

Thai device tests for coronavirus in armpit sweat

September 9 2021



The scientists adapted a device usually used to detect toxic chemicals in the environment.

For Bangkok market sellers, the armpit sweat soaking their T-shirts during the humid monsoon season may contain subtle signs of

coronavirus infection, local scientists have said.

Thai researchers are developing a sweat-based mobile virus detector, and road-tested it on shopkeepers at a Bangkok food market this week.

"From the samples, we found that people infected with COVID-19 secrete very distinct chemicals," said Chadin Kulsing from Bangkok's Chulalongkorn University.

"We used this finding to develop a device to detect the specific odors produced by certain bacteria in the sweat of COVID-19 patients.

Chadin—who said the test was 95 percent accurate—hopes it might be rolled out as an affordable alternative to more expensive swab tests that require lab processing.

It is however still in the development stage, and the research behind it is yet to be published or peer-reviewed.

The scientists adapted a device usually used to detect [toxic chemicals](#) in the environment.

Subjects place a [cotton swab](#) under their arms for 15 minutes, before the swab is put in a glass vial and sterilized with UV rays.

"The technician then draws an appropriate amount of the sample using a suction hose, and pressurizes it into the analyser to check the results," Chadin said.



Chadin hopes the device might be rolled out as an affordable alternative to more expensive swab tests.



Vendors take sweat-covered testing swabs from under their clothing.



Researchers test sweat samples from vendors on the market.

Sample collection takes 15 minutes and the results are ready in 30 seconds.

The sweat tests received the thumbs-up from Bangkok market vendors, who said it was much more pleasant than nostril swab tests.

"This [sweat](#) test is more convenient because I get to work while waiting for the results," a 43-year-old watermelon seller told AFP.

"With the PCR [test](#), I'd have to be at a testing center, sit and wait for the result and it just wastes my time."

Thailand, battling its third and worst COVID wave, reported 16,000 new cases Thursday, taking the total since the start of the pandemic to nearly 1.34 million.

© 2021 AFP

Citation: Thai device tests for coronavirus in armpit sweat (2021, September 9) retrieved 27 April 2024 from <https://medicalxpress.com/news/2021-09-thai-device-coronavirus-armpit.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.