



EWAC MEDICAL

WE GET YOU MOVING



Aquatic Motion Analysis

Recorded Motion, Visible Progress



Welcome

"We get you moving," isn't just a slogan—it's a lifeline to those like Emily, whose world shrunk dramatically after an injury left her doubting if she'd ever dance at her daughter's wedding. EWAC's aquatic therapy equipment, installed at the local rehabilitation center, where water and technology blend in harmony. For Emily, the pool isn't just a facility; it's where miracles begin. Under the gentle guidance of her therapist, she finds herself surrounded by water, feeling lighter, freer, and more capable with each session. The fear and doubt that once clouded her mind start to dissipate, replaced by hope and determination.

Aligned with our mission to enhance the global quality of life, our slogan signifies more than just physical movement. It represents our commitment to rejuvenating lives, empowering individuals, revitalizing businesses, and, on a grander scale, propelling nations forward. By getting people moving, we're not only facilitating physical mobility but also driving progress and prosperity. We achieve this through our dedication to delivering the pinnacle of innovation and quality in our field, tailored to meet the specific needs of diverse cultures globally. This is how we fulfill our promise: "We get you moving," embodies our commitment to movement, improvement, and advancement for individuals, businesses, and nations alike.

Eric Legdeur - CEO

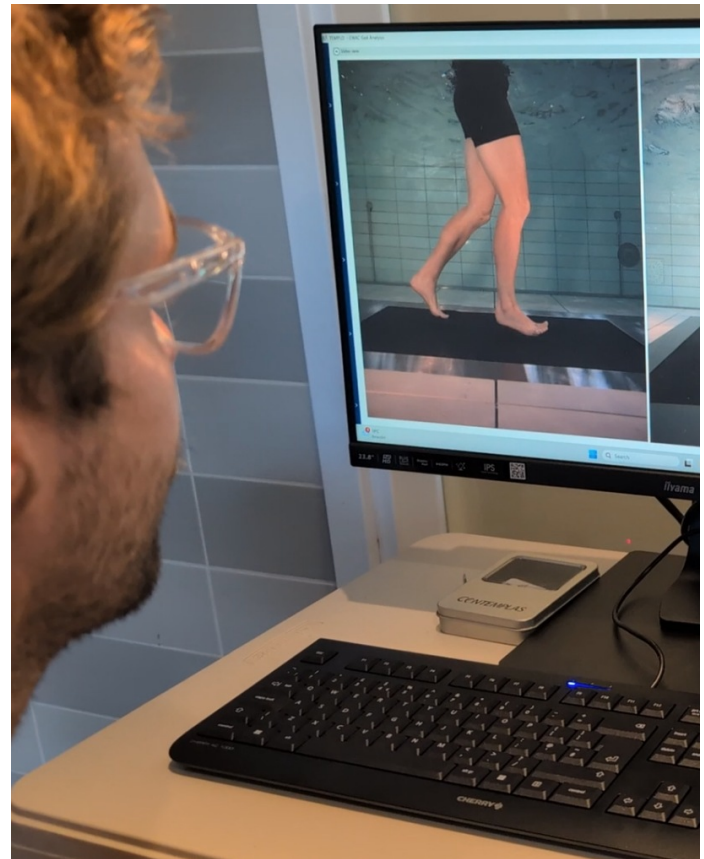
A handwritten signature in blue ink, appearing to read "Eric", with a horizontal line underneath.

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Introduction

Aquatic Motion Analysis

The EWAC Medical Aquatic Motion Analysis system records movement in the water and makes it visible on screen. Fixed cameras above and below the waterline capture the session in one synchronised view, so what happens underwater can be replayed, measured and compared afterwards. Nothing is attached to the person in the water and no preparation is required. The system documents and visualises movement; the professional draws every conclusion.



See What the Water Hides

Refraction at the surface, turbulence and speed make direct observation unreliable. A recording holds still: replay it frame by frame, mark the moments that matter, and place today's session next to an earlier one.

Believe – Movement You Can Show

At EWAC Medical we believe that what you can see, you can discuss. Movement in water is hard to judge with the naked eye: light bends at the surface, part of the body stays out of sight, and a step is over before it can be assessed. The picture of how someone moves then lives only in words and memory. Aquatic Motion Analysis records the session instead. Above- and under-water views run side by side on one timeline, so a professional can replay a movement, mark the moments that matter, and place today's recording next to one from a month ago. Not to replace professional judgement, but to give it something concrete to work with. Because movement that can be shown is movement that can be shared: with the person in the water, and with everyone else involved.



How It Works

Record, Review, Report

Aquatic Motion Analysis follows the same three steps every session. Fixed cameras above and below the waterline record what happens; the person in the water needs no markers, sensors or other preparation. The recording is then reviewed on screen — as a delayed live view, in slow motion, or frame by frame — with the above- and under-water images synchronised on a single timeline. The professional adds markers, timing events and notes directly on the video, and measures angles, distances and step length by hand. At the end of the session a structured report is generated automatically, with annotated stills, timings and the professional's own notes, ready to print or send.

