



Vibra moov[®]

VERY EARLY & INTENSIVE
NEUROREHABILITATION

through

Functional Proprioceptive Stimulation



Because every
day counts

VERY EARLY & INTENSIVE NEUROREHABILITATION

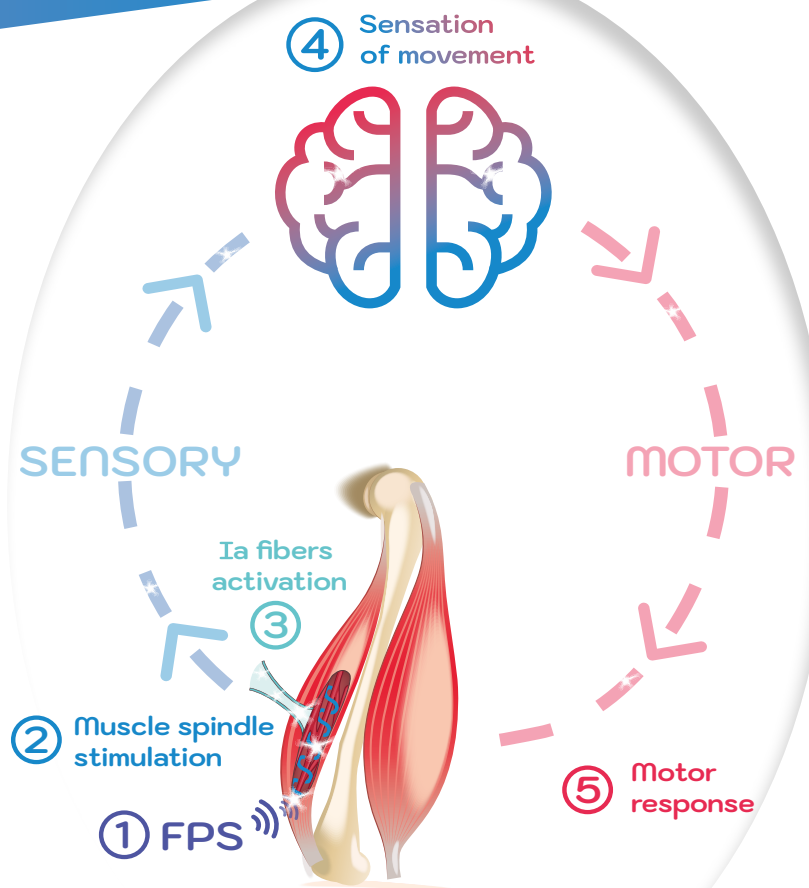
Vibramoov technologies offer to healthcare professionals a unique opportunity to preserve & enhance sensory-motor functions of patients suffering from motor impairments.



Mode 1 | FPS

Triggering motor activities via proprioceptive inputs

Functional Proprioceptive Stimulations (FPS) are applied on the musculo-tendinous junction (1). FPS mechanically stimulate the muscle spindles (2) mimicking the sensory signals - Ia fibers (3) of functional movements. This neurosensory trick activates related sensory-motor areas (4) allowing patients to feel natural movements. Because sensory & motor systems are interdependent, the CNS then reacts by initiating corresponding movements (5).

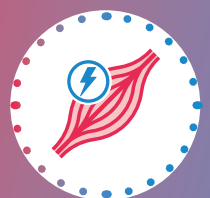


Active participation gradually increases, session after session, following 3 successive steps:

(A) Induce sensation of movement

(B) Generate motor responses initiating the movement felt

(C) Active participation of the patient



Mode 2 | Focal vibration

Regulating muscle tone

These stimulations are applied on the middle of the muscle in order to induce repetitive muscle contractions and/or stretches.

