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A completely new healthcare platform: S-KIT and Health+

Background:

A recent WHO survey reported that two out of three adults over the age of 30 have periodontal disease. Periodontal disease, which is still the biggest factor in tooth loss gets worsened the Alzheimer's disease, cardiovascular disease, and diabetes. Health and information disparities have arisen due to economic circumstances and family environments. In order to solve this problem, regular check-ups at least twice a year are very important. If you do not change the frequency of checkups according to your individual hygiene condition, periodontal disease will progress further. According to the latest NCBI survey, Japanese regular checkup rate is only 34%.

The reason for it is that people do not understand and neglect the importance of regular checkups.

Purpose:

The risk of periodontal disease fluctuates due to various factors in the oral hygiene situation in daily life. By tracking this change, we can reevaluate periodontal disease risk analysis in daily life, reduce the risk of periodontal disease, increase the frequency of check-ups, and incorporate the detection of other biomarkers for preventive medicine. enrich. Ultimately, it aims to significantly reduce global healthcare costs.

Methodology:

Accurate and real-time measurement of VSC: Volatile Sulfide Complex gas, which reflects oral hygiene conditions, immediately visualizes daily periodontal disease risk. Through this, we aim to build a next-generation healthcare platform by realizing POC.

Conclusion:

We've developed a completely new healthcare platform: S-KIT and Health+ that can constantly monitor patients and provide accurate health information to encourage regular check-ups. S-KIT is an IoT digital device that visualizes biomarkers in saliva and breath. Various sensor combinations are possible, and accurate biological log data can be reflected in real time.

Keywords: IoT digital, Oral health, biomarkers, medical devices, MEMS, bio-engineering

Biography:

Dr. Daisuke Tanaka, Over 20 years of clinical experience as a special GP: General Practitioner dentist.

Completed law school to acquire medical law/ intellectual property law: JD degree while engaging in dental care.

During stay in Europe, He participated in various international conferences, programs, and trade shows, He have realized keenly aware of the development delays in the chemical sensor field in Japan.

After return to Japan, He established Any-Edge, a research and development team for a "saliva and breath comprehensive analysis device" using his own dental & engineering background.

During start-up activities, DI Dental Setagaya Oral Clinic has been launched as part of regional contribution to dental services.

He have won various startup business pitch contests and has been selected for acceleration programs.