

Overcoming motion disorders

Many people around the world suffer from disorders in the lower part of their bodies. These disorders affect their legs and walking with problems. Multiple sclerosis is considered from the common diseases which causes motion disorders and it's about a condition that can affect the brain and spinal cord, causing a wide range of potential symptoms, including problems with vision, arm or leg movement, sensation or balance. Additionally, paraparesis are from the most diseases which have symptoms of motion disorders and it occurs when you're partially unable to move your legs. To overcome the previous diseases, the patient should go to physiotherapist and take the required medicines to care from the Multiple sclerosis or paraparesis and other diseases which cause motion disorders. After caring from these diseases, the patient still has a problem in walking and does not walk like normal people.

The created device was designed to help in making the patients' steps like normal people. The created device has an idea about making a good use of the whole organ to feel with the details of the steps. By using the mechanism of taking the step by using signs from hands. As making an integration between arms and legs as a link between the knee joints and the handle which control on the movement completely. The patient enters to the device and closes the horizontal pole which protects him from falling to the land then, wears the support which keeps him from setting down and keeps the knee from flexing. After that, his legs attach to the artificial legs via wide band. After finishing the previous steps, the patient becomes ready to start the movement.

Through pull and push the handle, the motor in the knee joint starts to move according and in the same direction of handle motion and as a result, the thigh joints move also. By continuously practicing, the patient becomes can take the right and normal step. Obviously, can overcome the symptoms and difficulties of diseases which emit motion disorders.

The degree of the case improvement differs from person to another, it depends on the patient's response and the desire willing in being healthy as possible. Furthermore, the cases conditions to use this device are the person should be having a good health arms, have a large sensitive in legs relatively to feel with each step in his motion. Besides, has a ready mind to understand the mechanism of the movement.