

# **Oswestry Results from DMD clinical trial**

## **Back Pain Improvement with VECTTOR Therapy**

A recent small, double-blind, randomized, placebo-controlled clinical trial of VECTTOR treatment for nonambulatory children with Duchenne Muscular Dystrophy involved back pain as shown with an Oswestry Disability Index. Results showed that with 6 months of Active treatment compared to 6 months of Placebo treatment, those children receiving Active VECTTOR treatment had nearly 4 times the improvement in the Oswestry Results compared to those children receiving Placebo treatment. Those children receiving Active VECTTOR treatments had an average of 29% improvement compared to 8% improvement with Placebo treatments.

These children in wheelchairs had severe to crippling disability due to back pain (40 to 80% disability). According to the Oswestry Test, “Severe disability (40 to 60%)” means that pain is the main problem in this group of patients affecting travel, social life, and sleep. “Crippling disability (60 to 80%)” means that back pain affects all aspects of these patients’ lives.

Children receiving Active VECTTOR treatment improved 29% in 6 months while children receiving Placebo VECTTOR treatment improved 8%. The minimal detectable change (at 90% confidence) is 10% points meaning that at least a 10% change is required to be clinically significant. In this study, there was a 21-point improvement in those children receiving Active VECTTOR treatment. Fairbank J, Couper J, Davies J, et al. “The Oswestry low back pain Questionnaire.” *Physiotherapy* 1980;66: 271-273.