Contend the deleterious effects of hypo-mobilization



Preserve muscular architecture

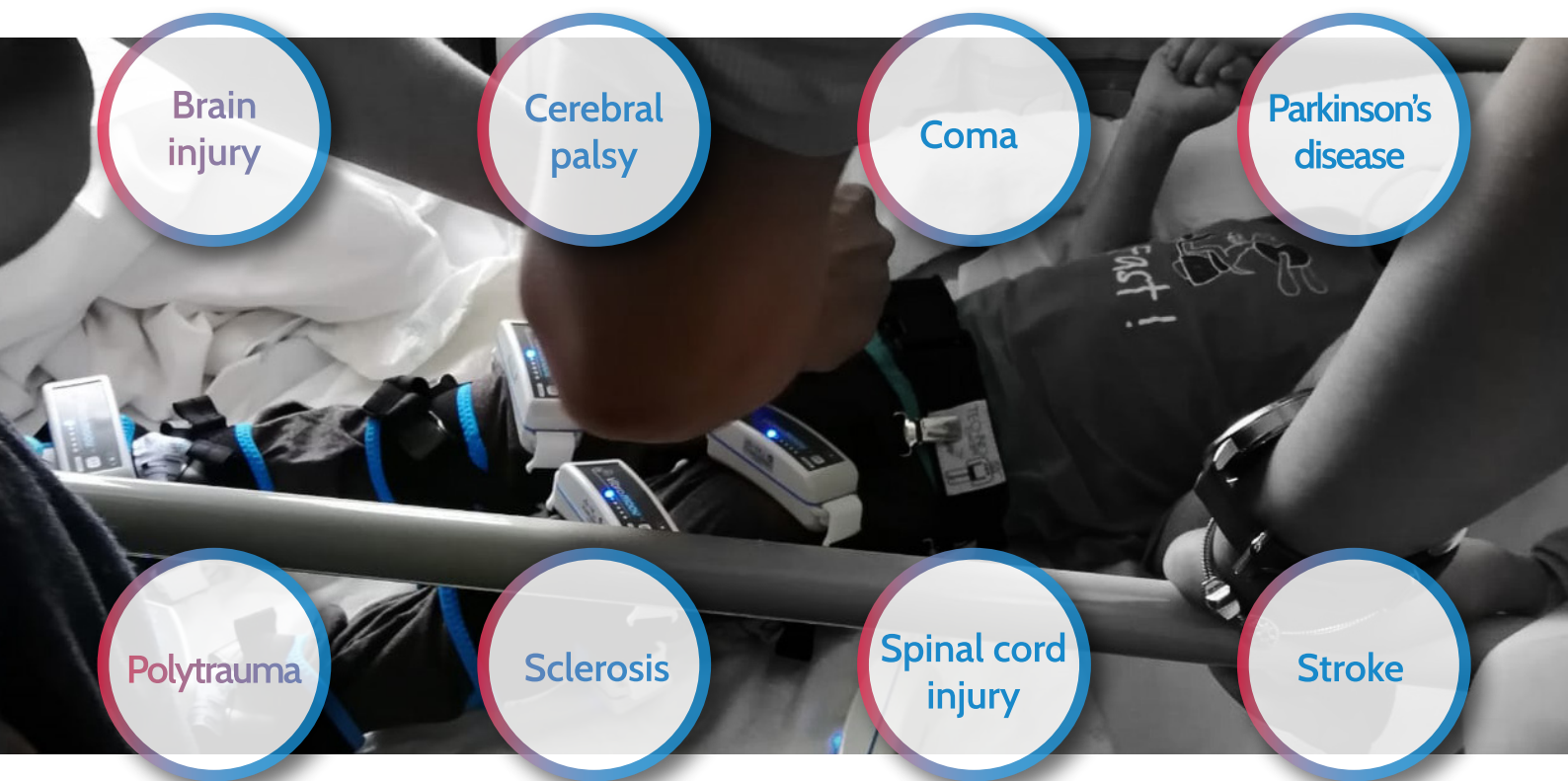


Regulate muscle activity between agonist & antagonist



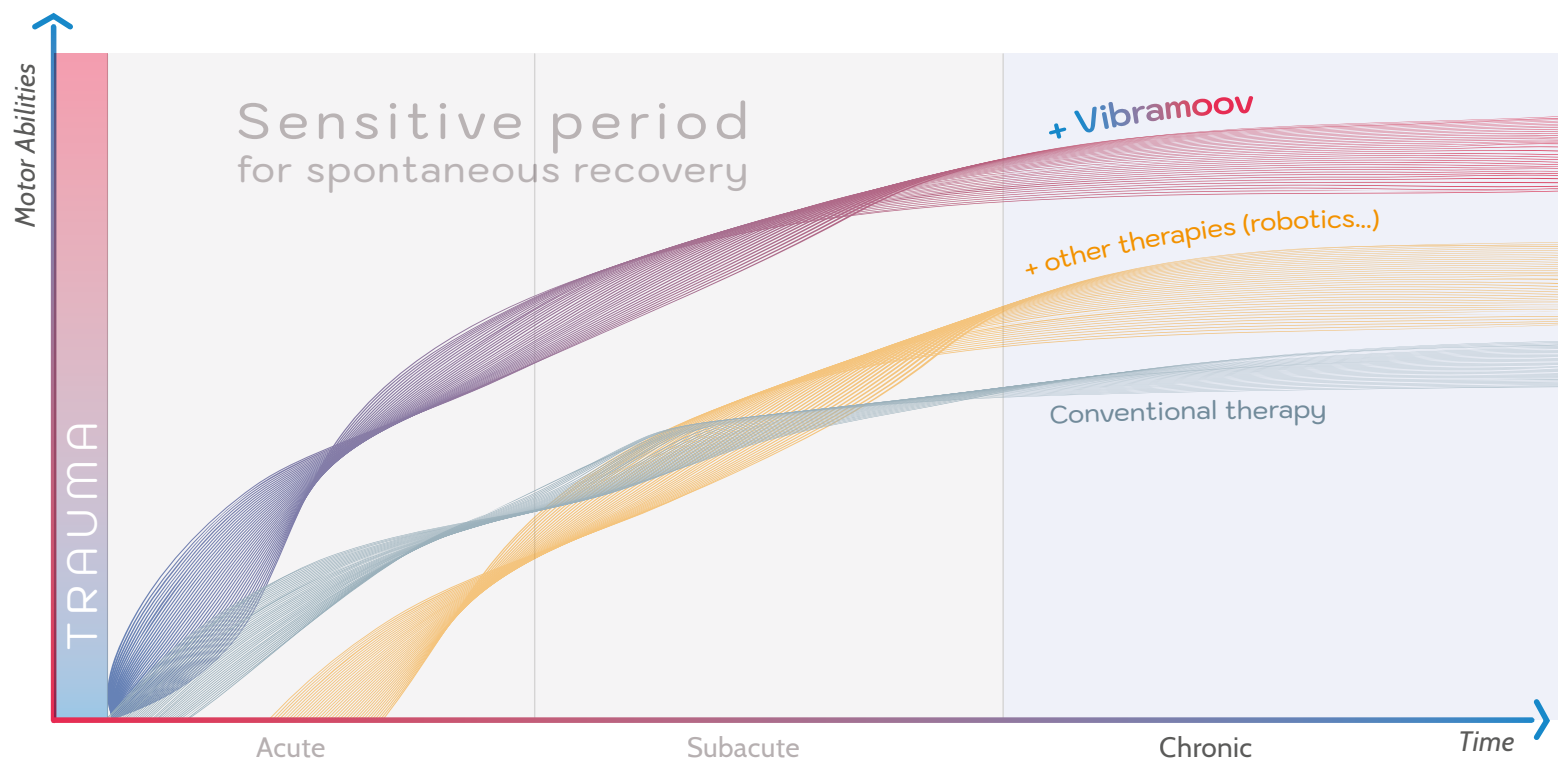
Clinical Applications for Adult & Pediatric

As early & frequently as possible once the medical stability is reached.



Vibramoov Rehabilitation Continuum

A unique versatile solution that guides the patients throughout the long journey of rehabilitation.



The sensitive period is a unique, time-limited plasticity environment that mediates the spontaneous recovery. Vibramoov technologies deeply promote this spontaneous recovery before it falls off as a function of time from the trauma.

Mode 1

NEUROPLASTICITY BOOSTER

FPS |

Sooner is Better

Bedridden | ICU

Very early stimulations without transfer

Promote
neuroplasticity
& activity from
the acute phase



Prevent
sensorimotor
deprivation
related to
immobility



Verticalized

Patients who can be verticalized

Reinitiate
movement
with some
gravity



Trigger air
stepping &
walking



Balance Training

Patients barely able to stand

Regain balance
& prevent falls



Enhance
coordination of
lower & upper
part of the
body





Lower Limb

Gait with parallel bars

Patients who can stand with assistance

Realize daily motion via FPS triggering



Reinitiate the first steps



Walk with a Treadmill

Patients able to stand & initiate small steps

Strengthen patient's capacity & speed up recovery



Enhance the quality of gait



Overground gait

Patients in need to increase their gait quality

Limit co-contraction & correct compensation



Allow to walk longer & more smoothly





TOMORROW REHABILITATION TODAY

FPS | Upper Limb

Seated with arm support

Patients with limitations to raise their arm

Feel & initiate
simple
movements
(amplitude
recovery)



