

THERAPY 4.0: ALWAYS A STEP AHEAD

Intelligent sensors and robotic systems support patients most effectively on their health journey – in every phase of rehabilitation.

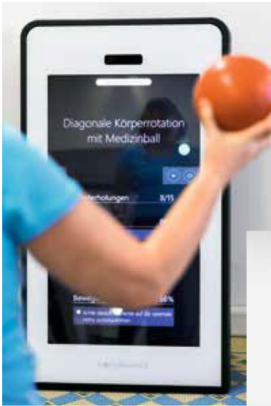


TOWARDS NEW TECHNOLOGIES

There's not a single technology that can replace therapists and their intricate understanding of the human body. But when it comes to high numbers of repetition, precision or working with heavy weights, technological support is essential.

SMART SENSORS

The Pixformance station at Medical Park Bad Rodach encompasses everything: a variety of exercises guided by a virtual trainer, which can be assembled into a personalized workout routine; camera sensors that track complex movements and provide real-time feedback; a computer that visualizes and evaluates the quality of the performed movements. That way, the progress of therapy becomes quantifiable, which encourages patients to keep practicing on their own or in small groups.



“IF PATIENTS CAN – EVEN FOR ONE MOMENT – FORGET ABOUT THEIR CONDITION AND HAVE FUN, THAT’S EXTREMELY VALUABLE.”

GUNTER HÖLIG,
HEAD OF THERAPY, BAD RODACH

TWICE AS EFFECTIVE

Therapists support, encourage and guide patients in every phase of rehabilitation. This is also true for training with the Pixformance station. This innovative system supports therapists, which patients benefit from in return. In other words, the increased efficiency of treatment also improves the quality of treatment.

THE TREATMENT GOAL IS REACHED MORE EFFICIENTLY AND FASTER WITH COMPUTER-SUPPORTED THERAPY.

PLAYFUL EXERCISING

During balancing workout, patients are provided with soft support from all sides by a mounting device in a 12-degree angle, which is adapted by a therapist before workout. The goal is to navigate a character on screen through a virtual environment and thereby collect rewards. This is aimed at regaining balance ability. The playful component motivates patients.



QUANTIFIABLE RESULTS

Why this type of machine? What is its goal? The therapist explains the machine and the patient starts with simple exercises. Together, they discuss the provided results, which are fast, objective and precise, so that both patient and therapist profit from them. Every detectable improvement confirms that they are on the right track. Therapists use the charts as a means for documenting this progress.



FASTER LEARNING

For stroke patients, repetition is especially important on their way to recovery. This means that they perform the same movements over and over again. At Medical Park Bad Rodach, robotic-based machines support patients to prolong their endurance. That way, patients can train longer, keeping their frustration levels to a minimum. This leg-crank ergometer stabilizes the heart and circulatory system and prepares patients for walking training.

