

## Analysis of Speech Fluidity by Sequence

Douglas E. Cross, (rev. 2004)

**Instructions:** Rate each of the following speech movement behaviors along a five-point continuum scale for the characteristics shown in parenthesis. The scale represents the degree both naturalness and effectiveness of the behavior with for the characteristics shown in parenthesis. A rating of 3 indicates a "typical" degree of the behavior for normal speakers under non-stressful speaking conditions. Ratings of 1 and 5 represent extreme levels of the behavior with 1 being extremely low and 5 being extremely high degrees of the behavior.

						<b>COMMENTS</b>
<b>PRE-ONSET PHASES</b>						
Lung Volume (Low/High)	1	2	3	4	5	_____
Breathing (Continuous/Stopped)	1	2	3	4	5	_____
Breathing Transitions (Gradual/Abrupt)	1	2	3	4	5	_____
Resp/Abdominal Tension (Relaxed/Tense)	1	2	3	4	5	_____
Vocal Fold Position (Open/Closed)	1	2	3	4	5	_____
Vocal Fold Tension (Relaxed/Tense)	1	2	3	4	5	_____
Articulator Tension (Relaxed/Tense)	1	2	3	4	5	_____
<b>ONSET PHASES</b>						
Sequence (Forward/Nonforward)	1	2	3	4	5	_____
Lung Volume (Low/High)	1	2	3	4	5	_____
Exhalation Trans Abruptness (Low/High)	1	2	3	4	5	_____
Exhalation Speed (Slow/Fast)	1	2	3	4	5	_____
Vocal Fold Contact Force (Soft/Hard)	1	2	3	4	5	_____
Vocal Onset Abruptness (Low/High)	1	2	3	4	5	_____
Articulation Abruptness (Low/High)	1	2	3	4	5	_____
<b>BLENDING PHASES</b>						
Movement (Blended/Fragmented)	1	2	3	4	5	_____
Extraneous Movement (Low/High)	1	2	3	4	5	_____
Force (Low/High)	1	2	3	4	5	_____
Movement Speed (Slow/Fast)	1	2	3	4	5	_____
<b>OFFSET PHASES</b>						
Location (Natural/Unnatural)	1	2	3	4	5	_____
Abruptness (Low/High)	1	2	3	4	5	_____
<b>BETWEEN PAUSES</b>						
Blending (Continuous/Fragmented)	1	2	3	4	5	_____
Breathing (Continuous/Stopped)	1	2	3	4	5	_____
Vocal Folds Position (Open/Closed)	1	2	3	4	5	_____
Muscle Force (Relaxed/Tense)	1	2	3	4	5	_____

Douglas E. Cross, (revised, 2004)

## **SUMMARY COMMENTS**

**Pre-Onset**

**Onset**

**Offset/Pauses**

**Transitions**