilleaftech.com

TEAM LEADER: Basil Harris

TECHNICAL INNOVATION

Basil Leaf Technologies is developing DxtER (pronounced Dexter), a portable, consumer-level device capable of collecting and interpreting large amounts of data to accurately diagnose specific medical conditions, providing users with real-time insight regarding their health, and guiding them to appropriate action. There is nothing like it in existence and we believe it will change the face of healthcare.

DxtER was created based on years of experience in emergency medicine and reaches a diagnosis the same way as is done in clinical medicine. Facing a constant influx of patients in the Emergency Department, ER doctors cannot afford to make patient evaluations overly complicated. Our team deconstructed the diagnostic process for 22 medical conditions and then replicated these processes within our device's diagnostic engine (DxtER's "brain").

The artificial intelligence of the diagnostic engine behind DxtER is based on real medical data. The algorithms were formulated by drawing on over 12 years of experience in clinical emergency medicine and further refined based on analysis of actual patient charts. Affiliation with the Lankenau Institute for Medical Research affords us access to 4 acute care hospitals with more than 170,000 Emergency Department visits annually. We have concluded a matched case-control study evaluating the ability of our device to independently diagnose 16 conditions and are approved for a prospective, multi-round, pilot clinical diagnostic trial in an Emergency Department setting.

ABOUT OUR TEAM

Final Frontier Medical Devices formed specifically for the Qualcomm Tricorder XPRIZE. The team includes physicians, engineers, designers, health policy experts, mobile technology and sensor professionals who are passionate about revolutionizing healthcare.



ABOUT OUR TEAM LEADER

Drawing on years of experience as an Emergency Department physician, Basil Harris understands how the U.S. healthcare system is on an unsustainable course, rife with disjointed, uncoordinated care, added costs from unnecessary or duplicative medical testing, and little opportunity for patients to be meaningfully engaged in their own health.

ABOUT THE PRIZE

The Qualcomm Tricorder XPRIZE is a \$10 million global competition to stimulate innovation and integration of precision diagnostic technologies, helping consumers make their own reliable health diagnoses anywhere, anytime. Putting healthcare in the palm of your hand.

qualcommtricorderxprize.org