

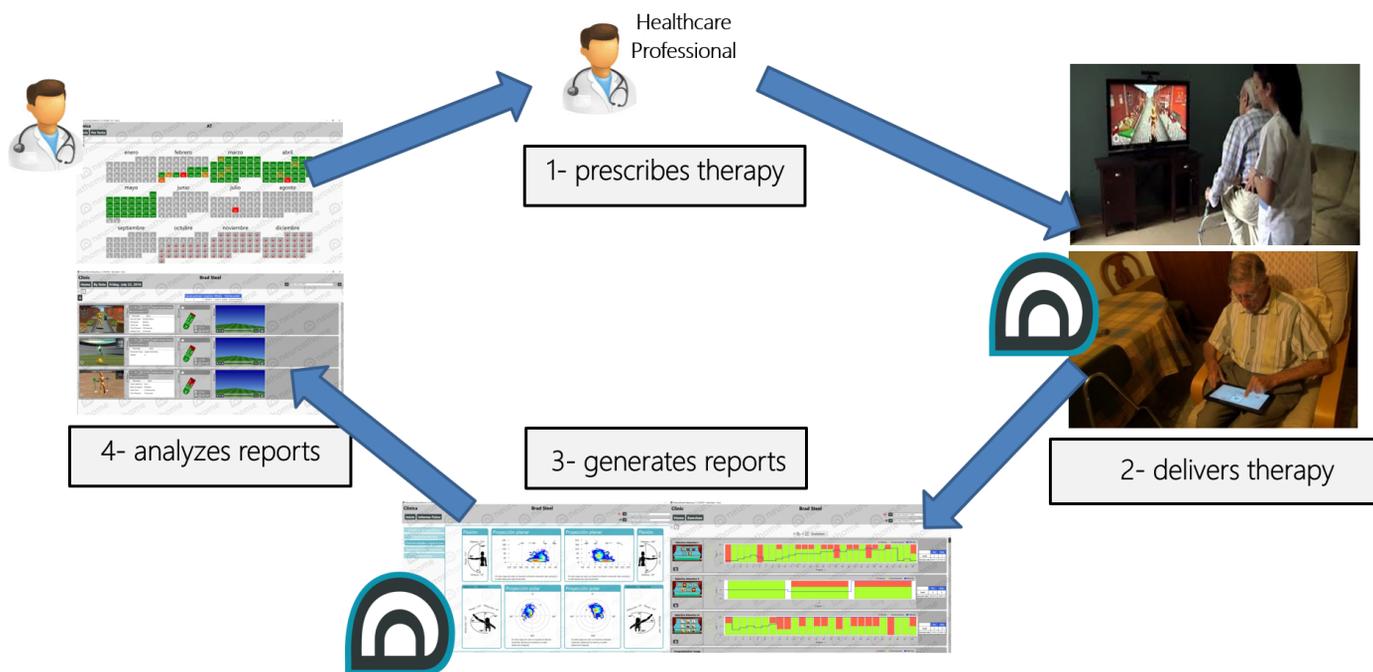


**rehametrics**

quantifying rehabilitation across care settings

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# What is Rehametrics?



Rehametrics is a software-based rehabilitation platform that uses multiple sensors to enable healthcare professionals to deliver physical and cognitive rehabilitation regardless of patient or therapist location. Our solution uses virtual reality, real-time markerless motion capture and analysis, gamification and session quantification to improve rehabilitation outcomes and increase patient engagement. Similarly, while patients complete clinician-prescribed sessions, Rehametrics collects motion analysis and session performance data, making it easier to track patient evolution objectively.

## For Use Across Care Settings

Similarly, Rehametrics can be used within hospitals, clinics, care homes and community settings- or to deliver rehabilitation sessions remotely –to other centers or to the patient’s home-facilitating care transitions.



# Who can use Rehametrics?

Neuro-  
logical  
Conditions

Musculo-  
Skeletal  
Injuries

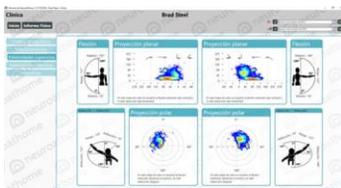
Prevention  
& Active  
Ageing

Chronic  
Health  
Conditions

Any patient suffering from a health condition that requires physical or cognitive rehabilitation can benefit from using Rehametrics. All 100+ exercises available within Rehametrics focus on recovering impaired function, regardless of the underlying condition. At the same time, these exercises have numerous personalization options that allow clinicians to adapt exercises to the needs of each patient, if required.