Trigger complex
movements
(drawing/ADL)



Seated without arm support

Patients who can raise their arm

Increase
amplitude of
movements &
coordination



Decrease
compensatory
moves



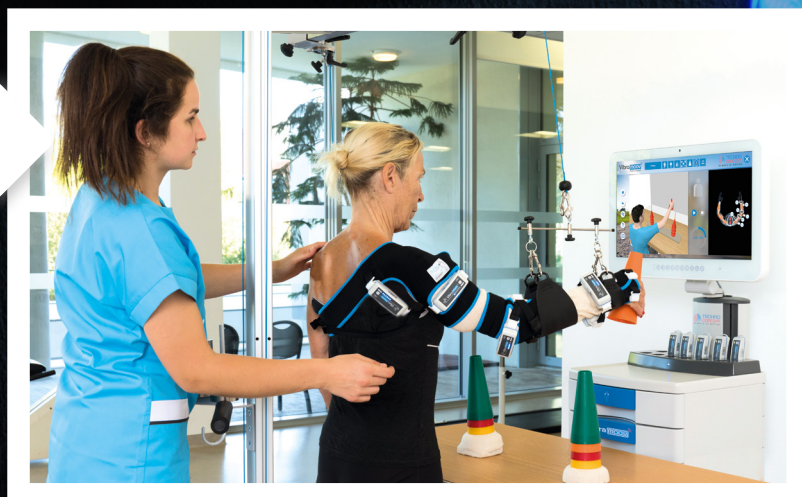
Standing with arm support

Patients who can raise their arm & stand

Increase
coordination
during handlings
& interaction
with objects



Strengthen
patients'
capacity & regain
independency



FPS



Clinical Benefits



Preserve
sensory-motor
interaction

Stimulate
neuroplasticity

Prevent side
effects of
immobility

Enhance
coordination

Promote
motor
recovery

Allow
locomotor
training

Regulate
muscular
activity



Mode 2

REGULATION of MUSCLE TONE

Focal Vibration

Focal vibrations are applied on the middle of the muscle. The aim is to preserve muscle structure & promote the regulation of muscle activity between agonist & antagonist. Possible synchronous treatments of patients with similar conditions allow a larger number of daily applications.

Prevention of muscular hyperactivity

Focal vibrations are applied in early phases on muscles that will generally become hypertonic to prevent muscular retraction, reduce potential accumulation of connective tissue & maintain the balance of muscle spindle activities between muscle chains.



Agonist stimulations



Moderate muscular hyperactivity

Daily repetitions of alternated contractions & stretches on agonist & antagonist muscles to contend the deleterious effects of hypo-mobilizations occurring from the acute phase & promote activity to preserve muscle architecture.



Alternated stimulations



High muscular hyperactivity

Application adapted for patients that cannot receive stimulations on hypertonic muscles. Intend to induce an increased activity of the muscles stimulated & a reciprocal inhibition of the hypertonic one.

