





The Ch	ildren's H osp	ital <i>of</i> P hiladelp	ohia In fant Te st of N euromu	scula	ar D iso	rders
		СНО	OP INTEND			
Name:		Diagnos	is: Gestatio	nal ag	ge:	_weeks
Medical Re	cord Number: _	Date of I	Birth: Age		_	
Date of Eva	aluation:/_	_/ Time of 6	evaluation: Time sin	ce las	t feeding	g:
Current hea	lth: Good health	URI Oth	ner illness : Recent so	ırgery	<i>'</i> □:	
Feeding sup	pport: None	Nasogas Nasogas	stric Tube Gastrostomy T	ıbe 🗌		
Respiratory	support: None	☐ BiPAP☐ fo	or hours/dayTime off I	BiPAI	at testi	ng
	Position	Test Procedure	Graded Response		Score	
1	Supine	Observe throughout	Antigravity shoulder movement	4	L	Best side:
Spontaneous		testing	(achieves elbow off surface) Antigravity elbow movement	3		
movement		May unweight limb or	(achieves hand and forearm off surface)			Brazelton
(Upper extremity)		stimulate infant to	Wrist movement	2	R	State:
***		facilitate response	Finger movement	1		
		10	No movement of limbs	0		
2	Supine	Observe throughout	Antigravity hip movement	4	L	Best side:
Spontaneous		testing	(achieves feet and knees off surface)			
movement		May unweight limb or	Antigravity hip adduction/internal rotation	3		
(Lower		stimulate infant to	(knees off surface) Active gravity eliminated knee movement	2		Brazelton
extremity)		facilitate response	Ankle movement	100000	R	State:
			Ankie movement	1		
			No movement of limbs	0		
3	Supine	Grip strength: place	Maintains hand grip with shoulder off bed	4	L	Best side:
		finger in palm and lift	Maintains grip with elbow off surface (shoulders on surface)	3		
Hand grip		until shoulder comes	Maintains grip with forearm off surface (elbow supported on surface)	2	R	Brazelton State:
		off surface observe	Maintains grip only with no traction	1		State.
		when infant looses	No attempt to maintain grasp	0		
		grasp				
		May use toy of similar				
		diameter for older				
		children				
4	Supine head midline	Visual stimulation is	Rotates from maximum rotation to midline Turns head part way back to midline	4	L>R	Best side:
Head in		given with toy.	Maintains midline for 5 or more seconds	3		Brazelton
midline with		If head is maintained	Maintains midline, less than 5 seconds	2	R>L	State:
visual		in midline for 5	Head falls to side, no attempts to regain	0		
stimulation*		seconds: Place head in	midline			
Sumanuon -		maximum available				
		rotation and provide				
		visual stimulation to				
		encourage midline				







5	Supine, no diaper	Hips flexed and	Keeps knee off surface of bed > 5 sec or lifts foot off surface	4	L	Best side:
		adducted	Keeps knees off surface of bed 1-5 sec	2		Brazelton State:
Hipadductors		Feet hip width apart	No attempt to maintain knees off surface	0	R	
		and thighs parallel,				
		knees slightly apart				

6	Supine	Holding infant's lower thigh, flex hip	When traction is applied at the end of the maneuver, rolls to prone with lateral head righting	4	To R	Best side:
Rolling:	(arms at side)	and knee and adduct	Rolls through side lying into prone without lateral head righting, clears weight-bearing arm to complete roll	3		
legs*	Keep side tested up	across midline bringing pelvis vertical	Pelvis, trunk and arm lift from support surface, head turns and rolls onto side, arm comes thru to front of body	2	To L	Brazelton
	20000000000000000000000000000000000000		Pelvis and trunk lift from support surface and head turns to side. Arm remains behind trunk	1		State:
	Side tested	maintain traction and pause in this position.	Pelvis lifted passively off support surface.	0		
		2. If infant rolls to side				
		apply traction at a 45° diagonal to body and				
		pause to allow infant to				
		attempt to derotate				
		body				
7		1. Hold infant at the	Rolls to prone with lateral head righting	4	To R	Best side:
Rolling:	Supine	elbow move toward	Rolls into prone without lateral head righting; must clear weight-bearing arm completely to finish roll	3		
elicited from	(arms at side) Keep side tested up	opposite shoulder maintain traction on	Rolls onto side, leg comes thru and adducts, bringing the pelvis vertical Head turns to side and shoulder and trunk lift	2	To L	Brazelton
arms*	roll away from the	limb and pause with	from surface Head turns to side; body remains limp or	0		State:
	Side tested	the shoulders vertical allow infant to derotate	shoulder lifts passively			
		2.if the pelvis achieves				
		vertical continue to				
		provide traction				







