LafeberVet.com Avian Neurologic Examination Form

Date: Time: 0 = absent +1 = reduced +2 = normal 3 + = increased 4 + = clonus

I. SUBJECTIVE EVALUATION: (statement of primary complaint)

II. OBJECTIVE EVALUATION

A. Observation (circle or describe)

Mental status:

Level of consciousness: alert, depressed, stuporous, comatose Content of consciousness: appropriate, confusion, dementia, delirium

Posture

Stands on perch w/ head erect, wings folded, and legs hip-width apart? Normal, head tilt, falling, paresis, nystagmus, leaning Positional nystagmus present?

Movement (gait)

Is knuckling observed? Able to step up and over or onto different-sized perches? Normal, ataxia, dysmetria, circling, falling, rolling, tremors

B. Palpation

Muscular (symmetry, tone, atrophy) Skeletal

C. <u>Postural reactions</u>

Reactions	Left	Right
Pushing: Push the bird to the side and evaluate the compensatory response of the		
opposite limbs.		
Conscious proprioception: Place dorsal surface of bird's foot against the perch OR		
slowly move paper under the foot sideways.		
Visual placing: Step onto perch		
Tactile placing: Hood raptors or ratites if possible.		
Drop and flap: Evaluates ascending sensory pathways to cerebral cortex and		
descending motor pathways to thoracic limb. Grasp legs close to body, hold bird high,		
and simulate a drop OR drop the bird onto a soft cushion. The bird should pull equally		
with both wings to prevent its fall to the ground.		
Extensor postural thrust: Evaluates ascending sensory pathways to cerebral cortex and		
descending motor pathways to pelvic limb. Hold bird around body and wings, then		
lower bird to the ground. Pelvic limb should move in a walking fashion.		
Hopping: Rarely possible, but may be attempted by bandaging or holding one leg up		
against the body.		

D. <u>Cranial nerve reflexes</u>

Function test	Nerve(s)	Left	Right
Olfactory	I		
Menace*	II, III or V (not VII in birds!)		
Pupil size, symmetery		S-M-L	S-M-L
Pupillary light response	II, III, voluntary motor		
Fundic exam			
Strabismus	III, IV, VI		
Nystagmus	III, VIII, IX, XI		

Function test	Nerve(s)	Left	Right
Oculovestibular	VIII		
Sensation	V		
Corneal	V, VII		
Mastication	V		
Facial symmetry**	VII		
Palpebral	V, VII		
Swallowing***	IX, X		
Tongue****	XII		

- Difficult to elicit in most birds. A positive reaction may be demonstrated by a rapid change in iris size only. Muscles of facial expression are poorly developed. Difficult to evaluate CN7
- *** Gag reflex? Crop atony?
- Are parrots able to manipulate objects with the tongue? Evaluate non-psittacines for tongue movement in relation to the oropharynx. (CNXII also supplies the syrinx).

E. **Spinal (segmental) reflexes**

Reflex	Segments	Left	Right
Wing withdrawal	Brachial plexus and nerves		
Biceps (dificult)			
Triceps (difficult)			
Pedal withdrawal	Ischiatic nerve and sacral plexus		
Patellar (difficult)	Femoral nerve and lumobsacral (LS) plexus		
Gastrocnemius	Tibial branch of ischiatic nerve and LS plexus		
(difficult, less reliable)			
Vent sphincter	Pudendal nerve, pudendal plexus, caudal ssegments of		
	spinal cord		

F. **Cloacal function**

Evidence of voluntary voiding? Cloaca distended? Does cloaca empty fully after voiding?

G.

To assess superficial pain, tweak or pluck feathers to determine where touch or pain perception is lost OR lightly prick lateral to vertebral column. (Remember birds lack the cutaneous trunci muscle, and panniculus reflex cannot be used).

To assess deep pain, begin caudally at the vent and legs. Begin with a light touch, and progress to deep palpation to a sharp pin prick, and finally a hard pinch.

ASSESSMENT III.

Lesion localization:

- Peripheral nerve
- Spinal cord
- Brain
- Generalized neuromuscular
- Normal

IV. Plan/Differential Diagnosis