	Severe spasticity			
Quality of tone	 Severely increased tone. Constant flexor and extensor co-contraction. Tone is high at rest, sleep, or when awake. Tone pattern is more proximal than distal. 			
Distribution of tone	Quadriplegia, but may manifest as diplegia or paraplegia.			
Range of motion	 Abnormal patterns can lead to: a. Scoliosis. b. Kyphosis c. hip/knee/finger deformity. Forearm pronation contracture. Hip subluxation, heel cord subluxation w/ equinovarus or equinovalgus. Decreased Trunk, shoulder, and pelvic girdle mobility. Limited mid-range control where co-contraction is least balanced. 			
Quality of movement	 Decreased midrange, voluntary, and in voluntary movements. Slow and labored stereotypical movements. 			
Reflexes and reactions	 Obligatory primitive reflexes (positive support, ATNR, STNR, neck righting. Protective, righting, and equilibrium reactions are often absent. 			
 Immobile, rigid chest. Shallow respiration and forced expiration. Lip retraction w/ decreased lip closure. Tongue thrust. Communication through forced expiration. 				
Personality characteristics	 Passive, dependent. Resistant and adapts poorly to change Anxious and fearful of being moved. Generally less frustrated than athetoid individuals. 			

Moderate spasticity			
Quality of tone	 Moderately increased tone. Near normal at rest, but increases w/ excitement, movements attempts, effort, emotion, speech, sudden stretch. Agonists and distal muscles more spastic. 		
Distribution of tone	Quadriplegia, but may manifest as diplegia or paraplegia.		
Range of motion	 More available movement. More flexor/extensor imbalance can lead to: a. Kyphosis. b. Lordosis. c. hip subluxations. d. Hip and knee flexion contracture Tight hip internal rotators and adductors. Heel cord shortening. Foot rotation. 		
Quality of movement	 May be able to walk. Stereotypical, asymmetric, more associated reactions. Total movement synergies. 		
Reflexes and reactions	 Strong primitive reflexes (MORO, startle, TNR,TLR, positive support prominent Decreased neck righting. Associated reactions strong. Righting may be present, but equilibrium reaction develops to sitting and kneeling. 		
Oral motor	Not as involved as in severe spasticity.		
Personality characteristics	Lesser degree of traits seen in severe spasticity.		

Mild spasticity			
Quality of tone	Mildly increased or normal tone at rest.Increases with effort, attempts to move.		
Distribution of tone	Same as in severe spasticity but diplegia and hemiplegia more commen.		
Range of motion	. Limitations more distal than proximal. . Minimal deformities		
Quality of movement	 Often able to walk. Seems driven to move. Has increased variety of other movements, some stereotypical. 		
Reflexes and reactions	 Primitive reflexes used for functional purposes and not obligatory. Righting, protective, and equilibrium reactions delayed but established. May not develop higher level reactions. 		
Oral motor	 Increased mobility, thus more respiratory function for phonation. Shortness of breath limits sentence length. Better ability to dissociate mouth parts, but poor lip closure causes drooling 		
Personality characteristics	 More frustrated and critical about self because of awareness of better performance. More patient than children of same age. 		

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Quality of tone	 Fluctuation of tone from low to normal. No or little spasticity No co-activation of flexors and extensors. 	
Distribution of tone	Quadriplegia with occasional hemiplegia	
Range of motion	 Transient subluxation of joints such as shoulders and fingers. May have valgus on feet or knees Rarely any deformities. 	
Quality of movement	 Writhing involuntary movements, more distal than proximal. No change with intention to move. Many fixation attempts caused by decreased ability to stabilize. 	
Reflexes and reactions	 Primitive reflexes not usually obligatory or evoked. Protective and equilibrium reactions usually present, but involuntary movements affect grading. 	
Oral motor	 Fluctuations adversely affect gross and fine motor performance. Volume of speech may go up or down with breath. Feeding may be decreased due to instability and tongue/ jaw/swallow incoordination. 	
Personality characteristics	 Emotional lability. Less fearful of movement. More outgoing, but tends to be frustrated. 	

