**Sense**
Neuro Diagnostics

**ONE TECHNOLOGY, THREE PRODUCTS**
Nine antennae transmit a low-power radiofrequency (RF) pulse through the head.
- Healthy brain, hemorrhage, and ischemic tissue have unique electrical properties that react to the signal in a signature way.

One scan collects 360 datapoints across entire cranial vault in seconds.

Algorithm interprets the signals to detect:
- Hemorrhagic TBI and stroke, by subtype, in a pre-hospital environment
- Suspected hemorrhage expansion in existing brain injury

**COMPANY OVERVIEW**
Non-traditional, diagnostic company developing technology to triage and assess neurological conditions in real-time, non-invasively.

**DETECTING HEMORRHAGE**
1. Neural Network analyzes 360 datapoints
   - Output “Bleed Yes” vs “Bleed No”
2. Detection Algorithm finds antennae behaving more abnormally than others (orange on image to right)
   - Outputs which antennae are above threshold

**Combined Algorithm 99% accurate for blood volumes greater than 2cc**

**MONITORING FOR EXPANSION**
Hemorrhage volume 41 cc at baseline (t=0). Expanded to 48 cc by 1250 minutes. NeuSTAT monitoring would have alarmed at 500 minutes.

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**NeuSTAT™**
Hospital Monitor for Intracranial Hemorrhage (ICH)
Monitors for suspected hemorrhage expansion
Enrolling in clinical study for FDA approval
User Interface on control unit connected to IV pole
Rigid, disposable Headset
Reusable Control Unit
- Improved patient outcomes
- Lower cost of care
- Reduced ICU Stay: *4K-8K/patient day

**NeuroHawk™ EMS**
Emergency Room and EMS for Hemorrhage Detection and Stroke Subtype Differentiation
Detects presence of intracranial bleeding or ischemic stroke with large vessel occlusion
Beginning Clinical study for FDA approval Q1 2023
User Interface on a Mobile Application
Flexible, disposable Headset / Reusable Control Unit
- ED screening identifies critical patients
- Helps triage patients to correct hospital
- Improved patient outcomes
- Mitigates risk exposure to hospital/EMS

**NeuroHawk™**
Military Device for Detection and Monitoring of hemorrhagic TBI in Role 1 Environment
Detects and monitors for intracranial bleeding following TBI
Developing prototype with DoD contract through MTEC
User interface is 3 LED lights (Red, Green, Yellow)
Light-weight, flexible, and disposable Headset
Reusable Control Unit / Data stored in Headset for monitoring through continuum of care
- Identifies warfighters in need of intervention