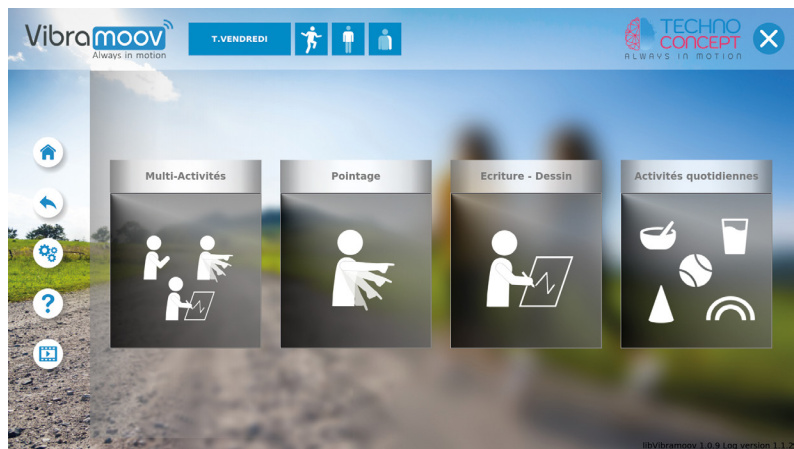
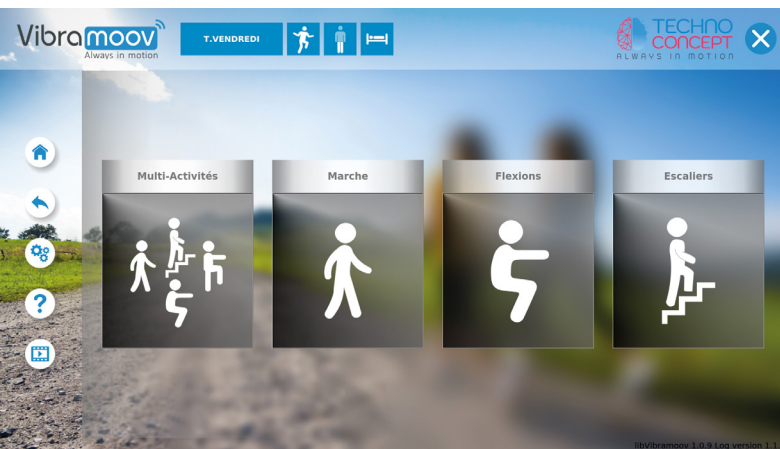


Antagonist stimulations

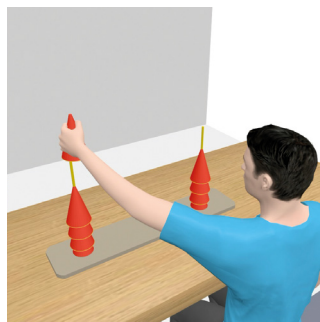
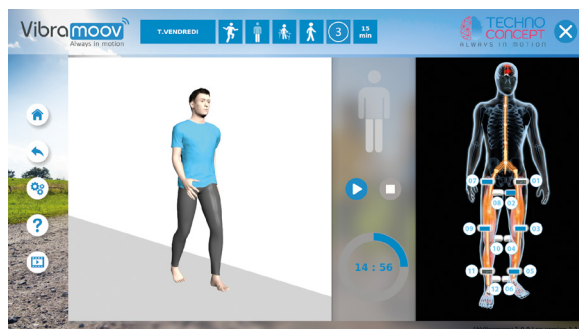


FRIENDLY INTERFACE

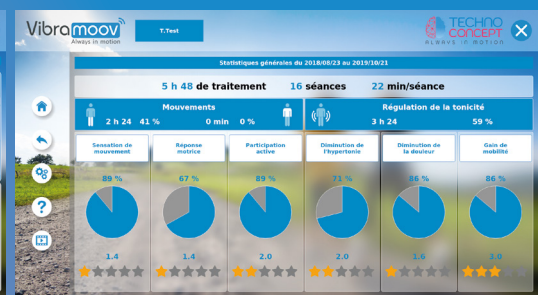
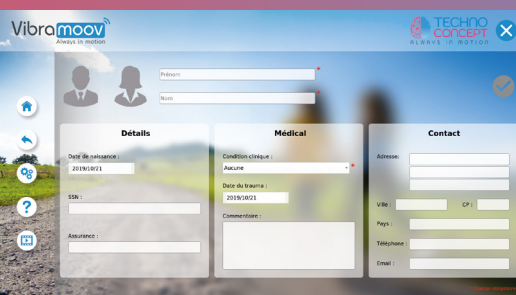
Large variety of protocols adapted to patients' progress & needs



Synchronous proprioceptive & visual stimulations enriching the experience



Database allowing patients' follow up & device use statistics



Intensity & Repetition matter

Crucial role of the clinicians to combine key therapies for turning benefits into functional gains



Teamwork



Skills



Use it or lose it

Vibra moov

The new companion that helps patients
to realize the first steps towards recovery.