## Extensive Session Quantification Capabilities

At the same time, Rehametrics provides healthcare professionals with detailed information on what each patient has achieved session after session, in a way that is easy to understand and use. Collected data is presented in different ways, depending on what information is required. As a result, Rehametrics gives detailed, objective and easy-to-use information to track patient evolution over time.



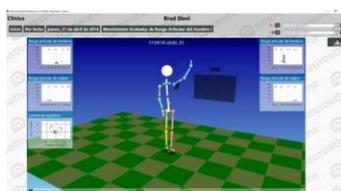
biomechanical report



cognitive report



progress analysis



recorded session  
viewer



evolution analysis



calendar view

# Rehametrics Physical



## More than 50 physical rehabilitation exercises

Rehametrics Physical, our exercise module designed specifically for physical rehabilitation, uses virtual reality, marker-less motion capture and tracking, biomechanical analysis and gamification techniques to quantify all rehabilitation sessions completed by patients. All exercises have been designed by clinicians to ensure that patients recover their **balance** (static, dynamic, monopodal, etc.) their **upper and lower extremity range of motion** (flexo-extension, adduction-abduction, etc.), **ability to move around** (gait initiation, seated to standing transfers and lateral displacements), **coordination** (alternating, simultaneous, bimanual, etc.) and their **body control** (head, trunk and full-body). At the same time, each exercise has several personalization options that enable clinicians to further individually adapt the exercise's difficulty to each patient's clinical goals and capabilities.

As a result of all this, healthcare professionals can design personalized weekly treatment plans for their patients, using the more than 50 physical rehabilitation exercises available in Rehametrics Physical. In this way, it is possible to design completely personalized and individual physical rehabilitation plans using Rehametrics.

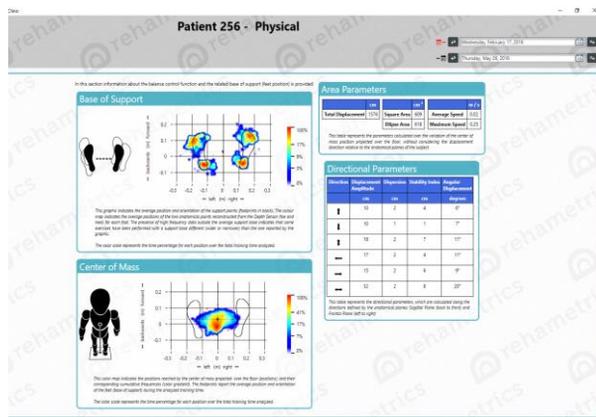
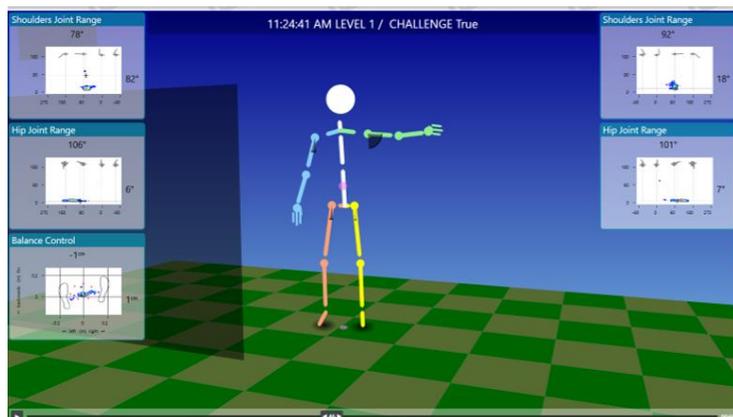
# Rehametrics Physical



