**XFT-2001 Foot Drop System**

- It is small and quite easy to use.
- Employs advanced sensor technology.
- Wear almost any type of shoe.
- Reconstruction neural pathway.
- Active muscle contraction.

**AFO**

- Give the user the feeling of disability.
- Passive to correct the gait.
- It is big and heavy and needs special shoes to fit.
- It makes the walking pattern abnormal.
- It can't help to reconstruct neural pathway.

**Electrical Foot Stimulator**

- Foot sensor is used to trigger the electrical stimulation.
- Needs to wear special shoes, and the electrode cable is exposed.
- No gait analysis; the patient's gait is abnormal.

**Wearing Schedule**

<table>
<thead>
<tr>
<th>Days</th>
<th>ON Time</th>
<th>OFF Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4</td>
<td>15-60min</td>
<td>30min</td>
</tr>
<tr>
<td>4-6</td>
<td>1-3hr</td>
<td>30min</td>
</tr>
<tr>
<td>7-9</td>
<td>3-5hr</td>
<td>30min</td>
</tr>
<tr>
<td>10-12</td>
<td>5-6hr</td>
<td>1hr</td>
</tr>
<tr>
<td>13-14</td>
<td>6-8hr</td>
<td>1hr</td>
</tr>
</tbody>
</table>

**Analysis**

<table>
<thead>
<tr>
<th>Metric</th>
<th>1ST USE</th>
<th>8TH WEEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improvement of Walking Speed</td>
<td>17%</td>
<td>34%</td>
</tr>
<tr>
<td>Improvement of Gait Symmetry</td>
<td>28%</td>
<td>45%</td>
</tr>
<tr>
<td>Reduction of Stride Variability</td>
<td>23%</td>
<td>31%</td>
</tr>
</tbody>
</table>

**FES Control Unit**

- Stim Unit
- Foot Sensor
- Electrodes
- Product Packaging
- Medical Record Management System

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ISO 9001
ISO 13485
Qualified Enterprise

Innovative Intelli-Sense Gait Sensor

Technology Ugrades our Life
Innovative Technology — A Breakthrough for Treatment of Foot Drop!

The XFT-2001 is a battery-operated, electrical stimulator that can be used for functional electrical stimulation (FES). Central nervous system injuries often cause a gait disorder called “Foot Drop” which is the inability to raise the foot while walking and therefore results in dragging of the foot, instability and increased effort during gait.

The XFT-2001 is an advanced neuroprosthesis designed to improve gait in people suffering from foot drop as a result of a central nervous system injury or diseases such as stroke, traumatic brain injury, multiple sclerosis, cerebral palsy or incomplete spinal cord injuries. The XFT-2001 System consists of Cuff, FES Control Unit, Peripheral Nerve Stimulator and Remote Control. These components communicate wirelessly, thus enabling easy and comfortable use without cumbersome wires. The XFT-2001 delivers electrical pulses to the Peroneal Nerve which controls the movement of the lower leg muscles, causing them to raise the foot at the appropriate phase of walking and therefore prevents foot drop.

How XFT-2001 to Work?

When the tilt angle of ‘ON’ threshold is reached, the electrical stimulation will be triggered.

Application Process

The doctor evaluation of patient’s condition
Find Stimulation Points
Gait Analysis and Parameter Setting
Gradually rehabilitation
Reassessment the patient’s condition
Walking and Training

Walking Mode

Assist the patient back to normal walk has 10 levels for choice, prevent gradually to improve the walking speed and gait.

Training Mode

The Rehabilitation Training May Gain Following Benefits:
- Facilitate muscle re-education
- Prevent or retard disuse atrophy of the lower leg muscles
- Maintain or improve range of motion of the ankle joint
- Improve local blood circulation
- Improve gait speed or gait mechanics
- Reduce walking energy consumption

Before and After Comparison

Without XFT-2001
With XFT-2001
After used the XFT-2001 for a period of time, the user’s walking speed and gait has improved.