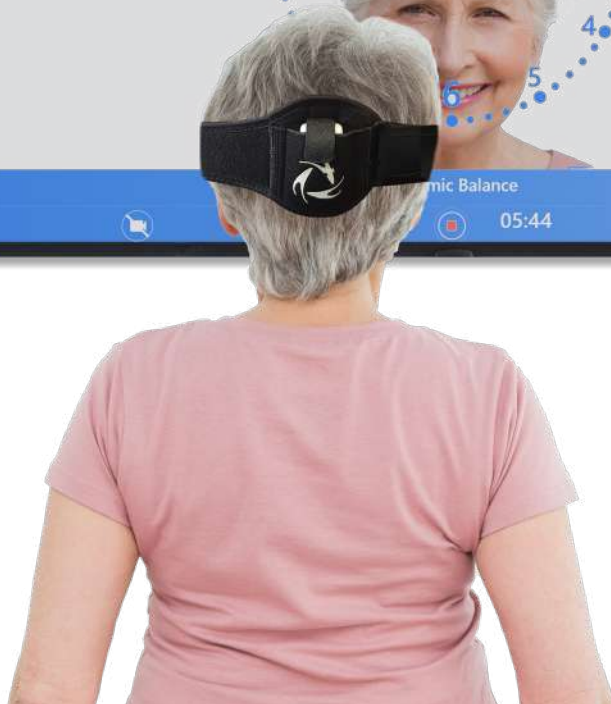




BTS Bioengineering

BTS TELEREHAB

Medical telerehabilitation platform that guarantees continuity in the rehabilitation process from the clinic to the patient's home





BTS TELEREHAB

A medical platform for motor and cognitive rehabilitation that supports the rehabilitation work in each phase

▶ EVALUATION TESTS

The included **functional assessment tests** provide objective data to **quantify the motor limitations** of the patients.

▶ MOTOR EXERCISES

The proposed **therapeutic motor exercises** are extremely **flexible** and can be adapted to the **working method of the therapist**, who can choose what movements to carry out by the patient, working on the **main body segments** (cervical spine, shoulder-upper limb, trunk, pelvis and lower limbs).

▶ MIRROR THERAPY

The exercises are based on the concept of **“mirror therapy”**, without the use of avatars. Graphic elements are superimposed on the image of the patient in real time to guide him in the execution of **balance movements** or **mobilization** of the different body segments.

▶ COGNITIVE MODULE

It includes **cognitive rehabilitation exercises** that aim to **restore or compensate for impaired cognitive functions** that can occur in patients with **problematic neurological**. The proposed exercises are designed to **train specific cognitive domains** such as **memory, attention, executive functions and perception**.

▶ EASY-TO-READ REPORT

A complete report is generated for each evaluation test and for each exercise performed, where, through **simple and intuitive graphics**, it is possible to represent the patient's health status. It is also possible to **compare the different reports** and show the improvements to the patient to increase their motivation to perform the rehabilitation treatment.

PATIENT FRAMEWORK

taking charge of the patient

EVALUATION TESTS

Instrumental evaluation of joint mobility, walk, balance.

BAIOBIT FOR TELEREHAB

BTS TELEREHAB uses **baiobit** technology from Rivelo - BTS group - for evaluation and therapeutic exercise

TEST INCLUDED:

- Segmental mobility
- Balance
- Walk
- Jump

MOTOR EXERCISE

- Joint Position Sense
- Cervical clock
- Static Balance
- Dynamic Balance

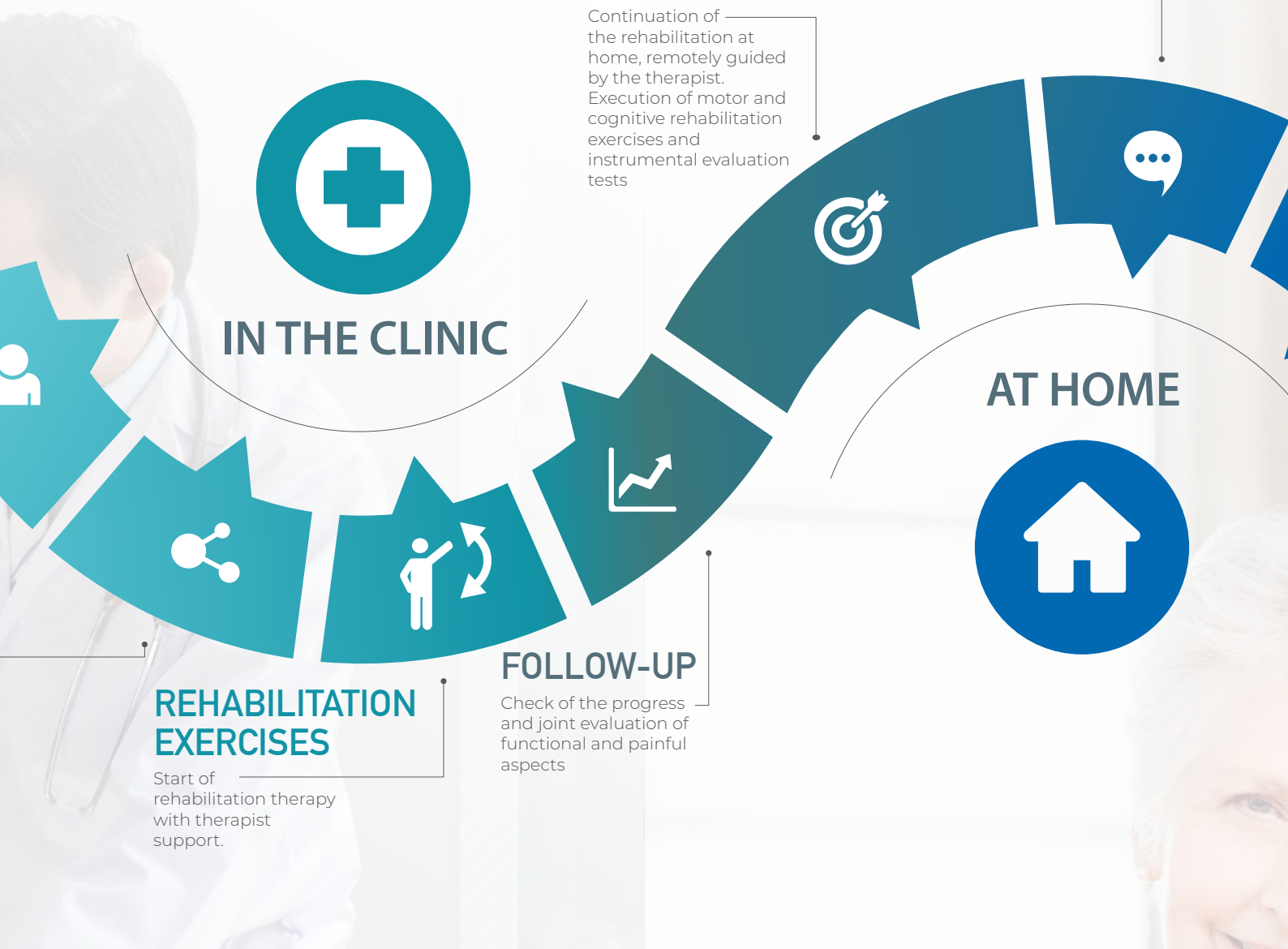
COGNITIVE EXERCISE

- Memory training
- Attention training
- Executive functions training
- Perception training



REHABILITATION PATH

consistent and continuous



IN THE CLINIC

HOME SESSIONS

Continuation of the rehabilitation at home, remotely guided by the therapist. Execution of motor and cognitive rehabilitation exercises and instrumental evaluation tests

BTS MEETING

Individual or group video consultation sessions. Also with multidisciplinary approach to the patient

REHABILITATION EXERCISES

Start of rehabilitation therapy with therapist support.

FOLLOW-UP

Check of the progress and joint evaluation of functional and painful aspects

AT HOME



A DUAL SYSTEM

BTS TELEREHAB is a medical telerehabilitation solution that guarantees continuity in the rehabilitation process from the clinic to the patient's home.

The patient starts his rehabilitation process in the clinic with the therapist.

This allows him to familiarize with the equipment and with the tests and assessment exercises that he will later find at home. At the end of the hospitalization phase, the system is handed over to the patient to be used at home and continue the therapy. The therapist remotely controls the system, monitoring the correct execution of the tests and exercises, without the patient having to intervene in any way, exactly as it happened in the clinic.

