

19/20. Inhibition of Neonatal Neck Righting

POSITION:
Infant supine; head held in midline with examiner's fingers and thumb grasping temples.

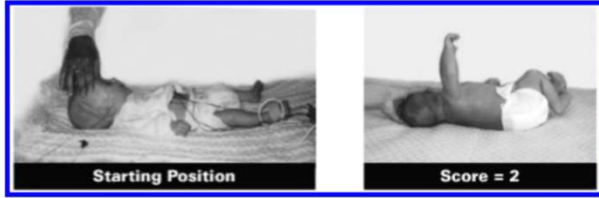
PROCEDURE:
Passively rotate head so jaw is directly over the shoulder. Maintain head position for 10 seconds. Test both right and left sides.

SCORING: Score based on direction of face following passive movement.

Face to Right/Left

R	L	
0	0	No response, body limp and inactive.
1	1	Lifts only shoulder and scapula off the support surface.
2	2	Lifts shoulder, scapula and pelvis off support, but does not roll onto side.
3	3	Rolls onto side without rotation of the trunk.
4	4	Rolls partially or completely to side but then returns trunk to supine actively while head is being held.
5	5	May lift shoulder and/or pelvis briefly off support surface but then uses arms and/or legs to actively resist rolling.

AID TO SCORING



VIDEO CLIP SCORING

19/20. Inhibition of Neonatal Neck Righting

COMMENTS: Video Clip A

With the head turned toward the left, the infant lifts his shoulders briefly but then returns it to actively resist rolling.

Score: 5 for head turned LEFT

With the head turn toward the right, the left shoulder resists rolling

Score: 5 for head turned RIGHT

TIPS FOR ADMINISTRATION

Remember to maintain the rotated head position for 10 seconds to allow the full response to develop.

21. Head in Midline Without Visual Stimulation

POSITION:

Infant supine; head held in midline, hands held on chest. Examiner should stay outside the infant's line of vision and give no verbal cues. Older children may resist hands being held (see level 4).

PROCEDURE:

Maintaining infant's hands on chest, release control of head.

SCORING:

- 0 Head falls immediately to side, with chin resting on shoulder.
- 1 Head falls to shoulder, but attempts to lift chin from shoulder are observed.
- 2 Head moves out of midline, chin does not rest on shoulder but attempts to regain midline.
- 3 Maintains head in midline for 5 to 15 seconds.
- 4 Maintains head in midline for more than 15 seconds with or without hands being held.

VIDEO CLIP SCORING

21. Head in Midline Without Visual Stimulation

COMMENTS: Video Clip A

The infant scores a 4 for maintaining the head in the midline for more than 15 seconds

Your video player may show slightly less than this amount of time, but in a clinical situation, the therapist would release the hands when the time parameter was met.

She does this at the end of the clip, indicating she believed the infant to have maintained the position for more than 15 seconds, the maximum time.

Score: 4

VIDEO CLIP SCORING

21. Head in Midline Without Visual Stimulation

Note that the score would be the same for this item whether the infant's hands were held or not.

Observed Item ALERT !!

The infant shows active reciprocal kicking while her hands are being held. However, she is not scored YES for the observed item because support to hands and trunk facilitates the leg movements which can be readily seen AND kicking stops as soon as her hands are released.

22. Head Held In Midline With Visual Stimulation

POSITION:

Infant supine with head placed in midline and hands held on chest.

PROCEDURE:

Using only a red ball as a visual stimulus, attempt to maintain the infant's head in midline until visual attention to the ball is achieved. Examiner may move the ball through small excursions to maintain attention. Maintain infant's hands on chest during visual stimulation; older infants may resist hands being held (see level 4).

SCORING:

- 0 Head falls immediately to side, with chin resting on shoulder.
- 1 Head moves out of midline but attempts to regain midline.
- 2 Head remains in midline for up to 15 seconds.
- 3 Head remains in midline for more than 15 seconds.
- 4 Child is able to maintain head in midline for more than 15 seconds without hands being held.

VIDEO CLIP SCORING

22. Head in Midline With Visual Stimulation

COMMENTS: Video Clip A

The child maintains the head in midline
for more than 15 seconds with the hands held.

Score: 3

23/24. Supine Neck Rotation

POSITION:

Infant supine with head fully turned to either right or left side.

PROCEDURE:

Using a moving red ball as a visual stimulus, attempt to use visual tracking to elicit head turning to the opposite side.

SCORING: Initiate and score response with head to both the right and left sides (continuous visual tracking is not required).

