

· Maintains head in midline

tracks from left to right

· Begins to show antigravity

movements of upper and

· Not yet able to reach and

· Locates objects visually and

for brief periods

lower extremities

grasp toys

Pathways A Comparison Examination of 2 Month Old Infants

Typical

May show more asymmetrical movement with predominance of head to one side; or strong

asymmetrical tonic neck reflex

(ATNR) · Difficulty visually tracking, may only track to one side or only to midline

- · Decreased ability to generate upper and lower extremity antigravity movements
- Longer periods of inactivity

Atypical



 Able to lift head and upper trunk during facilitated roll, showing lateral headrighting

- Begins to balance activity of trunk flexor and extensor muscles
- Ability to change from predominant use of flexors to use of extensors as position



- · May be unable to right head during facilitated rolling
- May look more competent in sidelying, therefore important to observe baby in all eight positions





- Head lifting to 45 degrees and extension through upper thoracic spine
- Hips and knees begin to move from flexed "newborn" posture into extended, abducted position, which allows head and trunk lifting
- Elbows typically not directly under the shoulders until 3 months



- · Posture looks more like a newborn; infant does not show hip extension; hips and knees remain in flexed abducted posture.
- · No independent head lifting; can move head only with assistance





- · Head-lag is typical until the infant is about 15 degrees from upright.
- · Uses shoulder elevation and elbow flexion to assist
- Able to engage neck muscles to sustain midline head control when upright
- · Good extension through the cervical and upper thoracic spine



- · May exhibit head-lag through the entire pull to sit maneuver.
- · Poor head control when in upright sitting
- Little muscle activity in the upper extremities or cervical spine
- · When upright, rounding of the thoracic and lumbar spine



Recognizing Early Motor Delays

A Comparison Examination of 2 Month Old Infants

Typical

Atypical

- · Head is aligned with ear directly over the shoulder
- Holds and sustains posture with assistance
- Head turning may or may not be present at 2 months, but should be seen by 3 months



- · Needs more support to sustain sitting posture
- Inability to achieve and sustain head lifting in upright position
- · Little to no antigravity arm activity



Horizontal Suspension

- Able to activate adequate neck and trunk extension to sustain posture
- Can maintain brief periods of head control, but may not be able to hold the head in midline



- · Difficulty or inability to activate neck or upper thoracic extensors to lift head
- May try to use arm and leg movements to sustain posture



Protective Extension

- Aware of being tilted forward; increases head and neck extension
 Will not be fully able to
- bring arms forward for full protective response protection until 6 months



· Unable to generate antigravity head and trunk activity



- Able to sustain weight on lower extremities with support at the trunk
- Typically shows intermittent bouts of extension and flexion
- Good vertical alignment from head through trunk and feet



- May support little if any
- weight on feet
 Little or no intermittent muscle activity to attain or maintain standing





For more information please contact Pathways.org

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