

MEDTECH INNOVATIVE PROJECT:

Multimodal, multimedia device with haptic rendering for patient's anxiety and pain management.

APPLICATION AREAS:

- Dental Clinic (TRL 9)
- Psychological therapies (TRL 6)
- Hemodialysis sessions (TRL 9)
- Oncological treatments (TRL 9)
- Telemedicine care (TRL 4)
- Musculoskeletal healing (TRL 6)
- Dementia and depression (TRL 6)
- Gerontology (TRL 9)
- Care of premature babies (TRL 4)
- Pediatric, autism, etc (TRL 9)
- others

OPERATING MODES:

This patented, class I device, therefore usable in hospital, clinical, institutional or residential environments, allows the patient to be immersed in a multimedia-multisensory with high-definition spatial audio and haptics.

It consists of a very versatile haptic cushion, a headset, a wireless remote control and a pair of microphones with ambient noise cancellation, in order to communicate with the patient during treatment.



Its hyper-realistic immersion reproduction compatible with all general public multimedia contents on the Web, or specialized contents such as: Music, films, video games or podcasts for breathing control, progressive relaxation programs, phobia treatments, Music therapies, etc.

This solution is Plug & Play and gets unfolded in 15 seconds on a relaxation chair, a medical treatment chair or bed or patient's mattress.

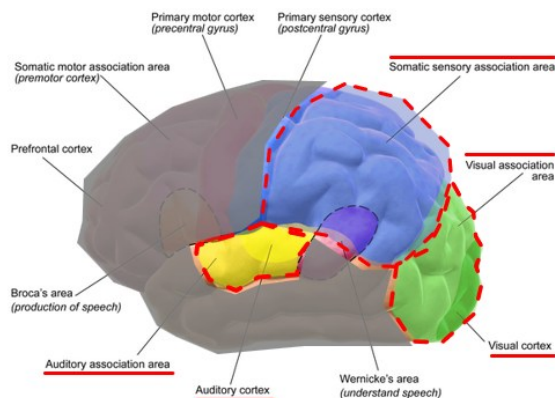


MODUS OPERANDI

- By the patient
- By the practitioner or the assistant
- By a well-being expert on site
- By a well-being expert remotely
- Before, during or after the medical procedure
- Relaxation or entertainment or therapeutic uses.
- Patient conditioning for pre-procedure
- Programs for helping to manage anxiety or perceived pain
- Programs for specialized psychological treatments
- Programs for perceived pain masking

WHY ADDING HAPTICS FOR THE PHYSICAL STIMULI FEELINGS?

Multimedia + haptic rendering mobilizes neurological activities in a **large part of the brain** with its multiple interconnections. It's like a simulation program without the patient moving and without noise for the team of practitioners.



BENEFITS :

- Easily integrated into a care trajectory in a clinic, institution or residence and even in mobile care
- Alternative or complementary to certain sedatives or anxiolytics
- Ergonomic and comfortable
- Setup in 15 seconds (on a relaxation chair, bed, cushion, treatment table, etc.)
- Plug & Play
- Hyper-realistic multisensory immersive experiences for 20 to 90 minutes
- Resistant to disinfection and easy to clean
- Agnostic to multimedia contents (Open to all contents available on the Web or locally, such as music, films, games, podcasts, therapeutics, etc.)
- Two easy-to-use modes: By touchscreen remote control with OLED screen, or by a PC computer on site or remote.
- Your choice of content in local memory or via WiFi for access to the Web
- Wireless system between the remote control or the PC and the haptic cushion.
- Compatible with virtual reality headsets or HD televisions/monitor, to add visual sense.
- Helps to condition the difficult or agitated or simply anxious patients.
- Helps to communicate with patients through microphones for increased intelligibility

NOVHAPTIX - CLINIC TRAIL COLLABORATIONS :

- ✓ We offer a presentation and a demonstration session to interested care units.
- ✓ Vibemotion in deposit with assistance and support for a specific time.
- ✓ Collect your comments or small survey or testimonial.
- ✓ Vibemotion acquisition on request.

COORDINATION with MEDTEQ+

THE COMPANY :

Novhaptix Technologies Inc.

Registered in Province of Quebec, Canada

6 years of R&D

Patented hardware and smart algorithms

CSA Inspected SPE-3000

Medical instrument Class I

TRL 9 : Is the solution maturity

Based on multi scientific and university references

Jean-Yves Lamy, CEO/CTO and Founder

Membre MEDTEQ+, IEEE, OIQ

Web Links :

<https://www.novhaptix.com/anxieacuteteacute-et-perception-de-la-douleur.html>

<https://posiflexdesign.com/coussin-vibrant-vibemotion>

<https://www.audiohospitality.com/haptic-relaxation-library.html>

https://fr.wikipedia.org/wiki/Dispositif_haptique#Utilisations_et_dispositifs_commercialis%C3%A9s

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