## ABSTRACT

## The Influence of Linguistic Complexity on Speech Movement Stability in Children with CP Ignatius S. B. Nip

Children with cerebral palsy (CP) have impairments in movement execution and motor control that affect their speech production. Speech production is process that relies on multiple domains, including motor control and language. Studies in typical-development suggest that speech motor control is affected by linguistic task demands. Information regarding the relations between speech motor control and language in children with CP would provide a better understanding on how the pathophysiology of CP affects speech production in these individuals. The current study will examine 10 children with CP and 10 age-and sex-matched peers, ranging in age from 4 to 15 years of age. Each participant will produce 10 repetitions of a simple sentence and a complex sentence. Speech movement stability for the two sentences will be calculated and compared between groups. Preliminary results from one child with CP and one typically-developing peer indicate that syntactic complexity affects speech movement stability in both speakers.