	Stan	dard Scales	31
N	Ianual Muscle Testing (MMT)	Function	al Range of Motion (ROM)
Grade	Description	Grade	Description (ROM)
5	Normal Functional Strength - Against Gravity - Full Resistance.	5/ WNL	100% Active Functional Motion (Within Normal Limits)
4	Good Strength - Against Gravity With Some Resistance.	4	75% Active Functional Motion
3	Fair Strength - Against Gravity - No Resistance - Safety Compromise.	3	50% Active Functional Motion
2	Poor Strength - Unable To Move Against Gravity.	2	25% Active Functional Motion.
1	Trace Strength - Slight Muscle Contraction - No Motion.	1	Less Than 25%.
0	Zero - No Active Muscle Contraction		
		endence Measure (F	
Grade	Description	Grade	Description
1	Total assistance - (patient performs less than 25%)	5	Supervision/ Bed side-(needs assistance on request, activities performed bed side)
2	Maximum Assistance – (25% - 50%)	6	Modified independence- (uses aids/ takes time to complete task)
3	Moderate Assistance – (50%-75%)	7	Complete independence - (timely/ safely)
4	Minimum contact Assistance- (75% -100%)	Patient requires contact	assistance
	Bala	nce Grades	
Grade	Description	Grade	Description
0/ZERO	Patient requires maximum assistance to maintain balance	3/good	Patient maintains balance without support, accepts moderate challenge, shifts weight although limitations are evident
1/ poor	Patient requires support to maintain balance	4/ normal	Patient maintains balance without support, accepts maximal challenge and can shift weight in all directions
2/ fair	Patient maintains balance without support, ca	annot tolerate challenge	
	Dysphagia Grading (GUSS)	Tightne	ess/ Contracture/ Deformity
Grade	Description	Grade	Description
D0 GUSS (20)	Normal swallow (all textures) successful	Tightness	Mild/ Moderate / Severe
D1 GUSS (15-19)	Mild Dysphagia (low risk of aspiration/ mild stasis) (solid unsuccessful)	Contracture	Stretchable/ Non Stretchable
D2 GUSS (10-14)	Moderate Dysphagia (Moderate risk of aspiration/ moderate stasis/ moderate leakage of food), (liquids unsuccessful)	Deformity	Congenital/ Acquired (Postural/ Structural)

Key for Neuro Assessment

	Sensation Scale (Superficial/ Deep/ Combined)		Drooling	
Grade	Description	Grade	Description	
1	Intact: normal, accurate response	0	normal	
2	Decreased: delayed response	1 Mild		
3	Exaggerated: increased sensitivity or awareness of the stimulus after it has ceased	2	2 Moderate	
4	Inaccurate: inappropriate perception of a given stimulus	3	Severe	
5	Absent: no response	4 Profound		
6	Inconsistent or ambiguous: response inadequate to assess sensory function accurately			
P	Proximal	D Distal		
Coordination Scale		Hand Functions Scoring		
Grade	Description	Grade	Description	
5	Normal Performance	0	Task impossible	
4	Mild Impairment: Able to accomplish; slightly less than normal speed; requires superior/ minimal contact guarding	1	Functionally inadequate	
3	Moderate Impairment: Able to accomplish activity; movements are slow, awkward and unsteady; requires moderate contact guarding	2	Possible with abnormal difficulty (synergy)	
2	Severe Impairment: Able only to initiate activity without completion; requires maximal contact guarding	3	Functionally adequate	
1	Activity Impossible	4 Average normal function		
10256	Brun	nstorms Stages		
Stage	Recovery of the Hand-	Stage	Recovery of the Arm Haus.	
1	Flaccidity- No Voluntary movement	1	Flaccidity- No Voluntary movemen	
2	Synergy developing- flexion usually before extension, spasticity developing	2	Little or no active finger flexion	
3	Synergies preformed more voluntarily- marked increase in spasticity	3	Mass grasp or hook grasp, no voluntary finger extension or release	

Key for Neuro Assessment

ASSESSMENT OF THE OWNER, THE OWNE				
4	Some movements deviating from synergy- (hand behind body; arm to forward horizontal positions; pronation and supination with elbow flexed to 90°; spasticity decreasing)	4	Lateral prehension with release by thumb movement, semi voluntary finger extension (small ROM)	
5	Independence from basic synergy- (Arm to the side horizontal position; arm forward and overhead; pronation and supination with elbow fully extended, spasticity waning	5	Palmer prehension, possibly cylindrical or spherical grasp (awkward)	
6	Isolated joint movements freely preformed with near normal coordination, spasticity minimal	6	All types of prehension (improved skill) voluntary finger extension (full ROM) Individual finger movements	
Cognit	ive/ Perceptual Score (non-standard)	Der	rmatomes Grading (ASIA)	
Grade	Description	Grade	Description	
I	Intact	0	Absent	
Min I/m	Minimal Impairment	1	Impaired	
Mod. I/m	Moderate Impairment	2	Normal	
Sev. I/m	Severe Impairment	NT	Not testable	
	Voluntary Control (substitute for muscle power)	Ranchos Los Amigos (RLA)		
Grade	Description	Grade	Description	
Poor	Flexor or extensor synergy, gravity elimination/ no movement	I	No Response: Total Assistance	
Poor +	1/4 ROM without synergy, remaining synergy/ no movement, gravity eliminating	11	Generalized Response: Total Assistance	
Poor ++	½ ROM "	III	Localized Response: Total Assistance	
Poor +++	¾ ROM "	IV	Confused/ Agitated: Maximal Assistance	
Fair	Full ROM " (MMT=2/5)	v	Confused, Inappropriate-Non- Agitated: Maximal Assistance	
Fair +	1/4 ROM without synergy, remaining synergy/ no movement, against gravity	VI	Confused, Appropriate: Moderate Assistance	

