

Massage Therapy for Dystonia: A Case Report

Gold Award Winner of the 2017 Massage Therapy Foundation Student Case Report Contest Michelle Lipnicki, MacEwan University

Introduction

Background

Dystonia is a neurological disorder, characterized by involuntary muscle spasms and tremors, resulting in abnormal movements and posture. Symptoms include pain, spasms, tremors, and dyskinesia. Conventional treatments include medication, botulism injections, and surgical intervention. Many dystonia patients seek complementary and alternative medicine (CAM) therapies such as massage, but the effects of treatments are not well documented. Little research was found on massage and dystonia. This study documents massage treatment for dystonia, in a specific case.

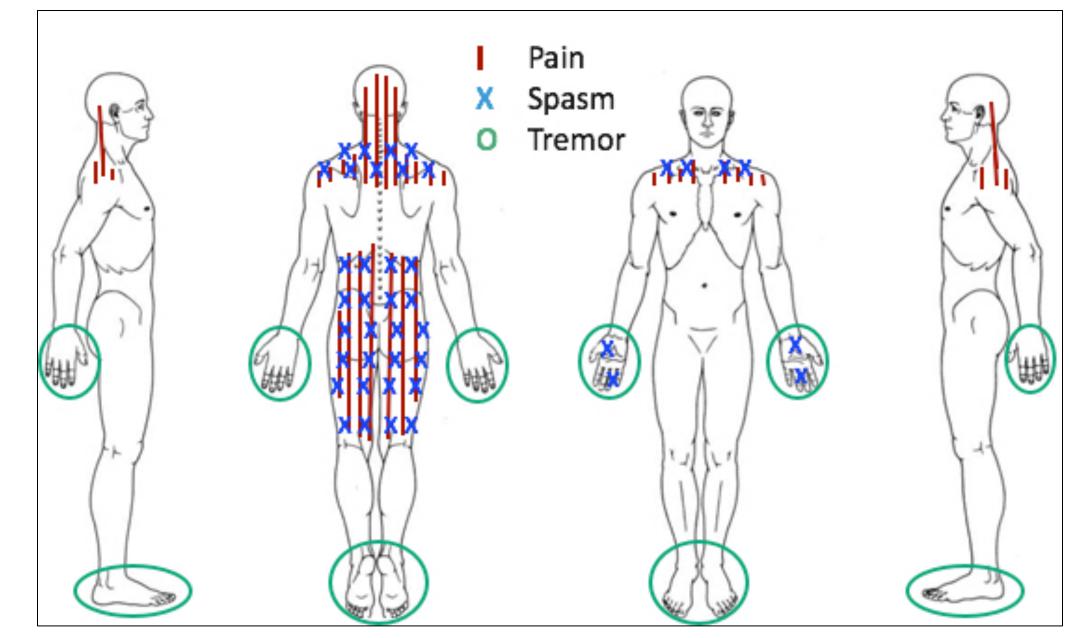
Objective

To examine the effects of massage therapy on pain, dyskinesia, and functional mobility in activities of daily living in a patient with dystonia.

Methods

Patient Profile

A 51-year-old female presented with symptoms of pain, spasms, and tremors, affecting functional mobility in activities of daily living. She first experienced symptoms following a rock-climbing accident in 1998, and was diagnosed with dystonia in 2003.



Patient's symptom profile at initial assessment

Treatment

A student massage therapist administered five massages over a six-week period.

Techniques used:

- Swedish massage
 - Hydrotherapy
- Myofascial release
- Stretching
- Remedial exercise

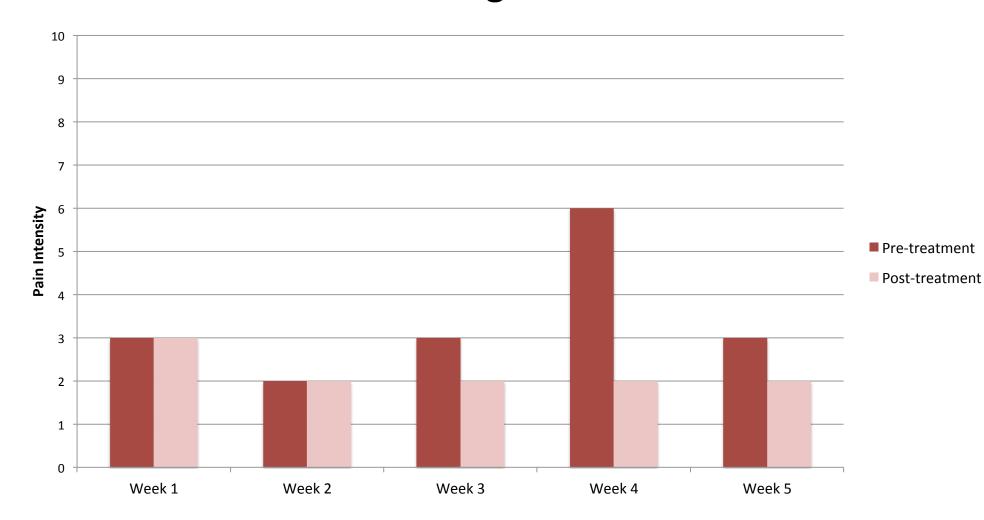
Assessment

- Pre- and post-Numeric Rating Scale for pain
- Frequency of night pain
- Modified Bradykinesia Rating Scale
- Timed Up and Go Test
- Functional Rating Index
- Modified Gait Efficacy Scale

