

Assessing the Effects of Adaptive Tricycles on the Quality of Life in Children with Movement Disorders



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BACKGROUND

Children with movement disorders often experience abnormal muscle tone & decreased physical strength.

➤ This affects their ability to participate in daily childhood activities and their quality of life.

AMBUCS works closely with PTs, OTs, & SLPs. These therapists acknowledge that Amtrykes offer many therapeutic benefits, including **improved motor skills, strength development, & self-esteem.**

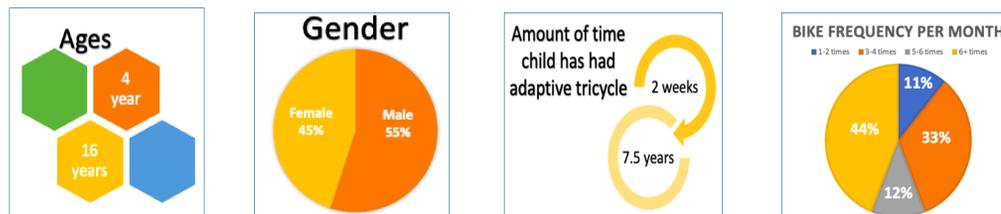
OBJECTIVE

To determine if the use of Amtrykes have an affect on the overall quality of life in children with movement disorders.

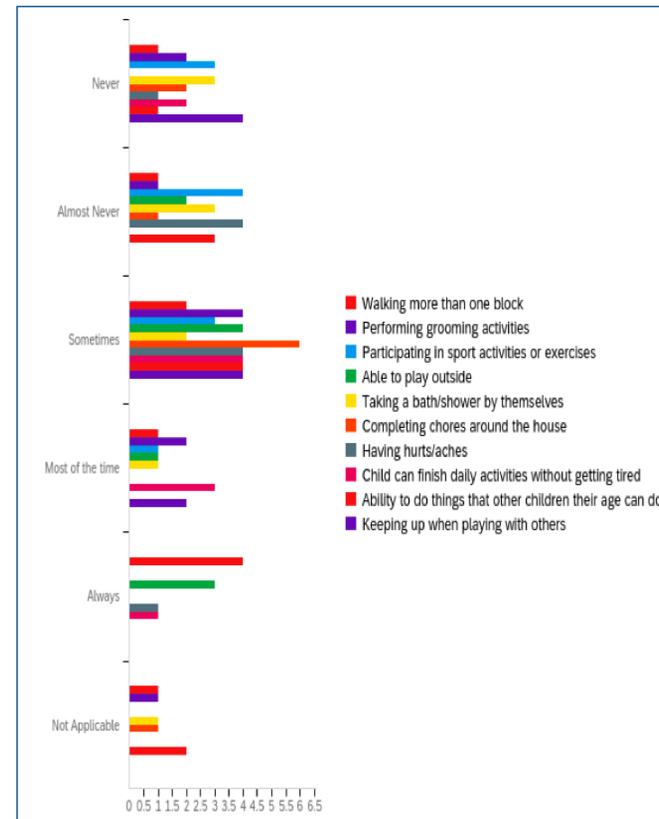
RECRUITMENT & PARTICIPANTS.

- 17 participants who all had an Amtryke
 - Recruited through Bluegrass AMBUCS
 - Qualtrics Survey sent to 97 families
 - Those with Amtryke and those on wait list
 - Other recruitment methods: reaching out via email, attending bike giveaways and chapter events
 - Limited due to COVID-19
- All Participants met AMBUCS requirements to receive an adaptive tricycle

DEMOGRAPHICS



QUALITY OF LIFE



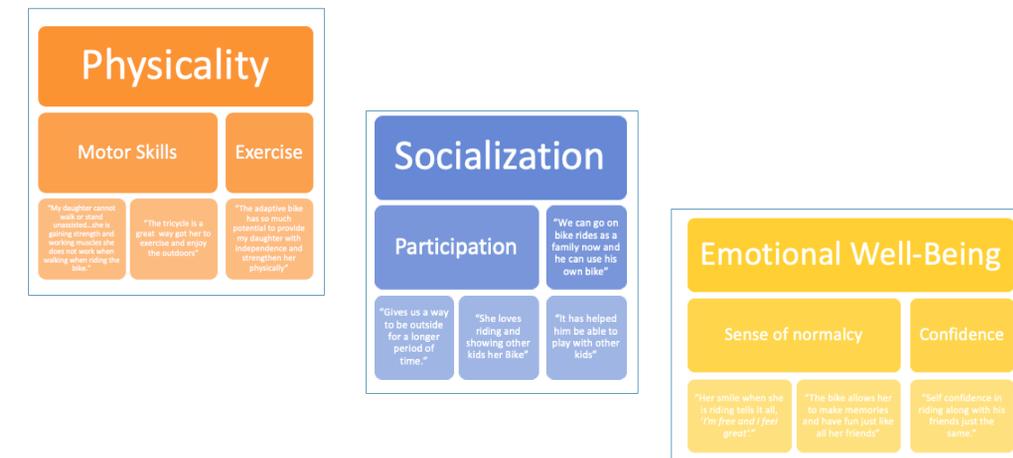
CONCLUSION

The quality of life portion of the study confirmed that children with movement disorders are unable to fully participate in activities at the same level as their peers.

The survey then confirmed that the Amtrykes could provide opportunities for increased community participation.

- 100% of respondent say the Amtryke has had a positive impact on their child's quality of life.

BENEFITS



SIGNIFICANCE

This type of information is important to justify future investments in these organizations

Studies such as this may help lead to insurance coverage of adaptive tricycles in the future.

PT's can also use these findings to justify adding adaptive bikes to their exercise programs for children with movement disorders

Our study is also relevant for multiple populations of children with different movement disorders.

THANK YOU

To our participants and the Bluegrass Chapter of National AMBUCS

Amtryke Influence

