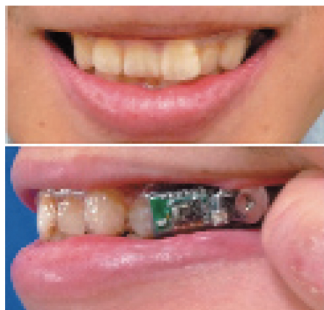


Mouthguard biosensor with telemetry system for monitoring saliva glucose



Kohji Mitsubayashi at Department of Biomedical Devices and Instrumentation, Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, and co-workers have developed a detachable “Cavitas sensor” to apply to the human oral cavity for non-invasive monitoring of saliva glucose. In artificial saliva composed of salts and proteins, the glucose sensor is capable of highly sensitive detection over a range of 5–1000 $\mu\text{mol/L}$ of glucose, which encompasses the range of glucose concentrations found in

human saliva. It is suggested the sensor will be useful for management of dental patients. The an update of this work will be reported at Biosensors 2016 in Gothenberg. Reported in [Biosensors and Bioelectronics](#) 84(2016)106–111

Review of Cavitas Sensors: Contact Lens Type Sensors & Mouthguard Sensors

Kohji Mitsubayashi and Takahiro Arakawa
[Wiley On-line Library](#) 12 May 2016

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