

Appendix 2. Analysis of type (left) and severity(right) according to speech production units

Analysis of type by speech production units		respiration	vocalization	resonance	articulation	prosody
phoneme	spastic	1	1		2	
	flaccid					
	ataxic					
	hypokinetic					
	hyperkinetic					
	UUMN					
syllable	mixed		1			
	etc	2	4	1	1	
	spastic	1	3		3	1
	flaccid			1		
	ataxic		1			
	hypokinetic					
word	hyperkinetic					
	UUMN				1	
	mixed		2			
	etc	2	2		3	3
	spastic				4	
	flaccid				2	
sentence	ataxic					
	hypokinetic					
	hyperkinetic					
	UUMN		1		2	
	mixed					1
	etc	1	1		5	3
paragraph	spastic				1	2
	flaccid					2
	ataxic					1
	hypokinetic					
	hyperkinetic					
	UUMN					
paragrpah	mixed					1
	etc			1	2	

Analysis of severity by speech production units		respiration	vocalization	resonance	articulation	prosody
phoneme	mild				1	
	mild-to-moderate					
	moderate	1	1			
	severe					
	etc	2	5	1	2	
syllable	mild		3			1
	mild-to-moderate					
	moderate		1		1	
	severe		1		1	
	etc	3	3	1	4	3
word	mild				1	
	mild-to-moderate				2	
	moderate					
	severe					
	etc				6	
sentence	mild		1		2	6
	mild-to-moderate				3	1
	moderate				1	2
	severe				1	1
	etc	1		1	4	1
paragrpah	mild					2
	mild-to-moderate					
	moderate					
	severe					
	etc			1	3	1

UUMN: unilateral upper motor neuron