

EXAMINATION OF TASTE USING TELEMEDICINE



UNIVERSITY
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TECHNOLOGY:

Taste disorders, primarily, the perception of salty, sweet, bitter and sour in particular, are not frequent and patients are also not aware of them. During the COVID-19 pandemic, on the contrary, they appeared very often, also associated with a smell disorders. While the examination of smell can be performed by the patients themselves, no such test is commonly available for the examination of taste. The technology is partially based on the Taste strips test and allows the patient to examine the taste with strips that can stimulate one side (left or right) or both sides of the tongue. Verification of the correct examination is monitored by a camera of mobile device or computer. In case of incorrect procedure, the result of the examination will not be evaluated.

APPLICATION OF THE EXAMINATION

Patients with taste disorders due to COVID-19 or other causes of taste disorders (for example: facial nerve palsy, oral cavity disease, dental prostheses, patients after radiation treatment, as a result of the use of drugs) will be able to examine the taste themselves. Taste disorder can lead to increased intake of sugar and salt in meals. The test has the potential to be used in many medical fields (general medicine, neurology, ENT, stomatology, oncology and others).

BENEFITS:

- Possibility of taste examination only on the tongue, lateral (left or right side) examination.
- Determining the degree of taste disorder, monitoring the development of the disorder and proposing treatment.
- A visit to a medical facility is not necessary.
- The possibility of detecting disorders of individual taste qualities (salty, sweet,



POTENTIAL CUSTOMERS:

- Patients with COVID-19, as well as patients from ENT, dentistry, neurology, oncology and internal medicine.
- Research organizations within projects focused on nutrition, taste and smell.



COOPERATION EXPERIENCE:

- Long-term cooperation with the Center for smell and taste in Dresden (Germany, head Prof. Thomas Hummel).
- Cooperation on publications with Dr. Basil Landis (ENT Clinic, Geneva, Switzerland).
- Long-term cooperation with the company Centropen, which supplies markers for smell tests.

INVENTORS
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PATENT SITUATION:
Utility model and patent application.

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