

CRANIO MANDIBULAR BRACE: A Novel Device for Myo-Facial Pain Dysfunction Syndrome

APPLICATION

The moto of the proposed work is to design and produce a cranio-mandibular brace which will treat patients suffering from MPDS.

COMPANY NAME	TECHNOLOGY READINESS LEVEL (TRL)	INTELLECTUAL PROPERTY
RN BIOMEDICAL Pvt Ltd	TRL: 3 (The POC has been established. Currently working on prototyping of the device)	IP filing under progress
FOUNDER'S NAME		
Nivedita Sahoo		

PROBLEM ADDRESSED

Myo facial pain dysfunction syndrome (MPDS) is one of the most common non- tooth related oral-facial pain condition that is generally encountered by dental patients in their day to day life. The product will be a cranio-mandibular brace which will treat patients suffering from MPDS. The brace will be reducing the patient's burden of going through the clinical procedures with drugs to splint therapy. It will negate the chance of a patient's planning for surgery.

ABOUT THE TECHNOLOGY

Our device is based on **patentable ultrasonic deep palpitation Technology**. It will be using a 3 MHZ band of programmable ultrasonic palpitations to heal the facial pain. MPDS has a lifetime prevalence of 85% in general population. The moto of the proposed work is to design and produce a cranio-mandibular brace which will treat patients suffering from MPDS. It will be a patient friendly appliance available to the patient at low cost. The cranio-mandibular brace will be reducing the patient's burden of going through the procedures of pharamacological management with drugs to splint therapy. In severe cases, the brace will negate the chance of a patient planned for surgery. The cranio- mandibular braces will be first of its kind in dentistry. In orthodontics, we have many orthopedic and myofunctional appliances to redirect the growth of the jaws. With the background of growth modulation in orthodontics we plan to design a brace which will solve the problem of MPDS based on their etiology.

FUNDS RAISED / ACHIEVEMENTS

- DST NIDHI PRAYAS-4.8 Lakhs

PRODUCT IMAGE



USP

- The C-Ranio will be first of its kind in dentistry with **ultrasonic deep palpitation technology**.
- **Portable wearable device** for relieving muscle tensions associated with MPDS.
- Clinicians will get **Real time control status** of patients.

END USERS / CUSTOMERS

The patients suffering from MPDS (Myofascial Pain Dysfunction Syndrome)