## Clinical Characteristics of Oromandibular Dystonia: a Multicenter Review of 201 Cases Laura Scorr, Stewart A. Factor, H.A. Jinnah for the Dystonia Coalition Department of Neurology, Emory University School of Medicine, Atlanta, GA.

The overall goal of this study is to better characterize the clinical

features of oromandibular dystonia (OMD) in a large multicenter

OMD is a rare form of dystonia that affects the masticatory. facial and lingual muscles.

Diagnosis and treatment are often delayed because OMD is not

well recognized, and optimal treatment methods are not

OMD patients tend to be very disabled because of inability to

cohort.

The Dystonia Coalition is an NIH-funded multi-center collaboration aimed at advancing clinical research for isolated

dystonia syndromes. Review of the Dystonia Coalition and Emory data offers a unique

opportunity to review a large sample of cases to better describe the clinical characteristics of natients with OMD

Study population: We analyzed data collected from 164 OMD patients enrolled across 26 international sites in the Dystonia

within the last year for OMD Data Collection: All Dystonia Coalition subjects completed

was extracted from chart review

questionnaires for demographics. A movement disorders specialist determined distribution of dystonia, areas affected and severity as determined by the Global Dystonia Rating Scale A subgroup of the nations also completed the SF afultern Health Survey assessing quality of life, Beck Depression II Scale, and Liebowitz social anxiety scale. For Empry natients data on clinical characteristics, treatment type, dosages and response

Coalition and included 37 additional patients evaluated at Emory

· Statistical Analysis: Descriptive analysis for sample characteristics was completed. ANOVA for the difference in group mean and etiologic linear regression modeling were performed. All data analysis was using SAS version 9.4

Dystonia Coalition

Table t: Characteristics of OMD patients

Table 3: Self-reported depression, anxiety and quality of life among natients with OMD in the Dystonia Coalition (N=42) Mean

SF-35 Quality of Life

BDI Score

Table 3: Mean SF-36 sub-scale scores

ANOVA for mean BDI score, LSA score, and SF-36 scores showed no significant difference by distribution of dystonia. · Linear regression analysis showed that BDI score (n.co.got) was

a significant predictor of SE36 mental component score and physical component score controlling for age, sex, total GDRS score and LSA score.

· OMD patients had mean LSA score indicating social phobia, and mean SF-16 scores indicating impaired mental and physical quality of life.

 Treatment with botulinum toxin injections resulted in so-soox improvement in 78% of OMD patients.

. This cohort of 201 OMD patients is the largest yet described. . The majority of patients treated with botulinum toxin injection reported improvement in symptoms and 78% reported 50-100%

improvement. This contradicts prior reports that botulinum toxin is not an effective treatment for QMD. Prospective studies are applied to confirm this · OMD is associated with increased social anxiety and impaired

quality of life, with SFt6 scores that are worse than those reported in the literature for blenharospasm and CD. We hypothesize that dystonia in the oromandibular region may be a particularly strong predictor of poor quality of life