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Customized Periodontal Probe for Measuring Pressure Changes During Peri Implant Displacement: A Novel Design

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ABSTRACT

AIM: There is no simple instrument to measure pressure changes during peri implant displacement. A customized periodontal probe was designed to evaluate the pressure changes around peri-implant tissue.


MATERIALS AND METHODS: A Flex sensor measures the amount of bend or deflection by varying its resistance. A voltage divider circuit is used to capture these variations by having a reference resistor fixed at 10kΩ and is connected to the 5V supply provided by Arduino. The data obtained due to deflection in the sensor is calibrated in terms of Force from a value of 0.1N to 10N and is displayed on the monitor.

RESULTS: The amount of pressure around the peri implant sulcus during peri implant displacement procedure was displayed on the monitor.

CONCLUSION: A novel design that is simple, cost efficient and a diagnostic tool for measuring the peri implant tissue pressure changes.

CLINICAL SIGNIFICANCE: A convenient diagnostic tool to measure peri implant tissue pressure changes.

Keywords: implant, pressure, peri implant tissue

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