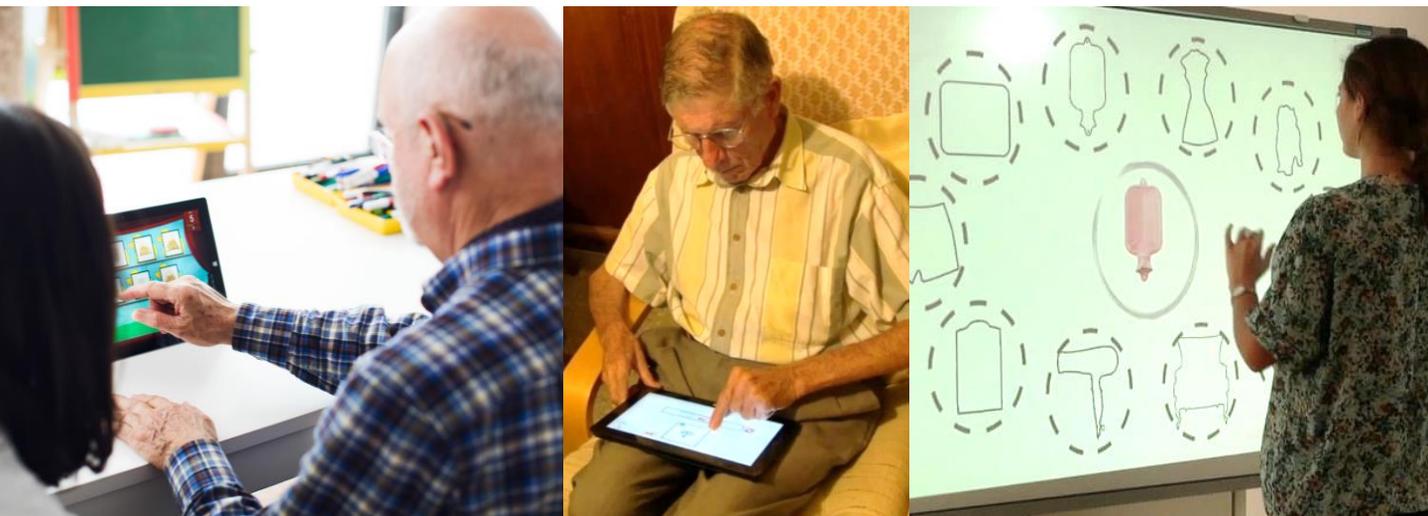
## MAIN CLINICAL AREAS

- Balance
- Upper Extremity Range of Motion
- Lower Extremity Range of Motion
- Displacements
- Coordination
- Body Control

Similarly, while patients complete rehabilitation sessions prescribed by their clinician, Rehametrics will automatically record these sessions in a completely anonymized manner. In these recordings, it is not possible to recognize patients or their surroundings. However, clinicians can observe using a 3D viewer all the movements completed by their patient during the recorded sessions. Rehametrics will use these recorded sessions to analyze and measure each patient's base of support, the position of their center of gravity at rest, the displacement of their center of gravity during the session, the range of motion of their shoulders, elbows, hips and knees, their step height and width and other kinematic parameters that provide an objective measure of patient evolution session after session.



# Rehametrics Cognitive



## Cognitive Rehabilitation for Everyone

Rehametrics Cognitive, designed specifically for cognitive rehabilitation, uses gamification techniques and an extensive database of over 5.000 categorized items to quantify all completed rehabilitation sessions by patients. Exercises have been designed to help patients recover their **attention** (sustained, selective, divided, inhibitory, etc.), **working memory** (visual, verbal and auditive), **perception** (simple and complex visual, etc.), **language** (comprehension, expression), and **executive functions** (cognitive flexibility, sequencing, calculation, etc.) skills, as well as mastering important **activities of daily life**. At the same time, each exercise has several personalization options that enable clinicians to individually adapt exercises to each patient's clinical goals and capabilities.

As a result, healthcare professionals can design personalized treatment plans using the more than 50 cognitive rehabilitation exercises available in the Rehametrics Cognitive exercise module. At the same time, while the patient completes the prescribed session, Rehametrics registers and collects all patient interactions, calculates correct and incorrect answers, measures reaction times and performs a comprehensive performance analysis that can later be exported in a detailed cognitive report.

