G-Tech to Present Data at Digestive Disease Week Meeting

*Researchers Employ GutCheck System in Effort to Correlate Myoelectric Activity with Specific Digestive Organs*

MOUNTAIN VIEW, Calif (PRWEB) May 20, 2016 -- G-Tech Medical, a medical device startup developing non-invasive diagnostic solutions for patients with gastrointestinal dysfunctions and disorders, today announced that it has been invited to present two posters at Digestive Disease Week (DDW) 2016, taking place May 21st – 24th at the San Diego Convention Center. DDW is the world’s largest gathering of experts in gastroenterology, hepatology, endoscopy and gastrointestinal surgery.

The poster by Dr. Anand Navalgund, Senior Scientist at G-Tech, is entitled Distinctive Electrical Signal Patterns Recorded at the Abdominal Surface in Subjects with Gastroparesis and Gastroesophageal Reflux Disease. The goal of this study was to determine if any patient diagnoses, in aggregate, map to specific signal patterns. Dr. Navalgund concluded that mean peak profile patterns observed for the subjects with gastroparesis display low pre- and postprandial motor activity in both the stomach and small intestine. In reflux patients, two distinct behavior patterns were observed in the stomach and small intestine. These results show promise for the ability in the future to diagnose gastroparesis and reflux etiology with the GutCheck System.

The poster by Lindsay Axelrod, who worked with the company in 2015 as a Fogarty Institute for Innovation summer intern, is entitled Spatial Localization of Surface-Measured Rhythmic Myoelectric Signals From Stomach, Small Intestine and Colon. The goal of this study was to determine the preferred locations on the abdomen to deploy wireless patches in order to maximize signal quality from the stomach, small intestine and colon. She concluded that signal distributions for the stomach signal exhibit preferential localization, but those for the small intestine and colon do not display a consistent trend in spatial distribution across many subjects.

“We are very excited about the opportunity to report on the progress of our work with the GutCheck system at DDW,” said G-Tech CEO Steve Axelrod, PhD. “It would be clinically valuable to measure motility non-invasively in fully ambulatory patients over a period of several days, particularly if the results were specific to each of the major digestive organs. The goal of both of these projects was to support efforts to correlate the electrical activity being recorded by the GutCheck System with specific digestive organs.”

Currently in proof-of-concept testing, G-Tech Medical’s wireless, disposable electrode patches measure the electrical activity from the stomach, small intestine and colon. Data from the patches is transmitted via smartphone to the cloud, processed by G-Tech’s analytical tools, and sent to the physician. The physician can review the data patterns in an effort to diagnose functional gastrointestinal disorders, potentially eliminating more expensive and invasive diagnostic examinations.

“These are small but important steps forward in our efforts to characterize digestive signals and improve our ‘EKG for the gut,’” said Dr. Axelrod. “As the world’s largest GI conference, DDW is highly competitive. Getting two posters accepted at this key conference is another positive indicator that our work is being recognized within the GI community. The fact that both posters were selected for the Young Investigator Competition is especially gratifying.”

About G-Tech Medical

G-Tech Medical, Inc. is an early-stage medical device company dedicated to developing non-invasive
diagnostic solutions for patients with gastrointestinal disorders and dysfunctions. G-Tech’s wearable patch-based “EKG for the Gut” is a platform technology that will initially be used following abdominal surgery to help predict post-op ileus and speed recovery. The company is headquartered at the Fogarty Institute for Innovation, 2490 Hospital Drive, Suite 310, Mountain View, CA 94040. For further information, please visit www.GTechMedical.com or email info(at)gtechmedical(dot)com.

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