

Introduction to Mammal Physical Exams

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What is a physical exam?



“Physical examination is the process of evaluating objective anatomic findings through the use of observation, palpation, percussion, and auscultation. The information obtained must be thoughtfully integrated with the patient's history and pathophysiology”

- Clinical Methods: The History, Physical, and Laboratory Examinations

Why are physical exams important?

- Your patients cannot tell you what is wrong!
 - What you are able to observe is very important
- A thorough physical exam allows you to evaluate body systems in a systematic order and helps avoid tunnel vision or bias
- Allows you to decide on next steps and a treatment plan



Develop a System

- Create a systematic approach to your physical exam and stick with it!
- You are less likely to miss something if you approach each patient's physical exam in the same manner
- For example: evaluate your patient from “head to tail”
- Use an exam sheet to record your findings and remind you of the body systems you want to check

Physical Exam Checklist			
1) Attitude/Appearance <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	2) Oral Cavity/Teeth <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	3) Mucous Membranes <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	4) Eyes <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE
5) Ears <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	6) Cardiovascular <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	7) Respiratory <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	8) Gastrointestinal <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE
9) Musculoskeletal <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	10) Lymph Nodes <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	11) Urogenital <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	12) Integumentary <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE
13) Nervous System <input type="checkbox"/> N <input type="checkbox"/> A <input type="checkbox"/> NE	14) Pain Score _____	T_____ P_____ R_____	

N = Normal A = Abnormal NE = Not Examined

Indoor _____% Outdoor _____%

Diet _____ BCS _____ MCS _____ Wt. _____

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Step 1: No touchy!

- Start your exam by observing your patient!
 - Observe how they move (ataxic, limping, etc.)
 - Assess mental status: are they aware of their surroundings? (BAR, QAR, Depressed)
 - Assess behavior
 - Assess the safety of situation
 - Count their respiratory rate and observe for respiratory effort
- This is especially important in many of the wildlife species that you will be seeing
- Many of the animals we care for are prey species and we will influence their exam by touching them



Physical Exam Tools

- Stethoscope
- Ophthalmoscope / otoscope
- Scale
- Penlight
- Gloves
- Cotton swabs
- Popsicle sticks



Vital Signs

Temperature

Pulse

Respiration



Pain: Learn signs of pain in the species that you are dealing with! Things like rapid heart rate, respiratory rate, facial grimace, inappetance, and lack of movement can indicate pain. However, it is also important to distinguish between pain and fear. Many of the signs may appear similar.

Body Condition

- Scoring based on species but most scales are 1-5 or 1-9
- Assesses overall wellbeing
- Can give clues to underlying problems
- Make sure to touch animal to distinguish between fur and fat
 - Spine
 - Hip bones





Tail in an obese Virginia opossum
Note the normal oily buildup
Photo credit: Cathy Johnson-Delaney



Is your rabbit a healthy weight?

Give your rabbit a feel, to find out what's under the fluff!

1 VERY THIN		<ul style="list-style-type: none">• Spine, ribs and hip bones feel sharp and prominent, with no padding.• Depressions around the pelvis and spine.• Loss of fat and muscle means limbs feel thin and bony, and ability to move may be compromised.
2 THIN		<ul style="list-style-type: none">• Spine ribs and hip bones are easy to feel.• Little fat and some loss of muscle.
3 IDEAL		<ul style="list-style-type: none">• A smooth curve from neck to tail and hip to hip.• Spine, ribs and hip bones easy to feel, but rounded not sharp, like they are covered in a thick cloth.• Some rabbits, particularly females, may have a roll of fur under the chin (called a dewlap), this should just feel like a fold of skin when gently pinched.
4 OVERWEIGHT		<ul style="list-style-type: none">• You need to apply pressure to feel the ribs, spine and hip bones.• You bunny generally feels round and well padded.• Females may have a large dewlap that feels like a roll of fat when pinched.
5 OBESE		<ul style="list-style-type: none">• Impossible to feel the ribs; the spine and hip bones are tough to feel.• Rolls of fat around the ankles, tail and neck, and a saggy tummy.• Difficultly moving about freely.

If you are worried about your rabbit's weight, please talk to a vet!

