The Problem

- 4-8% of adults without prior symptoms are at risk of heart failure.¹
- 84% mortality in men and 77% in women² within 6 years after onset of heart failure.

The Solution

HEMAOTAG brings high-value cardiac function assessment to primary and urgent care. The easy-to-use, wireless design allows rapid diagnosis of left ventricular dysfunction. Sensor data is automatically sent to a HIPAA-compliant cloud and analyzed with machine-learning algorithms. Electronic patient reports are generated and made available to the care team within seconds.

HOW IT WORKS:

1. Patients with non-specific symptoms are evaluated in urgent or primary care settings. The device is easily and rapidly applied to the patient’s chest.
2. With the patient resting, the HEMAOTAG app initiates the assessment. An audible signal indicates the end of the process.
3. HEMAOTAG’s HIPAA-compliant cloud uses machine learning algorithms to analyze the data and generate an electronic report.
4. The physician reviews the HEMAOTAG report and assesses if a referral to a cardiologist is indicated or if heart function is normal.

HEMAOTAG saves lives by allowing faster, more detailed evaluation of cardiac function in patients with non-specific symptoms.

The Opportunity

- Acquire measurement of LV function comparable to the gold standard echocardiogram
- Diagnose left ventricular dysfunction in primary and urgent care settings
- AI-driven, cloud-based algorithms automatically provide unambiguous diagnoses
- Empower non-cardiologists to diagnose heart disease early
- Reduce false-negative diagnoses, prevent unnecessary cardiac events

The Company

- $3.7M SBIR grants (NIH, NSF, DARPA, US ARMY)
- 40 under 40 company
- 2018 & 2019 Defense Innovation Award
- 3 granted patent, 5 US filed and 2 International PCTs
- 400+ patient clinical validation and 14 abstract publications
- Established medical device contract manufacturing and quality management system
- FDA Class II 510(k) clearance expected in 2020

“Aventusoft’s technology has the opportunity to become an important tool for patients for home monitoring, pre-hospital caregivers as well as for emergency and inpatient bedside diagnosis and monitoring.”

Dr. Kenneth Scheppke
(Medical Director, EMS, Palm Beach County, FL)

“Love the simple design. So much easier than the ECG monitor.”

Marcia Garcia
(Physician Assistant, Florida Cardiology Clinic, Atlantis, FL)

EXECUTIVE TEAM:

Kaustubh Kale
Founder & CEO
National Minority Health 40 under 40, S. Florida 40 Under 40, Becker's Healthcare Rising star leader under 40, U. Florida highest Award for Leadership, 5 Patents, 10 yrs exp. at Motorola Inc generating multi-million in revenue

Zaffer Merchant
Chief Product Officer
26+ yrs product development experience at Motorola Inc, 5+ yrs Director Handset Engineering at Nextel International, Motorola Fellow and Innovator with 22 Patents

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Principal Investigator for Clinical Studies
27 yrs Cardiology exp., Harvard Medical School, Brigham and Women's Hospital, Henry Ford, University of Miami, JFK hospital, over 100 publications