A COMMUNICATION BRIDGE

BTS TELEREHAB improves communication with patients

The software was designed as a communication bridge between doctor and patient so that the latter can actively participate in the treatment process, increasing their knowledge of the results obtained.

This is an aspect of fundamental importance because it significantly increases the effectiveness of the therapy and guarantees conscious and satisfied patients.

- Visual and audio biofeedback
- Clear and easy-to-read report
- Customizable exercises
- Attractive and inspiring graphics
- Integrated digital wireless pulse oximeter



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BTS TELEREHAB

Innovative platform for tele-rehabilitation, fully automatic

MAINTENANCE EXERCISES

Execution of personalized exercise assigned by the therapist to consolidate the results obtained



▶ FULLY AUTOMATIC

At home, the patient simply has to **connect** the box and the webcam **to their television** and press the activation button.

Once switched on, **the system will start automatically** and connect with **the therapist** who will **remotely manage the software** without the patient having to intervene in any way.

▶ A SINGLE SENSOR FOR TESTS AND EXERCISES

All tests and evaluation exercises require the use of a **single self-calibrating sensor**. The supplied bands can easily be used independently and the therapist, via video, can verify their correct position.

▶ EXTREMELY POWERFUL THERAPIST CONSOLE

Thanks to the **powerful control console**, the therapist has full control of the system and can **guide in real time** from **1 to 10 patients** in the execution of tests and therapeutic exercises.

▶ INTEGRATED BTS MEETING SYSTEM

Through the always active videoconference, it is possible to carry out rehabilitation therapies and evaluation tests to the patient as if they were in a clinic and to **carry out video consultation sessions even at a multidisciplinary level** involving several professionals (psychologist, nutritionist, speech therapist ...).

▶ MAINTENANCE EXERCISES LIBRARY

The therapist will be able to prepare support exercise sheets that will be given to the patient for the activity at home, after the work carried out in the tele-rehabilitation or video consultation sessions.

BTS MEETING

BTS MEETING is the fully integrated video consultation module in the **BTS TELEREHAB** solution.

The healthcare professional can access the patient database at any time with their credentials **from any computer connected to the network** to view patient records, schedule therapy sessions and start video consultation.

