



GENERAL TIPS

- Observation is key, especially for infants/toddlers!
- Majority of the exam can be performed in the parent's lap
- Make the exam fun to increase effort!
- Don't forget to ask about developmental milestones

VITALS & GENERAL APPEARANCE

- ☐ Stable? Well vs. Unwell?
- ☐ AVPU (alert, verbal, pain, unresponsive) or GCS

If concerned, **STOP** and get additional help! 🚑

- ☐ Growth + head circumference
- ☐ Head shape, sutures & dysmorphic features
- ☐ Neurocutaneous findings

CRANIAL NERVES

CN	Function	Exam
I	Smell	Rarely tested
II	Vision	Fix & follow/ blink to light or acuity*, visual fields, fundoscopy, pupillary response (CN II/III)
III, IV, VI	Extraocular movements	Observe for symmetry/ptosis, follow toy/finger in "H" pattern
V	Face sensation	Response to touch, jaw clench*
VII	Facial movements	Symmetry, raise eyebrows, eye closure, smile, puff out cheeks
VIII	Hearing, balance	Response to sound or whisper test*
IX, X	Swallow, gag	Cry quality, swallow, uvula elevation
XI	SCM / trapezius	Shrug, head turn
XII	Tongue movement	Stick out tongue (observe if midline/fasciculations)

* age-dependent

REFLEXES

Primitive (Age the Reflex Disappears)	☐ Stepping (2-3 mo) ☐ Rooting (2-3 mo) ☐ Tonic Neck (3 mo) ☐ Moro (5-6 mo) ☐ Palmar Grasp (5-6 mo) ☐ Plantar Grasp (9-12 mo)
Deep Tendon (Nerve Root)	☐ Biceps (C6) ☐ Brachioradialis (C6) ☐ Triceps (C7) ☐ Patella (L3/4) ☐ Achilles (S1)

Grading: 0 = absent, 1+ = requires reinforcement, 2+ = "normal", 3+ = spread, 4+ = clonus
→ up to 4 beats of symmetrical clonus is normal

MOTOR

Observation	☐ Resting posture ☐ Symmetry of movements ☐ Muscle bulk ☐ Fasciculations/atypical movements
Tone	☐ Central tone including head control, ventral & vertical suspension ☐ Peripheral tone ☐ Velocity-dependent (ie. spasticity) & independent
Strength	Upper Extremity: ☐ Shoulder ABduction (C5) ☐ Elbow flexion (C5/6) & extension (C7) ☐ Wrist flexion (C7/8) & extension (C6/7) ☐ Finger PIP flexion (C8) & MCP extension (C7/8) ☐ Pinky & thumb ABduction (C8/T1) Lower Extremity: ☐ Hip flexion (L2), ABduction (L4/5) & extension (L5/S1) ☐ Knee flexion (L5/S1) & extension (L3/4) ☐ Ankle dorsiflexion (L4/5), plantar flexion (S1) & inversion/eversion (L5) ☐ Great toe extension (L5)
Special Tests	☐ Pronator Drift

Grading: 0/5 = none, 1/5 = flicker, 2/5 = gravity gone, 3/5 = against gravity, 4/5 = some resistance, 5/5 = "normal"

Tip: In infants look for symmetrical movement against gravity; in toddlers observe while playing!

SENSATION

- ☐ Often inaccurate in children. Check for response to light touch centrally and peripherally.
- ☐ If > 5-6 yo, can test upper and lower extremity nerve distributions in the same manner as adults.
- ☐ If sensory concerns, localize with pain, temperature, vibration & proprioception.

GAIT & COORDINATION

- ☐ **Gait:** including toe/heel walking & tandem gait (≥ 8 yo) + balance on one foot (# of seconds = age)
- ☐ **Dysmetria:** finger to nose (observe infants/toddlers bringing toys to their mouth)
- ☐ **Dysdiadokinesia:** rapid alternating movements

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Janelle Trombley (Medical Student, University of Alberta), Colin Wilbur (MD, University of Alberta) for
www.pedscases.com