

Role of Occupational Therapy for Stroke



















Definitions

 OT is the application of goal—oriented and, purposeful activity in the assessment and treatment of individuals with psychological, physical or developmental disabilities.



















Assessment of patient in OT



Cognitive function

Orientation: awareness of time, person and place.

Attention: Use Ranchos Amigo Scale.

- Level 1-no response,
- level 2-eyes open to stimuli, inconsistent
- Level 3- tracks movement, not focused(1 min),
- level 4- focus attention(=>1min),
- Level -5problems with simple to moderately complex tasks requiring cues and assistance 50% or more,
- Level 6-problems with complex activities requires cues,
- Level 7- problems with multiple complex tasks,
- level 8- Normal



















Assessment of patient in OT



Calculation: the ability to do simple addition, subtraction, to complex functional mathematical issues like balancing a budget

Reasoning (similarities and judgment)-the ability to understand and explain simple to complex issues using reason and judgment.



















Functional status



 Bed Mobility, the ability to roll to left & right and up & down the bed, bridging

 Balance, static and dynamic sitting and standing balance,

 Transfers, use of lifters, bed to wheel chair, toilet and car.





















Functional status of upper extremities

 Range of motion – PROM &AROM, the quality of movement if present for affected & non-affected sides.

For fingers and hand, atrophy of intrinsic muscles of hand, The presence of oedema and soft tissue changes.

- Muscle power- oxford scale of Manual Muscle Testing
- Finger tipping and opposition- able or unable.

The quality (speed and accuracy)of the movement, is it tip or tip to side or pulp of finger, tripod



















Functional status of upper extremities



- Reaching- to table height, mouth, forehead, and top or back of head Grasp- describe the type of functional grasp: clasp(fist), spherical (cup), hook(strap)
- Release-is release smooth with full extension of fingers or wrist synergies used
- Coordination- fine motor coordination tests e.g. finger/nose, grasp/release, finger tapping, pronation/supination.















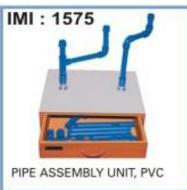




Equipment's used for Hand function

Include reach, grasp, release, grip, pinch, lateral pinch and fine

motor skills.











































Splints dynamic/static



Static

- Rest
- Prevention of further deformity
- Prevention of soft tissue contracture
- Substitution for lost motor function
- Dynamic
- Substitution for lost motor function
- Correction of a deformity
- Control of motion
- Aid in alignment and wound healing























Functional ability



All patients will be graded using the Functional Independence Measure (FIM) to determine their level of disability.

This scale is used to determine what the person actually does, not what they should be able to do.

FIM scores assist with establishing realistic and objective goals.

Some categories in which each patient will be scored include:

bed mobility, transfers, stairs, walking, wheelchair mobility, self-care skills, memory, problem solving and communication skills.



















FIM Levels of Function



- Total Assistance ;patient totally dependent in activities .(1)
- Maximal Assistance; patient needs 75% assistance to do activities .(2)
- Moderate Assistance; patient needs 50% assistance to do activities .(3)
- Minimal Assistance ;patient needs 25% assistance to do activities .(4)
- Supervision or Set up; patient can do activities under supervision .(5)
- Modified Independence; patient needs assistive device to do activities .(6)
- Complete Independence; patient do activities independently without any assist .(7)

















FIM™ instrument

7 6			NO	NO HELPER	
5 4 3	4 Minimal Assist (Subject = 75%+) 3 Moderate Assist (Subject = 50%+) Complete Dependence 2 Maximal Assist (Subject = 25%+)			HELPER	
Self-0	Care	ADMISSION	DISCHARGE	FOLLOW-UP	
A.	Eating				
В	Grooming				
C.	Bathing				
D.	Dressing - Upper Body				
E.	Dressing - Lower Body	\vdash		-	
F.	Toileting				
Sphir	Sphincter Control			P49	
G.	Bladder Management				
H.	Bowel Management				
Trans	sfers				
I.	Bed, Chair, Wheelchair				
J.	Toilet				
K.	Tub, Shower				
Loco	motion				
L.	Walk/Wheelchair	W Walk	w Walk	their W Walk: C Whorelchair	
M.	Stairs	Ш			
Motor Subtotal Score					
2000	munication	A Auditor V Virgal B Both	A Audito	y A Audhory V Vironi B Both	
N.	Comprehension	B Both	B Both V Vocal	B Both V Vocal	
O.	Expression	N Noewoo	d V Vocal N Noovo	nd N Namocal	
Socia	l Cognition	Statement Statement of the Statement of	() - 1)	(57-55)	
P.	Social Interaction				
Q.	Problem Solving				
R.	Memory				
Cogi	nitive Subtotal Score				
TOTAL FIM Score					
NOT	E: Leave no blanks. Enter 1 if pa	itient not testable due to risk			

















Activities of daily living

i-CARE

Feeding- including setup, cutting of food finger food and use of cutlery

Grooming evaluation

Bathing evaluation

Dressing evaluation

Toileting evaluation

























Functional activities

i-CARE

Bed mobility: supine side to side, supine upward, supine downward, supine to side lying, supine to prone, prone to supine, supine to sit.

























Transfers



- Level of Transfer
- Independent transfers
- Assisted transfers
- Dependent transfers





















Self-maintenance equipment



adapted eating equipment

adapted bathroom equipment, toilet seats, tub bench, grab

bars

upper extremity positioning equipment

Reacher's

long handled sponges

long-handled dressing equipment.



















Discharge

 As discharge nears, occupational therapy will finalize splint/cast schedules, family/caregiver education/training, home exercise program tran

recommendations for follow-up services. Recommendations and training are made

regarding equipment for general household, kitchen, and bathroom safety.

Modality certified therapists, senior staff members and therapists with advanced

training in neurodevelopmental treatment, visual perception, upper extremity

management and manual therapy are available for staff cotreatment,





















Thank You

Keep connected with i-CARE project:

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