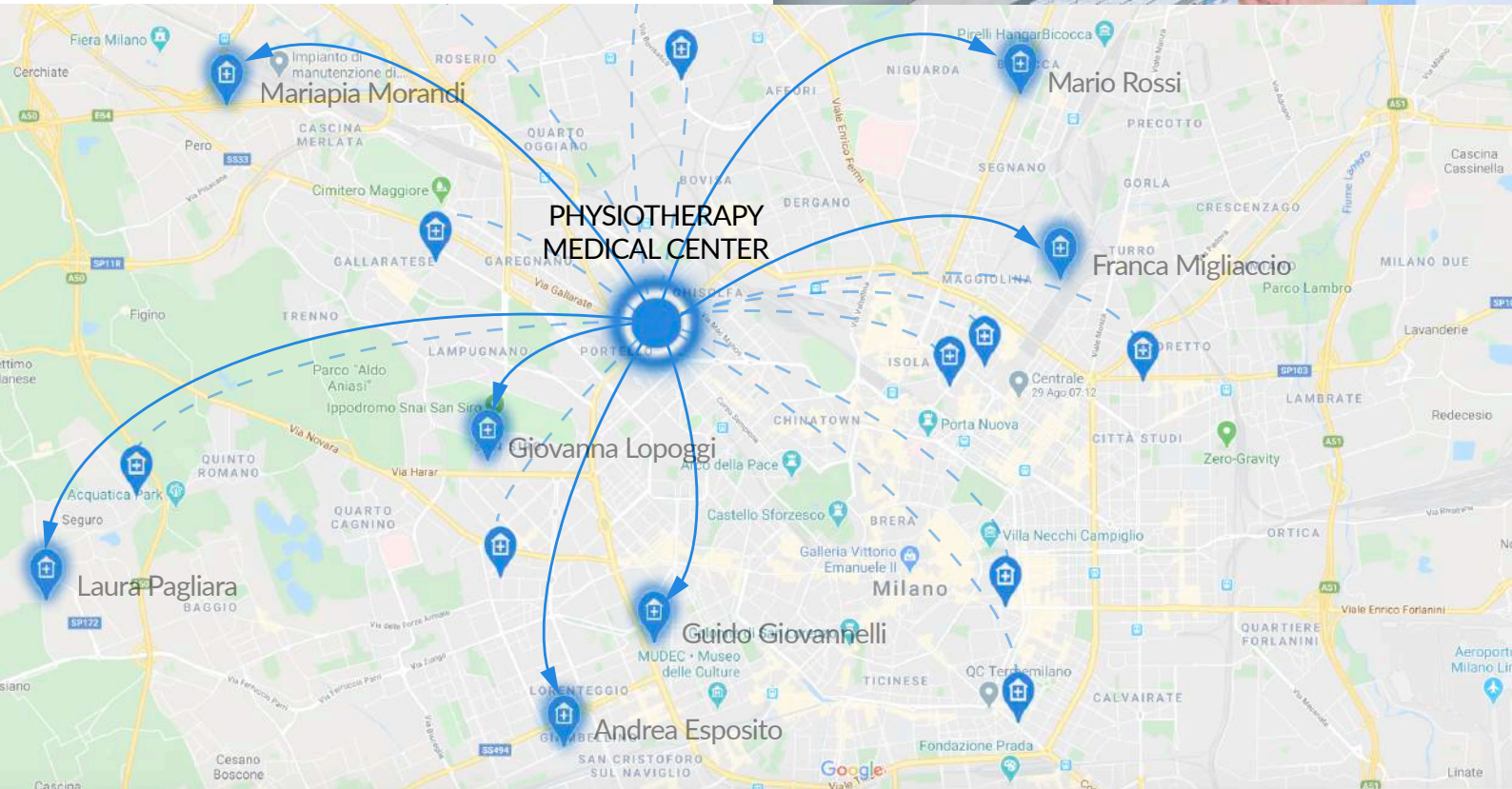
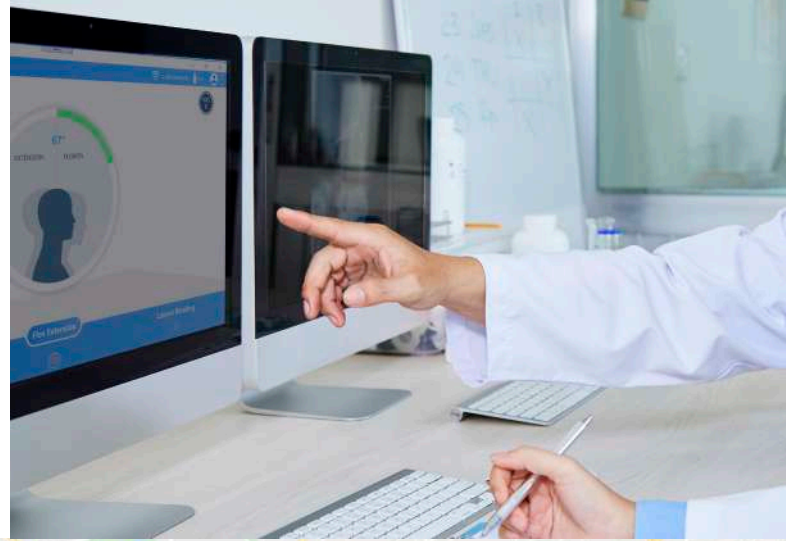
You can remotely connect and **manage up to 10 patients at the same time**, working with each one individually in **One-to-One mode** or conducting group therapy sessions in **Remote Patient Group mode**.

For the video consultation, the patient can connect with the specialist **with a simple click** even from his smartphone.



BTS TELEREHAB

A medical telerehabilitation platform that guarantees continuity in the rehabilitation process from the clinic to the patient's home



INTERNET CONNECTION INCLUDED



INTEGRATED HD WEBCAM



PLUG & PLAY MODE



INTEGRATED PULSE OXIMETER



PATIENT'S CLOUD DATABASE



GDPR COMPLIANT SERVER

The solution includes:

baiobit
FOR TELEREHAB

BTS MEETING



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