

Connected device for bruxism diagnosis

Health / Diagnosis / Bruxism



REFERENCE	BruXense [L1393]
KEYWORDS	BRUXISM / TEETH GRINDING / DIAGNOSIS / ORAL CARE



APPLICATIONS

- **Bruxism diagnosis** : quantitative in-depth analysis of the frequency and intensity of bruxism episodes during 7 to 10 days,
- **Bruxism follow-up / monitoring** : long-lasting analysis of frequency and intensity of bruxism episodes,
- **Clinical development tool** for therapeutic development (drug, device...)



TARGET MARKETS

- Dentists
- Dental technicians
- Oral care industry

Technology readiness level

TRL 5-6



INTELLECTUAL PROPERTY

Priority patent FR1558064, pending in PCT.

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DESCRIPTION

A new device has been designed for home diagnosis and monitoring of bruxism episodes. Bruxism, teeth grinding and clenching, is a common condition that affect 10 to 20% of the population, up to 40 millions adults. This medical device is a connected dental protector – mouth guard that detects and measures the force and duration of bruxism episodes during the patient's sleep. Data transmission is done by induction when the device is loaded on its docking station, during the day. The patient can call up the information through a dedicated app. Data may also be shared with the dentist practitioner.

COMPETITIVE ADVANTAGES

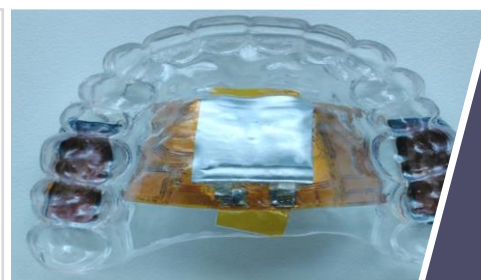
- Accurate diagnosis of bruxism : left vs right, grinding vs clenching, duration, intensity, frequency
- Data loading by induction through the docking station
- Safety of use : no data transmission during the sleep
- Patient's comfort : less than 2 mm thick
- Easy to manufacture

DEVELOPMENT STATUS

- Prototype available, tested on patients
- Monocentric pilot clinical trial planned for 2017

PARTNERSHIP

PULSALYS is looking for industrial partners interested in developing or co-developing this device, or a business entrepreneur interested in a startup project adventure.



OUR OPPORTUNITIES

www.pulsalys.fr/entreprise/offres-technologies/

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