# Unusual Management of Adult Onset Dystonia:

UCI University of California, Irvine

A Case Study Kyaw Lin, DO, Peter J Lee, DO, Danielle Perret, MD

Department of Anesthesiology & Perioperative Care, University of California, Irvine

### Introduction

Dystonia is posturing or movementofa specific musde group. The adultonsetdy stonias in the cervical regionor spasmodic torticollis (ST) is more common than most believe. Most etiologies of the condition are idiopathic with potential genetic involvement.

Dystonia most commonly involves the stermocleidomastoid muscle, hence the higher frequency of ST seen. Emotional stress and fatigue typically worsen dystonia, whereas rest and relaxifin improve the spasms, occasionally with resolution during sleep.

# Types of neck dystonia Torticollis Laterocollis Retrocollis Antecollis

The above illustrates the different types of neck dystonias that can be seen

in patients.

### **Case Report**

A 61 year-old female presents to our clinic with chief complaints of chronic musculos keletal pain and migraines. Her symptoms started while she wasin high school and was exacerbatedby a recentcar accident. The patient noticed intermittent cervical dystoria after the car accident.

Patient's constellation of symptoms were previously treated with occipital nerve blocks, cervical radofrequency ablation, and chronic opioid use. Patient was scheduled for a routine trigger point injection for her significant dystonia. Patient was noted to have significantifishes ided laterocollis.



Depicted is an example of a person with right-sided bterocollis.

## Results

Patient was given trigger pointinjections in her right medial and superior muscles: trapezius and cervical paraspinals.

The total volume of local anesthetic used was 7mL. After each trigger point was done, the patient was noted to have significant improvement in her dy stonia. Cervical myofascial release was applied as well to help facilitate the process of recovery. At the conclusion of the procedures, the patient was almost back to baseline.



Example of trigger point injection location to the cervical parasphal musculature

### References

Berman, Brân D et al "Psychâtric Associations of Adul-O neet Focal Opetonia Phenotypes." Journal of Neurology, Neurosurgery & Psychâtry 88.7 (2017):

Martho, Delde et al. "Age at Onset and Symptom Spread in Prinary Adul-onset Stephanospasm and Carvical Cycloris." Movement Disorders 27. 11 (2010): 1447–1450. Web.

1712-1713. Web.

East, Marian L, Alin Freeman, and Stewert Factor. "Add-O meet Dystoria." Handbook of obtain neurology 100 (2011): 465-511. Web.

Spper, G. J. et. al. "Adult-Ornest Focal Dystonias: Present at be and "Treatment" Options." Terressage medicine: journal of the Terressage Medical Associate 30.1 (1997): 18-20. Web.

der Djetonic Overview and Gase Presentation." Journal of Apphilinte Practice 14.4 (2008): 255-257, Web.

Left Berandra et al. "Translet International England to Motor District Professional Despite. The Newton Sect." Moun

Gobrey, S.M., and S.Fahn. "Transled Options as a Completion of Virbals." Journal of Neurology, Neurosurgery & Psychilery 50.9 (1987): 5238-9. Web.
Worn CS. Worn St. & new lock of Linear most Neuronal Section (Sec. 2012-2012-2013-2014).

### Conclusions

Adult onsetcervical dystonia is common however the etiology is unclear. Management is usually conservative, with the mainstay treatmentbeing physical therapy. The treatmentfor cervical dystonia likely involvessensory feedback responses called "destes analonois les".

We believe thatour trigger pointinjections ellicited such a response by temporary relaxation of musde cords which allows for energy to the actin-myosin chains causing lengthening of the muscle fiber (Wong, 2012).