Effects of utterance length and phonologic similarity on
syllable timing in healthy and dysarthirc speakers

K.J. Reilly, K.A. Spencer

The effects of sequence length and phonologic similarity on inter-syllable intervals were investigated during a reaction time protocol in healthy adult speakers. The results were compared to predictions of a Competitive Queuing model of serial behaviors and provided the basis for a model of syllable timing in speech sound sequences. Patients with ataxic and hypokinetic dysarthria were also included in the current study and an analysis of their performance provided information into the neural substrates supporting speech sequencing processes.