8 Shoulder and	Side-lying with upper arm at 30° of shoulder extension	Prompt reach for a toy presented at arms length at shoulder level	Clears hand from surface with antigravity arm movement Able to flex shoulder to 45 degrees, without antigravity arm movement Flexes elbow after arm comes off body	3 2	L	Best side
elbow flexion And horizontal abduction	and elbow flexion	(may provide stimulation and observe spontaneous movement)	Able to get arm off body No attempt	0	R	State:
Shoulder flexion & Elbow flexion	Sitting in lap or on mat with head and trunk support (20° recline)	Present stimulus at midline and at shoulder level at arms length (may provide stimulation and observe spontaneous movement)	Abducts or flexes shoulder to 60 degrees Abducts or flexes shoulder to 30 degrees Any shoulder flexion or abduction Flexes elbow only No attempt to lift arm	4 3 2 1 0	L R	Best side Brazeltor State:
10	Sitting in lap or over edge of mat with head and trunk support (20° recline) thigh horizontal to ground	Tickle plantar surface of foot Or gently pinch toe	Extends knee to > 45 degrees Extends knee 15 to 45 degrees Any visible knee extension No visible knee extension	4 2 1 0	L R	Best side Brazeltor State:
11 Hip flexion and foot dorsiflexion	Hold infant against your body with legs free, facing outward. Support at the abdomen with the child's head resting between your arm and thorax	Stroke the foot or pinch the toe	Hip flexion or knee flexion > 30° Any hip flexion or knee flexion Ankle dorsiflexion only No active hip, knee or ankle motion	4 3 2 0	L R	Best side: Brazelton State:
12 Head control*	Sitting with support at the shoulders and trunk erect	Place the infant in ring sit with head erect and assistance given at the shoulders (front and back). (may delay scoring a grade of 1 and 4 until end of test)	Attains head upright from flexion and turns head side to side Maintains head upright for >15 sec (for bobbing head control score a 2) Maintains head in midline for >5 sec. with the head tipped in up to 30° of forward flexion or extension Actively lifts or rotates head twice from flexion within 15 seconds (do not credit if movement is in time with breathing) No response, head hangs	4 3 2 1 0		Score: Brazelton State:
13 Elbow flexion Score with item	Supine	Traction response: pull to sit extend arms at 45 degree angle, to point of nearly lifting head off surface	Flexes elbow Visible biceps contraction without elbow flexion No visible contraction	2 0	L R	Best side:







14	Supine	Traction response: hold	Lifts head off bed	4		
1.75		in neutral proximal to	Visible muscle contraction of SCM	2		Score:
Neck Flexion Score with item		wrist and shoulder at 45°, to point of nearly lifting head off surface	No muscle contraction	0		Brazelton State:
15	Ventral suspension:	Stroke along the spine from	Extends head to horizontal plane or above	4	<u> </u>	
	Prone, held in one	neck to sacrum. The	Extends head partially, but not to horizontal	2		Score:
Head/Neck	hand upper	coronal axis of the head	No head extension	0		
Extension	abdomen	when parallel to the bed				Brazelton State:
(Landau)		surface = 0 degrees (horizontal)				
16		Stroke Right then Left	Twists pelvis towards stimulus off axis	4	L	Best side:
		throacolumbar paraspinals	Visible paraspinal muscle contraction	2		
Spinal	Ventral suspension:	or tickle abdomen or foot	No response	0	R	Brazelton State:
Incurvation	Prone, held in one	or tilt in infants with				
(Galant)	hand upper	integrated Galant				
10 10	abdomen	For infant over 10 kg				
	aodomen	knees and head may touch				