Easy to
set up

Friendly
device

Safe

Mobile

Enriched
environment

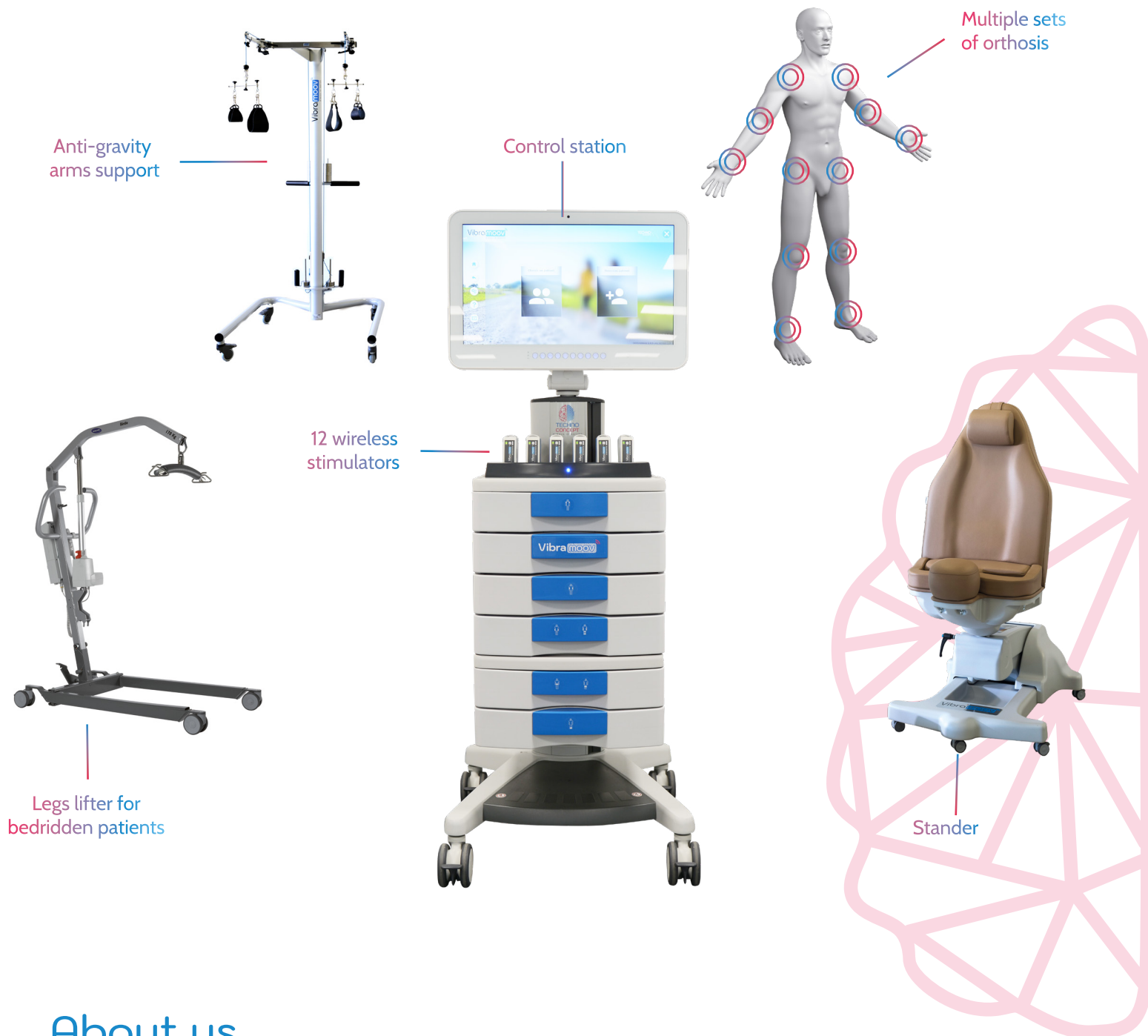
Synchronous
group
treatments

Principle of
excellence



VIBRAMOOV

Total solution for neurorehabilitation | Lower & Upper limb



About us

Committed to patients recovery

For more than 20 years, Techno Concept is a leading designer & producer of innovative solutions for Health Professionals in Physical Medicine & Rehabilitation. Our vision is to create disruptive & versatile solutions to improve patient recovery, driven by a unique relationship & teamwork with patients, clinicians, researchers & our partners.

Vibramoov : Vibramoov is a Medical Device, CE marked (Medical Device European Regulation) designed and manufactured upon ISO 13485: 2016 standard



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