Results

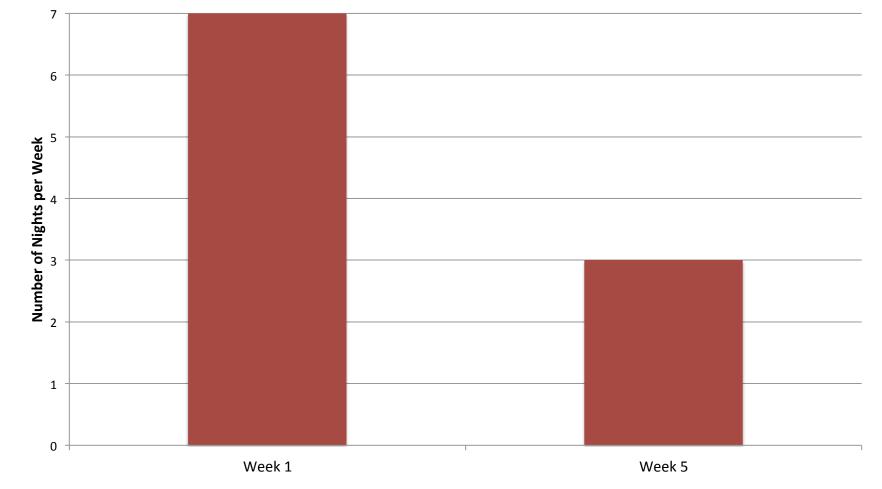
Positive Outcomes

Pre- and Post-Numeric Rating Scale for Pain



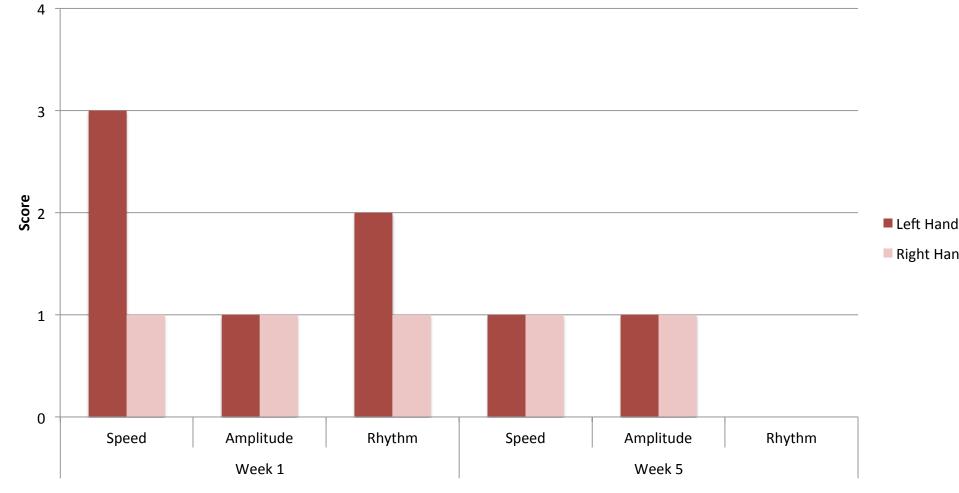
Post-treatment pain intensity generally remained the same or decreased.

Frequency of night pain



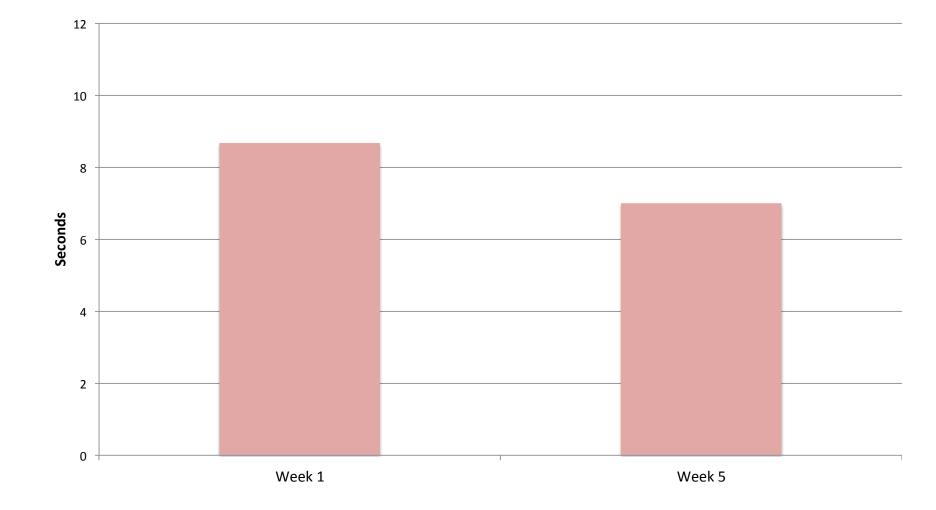
A decrease in frequency of pain experienced at night was shown.