Learn more about bunny diets - www.theRabbitHouse.com/diet

Systems Approach to the Physical Exam

Integumentary

- Look for any evidence of lacerations, wounds, or trauma
- Ears- discharge, odor, redness
- Skin- parasites, fur condition, irritation, swelling, wounds, masses, hydration status (skin tent)
- Nails and footpads- cracks, lacerations, missing nails



Musculoskeletal

- Watch the animal walk if possible

Limping, shifting weight, inability to walk

- Palpate limbs for muscle tone and loss (evidence of disuse, may suggest a more chronic problem)
- Palpate joints and limbs for swelling
- Look for fractures
- Check for range of motion and crepitus



Nervous System



Animal's mentation:

- BAR, QAR, depressed, comatose
- Reaction to external stimuli
- Proprioception deficits, ataxia, circling
- Seizures
- Pupil size
- Nystagmus

Circulatory

Heart rates vary by species and can be increased with arousal

- Listen in different locations
- Listen for murmurs
- Check pulse strength, rate, quality
- Muffled sounds
- Perfusion indicators
 - Mucus membrane color (MM)
 - Capillary refill time (CRT)



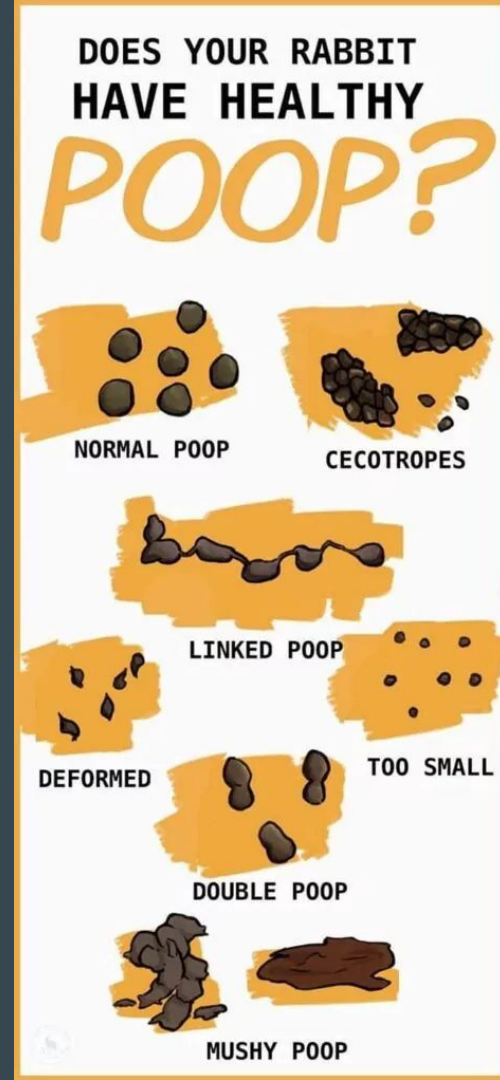
Respiratory



- Observe breathing effort without touching animal
 - Ideally before the start of the exam
- Nose - discharge, symmetry, abnormal sounds
- Stethoscope - wheezes/crackles/absence of breath sounds

Gastrointestinal

- Mouth - teeth, gingiva color, tongue
- Fecal sample - parasites, check consistency
- Auscultation in hind-gut fermenters for gut sounds (rabbits)
- Abdominal palpation - distension, masses, foreign bodies, pain



Abdominal Palpation

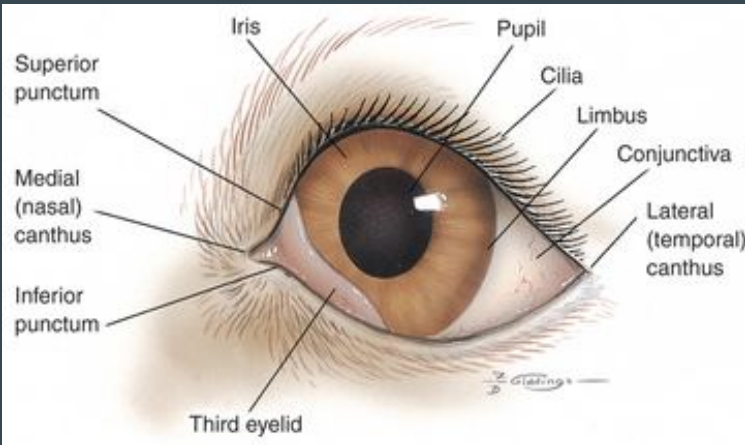
- Cranial abdomen
 - Stomach, liver, spleen, pancreas, small intestine
- Mid-abdomen
 - Spleen, kidneys, small intestine
- Caudal abdomen
 - Urinary bladder, prostate, uterus, colon
- Feel for anything unusual: masses, distension, pain, etc.