One System, Two Configurations

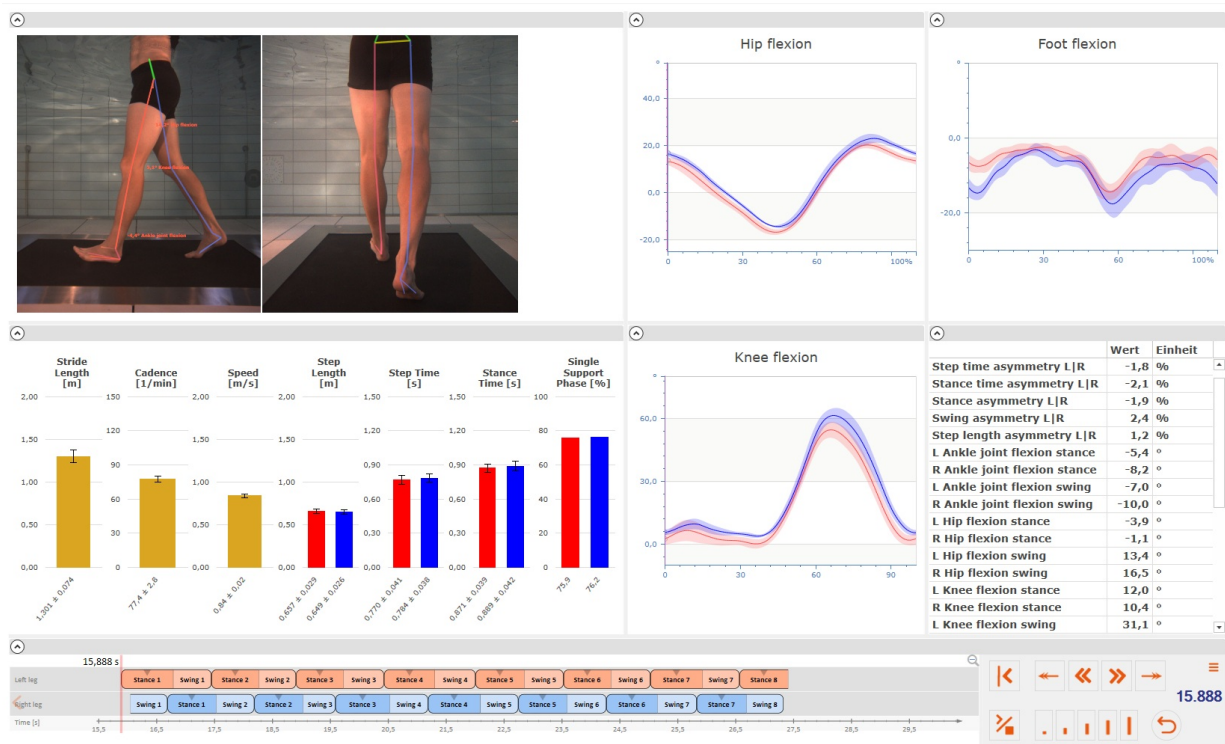
The base configuration offers live view, delayed view and recording, together with manual measurement of angles, distances, step length and timing. The extended configuration adds a markerless tracking module that follows the lower body and detects gait events automatically, deriving temporal and spatial values such as step length, cadence and a symmetry index. A multi-camera network captures movement from several synchronised angles, and a predefined dashboard and PDF report are produced without further handling. Both configurations share the same fixed camera positions and the same interface, so a facility can start with the base version and extend later without replacing hardware.



Why Choose Aquatic Motion Analysis?

Objective Documentation of Movement in Water

Recording is not disturbed by the conditions that limit direct observation: reflections on the surface, turbulence, clothing and the distortion of light at the waterline. Because the cameras stay in fixed positions, every session is captured from the same angle – which is what makes a comparison between two dates meaningful. Each marker, measurement and interpretation is placed by the professional; the system visualises and presents, it does not conclude. The result is a consistent visual record per person, useful for continuity between colleagues, for showing change to the person in the water, and for handing over to others involved.



Example analysis dashboard – joint angle curves, step parameters and left/right symmetry from a recorded session.

Specifications

System type	Camera-based system for recording, visualising and documenting movement in water
Configurations	Base version, and extended version with automatic gait analysis module
Camera set-up	Fixed above-water and under-water cameras, synchronised in a single view
Base functions	Live view, delayed view and recording; manual measurement of angles, distances, step length and timing
Extended functions	Markerless tracking of the lower body with automatic detection of gait events
Movement values	Temporal and spatial values such as step length, cadence and symmetry index (extended version)
Multi-camera option	Several synchronised angles for three-dimensional capture of movement
Annotation	Markers, movement paths, timing events and written notes placed on the video timeline
Session comparison	Recordings of the same person on different dates can be loaded side by side
Reporting	Structured session report with annotated stills, timestamps, events and notes; ready to print or e-mail
Preparation	No markers or sensors attached to the person in the water
Intended purpose	Recording, visualisation and documentation of movement. Not intended for diagnosis or for determining a course of action; interpretation rests with the professional