# Rehametrics Cognitive

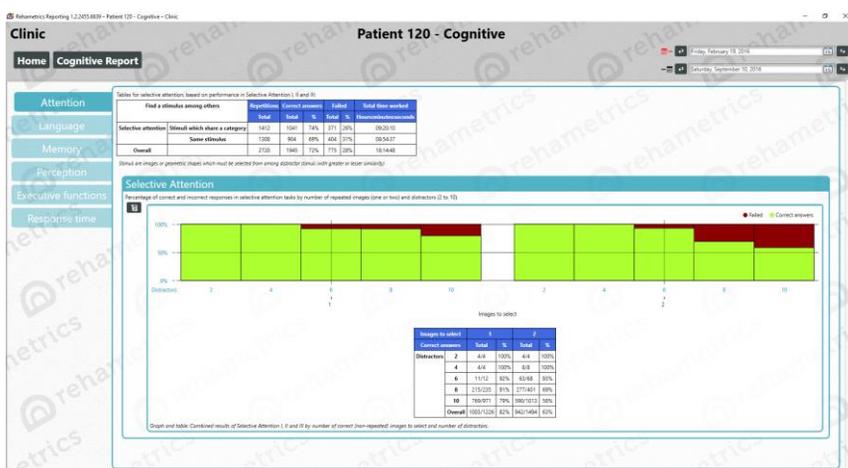
## MAIN CLINICAL AREAS

- Attention
- Working Memory
- Perception
- Language
- Executive Functions
- Activities of Daily Living



Our detailed cognitive report shows a summary of all data collected during the sessions completed by the patient and a detailed analysis showing patient performance within a clinical context. In this way, it is possible to obtain a quantified and objective analysis of patient evolution over time.

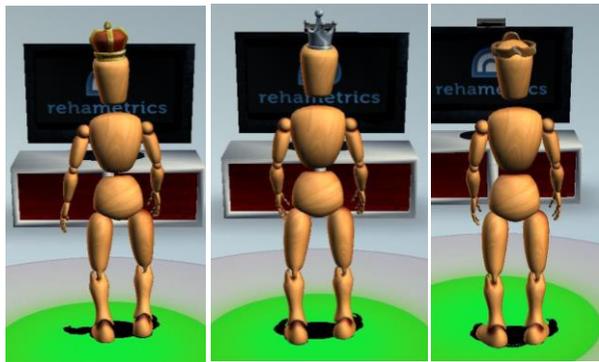
Rehametrics Cognitive is currently available for both the Windows and Android operating systems, making it possible to use existing laptops, tablets and even mobile phones for rehabilitation purposes in both clinical and home rehabilitation settings. As a result, it is possible to minimize investment needs to deploy Rehametrics Cognitive across care settings.



# Numerous Unique Features

## Modify Sessions in Real-Time

Clinicians can easily modify exercise difficulty and duration in real-time, without having to interrupt on-going rehabilitation sessions.

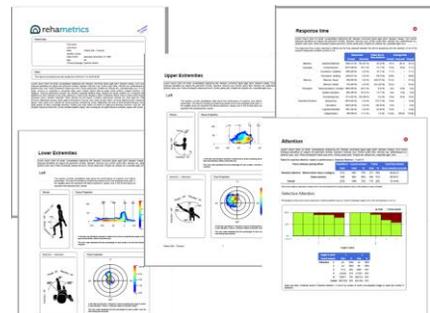


## More Motivation for Everyone

Patient rankings, gamification techniques, levels of difficulty, game achievements... Rehametrics includes different motivational elements for everyone!

## Customizable Clinical Reports

Easily generate and customize clinical reports for your patients using data collected during the sessions completed within Rehametrics. Print them or export them to PDF, as needed.