Moving to Right/Left

R L

- | | | |
|---|---|---|
| 0 | 0 | No response or unable to achieve state 4 during testing. |
| 1 | 1 | Head turns toward the right (left) less than 15 degrees. |
| 2 | 2 | Head turns toward the right (left) for 16 to 45 degrees. |
| 3 | 3 | Head turns toward the right (left) for 46 to 90 degrees. |
| 4 | 4 | Head turns toward the right (left) for 91 to 180 degrees. |

VIDEO CLIP SCORING

23/24. Supine Neck Rotation

COMMENTS: Video Clip A

The infant makes a brief attempt to turn on the third trial but for less
than 15 degrees.

Score: 1 – to the LEFT

VIDEO CLIP SCORING

23/24. Supine Neck Rotation**COMMENTS: Video Clip B**

Item 23:

To the Right: The infant turns his head 90 degrees (to midline)

Score: 3 -- to the RIGHT

Item 24:

To the Left: The infant turns his head past midline

Score : 4 -- to the LEFT

25. Defensive Reaction - Head And Neck Response**POSITION:**

Infant supine, head in midline.

PROCEDURE:

Cover infant's eyes (only) with a soft cloth. Hold loosely in place for a maximum of 30 seconds while allowing head to turn. Scoring is based on movement of the head and neck only.

SCORING:

- 0 No response within 30 seconds.
- 1 Neck stretch and head turn to the side in 15 to 29 seconds.
- 2 Neck stretch and head turn to the side in 5-14 seconds.
- 3 Neck stretch and head turn to the side in less than 5 seconds.

AID TO SCORING

VIDEO CLIP SCORING

25. Defensive Reaction – Head And Neck Response

COMMENTS: Video Clip A

The infant turned her head to the side in less than 5 seconds.

Score: 3

26. Defensive Reaction - Arm Movements

POSITION:

Infant in supine, head in midline.

PROCEDURE:

Drape a soft cloth over infant's entire face and upper chest so that cloth does not cover arms. Observe arm movements for up to a maximum of 30 seconds.

SCORING:

Score based on movement of either or both arms.

- 0 No arm movements or random movements ONLY.
- 1 Arm movement directed toward the head with head turned to one side.
- 2 Arm movement directed toward midline of face or body, head in the midline.
- 3 Arm and hand movements that grasp cloth, head in the midline.
- 4 Arm and hand movements that grasp cloth and uncover partially at least one eye, head in the midline.

AID TO SCORING



- One arm to midline
- Head in midline

VIDEO CLIP SCORING

26. Defensive Reaction – Arm Movements

COMMENTS: Video Clip A

The baby's head remained in midline, and his arms were moving toward his face.

The tester's hand was trying to identify the position of the baby's head. She didn't apply any pressure or try to change the head position.

Score: 2

Note: The infant also performed many ballistic movements (swats) of the arms (Observed item 11).

27. Hip And Knee Flexion

POSITION:

Infant supine with head held in midline.

PROCEDURE:

While maintaining the head in midline, fully flex hips and knees onto abdomen, knees together. Slowly release the infant's legs and observe for 5 seconds.

SCORING:

- 0 Both thighs, knees and feet fall immediately to support surface.
- 1 Both feet fall to support surface, but thighs and knees remain off the surface.
- 2 One foot falls to the support surface, but knee remains off the support surface.
The other foot and leg remain off the support surface.
- 3 Both feet and legs remain off the support surface for at least 5 seconds making kicking movements and occasionally touching the support surface. If both knees remain extended in the air, score 2.
- 4 Both feet return to support surface, followed by heel pounding by lifting and lowering one or both legs with knee extended OR bridging against the surface by pushing with heels and lifting bottom.

VIDEO CLIP SCORING

27. Hip And Knee Flexion

COMMENTS: Video Clip A

This infant demonstrates a response that is difficult to score for two reasons:

- 1) the timing is close to the requisite 5 seconds
- 2) minimal kicking occurs

VIDEO CLIP SCORING

27. Hip And Knee Flexion

In this video, the infant holds her legs up for 4-5 seconds,

But.....kicks reciprocally only once, then extends the legs and finally pulls them in again.

The scoring directions do not indicate that the kicking must be reciprocal, but we do look for kicking to be the predominant activity during the response.

Thus we conclude that the child's score should be lowered from a 3 to a 2 because of the stiff extension that occurs during the response and because it is equivocal whether she reached 5 seconds.

Score: 2
