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The most common gait parameters such as step length, stance phase, swing phase, single support, step time, cadence, and speed are instantaneously (on-line) calculated and presented on the screen during the actual trials (Figure 3). The same values are presented in the off-line gait report

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(Figure 4).

Clinical Assessment of Spatiotemporal Gait Parameters in

...

Purpose: Gait analysis has provided important information about the variability of gait for patients prior to and after total knee arthroplasty (TKA).

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The objective of this research was to clarify how the different surgical techniques influence gait variability. Methods: Gait analysis was performed at 0.8, 1.0, and 1.2 m/s in three groups of patients (operated on using the conventional ...

Variability of gait parameters in

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Of The **patients with total knee ...**

Gait Parameters of Patients with Osteoarthritis of the Knee Joint 11 had no history of osteoarthritis of the knee joint and of hip joint, knee instability or major lower extremity joint surgery. These individuals had normal strength, a full range of motion of the lower extremities and no neurological

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GAIT PARAMETERS OF PATIENTS WITH OSTEOARTHRITIS OF THE ...

To assess gait parameters and patterns of patients with stroke, and the temporal changes of these parameters, a foot-switch gait analyzer was used to test 49 ambulatory patients with stroke and 24

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(PDF) Gait parameters following stroke: A practical assessment

Temporal gait parameters. The temporal parameters in all patients and matched controls are shown in Table 4. Overall, stance time for the paretic and nonparetic sides of patients were

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significantly longer (effect size: 0.24 and 0.53, respectively); the stratified comparison revealed significantly longer paretic stance time at 0.5–1.4 km/h and nonparetic stance time at 1.5–3.4 km/h.

Gait characteristics of post-stroke hemiparetic patients ...

Comparison of gait parameters with and

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without the support of a rollator. Eight studies analysed the influence of the use of a rollator on the spatio-temporal gait parameters. Two studies compared the gait parameters of FUs only [2, 21], two studies combined FUs and FTUs to one group [28, 29] and five studies analysed FTUs only [2, 23,24,25, 27 ...

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Walking with rollator: a systematic review of gait ...

When a patient with PD is asked to conduct an activity on a voluntary basis, such as, to walk with attention focused on the task, this person is able to modulate the gait parameters . While using cue for walking, there is a greater input of information, and the attention

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could be focused on the task.

Effects of external cues on gait parameters of Parkinson's ...

If a patient has less trouble turning than walking forwards, a psychogenic disturbance is likely. Widened base. With frank ataxia, base width is about 12 inches. If base width approaches two

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feet, the likelihood of psychogenic gait disorder rises, unless the patient has morbid obesity or an obvious structural explanation.

Abnormal Gait. Gait abnormality. Abnormal Gait info. Patient

clinical settings to assess gait dynamic balance in patients with subacute stroke

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is still rare. This is probably because the parameters extracted by accelerometric signals still need to be suitably adapted to a clinical population, in spite of previous studies on patients with stroke [11-12].

Assessment of upper-body dynamic stability during walking ...

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BACKGROUND: Treadmill training is used in rehabilitation and is described as improving gait parameters of patients with Parkinson's disease. **OBJECTIVES:** To assess the effectiveness of treadmill training in improving the gait function of patients with Parkinson's disease and the acceptability and safety of this type of therapy.

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Treadmill training for patients with Parkinson's disease.

Kinematic and kinetic gait parameters have never been assessed following robotic-assisted gait training in hemiparetic patients. Previous studies suggest that restraint of the non-paretic lower limb during gait training could be

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a useful rehabilitation approach for hemiparetic patients. The aim of this study is to compare a new Lokomat® asymmetrical restraint paradigm (with a negative ...

Effect of a robotic restraint gait training versus robotic ...

After a lesion to the central nervous

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system, many patients suffer from reduced walking capability. In the first rehabilitation phase, repeated walking exercises facilitate muscular strength and stimulate brain plasticity and motor relearning. However, marked limping, an unsteady gait, and poor management of obstacle clearance may persist, which increases a patient's risk of falling.

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Visually-guided gait training in paretic patients during ...

An ambulatory gait analysis method using body-attached gyroscopes to estimate spatio-temporal parameters of gait has been proposed and validated against a reference system for normal and pathologic gait. Later, ten

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Parkinson's disease (PD) patients with subthalamic nucleus deep brain stimulation (ST ...

Gait assessment in Parkinson's disease: toward an ...

Gait problems are common in patients with multiple sclerosis (MS) and ranked by them as the most important bodily

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function . There is evidence that patients with MS walk slower, with shorter steps, lower cadence, and less joint movement. Furthermore, they exhibit more variability in most gait parameters .

Local dynamic stability as a responsive index for the ...

It is thought that fatigue caused a

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decrease in muscle strength, making walking worse. There are not enough studies investigating whether fatigue affects gait parameters in MS patients. The aim of this study is to examine the effects of muscle fatigue on muscle strength, joint position sensation, and gait in MS patients.

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Muscle Fatigue in Patients With Multiple Sclerosis - Full ...

Some typical spatial gait parameters are: step length, stride length, step width and foot angle. Step length is the length measured parallel to the Line of Progression of the body, from the posterior contact (heel) of the previous footfall to the posterior contact (heel) of

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the current opposing footfall.

The Gait Cycle: Phases, Parameters to Evaluate ...

BACKGROUND: Gait impairments in Parkinson's disease (PD) are quantified using inertial sensors under standardized test settings in the hospital. Recent studies focused on the

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assessment of free-living gait in PD. However, the clinical relevance of standardized gait tests recorded at the patient's home is unclear.

Clinical Relevance of Standardized Mobile Gait Tests ...

gait parameters and patterns of patients with stroke, and the temporal changes

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of these parameters, a foot-switch gait analyzer was used to test 49 ambulatory patients with stroke and 24 controls. Patients walked significantly slower than controls, with decreased cadence, increased gait cycle, and increased time in double limb support.

Gait parameters following stroke: A

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practical assessment

This study investigated the effect of auditory (musical) rhythm on temporal parameters of the stride cycle and electromyographic (EMG) activity in gait of stroke patients. Ten subjects were studied over three trials.

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