Athetosis with spasticity				
Quality of tone	 Fluctuates from normal to high. Some ability to stabilize proximally. Moderate proximal spasticity and distal athetosis. 			
Distribution of tone	Quadriplegia with occasional hemiplegia			
Range of motion	 Incidence of scoliosis. Some flexion deformities at hips, elbows, and knees. Usually full range of motion proximally and hyper mobile distally. 			
Quality of movement	 Decreased ability to grade movements. Decreased midline control and selective movement. Proximal stability and distal choreoathetosis. Varies with case 			
Reflexes and reactions 1. TNR/TLR strong but intermittent and modified by involuntary movemed 2. Equilibrium reactions, when present, unreliable and may or may not be				
Oral motor	 Difficulty w/ head control, thus decreased oral motor, strained speech. Decreased coordination of suck/swallow, resulting in decreased feeding and 			

speech

1. Same as in athetosis

Personality

characteristics

Athetosis with tonic spasm			
Quality of tone	 Unpredictable tone changes from low to very high. Either all flexion or extension of extremities. 		
Distribution of tone	Quadriplegia, hemiplegia, or monoplegia.		
Range of motion	 More pronounced scoliosis. More dislocation of arm because of flailing spasm. Possible kyphoscoliosis, hip or skull dislocation. Possible Flexion contracture on hips/knees. Possible subluxation of Hip, fingers, or lower jaw. 		
Quality of movement	 Extreme tonic spasm without voluntary control. Some involuntary movement, distal more than proximal. 		
Reflexes and reactions	 Strong ATNR, STNR, TLR. Protective and equilibrium reactions absent during spasm, otherwise preser unreliable, or absent. 		
Oral motor	 Feeding may be difficult because aspiration is unpredictable. Severe language and speech impairment caused by decreased control. 		
Personality characteristics	Same as athetosis		

choreoathtosis

Quality of tone	Constant fluctuations from low to high with no co-contraction. Jerky movements more proximal than distal.			
Distribution of tone	Quadriplegia			
Range of motion	Many involuntary movements with extreme ranges but no control at midrange. Deformities rare, but tendency for shoulder and finger subluxation.			
Quality of movement	Wide movement range with no gradation. Jerky movements more proximal than distal. No selective movement or flexion of movement. Weak hands and fingers			
Reflexes and reactions	 Intermittent TNR. Righting and equilibrium reactions present to some extent, but abnormal coordination. Abnormal upper extremity protective extension possible, but often absent. 			
Oral motor	 Facial grimaces, dysarthria, irregular breathing, difficulty sustaining phonation. Poor intraoral and extraoral surfaces. 			
Personality characteristics	Same as athetosis			

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Quality of tone	Fluctuating, markedly low muscle tone. Seen at birth or toddler initially classified as flaccid, later classified as spastic, athetoid, or ataxic.			
Distribution of tone	1. Quadriplegia			
Range of motion	 Hypermobile joints that tend to subluxate. Flat chest Range limitations due to limited movement 			
Quality of movement	Ungraded movements. Slow movements difficulty Many static postures, as if hanging on to anatomic structures instead of active control.			
Reflexes and reactions	 Usually less reactive because of decreased tone. Righting is delayed. Delayed protective extension more available than equilibrium 			
Oral motor	1. Quiet, soft voice because of deceased respiration. 2. Delayed speech. 3. Increased drooling. 4. Often expressionless face.			
Personality characteristics	 Visually attentive cannot move, therefore is "good" baby Decreased motivation. 			

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Quality of tone	 Ranges from near normal to normal. Increased tone, when present usually involves lower extremity flexion.
Distribution of tone	1. Quadriplegia
Range of motion	 Range usually not a problem. Decreased range, when present, usually in flexion.
Quality of movement	 Lacks point of stability, therefore co-activation is difficult. Uses primitive rather than abnormal patterns hence gross, total patterns. Incoordination, thus a. dysmetria b. disdiadochokinesia c. tremors at rest d. symmetric problems
Reflexes and reactions	 May develop righting reactions, but these are uncoordinated, exaggerated, and poorly used. Equilibrium reactions, when developed, are not coordinated. Needs wide base of support because of poor weight shifting.
Oral motor	 Speech s monotone, and very slow. Uses teeth to stabilize tongue or hold cup to mouth when drinking. Decreased articulation.
Personality characteristics	1. Does not like to move