Intraoral sodium sensor aims to simplify hypertension management

By DTI

ATLANTA, U.S.: Many people have acquired a taste for high-salt foods, which, over the years, may result in health issues related to high blood pressure. Monitoring salt consumption can help patients suffering from hypertension and certain other conditions to minimize the symptoms. In order to do that, researchers from the Georgia Institute of Technology have developed a flexible and stretchable intraoral wireless sensing system—which resembles a dental retainer—to measure the amount of sodium the wearer consumes.

NEW!

Intraoral sodium sensor aims to simplify hypertension management

“The sensor is comfortable to wear, and data from it can be transmitted to a smartphone or tablet. Eventually the information could go to a doctor or other medical professional for remote monitoring.”

Yeo and his team are currently working on improving the device by further miniaturizing it, aiming for the eventual size of a tooth, and testing it with users who have the relevant medical conditions, such as hypertension, obesity or diabetes.

The study, titled “Wireless, intraoral hybrid electronics for real-time quantification of sodium intake toward hypertension management,” was published in the Proceedings of the National Academy of Sciences of the United States of America in May 2018.