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Singapore explores use of novel respiratory monitor to detect lung sound abnormalities

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The study builds on Aevice Health's research collaboration with A*STAR Singapore to develop a predictive model for asthma attack among children



Aevice Health, Singapore-based MedTech company dedicated to improving the lives of 545 million people with chronic respiratory disease, and the National University Health System (NUHS) have announced the launch of a study to use a novel respiratory monitor to detect lung sound abnormalities.

The study, coordinated and facilitated by the NUHS Centre for Innovation in Healthcare (CIH), will investigate the use of Aevice Health’s proprietary wearable, the AeviceMD, in detecting wheezing in paediatric patients with breathing difficulties at the National University Hospital (NUH).

Recruitment of study participants begun in September 2021 and the study is expected to conclude by the second quarter of 2022.

The AeviceMD is a wearable respiratory monitor that detects and records chest sounds remotely and continuously. The chest sounds are then analysed and translated into heart rate and respiratory rate measurements, while abnormalities such as wheezing are flagged.

Barely bigger than a US half-dollar coin and weighing less than 10 grams, the AeviceMD combines extremely comfortable and child-friendly form factor with highly accurate, longitudinal patient data to provide a new standard for remote patient monitoring.

Concurrently, the company is working towards conducting research and development on a predictive model for asthma attack among children using continuous measures from a wearable device.