Key for Neuro Assessment

	½ ROM " Key for No	euro Asse	ssment		
Fair ++	" "	VIII		Automatic, Appropriate: Minimal Assistance for Daily Living Skills Purposeful, Appropriate: Stand-By	
Fair +++	% ROM "				
-	Full DONA			Assistance	
Good	Full ROM " (MMT=3/5)	IX		Purposeful, Appropriate: Stand-B Assistance on Request	
*Good +	Full ROM, takes moderate / min resistance	x		Purposeful, Appropriate: Modified Independent	
	Glasgow coma scale (GCS)			Pressure Sores / V	Vounds
score	Adult/ Children (Infants)	component	stage 1	redness	
4	Opens eyes spontaneously	Eye	stage 2	blisters	
3	Opens eyes to verbal stimuli	Oper	stage 3	wound	
2	Opens eyes in response to painful stimuli	pening	stage 4	deep wound	
1	No response			DTR- deep tendon reflex	
5	Oriented, appropriate (coos and babbles)	Verb	0	Non elicitable	
4	Confused, answer questions (irritable cries, consolable)	al Res	1+	Diminished/ hypo reflexia	
3	Inappropriate words (cries in response to pain)	onse	2+	Elicitable / normal	
2	Incomprehensible words or nonspecific sounds (moans in response to pain)	3+		Brisk	
1	No response		4+	Exaggerated	
6	Obeys command (moves spontaneously and purposefully)	Motor	5+	Clonus (ankle/patella)	
5	Localize painful stimulus (withdraws to touch)	Response	Vital signs/Adults		dults
4	Withdraws in response to pain	onse	70-90 \ 1	40-160 - (80\120)	BP
3	Abnormal flexion to painful stimuli (decorticate response)		35.9-36.3c / 96.5- 97.5 F 60-90 - (72) 15-22 - (20)		Temp
2	Extension to painful stimuli (De- cerebrate response)				Pulse Rate
1	No response				Respiratory Rate

		FUNCTIONAL	SKILLS	
	STATIC		DYNAMIC	
1	supine		rolling	
2	prone			
3	side line	right		
	Side IIIIe	left		
4	crook line		bridging	
5	quadriipod/4 point		crawling	
6	kneeling/2 point		kneel walking	
7	half kneel			
Transfer	Come up to sit	right		
Paraturation with	Come up to sit	left		
8	W sitting		bunny hopping	
9	cross leg sitting		bottom shuffling	
10	high gitting	supported		P- static
10	high sitting	unsupported	pushups (P) and	P- dynamic
11	long leg sitting	supported	stoop(S) - LLS-	S-ankle level
		unsupported	718	S-knee level
	come to stand	direct transfer	bed	walker
Transfer -		pivot transfer	chair/ toilet stool/b	h Conquadripod
		w/c transfer	low stool	tripod
			floor	stick
			walking	Rafety. Aje
12	standing		tandem walking	
			jumping	
			stair climbing	
13	one leg stance		hopping/ skipping	
			running	
14	squating		· · · · · · · · · · · · · · · · · · ·	
15	half squating			

BALANCE GRADES

Fransfirs afersperlsdon

4/NORMAL

patient is able to maintain balance without support Accepts maximal challenge and can shift weight in all directions

3/GOOD

patient is able to maintain balance without support

Accepts moderate challenge and can shift weight although limitations are evident

2/ FAIR

patient is able to maintain balance without support

Cannot tolerate challenge, cannot maintain balance while shifting weight

1/POOR

patient requires support to maintain balance

0/ZERO

patient requires maximum assistance to maintain balance

Table 8-7 FUNCTIONAL BALANCE GRADES

Normal Patient is able to maintain steady balance without support (static).

Accepts maximal challenge and can shift weight in all

directions (dynamic).

Good Patient is able to maintain balance without support (static).

Accepts moderate challenge; able to maintain balance while picking object off floor (dynamic).

Fair Patient is able to maintain balance with handhold (static).

Accepts minimal challenge; able to maintain balance

while turning head/trunk (dynamic).

Poor Patient requires handhold and assistance (static).

Unable to accept challenge or move without loss of balance (dynamic).

Absent/Zero CNOt able to balance event handhold (cfatic)

Performance-Oriented Mobility Assessment, and

the Get Up and Go Test.

Duncan et al. 114 is a test of dynamic standing balance. Functional reach is defined as the maximal distance one can reach forward beyond arm's length while maintaining a fixed BOS in the standing position. It uses a leveled yardstick mounted on the wall and positioned at the patient's shoulder height (acromion). The patient stands next to the wall (without touching) with the shoulder flexed to 90° and elbow extended. The hand is fisted. An initial measurement is made of the position of the 3rd metacarpal along the yardstick. The patient is then