Modified Bradykinesia Rating Scale



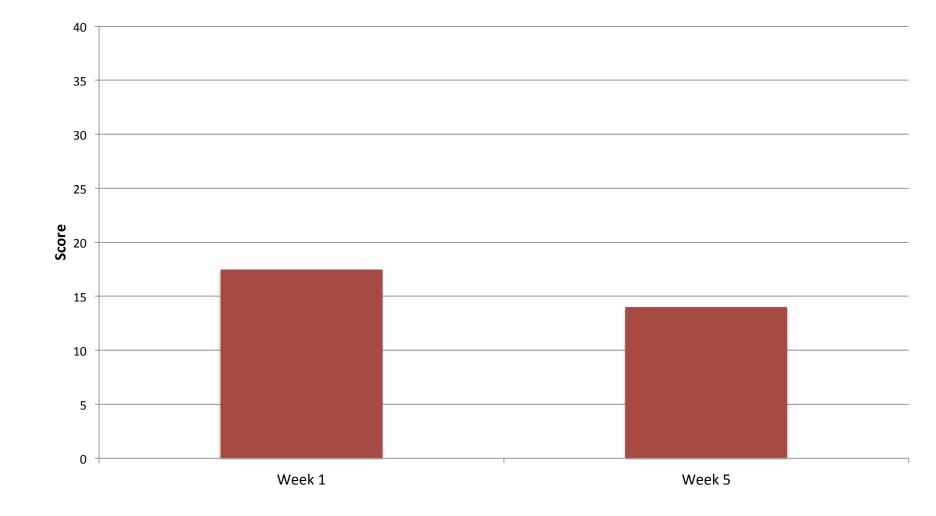
Decreased scores show an improvement in kinematic variables of speed and rhythm

Timed Up and Go Test



Decreased test time shows an improvement in test score.

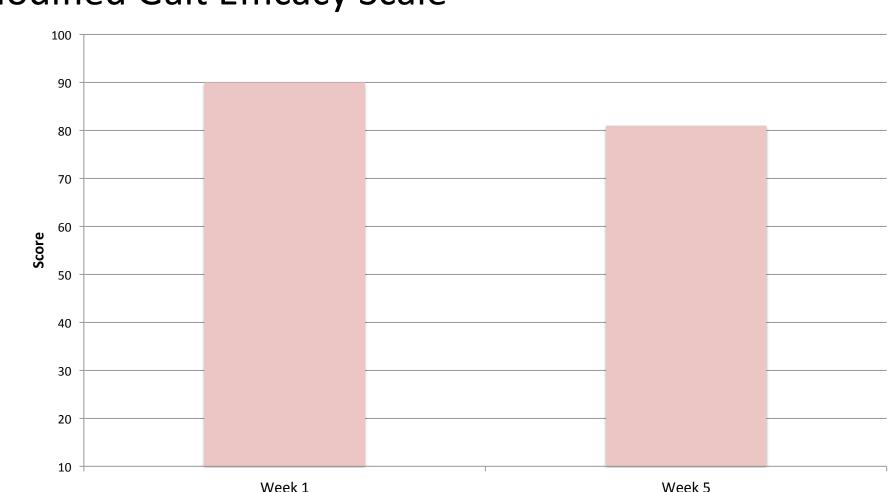
Functional Rating Index



Decreased score shows an improvement in subjective functional ability.

Negative Outcomes

Modified Gait Efficacy Scale



Decreased score shows a worsening of subjective gait ability.

Mov Disord. 2013;28(7):874-883. doi:10.1002/mds.25579.

for dystonia, as more general practitioners are suggesting CAM, and more patients are using these therapies.

For the future:

- Recent research implicates a need to investigate tactile inputs such as massage and its effects dystonia
- Randomized controlled trials, larger sample sizes, longer evaluation periods, more forms of dystonia, and isolation of various massage techniques for neuromuscular conditions need to be studied in clinical trials

Conclusion

Dyskinesia decreased, with the patient executing smoother

The negative outcome may be explained by the patient's altered

gait during variable weather conditions during the study period.

The application of slow, rhythmical techniques, with moderate

decreased the precision of research, evaluation of progress,

Consistent feedback could not be obtained due to treatment

Multiple massage techniques were employed; conclusions

could not be drawn regarding specific effects of each type

A longer observation period may have increased reliability

Massage therapy may be a viable alternative or adjunct therapy

pressure, likely decreased SNS firing and increased relaxation,

affecting movement patterns and perceived symptoms.

A lack of specific dystonia classification in diagnosis

plan modifications in the final two sessions

The results demonstrate a positive effect on symptoms of

Functional mobility improved, particularly in standing

dystonia through massage therapy:

Intensity and frequency of pain decreased

walking and squatting movements

Shortcomings of this case study:

and treatment design

Acknowledgements

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