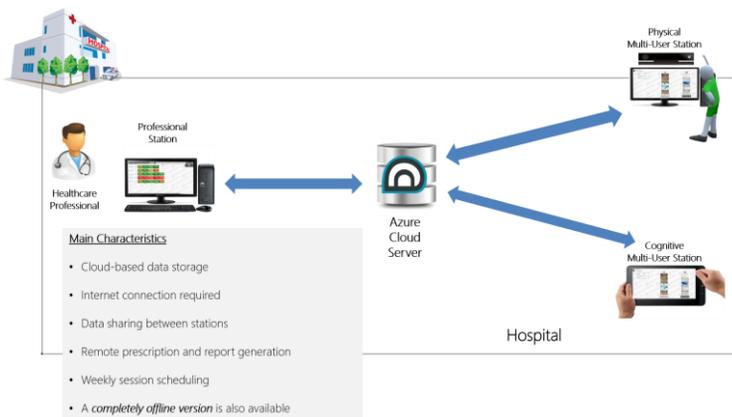
## Session Difficulty Adjusts Automatically with Performance

Rehametrics continuously analyzes performance while the session is being completed. The results of this analysis will be used to automatically adjust exercise difficulty. If the exercise is too easy for the patient, Rehametrics will increase its difficulty. If, on the contrary, the exercise is too difficult, Rehametrics will reduce the exercises's difficulty.



# Multiple Use Cases

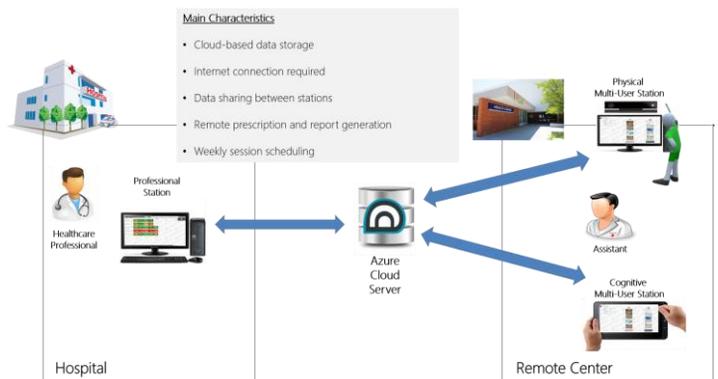
## Interconnect all Rehametrics Stations within your centre



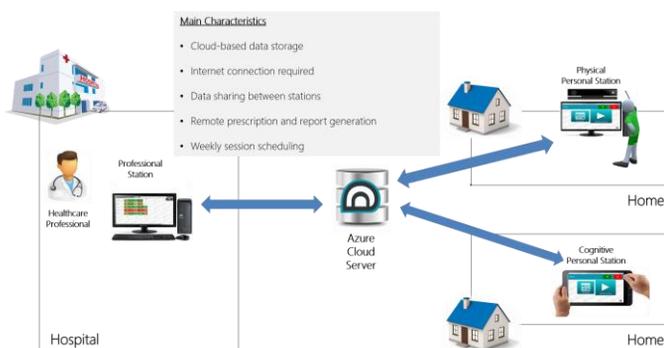
Share session data across Rehametrics stations while having a detailed view of what each patient has completed, from a physical or cognitive perspective, at any point of the rehabilitation process.

## Manage Patients and Prescribe Rehabilitation Sessions Remotely

Manage patients, prescribe physical or cognitive rehabilitation sessions and receive daily reports on patient performance at a distance. You can manage rehabilitation sessions in another location just as if you were there!



## Manage Rehabilitation Sessions directly at the Patient's Home



Patients can access prescribed sessions using easy-to-use and simple interfaces. Clinicians can prescribe weekly home rehabilitation plans for their patients and receive daily reports detailing what, when and how they have completed them.

# Clinically-Validated Outcomes



## Increase Clinician Productivity

Rehametrics helps healthcare organizations increase their productivity, delivering more rehabilitation sessions with the same available physical and human resources.



## Improve Outcomes and Treatment Efficiency

Every rehabilitation session – regardless of where it was completed- is quantified, analyzed and the resulting data stored. In this way, it is very easy to see patient improvement, in detail, session after session. All this information is then available to assist clinicians in everyday clinical practice.



## Increase Access to Rehabilitation and Enable New Services

Manage and monitor rehabilitation sessions remotely, bring rehabilitation services to underserved areas or offer patients telerehabilitation services at home. Rehametrics's unique remote management features enable all of this and more!



# rehametrics

Premios  
**autelsi**  
2012



**simo**  
network

janssen  
Janssen Healthcare Innovation



Microsoft Health  
Innovation Awards 2015  
WINNER

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