Ocular



- Adnexa: eyelids, conjunctiva, third eyelid
- Cornea, iris, lens
- Fundic Exam: Retina, choroid, vitreous
- Note any discharge, redness, or swelling
- Use light to see defects on corneal surface
- Special tests
 - Tonometry (pressure), fluorescein dye (corneal ulcers), conjunctival swab (inflammation)



Urinary

- Palpate kidneys
 - Usually just the left is palpable
- Palpate the bladder
- Can the animal urinate?
- Collect urine for USG
- Can they concentrate their urine?



Reproductive



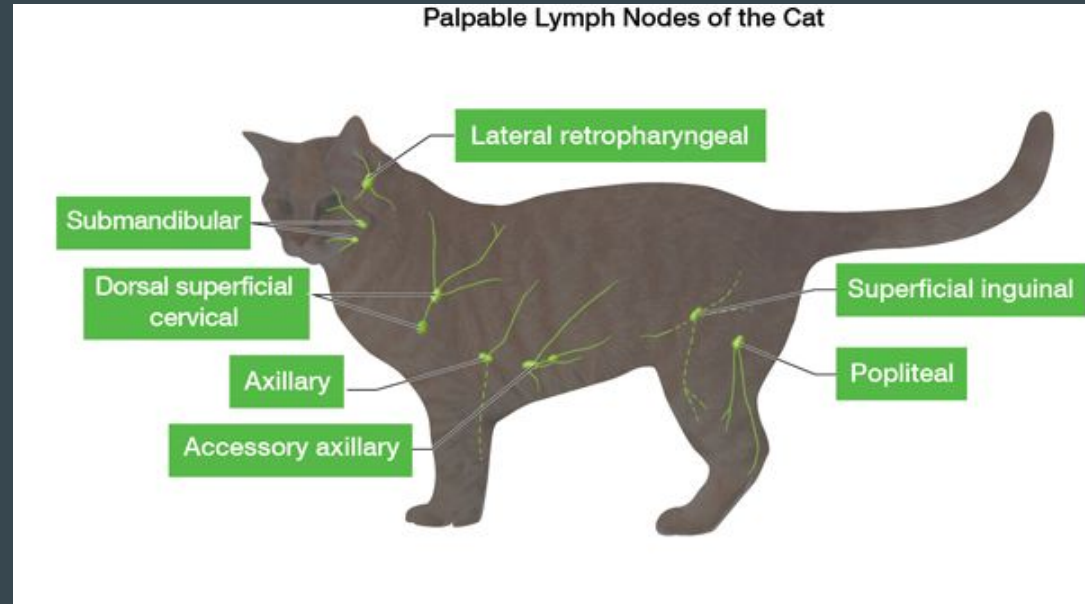
- Females: palpate mammary glands for masses, check vulvar membranes for swelling or discharge
- Males: Observe penis (if possible) and testicles for swelling and masses
- Note any prolapse: vaginal, uterine, rectal



Lymphatics

- Will Swell if Infection is Present:
 - Mandibular lymph nodes
 - Superficial cervical
 - Popliteal
 - Axillary
 - Inguinal

***Feel for abnormal swellings, if you can't feel anything it is likely normal



Common Abbreviations

TPR: Temperature, pulse and respiratory rate

BAR: Bright, alert and responsive (responsive animal who is aware of their surroundings –not acting sick)

QAR: Quiet, alert and responsive (still aware, but not as happy/active)

PLN: peripheral lymph nodes

BCS: Body Condition Score (1-9)

OS: Left eye, OD: Right eye, OU: Both eyes

AS: Left ear, AD: Right ear, AU: Both ears

d/c: discharge v/d: vomiting/diarrhea, c/s: coughing/sneezing

GA: general appearance

INTEG: integument

EENT: eyes, ears, nose, throat (and mouth)

CV: cardiovascular

RESP: respiratory

M/S: musculoskeletal

NERV: nervous

ABD: abdomen (gastrointestinal / genitourinary)