Drawings

Hydrotherapy

The Safest Way to Train Gait & Balance



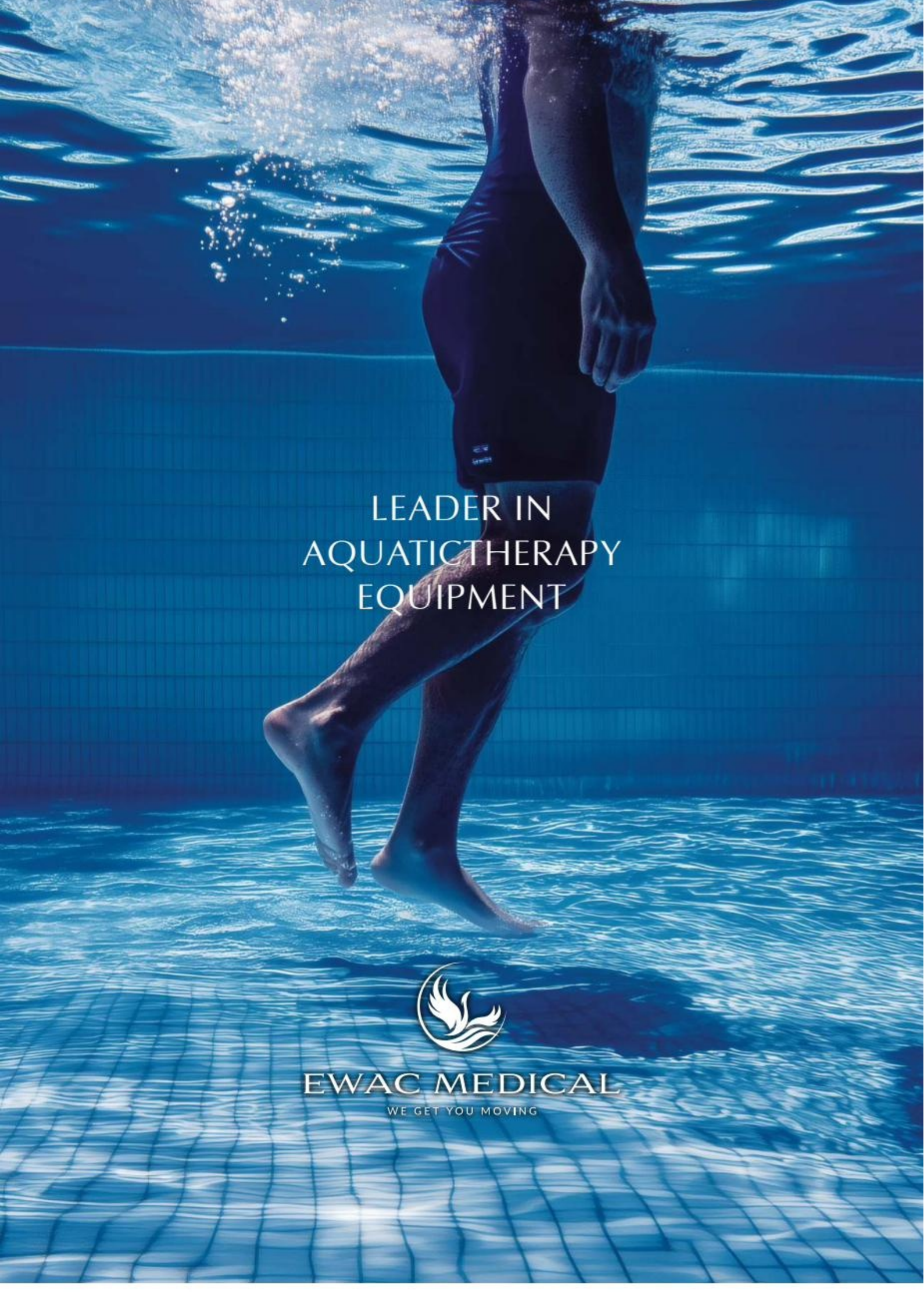
Hydrotherapy, or aquatic therapy, is a highly effective and safe method for improving gait and balance, particularly for individuals recovering from injury, surgery, or neurological conditions. The natural buoyancy of water reduces the impact on joints and minimizes the risk of falls, making it an ideal environment for rehabilitation and mobility training. The resistance provided by water also helps strengthen muscles, improve coordination, and enhance overall stability. Whether used for physical therapy, athletic rehabilitation, or fall prevention in older adults, hydrotherapy offers a controlled, supportive setting where progress can be made safely and effectively.



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ISO 9001, ISO 13485



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A person is shown from the waist down, standing in a swimming pool. They are wearing a black compression sleeve on their right leg. The water is clear blue, and the pool floor is visible with a grid pattern. The text "LEADER IN AQUATIC THERAPY EQUIPMENT" is overlaid in white capital letters.

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